TETRA TECH

June 8, 2022

Mr. Jason Booth and Mr. Bryan Vasser
On-Scene Coordinators
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street, SW, 11th Floor
Atlanta, Georgia 30303

Subject: **Emergency Response Report**
Lakes Parkway Lithium Battery Fire
Lawrenceville, Gwinnett County, Georgia
EPA Contract No.: 68HE0519D0006
Task Order / Task Order Line Item No.: 68HE0419F0082 / 82-035

Dear Mr. Booth and Mr. Vasser:

The Tetra Tech, Inc. Superfund Technical Assessment and Response Team (Tetra Tech START) submits this emergency response (ER) letter report summarizing activities to address a lithium-ion battery fire at the Lakes Parkway Lithium Battery Fire site (the site) in Lawrenceville, Gwinnett County, Georgia from December 11, 2021 through March 8, 2022. This report includes six enclosures and two attachments. Enclosure 1 contains figures illustrating the site location, site layout, multimedia sampling locations, and air monitoring locations. Enclosure 2 includes multimedia sampling data summary tables. Enclosure 3 contains daily air monitoring data summary tables. Enclosure 4 contains the photographic log. Enclosure 5 contains the logbook notes. Enclosure 6 includes the Tetra Tech data validation reports. Attachment 1 contains National Response Center (NRC) Report #1324174. Attachment 2 contains the laboratory analytical data packages.

SITE BACKGROUND

On December 7, 2021, the Gwinnett County Fire Department (GCFD) responded to a fire inside the Recytech USA (Recytech) warehouse at 1665 Lakes Parkway, Suite 116, Lawrenceville, Gwinnett County, Georgia. The geographic coordinates of the site are 33.965963 degrees north and 84.055812 degrees west (see Figure 1 in Enclosure 1). The GCFD removed several pallets of smoldering and burning lithium-ion batteries (batteries) to the outside loading dock area at the rear of the building. GCFD spaced the pallets apart to prevent additional arcing between the batteries. Marion Environmental, Inc. (MEI) arrived on site to conduct cleanup activities but were turned away by the responsible party (RP), who assured GCFD they could remediate the problem themselves.

The site, which is in an industrial park, stores and ships electronic waste overseas. It is bordered to the north by residences and to the east, south, and west by commercial businesses (see Figure 2 in Enclosure 1).

On December 9, 2021, GCFD responded to another battery fire at the site. The GCFD notified the NRC (see Attachment 1) and the Georgia Environmental Protection Division (GAEPD). GAEPD notified EPA of the battery fires, which prompted EPA to mobilize On-Scene Coordinator (OSC) Jason Booth to the site.

On December 10, 2021, EPA arrived on site and met with GAEPD, GCFD, and the RP. MEI returned to the site but was unable to secure a contract with the RP. EPA presented a Notice of Federal Interest, a Notice of Federal Assumption, and an access agreement to the RP. After the RP signed the access agreement, EPA mobilized the Emergency Rapid Response Services contractor, Environmental

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Restoration, LLC (ER), to conduct emergency response cleanup activities. ER arrived on site later that afternoon and covered the batteries in the loading dock area with sand and plastic sheeting to prevent further reactivity and suppress smoke. Later that evening, EPA mobilized Tetra Tech START to collect soil and surface water samples from a retention pond impacted by runoff from firefighting activities during multiple responses.

EMERGENCY RESPONSE AND REMOVAL ACTIVITIES

On the morning of December 11, 2021, Tetra Tech START arrived on site and discussed emergency response activities with EPA. EPA and Tetra Tech START conducted a brief site walk and observed the batteries in the loading dock area covered with sand and plastic sheeting. Next to the staged batteries, EPA and Tetra Tech START observed a storm drain where runoff from firefighting activities emptied and deposited into the retention pond located southeast of the Rytech entrance on the eastern side of the site. EPA and Tetra Tech START inspected the retention pond and observed some standing water and minor quantities of fire suppressant pellets. EPA tasked Tetra Tech START to collect soil and surface water samples from the retention pond, including a background sample. Tetra Tech START collected six soil samples and three surface water samples, including quality control samples, from the following locations (see Figure 3 in Enclosure 1):

- Soil sample LLB-SS-L01-121121 and surface water sample LLB-SW-L01-121121, including duplicate samples LLB-SS-L01-121121-DUP and LLB-SW-L01-121121-DUP were collected from an area northeast of the southwestern outfall.
- Soil sample LLB-SS-L02-121121, including a matrix spike and a matrix spike duplicate (MS/MSD) sample, was collected approximately 25 feet west of soil samples LLB-SS-L01-121121 and LLB-SS-L01-121121-DUP.
- Surface water sample LLB-SW-L02-121121, including a matrix spike and a matrix spike duplicate sample, was collected at the southwestern outfall.
- Soil sample LLB-SS-L03-121121 was collected approximately 10 feet north of the southwestern outfall.
- Soil sample LLB-SS-L04-121121 was a background sample collected uphill from the southwestern outfall near the northwestern corner of the 1655 Lakes Parkway loading dock parking area.
- Soil sample LLB-SS-L05-121121 was collected near the southeastern outfall servicing 1655 Lakes Parkway. Tetra Tech START collected the sample from just above the water line after a flash thunderstorm filled the outfall area with water.

On December 13, 2021, ER began placing the individual batteries into plastic bags and stacking the bagged batteries between layers of fire suppressant pellets within 55-gallon steel drums. The drums were sealed and secured inside a conex storage container. EPA requested Tetra Tech START return to the site to collect a 5-point composite sample (LLB-SS-L06-121321) from the sand covering the batteries for disposal purposes (see Figure 3 in Enclosure 1).

On December 14, 2021, ER continued packing the batteries into 55-gallon drums in the same manner as the previous day until the batteries self-ignited in the drums on two separate occasions. After the GCFD extinguished the fires, EPA suspended battery packing operations and decided to pack batteries individually in Department of Transportation (DOT) Packing Group 1 rated pails (DOT pails) to prevent self-ignition and allow for safe transport.

On December 14, 2021, EPA mobilized Tetra Tech START to conduct perimeter air monitoring around the battery packing operation. Tetra Tech START arrived on site and deployed Viper, a remote telemetry system with Honeywell AreaRAE Pros (AreaRAE Pro), at four locations to determine if the smoke contained combustion byproducts that could threaten nearby residents and employees. Each AreaRAE Pro contained sensors to detect carbon monoxide (CO), hydrogen sulfide (H_2S), oxygen (O_2), lower explosive limit (LEL), and gamma radiation, as well as a photoionization detector (PID) with a 10.6 electron volt (eV) bulb to detect volatile organic compounds (VOCs).

Based on proximity to battery packing operations, Tetra Tech START identified and placed an AreaRAE Pro at each of the following locations (see Figure 4 of Enclosure 1):

- Location 1 – Approximately 55 feet north of the loading dock area at the northern fence line of the facility near a residential area
- Location 2 – Northwestern side of operations at the loading dock stairwell of 1675 Lakes Parkway, Suite 101
- Location 3 – Western side of operations at the loading dock stairwell of 1675 Lakes Parkway, Suite 105
- Location 4 – Southwestern side of operations at the loading dock stairwell of 1665 Lakes Parkway, Suite 112

From December 15 through 19, 2021, ER conducted battery packing operations using the DOT pails. ER placed one battery into a plastic bag, placed the bagged battery into a pail, and surrounded it with fire suppressant pellets. ER inventoried, weighed, and labeled each DOT pail with the following information: DOT Class 9 Lithium Battery labels, Dangerous Goods Lithium Battery labels with UN3480 identifier, a Lithium-Ion label, a Damaged/Defective Lithium-Ion Battery label, and an inventory identification label. ER secured the DOT pails inside a conex storage container each day. In addition, ER contracted a group to erect a tent over the batteries covered in sand in the loading dock area to minimize their exposure to the weather.

On December 19, 2021, some of the DOT pails staged in the conex storage container self-ignited and GCFD mobilized to the site to extinguish the fire. EPA and ER suspended battery packing operations.

On December 20, 2021, EPA and ER met with representatives from several battery recycling facilities. Based on those meetings, EPA decided to submerge the batteries in a 0.5 percent sodium chloride brine solution (brine solution) to de-energize them prior to disposal. ER prepared a test brine solution in a 55-gallon steel drum and placed batteries in the solution. EPA requested Tetra Tech START move the AreaRAE Pro from Location 4 to monitor gases potentially released from the test drum during the de-energizing process. Tetra Tech START moved the AreaRAE Pro to the southwestern portion of the battery staging area on the western side of the stationary tractor trailer (Location 5) (see Figure 4 in Enclosure 1).

From December 21 through 23, 2021, ER submerged all batteries at the site into two roll-off containers filled with the brine solution. EPA and Tetra Tech START observed bubbles coming from the batteries in the solution as they were submerged. EPA requested Tetra Tech START move the AreaRAE Pros from Locations 2 and 3 to near the roll-offs to monitor for gases potentially released during the de-energizing process. Tetra Tech START placed one AreaRAE Pro south of the battery staging area near the center of the stationary tractor trailer (Location 6) and the other AreaRAE Pro southwest of the battery staging area at the loading dock stairwell of 1665 Lakes Parkway, Suites 114 and 116 (Location 7) (see Figure 4 in Enclosure 1). EPA installed a nitric oxide (NO) sensor in the AreaRAE Pro at Location 6 and a sulfur dioxide (SO_2) and chlorine (Cl_2) sensor in the AreaRAE Pro at Location 7. Also, ER tested

the voltage of select batteries submerged for longer than 12 hours and found that some still carried a charge. EPA and ER decided the batteries would need more time to de-energize in the brine solution. On December 22, 2021, EPA tasked Tetra Tech START to collect a grab wastewater sample (LP-LB-WW-01) of the brine solution for disposal purposes.

On December 23, 2021, EPA tasked Tetra Tech START to monitor for hydrogen chloride (HCl) and hydrogen fluoride (HF) gases using Honeywell SPM Flexes (SPM Flex) fitted with Honeywell SPM Flex mineral acid chemcassette tapes (mineral acid tapes). Tetra Tech START conducted HCl and HF air monitoring on the eastern side of the roll off containers (Location 8) (see Figure 4 in Enclosure 1). EPA, Tetra Tech START, and ER demobilized from the site.

From December 24, 2021 through February 21, 2022, the batteries remained submerged in the two roll-offs. Tetra Tech START continued air monitoring activities at Locations 1, 6, 7, and 8; conducted visual inspections of the roll-offs; and briefed EPA on site changes, as necessary. During this time, EPA applied for and received an Emergency Special Permit from DOT for battery disposal, and ER procured contracts for the disposal of all site wastes, including the batteries. On January 11, 2022, EPA tasked Tetra Tech START to collect a composite wastewater sample (LPLBF-WW-L01-011122) of the brine solution from the two roll-off containers for disposal purposes.

On February 18, 2022, Tetra Tech START moved both SPM Flexes from Location 8 to Location 6 to continue HCl and HF monitoring during battery disposal activities. Location 8 was in front of the roll-off access doors and would have impeded ER from draining and accessing the roll-off container.

From February 22 through March 4, 2022, EPA and ER mobilized to the site to package and dispose of the de-energized batteries. ER pumped the brine solution into 330-gallon intermediate bulk container (IBC) totes to access the batteries for disposal activities. ER randomly selected batteries and tested the voltages of the batteries. The voltages ranged from 0.0 to 0.1 volts across accessible electrodes. ER packaged the batteries pursuant to DOT Special Permits SP-16532 for small batteries and SP-21329 medium and large batteries. ER placed each small battery into individual plastic bags and placed them between layers of fire suppressant pellets in plastic-lined 55-gallon drums. ER placed the medium to large batteries between layers of fire suppressant pellets in fire suppressant-lined 55-gallon drums. A total of 13,414 pounds of batteries were packaged for shipment and disposal. On February 25, 2022, EPA tasked Tetra Tech START to collect a composite waste sample (LPLBF-SL-L01-022522) from the sludge in the northern roll off container for disposal purposes.

On March 4, 2022, Clean Harbors, Inc. (Clean Harbors) arrived on site and removed approximately 6,300 gallons of brine solution from the totes and roll-off containers for transport and disposal as non-hazardous waste. Tetra Tech START completed air monitoring, packed up the air monitoring equipment, and returned it to EPA. On March 8 and March 16, 2022, the batteries were transported to Retriev Technologies, Inc. (RTI) in Lancaster, Ohio for disposal.

MULTIMEDIA SAMPLING AND RESULTS

From December 11, 2021 through February 25, 2022, Tetra Tech START collected soil and surface water samples from a retention pond impacted by runoff from firefighting activities, a waste sample from the sand used to cover the batteries, wastewater samples from the brine solution used to de-energize the batteries, and a waste sludge sample from a roll-off container, including quality control duplicate and MS/MSD samples. Tetra Tech START collected the samples in accordance with EPA Region 4 Laboratory Services and Applied Sciences Division (LSASD) Field Branches Quality System and Technical Procedures (FBQSTP) for *Soil Sampling* (LSASDPROC-300-R4), June 2020, *Surface Water*

Sampling (LSASDPROC-201-R5), December 2021, and *Waste Sampling* (LSASDPROC-302-R4), May 2020.

Tetra Tech START submitted the samples to Analytical Environmental Services, Inc. (AES), in Atlanta, Georgia, for the following analyses:

- Target compound list (TCL) VOCs via EPA SW-846-Method 8260D, *Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)*, for all matrices, except waste sand, and toxic characteristic leaching procedure (TCLP) VOCs via SW-846 Method 1311, *TCLP*, for waste sludge
- TCL semivolatile compounds (SVOCs) via EPA SW-846 Method 8270E, *Semivolatile Organic Compounds by GC/MS*, for all matrices, except waste sand, and TCLP SVOCs via SW-846 Method 1311, for waste sludge
- Total metals via SW-846 Method 6010D, *Inductively Coupled Plasma-Atomic Emission Spectrometry*, for all matrices, and TCLP metals via SW-846 Method 1311 for waste sand and sludge samples
- Total mercury via SW-846 Method 7470A, *Mercury in Liquid Waste (Manual Cold-Vapor Technique)*, for all matrices, except soil and waste sand samples, SW-846 Method 7471B, *Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)*, for wastewater samples, and SW-846 Method 7473, *Mercury in Solids and Solutions by Thermal Decomposition, Amalgamation, and Atomic Absorption Spectrophotometry*, for soil and waste sand samples, and TCLP mercury via SW-846 Method 1311 for waste sand and sludge samples
- Reactive cyanide and reactive sulfide via SW-846 Method 7.3, *Reactivity*, for wastewater samples
- pH via Standard Method (SM) 4500H+B, *pH in Water by Potentiometry*, and SW-846 Method 9045D, *Soil and Waste pH*, for wastewater samples
- Chloride and fluoride ion scan via SW-846 Method 9056A, *Determination of Inorganic Anions by Ion Chromatography*, for wastewater samples
- Flashpoint via SW-846 Method 1010B, *Test Methods for Flash Point by Pensky-Martens Closed Cup Tester*, for wastewater samples
- Total solids via Standard Method SM2540B, *Total Solids Dried at 103-105 degrees Celsius (°C)*, and total suspended solids via SM2540D, *Total Solids Dried at 103-105 °C*, for wastewater samples
- Percent fixed solids and percent total solids via SM2540G, *Total, Fixed, and Volatile Solids in Solid and Semisolid Samples*, for wastewater samples

Tetra Tech conducted a Stage 3 validation of the soil and surface water sampling analytical results and a Stage 2A validation of the waste sampling analytical results. The Tetra Tech data validation reports are contained in Enclosure 6, and the laboratory analytical data packages are contained in Attachment 2.

Tetra Tech START compared the soil and waste sand sampling results to the EPA Removal Management Levels (RMLs) for Chemicals for 10^{-4} Risk Level for Carcinogens or a Hazard Quotient of 3 for Non-Carcinogens Management Levels, dated May 2022, and the waste sand and sludge results to regulatory levels listed in Title 40 Code of Federal Regulation (CFR) Part 261.24, Identification and Listing of Hazardous Waste, Toxicity Characteristic, Table 1, Maximum Concentration of Contaminants for the Toxicity Characteristic (40 CFR 261.24, Table 1). Comparison criteria for the analytical results

associated with the surface water and wastewater samples was not available. The analytical results are summarized as follows:

- Analytical results for the soil samples detected the presence of TCL VOCs, TCL SVOCs, and total metals, but the results did not exceed the EPA RMLs for industrial soil (see Table 1 in Enclosure 2).
- Analytical results for the surface water samples detected the presence of TCL VOCs and total metals (see Table 2 in Enclosure 2).
- Analytical results for the waste sand samples detected the presence of total and TCLP metals, but the results did not exceed the EPA RMLs for industrial soil or the regulatory levels listed in 40 CFR 261.24, Table 1 (see Table 3 in Enclosure 2).
- Analytical results for the wastewater samples detected the presence of TCL VOCs, TCL SVOCs, and total metals, as well as values for pH, chloride, fluoride, ignitability, percent fixed solids, percent total solids, total suspended solids, and total solids (see Table 4 in Enclosure 2).
- Analytical results of the waste sludge samples detected the presence of TCLP SVOCs and TCLP metals, but the results did not exceed regulatory levels listed in 40 CFR 261.24, Table 1 (see Table 5 in Enclosure 2).

AIR MONITORING RESULTS

From December 14, 2021 through March 4, 2022, Tetra Tech START conducted 24-hour stationary air monitoring at eight locations around the site (see Figure 4 in Enclosure 2) and provided EPA a daily summary table of the air monitoring data. Tetra Tech START compared the air monitoring data to the following criteria:

- Temporary Emergency Exposure Limits (TEELs) representing VOC concentrations for benzene associated with no effects (TEEL-0) over a 15-minute time-weighted average (TWA). TEELs estimate the concentrations at which most people will begin to experience health effects if they are exposed to a hazardous airborne chemical for a given duration.
- EPA Acute Exposure Guideline Levels (AEGL), Level 1 (AEGL-1), 1-hour action levels for Cl_2, HCl, and HF and 8-hour action levels for H_2S and SO_2 refers to the airborne concentration of a substance above which the general population, including susceptible individuals, could experience notable discomfort, irritation, or certain asymptomatic non-sensory effects; however, Level 1 effects are not disabling and are transient and reversible upon cessation of exposure.
- AEGL, Level 2 (AEGL-2), 8-hour action level for CO refers to the airborne concentration of a substance above which the general population, including susceptible individuals, could experience irreversible or other serious, long-lasting adverse health effects or an impaired ability to escape.
- Protective Action Criteria, Level 1 (PAC-1), 1-hour action levels for NO refers to mild, transient health effects associated with uncontrolled releases of hazardous chemicals.

Summaries of the daily air monitoring data indicated the following (see Enclosure 3):

- VOC concentrations were below the TEEL-0, 15-minute TWA period average for benzene (1,000 parts per billion) during monitoring activities.

- The following analytes were below their respective AEGL-1 and AEGL-2 period average concentrations during monitoring activities: CO (27 ppm), H_2S (0.33 ppm), SO_2 (0.2 ppm), HCl (1.8 ppm), and HF (1 ppm).
- Concentrations of NO at Location 6 were below the PAC-1 period average action level [0.5 parts per million (ppm)], except on December 25 through 31, 2021 (0.7 ppm to 1.3 ppm); January 1, 2022 (1.7 ppm); February 10 through February 12 (0.5 ppm to 0.7 ppm); February 16 (0.6 ppm); February 18 (1.3 ppm); February 23 (0.8 ppm); February 24 (0.9 ppm); February 26 (0.5 ppm); February 28 (1.1 ppm); and March 1 through 3 (0.9 ppm to 1.0 ppm).

Tetra Tech START compared stationary ambient air quality readings for O_2 and LEL to benchmarks specified in the U.S. Department of Labor (DOL), Occupational Safety and Health Administration (OSHA), 29 CFR 1910.146, Permit-required Confined Spaces.

SUMMARY OF RESPONSE ACTIVITIES

From December 10, 2021 through March 18, 2022, EPA and ER conducted emergency response, removal, and disposal activities associated with the lithium-ion battery fire at the Recytech facility in Lawrenceville, Georgia. ER packed the batteries between layers of fire suppressant pellets in 55-gallon drums and DOT pails, but the batteries self-ignited. ER de-energized the batteries in a brine solution from December 21, 2021 through February 22, 2022 and packaged the batteries pursuant to DOT Special Permits SP-16532 for small batteries and SP-21329 medium and large batteries. ER disposed of 6,300 gallons of brine solution as non-hazardous waste via Clean Harbors and 13,414 pounds of batteries via RTI.

From December 11, 2021 through March 4, 2022, Tetra Tech START collected soil and surface water samples from a retention pond impacted by runoff from firefighting activities, collected waste samples (sand, wastewater, and sludge) generated during emergency response and removal activities, and conducted 24-hour air monitoring during emergency response and removal activities. Analytical results indicated the detection of various analytes, but none exceeded the EPA RMLs for industrial soil or regulatory levels listed in 40 CFR 261.24, Table 1. Summaries of air monitoring data indicated an exceedance of the PAC-1 period average action level for NO on 18 occasions, but no analytes exceeded their respective TEEL-0, 15-minute TWA, AEGL-1, and AEGL-2, period average concentrations.

On March 4, 2022, Tetra Tech START demobilized from the site. On March 18, 2022, EPA and ER completed all site activities and demobilized from the site.

If you have any questions or need additional copies of this letter report, please contact me at 678-775-3106.

Sincerely,

Paul E. Prys II
START V Project Manager

Andrew F. Johnson
START V Program Manager

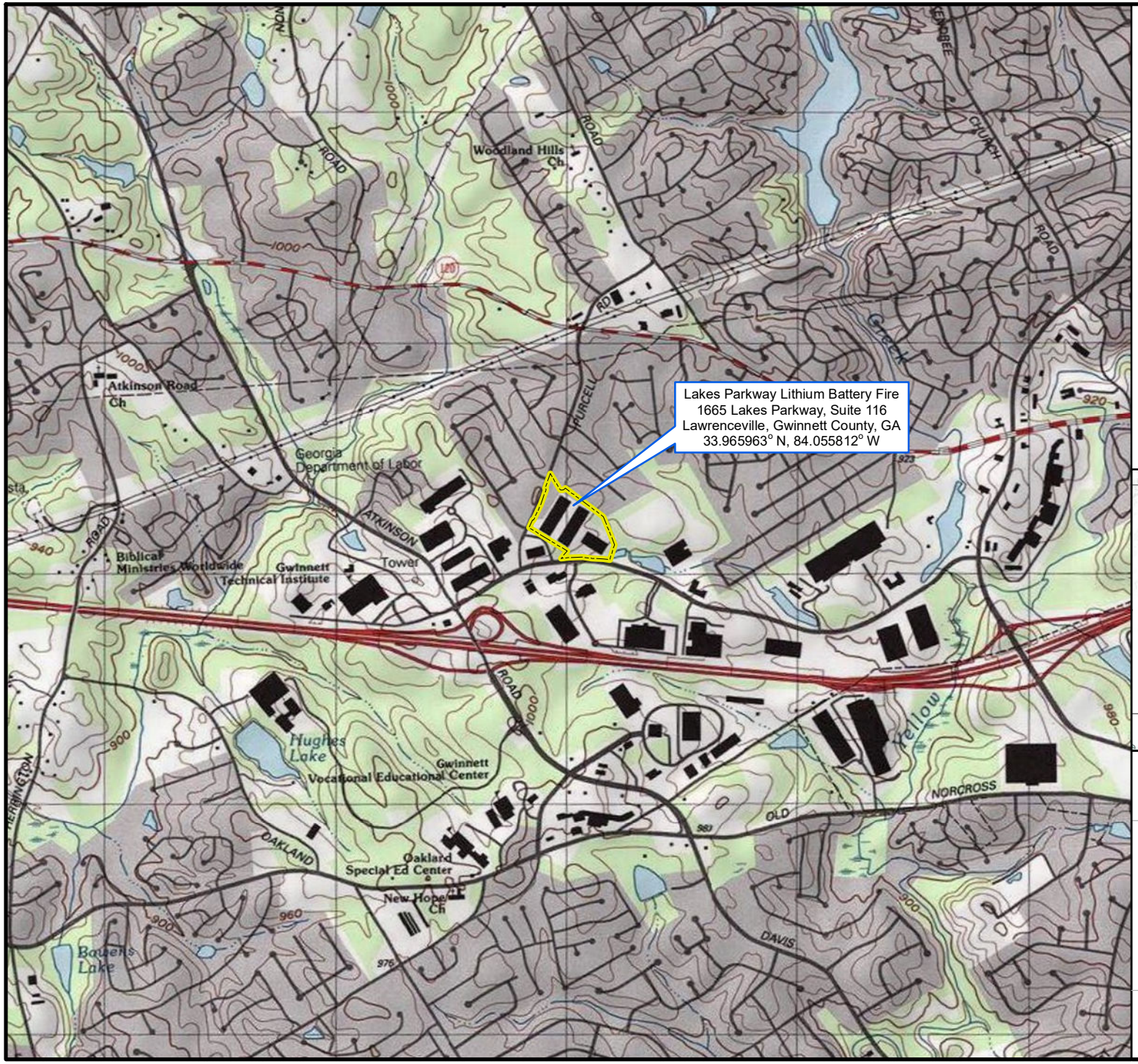
Enclosures (6)
Attachment (2)

cc: Katrina Jones, EPA Project Officer
Angel Reed, START V Document Control Coordinator

ENCLOSURE 1

FIGURES

(Four Pages)



Legend

Site Location

N
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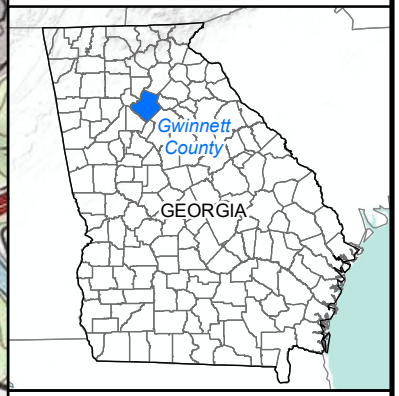
S

0 1,000 2,000
Feet

Map Sources:
Gwinnett County, GA GIS, 2022.
USGS 7.5 Minute Topographic Quadrangle Map: Luxomni, GA 1984.



United States Environmental Protection Agency Region 4

FIGURE 1

Site Location

Site Name: Lakes Parkway Lithium Battery Fire

TOLIN No.: 82-035

City:	County:	State:
Lawrenceville	Gwinnett	Georgia

TETRA TECH

Date: 5/25/2022
Analyst: dale.vonbusch

File: C:\START_V\82-035_Lakes_Parkway_Lithium_Battery_Fire\mxd\site_location.mxd

Legend

- Fire Location
- Site Location / Parcel Boundary
- Stormwater Retention

N
W E
S

0 100 200
Feet

Map Sources:
Gwinnett County, GA GIS, 2022,
ESRI Aerial Imagery, 2018-2019.

United States Environmental Protection Agency Region 4

FIGURE 2

Site Layout

Site Name: Lakes Parkway Lithium Battery Fire

TOLIN No.: 82-035

City:	County:	State:
Lawrenceville	Gwinnett	Georgia

TETRA TECH

Date: 5/25/2022
Analyst: dale.vonbusch

File: C:\START_V\82-035_Lakes_Parkway_Lithium_Battery_Fire\mxd\site_layout.mxd

Legend

- Fire Location
- Surface Soil Sample
- Surface Water Sample
- Waste Sample
- Site Location / Parcel Boundary
- Stormwater Retention

N
W E
S

0 40 80
Feet

Notes:
DUP - Duplicate
L## - Sample Location
LLB - Lakes Parkway Lithium Battery Fire
LPLBF - Lakes Parkway Lithium Battery Fire
LP-LB - Lakes Parkway Lithium Battery Fire
SL - Waste sludge
SS - Soil sample
SW - Soil water
WW- Wastewater

Map Sources:
Gwinnett County, GA GIS, 2022,
ESRI Aerial Imagery, 2018-2019.

United States Environmental Protection Agency Region 4

FIGURE 3

Multimedia Sampling Locations

Site Name: Lakes Parkway Lithium Battery Fire

TOLIN No.: 82-035

City:	County:	State:
Lawrenceville	Gwinnett	Georgia

TETRA TECH

Date: 5/31/2022
Analyst: dale.vonbusch

File: C:\START_V\82-035_Lakes_Parkway_Lithium_Battery_Fire\mxd\multimedia_sampling.mxd

Legend

- Air Monitoring Location
- Fire Location
- Site Location / Parcel Boundary

N
W E
S

0 40 80
Feet

Map Sources:
Gwinnett County, GA GIS, 2022,
ESRI Aerial Imagery, 2018-2019.

United States Environmental Protection Agency Region 4

FIGURE 4

Air Monitoring Locations

Site Name: Lakes Parkway Lithium Battery Fire

TOLIN No.: 82-035

City:	County:	State:
Lawrenceville	Gwinnett	Georgia

TETRA TECH

Date: 5/25/2022
Analyst: dale.vonbusch

File: C:\START_V\82-035_Lakes_Parkway_Lithium_Battery_Fire\mxd\air_monitoring.mxd

ENCLOSURE 2

MULTIMEDIA SAMPLING DATA SUMMARY TABLES

(Seven Pages)

TABLE 1
STAGE 3 VALIDATED ANALYTICAL RESULTS - SOIL SAMPLES

ANALYTE	EPA RML for Industrial Soil	LLB-SS-L01-121121	LLB-SS-L01-121121-DUP	LLB-SS-L02-121121	LLB-SS-L03-121121	LLB-SS-L04-121121	LLB-SS-L05-121121
Total Metals (mg/Kg)							
Aluminum	3,400,000	**6,970**	**10,100**	**3,860**	**4,580**	**4,320**	**8,480**
Antimony	1,400	**22.5**	**13**	**2.54**	**3.83**	0.545 U	0.469 U
Arsenic	300	0.803 U	**1.08 J**	0.451 U	**0.713 J**	0.701 U	**1.5 J**
Barium	650,000	**94.3**	**86.6**	**40.3**	**32.6**	**63.3**	**43.7**
Cadmium	300	**0.238 J**	**0.362 J**	**0.114 J**	0.0958 U	**0.206 J**	**0.209 J**
Calcium	NL	**2,920**	**2,580**	**992**	**636**	**3,860**	**1,370**
Chromium	5,300,000	**12**	**15.3**	**8.79**	**7.99**	**8.54**	**9.19**
Cobalt	1,000	**384**	**110**	**28.1**	**26.1**	**0.941 J**	**1.75 J**
Copper	140,000	**54.1**	**49.9**	**16.3**	**18.1**	**6.01**	**12.8**
Iron	2,500,000	**9,630**	**12,000**	**8,320**	**10,500**	**5,030**	**9,400**
Lead	800	**14.1**	**15.8**	**4.4 J**	**8.08**	**6.26 J**	**12**
Magnesium	NL	**2,790**	**2,910**	**1,180**	**1,180**	**651**	**1,000**
Manganese	77,000	**390**	**298**	**155**	**122**	**582**	**196**
Mercury	140	0.0894 U	0.0867 U	**0.0575 J**	0.0515 U	**0.12 J**	0.0657 U
Nickel	67,000	**158**	**117**	**44.4**	**43.4**	**4.22 J**	**6.44**
Potassium	NL	**2,070**	**1,970**	**1,050**	**894**	**904**	**1210**
Selenium	18,000	**1.35 J**	**1.49 J**	**0.914 J**	**0.504 J**	**1.49 J**	**1.33 J**
Silver	18,000	**0.115 J**	**0.0868 J**	0.0165 U	0.0166 U	**0.0456 J**	0.0221 U
Sodium	NL	**277**	**259**	**130**	**110**	**157**	**127**
Vanadium	17,000	**19.7**	**25.6**	**12.1**	**19.8**	**9.28**	**24.7**
Zinc	1,100,000	**553**	**579**	**241**	**281**	**58.9**	**213**
TCL Volatile Organic Compounds (µg/Kg)							
1,2-Dichloroethane	200,000	7.3 U	**48**	2.3 U	3.4 U	8.9 U	3.8 U
2-Butanone	580,000,000	16 U	13 U	5 U	**26 J**	19 U	8.3 U
4-Methyl-2-pentanone	NL	**20 J**	**17 J**	3 U	**7.7 J**	11 U	4.9 U
Acetone	3,200,000,000	**170 J**	**420**	19 U	**240**	**1300**	**84 J**
Benzene	510,000	**17**	**31**	2.2 U	3.2 U	8.6 U	3.7 U
Carbon disulfide	10,000,000	15 U	**21 J**	4.8 U	6.9 U	18 U	7.8 U
Chloroethane	NL	10 U	**19 J**	3.2 U	4.7 U	12 U	5.3 U
Chloromethane	1,400,000	8.8 U	**29**	2.8 U	4 U	11 U	4.6 U
Ethylbenzene	2,500,000	**17**	**30**	2.1 U	**7.8**	8 U	3.4 U
Isopropylbenzene	NL	7.2 U	**8.2 J**	2.3 U	3.3 U	8.8 U	3.8 U
Methyl acetate	3,500,000,000	**34**	**28**	3.4 U	4.9 U	13 U	5.6 U
Methyl tert-butyl ether	21,000,000	7.1 U	6 U	2.3 U	**16**	8.7 U	3.7 U
o-Xylene	8,400,000	**14 J**	**15**	2.1 U	**6.3 J**	7.9 U	3.4 U
Styrene	100,000,000	**75**	**130**	2 U	**89**	7.6 U	3.2 U
Toluene	140,000,000	**29**	**46**	2.2 U	**4.6 J**	8.3 U	3.6 U

TABLE 1
STAGE 3 VALIDATED ANALYTICAL RESULTS - SOIL SAMPLES

ANALYTE	EPA RML for Industrial Soil	LLB-SS-L01-121121	LLB-SS-L01-121121-DUP	LLB-SS-L02-121121	LLB-SS-L03-121121	LLB-SS-L04-121121	LLB-SS-L05-121121
TCL Semivolatile Organic Compounds (µg/Kg)							
Acenaphthene	140,000,000	110 U	110 U	**140 J**	64 U	90 U	82 U
Anthracene	680,000,000	290 U	**310 J**	**600**	**210 J**	240 U	210 U
Benz(a)anthracene	2,100,000	**2500**	**3300**	**5000**	**2400**	**670**	**1000**
Benzo(a)pyrene	210,000	**4100**	**5400**	**6000**	**2800**	**940**	**1800**
Benzo(b)fluoranthene	2,100,000	**9100**	**10000**	**12000**	**5500**	**2200**	**4500**
Benzo(g,h,i)perylene	NL	**3700**	**4800**	**3300**	**1700**	**640**	**1400**
Benzo(k)fluoranthene	21,000,000	290 U	**2600**	**2500**	170 U	240 U	220 U
Bis(2-ethylhexyl)phthalate	16,000,000	**1400**	**1200**	**250 J**	**99 J**	140 U	**170 J**
Butyl benzyl phthalate	120,000,000	140 U	140 U	82 U	83 U	**1700**	110 U
Caprolactam	1,200,000,000	300 U	**820**	170 U	170 U	240 U	220 U
Carbazole	NL	**510 J**	**730 J**	**930**	**430 J**	290 U	260 U
Chrysene	210,000,000	**5600**	**6700**	**6900**	**3500**	**1200**	**2300**
Dibenz(a,h)anthracene	210,000	**740 J**	**920**	**1000**	**520**	220 U	**380 J**
Fluoranthene	90,000,000	**7100**	**9100**	**14000**	**6100**	**2100**	**3000**
Fluorene	90,000,000	220 U	220 U	**190 J**	130 U	180 U	160 U
Indeno(1,2,3-cd)pyrene	2,100,000	**3200**	**4600**	**2900**	**1800**	**560 J**	**1300**
Naphthalene	860,000	120 U	**220 J**	70 U	71 U	100 U	91 U
Phenanthrene	NL	**2000**	**2600**	**4300**	**1800**	**530 J**	**720**
Phenol	740,000,000	140 U	**1000**	80 U	81 U	110 U	100 U
Pyrene	68,000,000	**6000**	**6800**	**10000**	**4400**	**1500**	**2300**

Notes:

Bold: Indicates analyte was positively identified at the associated value
DUP: Duplicate
EPA: U.S. Environmental Protection Agency
J: The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
L##: Sample location
LLB: Lakes Parkway Lithium Battery Fire
µg/Kg: Micrograms per kilogram
mg/Kg: Milligrams per kilogram
mmddyy: Month, day, year
NL: Not listed
RML: EPA Removal Management Levels for 10^{-4} Risk Level for Carcinogens or a Hazard Quotient of 3 for Non-Carcinogens Management Levels, dated May 2022.
SS: Soil sample
TCL: Target compound list
U: The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

TABLE 2
STAGE 3 VALIDATED ANALYTICAL RESULTS - SURFACE WATER

ANALYTE	LLB-SW-L01-121121	LLB-SW-L01-121121-DUP	LLB-SW-L02-121121
Total Metals (mg/L)			
Aluminum	**0.733**	**0.971**	**1.32**
Antimony	**0.403**	**0.402**	**0.264**
Barium	**0.074**	**0.0761**	**0.0313**
Calcium	**8.49**	**8.51**	**6.12**
Chromium	0.0067 U	**0.0135**	0.0067 U
Cobalt	**1.03**	**1.06**	**0.152**
Copper	**0.0664**	**0.0751**	**0.0501**
Iron	**0.74**	**1.02**	**1.58**
Magnesium	**2.92**	**2.95**	**2.29**
Manganese	**1.6**	**1.6**	**0.261**
Nickel	**0.929**	**0.986**	**0.119**
Potassium	**3.5**	**3.51**	**2.57**
Sodium	**6**	**5.98**	**6.62**
Vanadium	**0.0023 J**	**0.0024 J**	**0.0045 J**
Zinc	**0.294**	**0.307**	**0.2**
TCL Volatile Organic Compounds (µg/L)			
Acetone	**26 J**	**24 J**	**23 J**
Benzene	**0.8 J**	**0.79 J**	0.24 U
Ethylbenzene	**1.3 J**	**1.2 J**	0.24 U
Styrene	**15**	**14**	**1.5 J**
Toluene	**1.7 J**	**1.6 J**	0.66 U
TCL Semivolatile Organic Compounds (µg/L)	ND	ND	ND

Notes:

Bold: Indicates analyte was positively identified at the associated value
DUP: Duplicate
J: The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
L##: Sample location
LLB: Lakes Parkway Lithium Battery Fire
µg/Kg: Micrograms per kilogram
mg/Kg: Milligrams per kilogram
mmddyy: Month, day, year
ND: Not detected
SW: Soil water
TCL: Target compound list
U: The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

TABLE 3
STAGE 2A VALIDATED ANALYTICAL RESULTS - WASTE SAND

ANALYTE	EPA RML for Industrial Soil	TCLP[1]	LLB-SS-L06-121321
TCLP Metals (mg/L)			
Barium	NA	100	**0.0538 J**
Selenium	NA	1.0	**0.0468 J**
Total Metals (mg/Kg)			
Aluminum	3,400,000	NA	**107**
Antimony	1,400	NA	**1.16 J**
Arsenic	300	NA	**0.546 J**
Barium	650,000	NA	**0.558 J**
Calcium	NL	NA	**22.5 J**
Chromium	5,300,000	NA	**0.764 J**
Cobalt	1,000	NA	**4.79**
Copper	140,000	NA	**1.15 J**
Iron	2,500,000	NA	**315**
Magnesium	NL	NA	**4.42 J**
Manganese	77,000	NA	**4.08**
Nickel	67,000	NA	**11.7**
Potassium	NL	NA	**10.4 J**
Vanadium	17,000	NA	**0.9 J**
Zinc	1,100,000	NA	**0.639 J**

Notes:

Bold: Indicates analyte was positively identified at the associated value

[1]: Analytical results are compared to the regulatory levels listed in Table 1, Maximum Concentration of Contaminants for the Toxicity Characteristic, of 40 CFR 261.24, Identification and Listing of Hazardous Waste, Toxicity Characteristic.

CFR: Code of Federal Regulation

EPA: U.S. Environmental Protection Agency

J: The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

L##: Sample location

LLB: Lakes Parkway Lithium Battery Fire

mg/Kg: Milligrams per kilogram

mg/L: Milligrams per liter

mmddyy: Month, day, year

NA: Not applicable

NL: Not listed

RML: EPA Removal Management Levels for 10^{-4} Risk Level for Carcinogens or a Hazard Quotient of 3 for Non-Carcinogens Management Levels, dated May 2022.

SS: Waste sample

TCLP: Toxicity characteristic leaching procedure

TABLE 4
STAGE 2A VALIDATED ANALYTICAL RESULTS - WASTEWATER

ANALYTE	LP-LB-WW-01	LPLBF-WW-L01-011122
TCL Volatile Organic Compounds (µg/Kg & µg/L)[1]		
1,2-Dibromoethane	2500 U	**2.6 J**
2-Butanone	25000 U	**95**
2-Hexanone	5000 U	**4.3 J**
Acetone	25000 U	**200**
Benzene	2500 U	**460**
Bromomethane	2500 U	**130**
Chlorobenzene	2500 U	**2.0 J**
Chloroethane	5000 U	**4.8 J**
Chloroform	2500 U	**3.7 J**
Chloromethane	5000 U	**65**
Ethylbenzene	2500 U	**300**
Isopropylbenzene	2500 U	**20**
m,p-Xylene	2500 U	**20**
o-Xylene	2500 U	**15 J+**
Styrene	2500 U	**2400 J+**
Toluene	2500 U	**480**
TCL Semivolatile Organic Compounds (µg/Kg & µg/L)[1]		
1,1´-Biphenyl	4.6 U	**9.5 J**
2,4-Dimethylphenol	4.6 U	**15 J+**
2-Chlorophenol	100 U	**37 J+**
2-Methylnaphthalene	100 U	**4.6 J**
2-Methylphenol	100 U	**70 J+**
4-Methylphenol	670 U	**490 J+**
Acenaphthylene	100 U	**5.9 J**
Acetophenone	100 U	**100**
Bis(2-ethylhexyl)phthalate	100 U	**11**
Caprolactam	100 U	**72**
Fluorene	100 U	**3.1 J**
Naphthalene	100 U	**41**
Phenanthrene	100 U	**4.5 J**
Phenol	100 U	**3200 J+**
Total Metals (mg/Kg & mg/L)[2]		
Barium	100 U	**0.615**
Cadmium	100 U	**0.0035 J**
Chromium	500 U	**0.304**
Lead	100 U	**0.145**
Silver	100 U	**0.0423**
pH	**8.06 J**	**10.7 J**
Sulfide, Reactive (mg/Kg)	100 U	100 U
Cyanide, Reactive (mg/Kg)	0.980 U	1.00 U
Chloride (mg/L)	**2700**	**2600**
Fluoride (mg/L)	200 U	**90**
Ignitability (°F)	**180 >**	**180 >**
% Fixed Solids (wt%)	**93.2**	NA
% Total Solids (wt%)	**0.430**	NA
Total Suspended Solids (mg/L)	NA	**737**
Total Solids (wt%)	NA	**0.710**

TABLE 4
STAGE 2A VALIDATED ANALYTICAL RESULTS - WASTEWATER

Notes:

BOLD

[1]: Analytical units are in ug/Kg for LP-LB-WW-01 and ug/L for LPLBF-WW-L01-011122.

[2]: Analytical units are in mg/Kg for LP-LB-WW-01 and mg/L for LPLBF-WW-L01-011122.

>: Greater than

°F: Degrees Fahrenheit

J: The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

J+: The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.

L##: Sample location

LBLPF: Lakes Parkway Lithium Battery Fire

LP-LB: Lakes Parkway Lithium Battery Fire

µg/Kg: Micrograms per kilogram

µg/L: Micrograms per liter

mg/Kg: Milligrams per kilogram

mg/L: Milligrams per liter

NA: Not analyzed

TCL: Target compound list

U: The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

WW: Wastewater

wt%: Percent weight

TABLE 5
STAGE 2A VALIDATED ANALYTICAL RESULTS - WASTE SLUDGE

ANALYTE	TCLP[1]	LPLBF-SL-L01-022522
TCLP Volatile Organic Compounds (mg/L)	**NA**	ND
TCLP Semivolatile Organic Compounds (mg/L)		
m,p-Cresol	200	**0.016 J**
TCLP Metals (mg/L)		
Barium	100	**2.10**
Chromium	5.0	**0.0356 J**
Lead	5.0	**0.266**
Silver	5.0	**0.00345 J**

Notes:

Bold: Indicates analyte was positively identified at the associated value

[1]: Analytical results are compared to the regulatory levels listed in Table 1, Maximum Concentration of Contaminants for the Toxicity Characteristic, of 40 CFR 261.24, Identification and Listing of Hazardous Waste, Toxicity Characteristic.

J: The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

L##: Sample location

LPLBF: Lakes Parkway Lithium Battery Fire

mg/L: Milligrams per liter

mmddyy: Month, day, year

NA: Not applicable

NL: Not listed

SL: Waste sludge

TCLP: Toxicity characteristic leaching procedure

ENCLOSURE 3

DAILY AIR MONITORING DATA SUMMARY TABLES

(83 Pages)

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/14/21 5:47 PM** ***To:*** **12/15/21 6:58 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 1	VOC	No	23583	22374	0 - 74 ppb	21.3 ppb	1000 ppb
	CO	No	23583	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	23583	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	23583	23583	20.3 - 20.9 %	20.5 %	<19.5 or >23 %
	LEL	No	23583	0	0 - 0 %	0 %	10 %
	γ	No	23583	23583	1 - 16 µrem/h	3.8 µrem/h	12 µrem/h

Location 2 - Northwestern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 2	VOC	No	23585	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	23585	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	23585	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	23585	23585	18.5 - 20.9 %	19.2 %	<19.5 or >23 %
	LEL	No	23585	0	0 - 0 %	0 %	10 %
	γ	No	23585	23585	1 - 21 µrem/h	6.5 µrem/h	12 µrem/h

Location 3 - Western Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 3	VOC	No	23583	23582	6 - 132 ppb	33.1 ppb	1000 ppb
	CO	No	23583	114	0 - 9 ppm	0 ppm	27 ppm
	H_2S	No	23583	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	23583	23583	19.6 - 20.9 %	20 %	<19.5 or >23 %
	LEL	No	23583	0	0 - 0 %	0 %	10 %
	γ	No	23583	23583	1 - 21 µrem/h	6.8 µrem/h	12 µrem/h

Location 4 - Southwestern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 4	VOC	No	23578	4397	0 - 51 ppb	2 ppb	1000 ppb
	CO	No	23578	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	23578	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	23578	23578	19.6 - 20.9 %	20 %	<19.5 or >23 %
	LEL	No	23578	0	0 - 0 %	0 %	10 %
	γ	No	23578	23578	1 - 23 µrem/h	8.2 µrem/h	12 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 1-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/15/21 7:00 AM** ***To:*** **12/16/21 12:00 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	29970	368	0 - 199 ppb	0.1 ppb	1000 ppb
	CO	No	29970	19	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	29970	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	29970	29970	20.3 - 20.6 %	20.5 %	<19.5 or >23 %
	LEL	No	29970	0	0 - 0 %	0 %	10 %
	γ	No	29970	29970	1 - 16 µrem/h	3.6 µrem/h	12 µrem/h

Location 2 - Northwestern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	Yes	29976	56	0 - 5203 ppb	1 ppb	1000 ppb
	CO	Yes	29976	5095	0 - 34 ppm	0.8 ppm	27 ppm
	H_2S	Yes	29976	10	0 - 5.8 ppm	0 ppm	0.33 ppm
	O_2	Yes	29976	29976	18.5 - 22.2 %	20.4 %	<19.5 or >23 %
	LEL	Yes	29976	10	0 - 38 %	0 %	10 %
	γ	No	29976	29976	1 - 20 µrem/h	6.3 µrem/h	12 µrem/h

Location 3 - Western Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	29923	10322	0 - 678 ppb	3.8 ppb	1000 ppb
	CO	Yes	29923	3733	0 - 44 ppm	0.7 ppm	27 ppm
	H_2S	No	29923	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	29923	29923	19.5 - 21.7 %	20.7 %	<19.5 or >23 %
	LEL	No	29923	0	0 - 0 %	0 %	10 %
	γ	No	29923	29923	1 - 20 µrem/h	6.6 µrem/h	12 µrem/h

Location 4 - Southwestern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	29968	239	0 - 867 ppb	0.6 ppb	1000 ppb
	CO	No	29968	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	29968	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	29968	29968	19.6 - 20.7 %	20.2 %	<19.5 or >23 %
	LEL	No	29968	0	0 - 0 %	0 %	10 %
	γ	No	29968	29968	1 - 23 µrem/h	8.2 µrem/h	12 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 1-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/16/21 12:00 AM** ***To:*** **12/16/21 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	12481	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	12481	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	12481	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	12481	12481	20.4 - 20.5 %	20.4 %	<19.5 or >23 %
	LEL	No	12481	0	0 - 0 %	0 %	10 %
	γ	No	12481	12481	2 - 3 µrem/h	3 µrem/h	9 µrem/h

Location 2 - Northwestern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	12483	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	12483	35	0 - 14 ppm	0 ppm	27 ppm
	H_2S	No	12483	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	12483	12483	19.6 - 19.8 %	19.7 %	<19.5 or >23 %
	LEL	No	12483	0	0 - 0 %	0 %	10 %
	γ	No	12483	12483	1 - 17 µrem/h	6.2 µrem/h	9 µrem/h

Location 3 - Western Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	12480	319	0 - 51 ppb	0.2 ppb	1000 ppb
	CO	No	12480	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	12480	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	12480	12480	20.4 - 20.4 %	20.4 %	<19.5 or >23 %
	LEL	No	12480	0	0 - 0 %	0 %	10 %
	γ	No	12480	12480	1 - 20 µrem/h	6.9 µrem/h	9 µrem/h

Location 4 - Southwestern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	12480	13	0 - 117 ppb	0 ppb	1000 ppb
	CO	No	12480	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	12480	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	12480	12480	20.2 - 20.3 %	20.2 %	<19.5 or >23 %
	LEL	No	12480	0	0 - 0 %	0 %	10 %
	γ	No	12480	12480	1 - 23 µrem/h	8.2 µrem/h	9 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 1-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/16/21 12:43 PM** ***To:*** ***12/17/21 7:00 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2072	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2072	4	0 - 2 ppm	0 ppm	27 ppm
	H_2S	No	2072	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2072	2072	20.4 - 20.6 %	20.5 %	<19.5 or >23 %
	LEL	No	2072	0	0 - 0 %	0 %	10 %
	γ	No	2072	2072	1 - 3 µrem/h	3 µrem/h	9 µrem/h

Location 2 - Northwestern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2205	8	0 - 519 ppb	0.8 ppb	1000 ppb
	CO	Yes	2205	327	0 - 48 ppm	1.4 ppm	27 ppm
	H_2S	No	2205	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2205	2205	20.1 - 21.2 %	20.4 %	<19.5 or >23 %
	LEL	No	2205	2	0 - 2 %	0 %	10 %
	γ	No	2205	2205	2 - 20 µrem/h	6.2 µrem/h	9 µrem/h

Location 3 - Western Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2200	17	0 - 122 ppb	0.3 ppb	1000 ppb
	CO	Yes	2200	180	0 - 44 ppm	0.8 ppm	27 ppm
	H_2S	No	2200	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2200	2200	20.5 - 20.9 %	20.7 %	<19.5 or >23 %
	LEL	No	2200	0	0 - 0 %	0 %	10 %
	γ	No	2200	2200	1 - 20 µrem/h	6.8 µrem/h	9 µrem/h

Location 4 - Southwestern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	2205	27	0 - 666 ppb	1.7 ppb	1000 ppb
	CO	No	2205	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2205	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2205	2205	20.4 - 20.9 %	20.6 %	<19.5 or >23 %
	LEL	No	2205	0	0 - 0 %	0 %	10 %
	γ	No	2205	2205	1 - 14 µrem/h	8.1 µrem/h	9 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 1-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/17/21 7:00 AM** ***To:*** **12/18/21 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2251	3	0 - 798 ppb	0.4 ppb	1000 ppb
	CO	Yes	2255	8	0 - 29 ppm	0 ppm	27 ppm
	H_2S	Yes	2255	3	0 - 8.4 ppm	0 ppm	0.33 ppm
	O_2	Yes	2255	2255	18.3 - 20.9 %	20.5 %	<19.5 or >23 %
	LEL	Yes	2255	37	0 - 19 %	0 %	10 %
	γ	No	2255	2255	2 - 4 µrem/h	3.1 µrem/h	9 µrem/h

Location 2 - Northwestern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2745	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	Yes	2745	722	0 - 44 ppm	2 ppm	27 ppm
	H_2S	No	2745	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2745	2745	20.1 - 22 %	20.9 %	<19.5 or >23 %
	LEL	No	2745	0	0 - 0 %	0 %	10 %
	γ	No	2745	2745	1 - 12 µrem/h	6.1 µrem/h	9 µrem/h

Location 3 - Western Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2735	2	0 - 104 ppb	0 ppb	1000 ppb
	CO	Yes	2735	434	0 - 154 ppm	1.4 ppm	27 ppm
	H_2S	Yes	2735	1	0 - 0.6 ppm	0 ppm	0.33 ppm
	O_2	No	2735	2735	20.4 - 21.5 %	20.9 %	<19.5 or >23 %
	LEL	No	2735	0	0 - 0 %	0 %	10 %
	γ	No	2735	2735	1 - 17 µrem/h	6.5 µrem/h	9 µrem/h

Location 4 - Southwestern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	Yes	2752	65	0 - 1535 ppb	11.1 ppb	1000 ppb
	CO	No	2752	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2752	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2752	2752	20.4 - 20.9 %	20.8 %	<19.5 or >23 %
	LEL	No	2752	0	0 - 0 %	0 %	10 %
	γ	No	2752	2752	2 - 14 µrem/h	8 µrem/h	9 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 1-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/18/21 7:00 AM** ***To:*** **12/19/21 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2949	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2949	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2949	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2949	2949	20.4 - 20.6 %	20.5 %	<19.5 or >23 %
	LEL	No	2949	478	0 - 2 %	0.3 %	10 %
	γ	No	2949	2949	2 - 14 µrem/h	3 µrem/h	9 µrem/h

Location 2 - Northwestern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	Yes	2956	29	0 - 2855 ppb	5.6 ppb	1000 ppb
	CO	Yes	2956	432	0 - 51 ppm	1.3 ppm	27 ppm
	H_2S	No	2956	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2956	2956	20.4 - 20.9 %	20.8 %	<19.5 or >23 %
	LEL	No	2956	0	0 - 0 %	0 %	10 %
	γ	No	2956	2956	1 - 18 µrem/h	6.1 µrem/h	9 µrem/h

Location 3 - Western Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	Yes	2956	18	0 - 3827 ppb	5.1 ppb	1000 ppb
	CO	Yes	2956	334	0 - 45 ppm	1 ppm	27 ppm
	H_2S	No	2956	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2956	2956	20.6 - 20.9 %	20.9 %	<19.5 or >23 %
	LEL	No	2956	2275	0 - 3 %	1.5 %	10 %
	γ	No	2956	2956	1 - 19 µrem/h	6.7 µrem/h	9 µrem/h

Location 4 - Southwestern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	2951	2	0 - 716 ppb	0.3 ppb	1000 ppb
	CO	No	2951	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2951	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2951	2951	20.5 - 20.9 %	20.7 %	<19.5 or >23 %
	LEL	No	2951	0	0 - 0 %	0 %	10 %
	γ	No	2951	2951	3 - 12 µrem/h	8.1 µrem/h	9 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 1-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/19/21 7:00 AM** ***To:*** **12/20/21 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2959	6	0 - 443 ppb	0.4 ppb	1000 ppb
	CO	No	2959	4	0 - 5 ppm	0 ppm	27 ppm
	H_2S	No	2959	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2959	2959	20.2 - 20.5 %	20.4 %	<19.5 or >23 %
	LEL	No	2959	0	0 - 0 %	0 %	10 %
	γ	No	2959	2959	2 - 9 µrem/h	3.4 µrem/h	9 µrem/h

Location 2 - Northwestern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2934	1	0 - 23 ppb	0 ppb	1000 ppb
	CO	Yes	2934	570	0 - 36 ppm	1.4 ppm	27 ppm
	H_2S	No	2934	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	2934	2934	18.7 - 21.6 %	19.9 %	<19.5 or >23 %
	LEL	No	2934	0	0 - 0 %	0 %	10 %
	γ	No	2934	2934	2 - 12 µrem/h	6.1 µrem/h	9 µrem/h

Location 3 - Western Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2772	22	0 - 470 ppb	0.9 ppb	1000 ppb
	CO	Yes	2772	455	0 - 50 ppm	1.4 ppm	27 ppm
	H_2S	Yes	2772	3	0 - 10.4 ppm	0 ppm	0.33 ppm
	O_2	Yes	2772	2772	17.4 - 20.9 %	20 %	<19.5 or >23 %
	LEL	Yes	234	43	0 - 12 %	0.5 %	10 %
	γ	No	2772	2772	1 - 12 µrem/h	6.6 µrem/h	9 µrem/h

Location 4 - Southwestern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	2957	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2957	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2957	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2957	2957	19.7 - 20.5 %	20.1 %	<19.5 or >23 %
	LEL	No	2957	0	0 - 0 %	0 %	10 %
	γ	No	2957	2957	1 - 10 µrem/h	8 µrem/h	9 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 1-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/20/21 7:00 AM** ***To:*** ***12/21/21 6:58 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2951	1	0 - 102 ppb	0 ppb	1000 ppb
	CO	No	2951	2	0 - 11 ppm	0 ppm	27 ppm
	H_2S	Yes	2951	1	0 - 0.4 ppm	0 ppm	0.33 ppm
	O_2	No	2951	2951	20 - 20.4 %	20.2 %	<19.5 or >23 %
	LEL	No	2951	1	0 - 2 %	0 %	10 %
	γ	No	2951	2951	2 - 14 µrem/h	2.6 µrem/h	6 µrem/h

Location 2 - Northwestern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2812	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	Yes	2812	501	0 - 42 ppm	1.4 ppm	27 ppm
	H_2S	No	2812	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	2812	2812	18.6 - 28 %	20.4 %	<19.5 or >23 %
	LEL	No	2812	0	0 - 0 %	0 %	10 %
	γ	Yes	2812	2812	2 - 12 µrem/h	6.1 µrem/h	6 µrem/h

Location 3 - Western Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2983	18	0 - 968 ppb	1.1 ppb	1000 ppb
	CO	Yes	2983	268	0 - 34 ppm	0.5 ppm	27 ppm
	H_2S	No	2983	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	2983	2983	19.3 - 20.4 %	19.7 %	<19.5 or >23 %
	LEL	No	0	0	0 - 0 %	%	10 %
	γ	Yes	2983	2983	1 - 15 µrem/h	6.4 µrem/h	6 µrem/h

Location 4 - Southwestern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	868	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	868	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	868	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	868	868	19.6 - 20.2 %	19.8 %	<19.5 or >23 %
	LEL	No	868	0	0 - 0 %	0 %	10 %
	γ	Yes	868	868	6 - 13 µrem/h	8 µrem/h	6 µrem/h

Location 5 - Southwest of Staging Area on Western Side of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 5	VOC	No	4198	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2099	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	4198	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2099	2099	19.7 - 20.4 %	19.9 %	<19.5 or >23 %
	LEL	No	2099	0	0 - 0 %	0 %	10 %
	γ	Yes	2099	2099	2 - 9 µrem/h	4.6 µrem/h	6 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/21/21 7:00 AM** ***To:*** **12/22/21 6:58 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2945	1	0 - 47 ppb	0 ppb	1000 ppb
	CO	No	2945	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2945	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2945	2945	20.1 - 20.2 %	20.2 %	<19.5 or >23 %
	LEL	No	2945	0	0 - 0 %	0 %	10 %
	γ	No	2945	2945	2 - 3 µrem/h	2.6 µrem/h	9 µrem/h

Location 2 - Northwestern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	570	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	Yes	570	102	0 - 32 ppm	1.3 ppm	27 ppm
	H_2S	No	570	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	570	570	19.1 - 26 %	22.2 %	<19.5 or >23 %
	LEL	No	570	0	0 - 0 %	0 %	10 %
	γ	No	570	570	2 - 9 µrem/h	5.9 µrem/h	9 µrem/h

Location 3 - Western Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	Yes	624	16	0 - 1822 ppb	4 ppb	1000 ppb
	CO	Yes	624	70	0 - 34 ppm	1.3 ppm	27 ppm
	H_2S	No	624	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	624	624	19.4 - 23.1 %	21.6 %	<19.5 or >23 %
	γ	No	624	624	1 - 10 µrem/h	6.4 µrem/h	9 µrem/h

Location 5 - Southwest of Staging Area on Western Side of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 5	VOC	No	2260	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	1130	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2260	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	1130	1130	19.7 - 20 %	19.8 %	<19.5 or >23 %
	LEL	No	1130	0	0 - 0 %	0 %	10 %
	γ	Yes	1130	1130	4 - 10 µrem/h	4.8 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 6	VOC	Yes	6282	2198	0 - 1656 ppb	4.2 ppb	1000 ppb
	CO	No	3141	5	0 - 7 ppm	0 ppm	27 ppm
	H_2S	No	6282	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	3141	3141	7.1 - 21.8 %	21.2 %	<19.5 or >23 %
	LEL	No	3141	0	0 - 0 %	0 %	10 %
	NO	Yes	3141	40	0 - 15.4 ppm	0 ppm	0.5 ppm
	γ	Yes	3141	3141	2 - 9 µrem/h	6.1 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 7	VOC	No	4590	4250	0 - 630 ppb	14 ppb	1000 ppb
	CO	No	2295	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	Yes	4590	8	0 - 0.9 ppm	0 ppm	0.33 ppm
	O_2	Yes	2295	2280	0 - 22.7 %	20.4 %	<19.5 or >23 %
	SO_2	Yes	2295	16	0 - 5 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	2295	370	0 - 10.8 ppm	0 ppm	0.5 ppm
	γ	No	2295	2295	2 - 7 µrem/h	5 µrem/h	9 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 8-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/22/21 7:00 AM** ***To:*** **12/23/21 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3069	2	0 - 158 ppb	0.1 ppb	1000 ppb
	CO	No	3069	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3069	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3069	3069	19.9 - 20.6 %	20.2 %	<19.5 or >23 %
	LEL	No	3069	0	0 - 0 %	0 %	10 %
	γ	No	3069	3069	2 - 8 µrem/h	3.5 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 6	VOC	No	6118	66	0 - 281 ppb	0.3 ppb	1000 ppb
	CO	No	3059	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	6118	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	3059	3059	19.1 - 22.3 %	20.8 %	<19.5 or >23 %
	LEL	No	3059	0	0 - 0 %	0 %	10 %
	NO	No	3059	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	3059	3059	2 - 11 µrem/h	6.5 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 7	VOC	No	6152	4240	0 - 72 ppb	6.3 ppb	1000 ppb
	CO	No	3076	9	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	6152	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	3076	3076	17.5 - 40.9 %	21.5 %	<19.5 or >23 %
	SO_2	Yes	3076	1610	0 - 0.4 ppm	0.1 ppm	0.2 ppm
	Cl_2	No	3076	2345	0 - 0.4 ppm	0.1 ppm	0.5 ppm
	γ	No	3076	3076	2 - 6 µrem/h	5 µrem/h	12 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 8-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/23/21 7:00 AM** ***To:*** ***12/24/21 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3053	8	0 - 513 ppb	0.3 ppb	1000 ppb
	CO	No	3053	31	0 - 12 ppm	0 ppm	27 ppm
	H_2S	No	3053	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3053	3053	20 - 20.7 %	20.3 %	<19.5 or >23 %
	LEL	No	3053	0	0 - 0 %	0 %	10 %
	γ	No	3053	3053	3 - 16 µrem/h	3.9 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3039	1709	0 - 620 ppb	9 ppb	1000 ppb
	CO	No	3039	3	0 - 6 ppm	0 ppm	27 ppm
	H_2S	No	3039	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	525	525	10.2 - 30 %	21.7 %	<19.5 or >23 %
	LEL	No	3039	0	0 - 0 %	0 %	10 %
	NO	Yes	3039	1094	0 - 0.8 ppm	0.1 ppm	0.5 ppm
	γ	No	3039	3039	2 - 21 µrem/h	6.9 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3050	2162	0 - 66 ppb	27.1 ppb	1000 ppb
	CO	No	3050	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3050	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	538	538	17.3 - 22.5 %	20.7 %	<19.5 or >23 %
	SO_2	No	3050	230	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3050	1107	0 - 0.4 ppm	0 ppm	0.5 ppm
	γ	No	3050	3050	3 - 8 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	19548	120	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	4321	7	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 8-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 8-hr
HF	Hydrogen Flouride	AEGL-1, 8-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/24/21 7:00 AM** ***To:*** ***12/25/21 6:57 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3055	1	0 - 22 ppb	0 ppb	1000 ppb
	CO	No	3055	10	0 - 9 ppm	0 ppm	27 ppm
	H_2S	No	3055	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3055	3055	20 - 20.7 %	20.4 %	<19.5 or >23 %
	LEL	No	3055	0	0 - 0 %	0 %	10 %
	γ	No	3055	3055	2 - 4 µrem/h	3.4 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3047	1946	0 - 55 ppb	9.9 ppb	1000 ppb
	CO	No	3047	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3047	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3047	0	0 - 0 %	0 %	10 %
	NO	Yes	3047	2113	0 - 1.1 ppm	0.3 ppm	0.5 ppm
	γ	No	3047	3047	1 - 10 µrem/h	6.9 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3059	3059	16 - 133 ppb	45 ppb	1000 ppb
	CO	No	3059	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3059	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3059	194	0 - 0.2 ppm	0 ppm	0.2 ppm
	Cl_2	No	3059	527	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	3059	3059	4 - 12 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	26350	51	0 - 0.2 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	2189	175	0 - 0.3 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 8-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 8-hr
HF	Hydrogen Flouride	AEGL-1, 8-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/25/21 7:00 AM** ***To:*** ***12/26/21 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3041	1	0 - 3 ppb	0 ppb	1000 ppb
	CO	No	3041	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3041	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3041	3041	20.4 - 20.6 %	20.5 %	<19.5 or >23 %
	LEL	No	3041	0	0 - 0 %	0 %	10 %
	γ	No	3041	3041	2 - 9 µrem/h	3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	Yes	3035	1922	0 - 1802 ppb	8 ppb	1000 ppb
	CO	No	3035	1	0 - 12 ppm	0 ppm	27 ppm
	H_2S	No	3035	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3035	0	0 - 0 %	0 %	10 %
	NO	Yes	3035	3021	0 - 1.7 ppm	0.9 ppm	0.5 ppm
	γ	No	3035	3035	2 - 14 µrem/h	6.9 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3049	3049	9 - 145 ppb	28.4 ppb	1000 ppb
	CO	No	3049	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3049	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3049	199	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3049	2	0 - 0.1 ppm	0 ppm	0.5 ppm
	γ	No	3049	3049	4 - 12 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	25577	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	13013	72	0 - 0.1 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 8-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 8-hr
HF	Hydrogen Flouride	AEGL-1, 8-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/26/21 7:00 AM** ***To:*** ***12/27/21 6:58 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2935	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2935	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2935	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2935	2935	20.4 - 20.7 %	20.5 %	<19.5 or >23 %
	LEL	No	580	0	0 - 0 %	0 %	10 %
	γ	No	2935	2935	1 - 4 µrem/h	3.2 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2930	2103	0 - 445 ppb	20.2 ppb	1000 ppb
	CO	No	2930	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2930	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2930	0	0 - 0 %	0 %	10 %
	NO	Yes	2930	2876	0 - 1.8 ppm	0.7 ppm	0.5 ppm
	γ	No	2930	2930	1 - 22 µrem/h	6.9 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2909	1958	0 - 65 ppb	19.4 ppb	1000 ppb
	CO	No	2909	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2909	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2909	194	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	2863	4	0 - 0.1 ppm	0 ppm	0.5 ppm
	γ	No	2909	2909	1 - 18 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	4577	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	1324	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 8-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 8-hr
HF	Hydrogen Flouride	AEGL-1, 8-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/27/21 7:00 AM** ***To:*** ***12/28/21 6:58 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3011	1	0 - 11 ppb	0 ppb	1000 ppb
	CO	No	3011	4	0 - 25 ppm	0 ppm	27 ppm
	H_2S	No	3011	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3011	3011	20.4 - 20.6 %	20.5 %	<19.5 or >23 %
	LEL	No	2557	0	0 - 0 %	0 %	10 %
	γ	No	3011	3011	2 - 4 µrem/h	3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3040	1478	0 - 37 ppb	5.3 ppb	1000 ppb
	CO	No	3040	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3040	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3040	0	0 - 0 %	0 %	10 %
	NO	Yes	3040	3040	0.1 - 2.7 ppm	1.2 ppm	0.5 ppm
	γ	No	3040	3040	2 - 21 µrem/h	6.8 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2993	80	0 - 33 ppb	0.2 ppb	1000 ppb
	CO	No	2993	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2993	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2993	9	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	2993	7	0 - 0.5 ppm	0 ppm	0.5 ppm
	γ	No	2993	2993	4 - 18 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	20055	26	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	1457	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 8-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 8-hr
HF	Hydrogen Flouride	AEGL-1, 8-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/28/21 7:00 AM** ***To:*** ***12/29/21 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3051	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3051	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3051	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3051	3051	20.5 - 20.6 %	20.5 %	<19.5 or >23 %
	LEL	No	3051	0	0 - 0 %	0 %	10 %
	γ	No	3051	3051	2 - 4 µrem/h	3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3056	1425	0 - 52 ppb	5.4 ppb	1000 ppb
	CO	No	3056	5	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	3056	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3056	0	0 - 0 %	0 %	10 %
	NO	Yes	3056	3056	0.3 - 2.5 ppm	1.3 ppm	0.5 ppm
	γ	No	3056	3056	1 - 18 µrem/h	6.7 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3048	19	0 - 13 ppb	0 ppb	1000 ppb
	CO	No	3048	206	0 - 18 ppm	0.3 ppm	27 ppm
	H_2S	No	3048	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3048	4	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3048	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	3048	3048	2 - 8 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	26446	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	402	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/29/21 7:00 AM** ***To:*** ***12/30/21 6:58 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3041	983	0 - 25 ppb	1.8 ppb	1000 ppb
	CO	No	3041	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3041	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3041	3041	20.5 - 20.9 %	20.8 %	<19.5 or >23 %
	LEL	No	3041	1	0 - 2 %	0 %	10 %
	γ	No	3041	3041	2 - 4 µrem/h	2.9 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3056	805	0 - 241 ppb	1 ppb	1000 ppb
	CO	No	3056	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3056	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3056	0	0 - 0 %	0 %	10 %
	NO	Yes	3056	3056	0.4 - 2.5 ppm	1.3 ppm	0.5 ppm
	γ	No	3056	3056	2 - 11 µrem/h	6.8 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3029	2	0 - 33 ppb	0 ppb	1000 ppb
	CO	No	3029	60	0 - 18 ppm	0.1 ppm	27 ppm
	H_2S	No	3029	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3029	19	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3029	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	3029	3029	4 - 9 µrem/h	5.2 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	19543	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	16	8	0 - 0.5 ppm	0.1 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/30/21 7:00 AM** ***To:*** ***12/31/21 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3080	2919	0 - 91 ppb	15.1 ppb	1000 ppb
	CO	No	3080	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3080	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3080	3080	20.9 - 20.9 %	20.9 %	<19.5 or >23 %
	LEL	No	3080	0	0 - 0 %	0 %	10 %
	γ	No	3080	3080	2 - 4 µrem/h	3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3071	933	0 - 302 ppb	2.5 ppb	1000 ppb
	CO	No	3071	2	0 - 5 ppm	0 ppm	27 ppm
	H_2S	No	3071	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3071	0	0 - 0 %	0 %	10 %
	NO	Yes	3071	3062	0 - 1.3 ppm	0.8 ppm	0.5 ppm
	γ	No	3071	3071	1 - 11 µrem/h	7 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3085	165	0 - 186 ppb	0.6 ppb	1000 ppb
	CO	No	3085	2	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	3085	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3085	37	0 - 0.2 ppm	0 ppm	0.2 ppm
	Cl_2	No	3085	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	3085	3085	3 - 10 µrem/h	5.3 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	21843	21	0 - 0.1 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	6836	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/31/21 7:00 AM** ***To:*** ***1/1/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3041	336	0 - 59 ppb	3.5 ppb	1000 ppb
	CO	No	3041	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3041	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3041	3041	20.9 - 20.9 %	20.9 %	<19.5 or >23 %
	LEL	No	3041	0	0 - 0 %	0 %	10 %
	γ	No	3041	3041	2 - 3 µrem/h	3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3055	1458	0 - 491 ppb	9.9 ppb	1000 ppb
	CO	No	3055	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3055	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3055	0	0 - 0 %	0 %	10 %
	NO	Yes	3055	3050	0 - 1.6 ppm	1 ppm	0.5 ppm
	γ	No	3055	3055	1 - 10 µrem/h	6.5 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3046	86	0 - 275 ppb	1.7 ppb	1000 ppb
	CO	No	3046	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3046	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3046	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3046	1	0 - 0.1 ppm	0 ppm	0.5 ppm
	γ	No	3046	3046	4 - 8 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	26248	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	15527	344	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/1/22 7:00 AM** ***To:*** ***1/2/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3059	2	0 - 75 ppb	0 ppb	1000 ppb
	CO	No	3059	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3059	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3059	3059	20.9 - 21.3 %	21.1 %	<19.5 or >23 %
	LEL	No	1239	0	0 - 0 %	0 %	10 %
	γ	No	3059	3059	2 - 14 µrem/h	2.6 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	Yes	3053	1825	0 - 18242 ppb	17.6 ppb	1000 ppb
	CO	Yes	3053	7	0 - 57 ppm	0.1 ppm	27 ppm
	H_2S	No	3053	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3053	0	0 - 0 %	0 %	10 %
	NO	Yes	3053	3053	0.6 - 3.5 ppm	1.7 ppm	0.5 ppm
	γ	No	3053	3053	1 - 11 µrem/h	6.3 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3054	2	0 - 61 ppb	0 ppb	1000 ppb
	CO	No	3054	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3054	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3054	2	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3054	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	3054	3054	5 - 6 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	26294	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	15910	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/2/22 7:00 AM** ***To:*** ***1/3/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3057	1174	0 - 44 ppb	8.3 ppb	1000 ppb
	CO	No	3057	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3057	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3057	3057	20.5 - 20.9 %	20.9 %	<19.5 or >23 %
	γ	No	3057	3057	2 - 6 µrem/h	3.4 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3053	713	0 - 129 ppb	3.5 ppb	1000 ppb
	CO	No	3053	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3053	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3053	0	0 - 0 %	0 %	10 %
	NO	Yes	3053	707	0 - 1.7 ppm	0.2 ppm	0.5 ppm
	γ	No	3053	3053	3 - 11 µrem/h	7.1 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3054	475	0 - 11 ppb	0.6 ppb	1000 ppb
	CO	No	3054	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3054	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3054	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	3054	899	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3054	3054	1 - 10 µrem/h	5.4 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	331	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	20824	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/3/22 7:00 AM** ***To:*** ***1/4/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3027	2341	0 - 128 ppb	19.8 ppb	1000 ppb
	CO	No	3027	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3027	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3027	3027	20.4 - 20.9 %	20.7 %	<19.5 or >23 %
	γ	No	3027	3027	1 - 4 µrem/h	3.6 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3022	451	0 - 16 ppb	0.4 ppb	1000 ppb
	CO	No	3022	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3022	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3022	0	0 - 0 %	0 %	10 %
	NO	Yes	3022	268	0 - 0.8 ppm	0 ppm	0.5 ppm
	γ	No	3022	3022	1 - 21 µrem/h	6.4 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3016	112	0 - 9 ppb	0.1 ppb	1000 ppb
	CO	No	3016	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3016	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3016	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	3016	1947	0 - 0.7 ppm	0.1 ppm	0.5 ppm
	γ	No	3016	3016	3 - 9 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	45	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	11993	0	0 - 0 ppm	0 ppm	1 ppm
SPM Flex 6	HCl	No	1087	0	0 - 0 ppm	0 ppm	1.8 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/4/22 7:00 AM** ***To:*** ***1/5/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3053	2000	0 - 125 ppb	9.9 ppb	1000 ppb
	CO	No	3053	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3053	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3053	3053	20.4 - 21.3 %	20.9 %	<19.5 or >23 %
	γ	No	3053	3053	2 - 4 µrem/h	3.6 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3049	214	0 - 20 ppb	0.1 ppb	1000 ppb
	CO	No	3049	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3049	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3049	0	0 - 0 %	0 %	10 %
	NO	No	3049	2	0 - 0.1 ppm	0 ppm	0.5 ppm
	γ	No	3049	3049	1 - 18 µrem/h	6.3 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3063	1	0 - 5 ppb	0 ppb	1000 ppb
	CO	No	3063	2	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	3063	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3063	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3063	604	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	3063	3063	4 - 7 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1515	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	3918	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/5/22 7:00 AM** ***To:*** ***1/6/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3041	1884	0 - 427 ppb	12 ppb	1000 ppb
	CO	No	3041	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3041	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3041	3041	20.9 - 21.4 %	21 %	<19.5 or >23 %
	γ	No	3041	3041	2 - 4 µrem/h	3.5 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3039	2954	0 - 58 ppb	15.7 ppb	1000 ppb
	CO	No	3039	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3039	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3039	0	0 - 0 %	0 %	10 %
	NO	Yes	3039	835	0 - 0.7 ppm	0.1 ppm	0.5 ppm
	γ	No	3039	3039	2 - 17 µrem/h	5.4 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3030	7	0 - 21 ppb	0 ppb	1000 ppb
	CO	No	3030	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3030	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3030	35	0 - 0.3 ppm	0 ppm	0.2 ppm
	Cl_2	No	3030	79	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3030	3030	4 - 6 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1507	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	14899	318	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/6/22 7:00 AM** ***To:*** ***1/7/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3071	2301	0 - 129 ppb	14 ppb	1000 ppb
	CO	No	3071	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3071	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3071	3071	20.3 - 20.9 %	20.8 %	<19.5 or >23 %
	γ	No	3071	3071	2 - 7 µrem/h	3.6 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3058	2041	0 - 47 ppb	6.2 ppb	1000 ppb
	CO	No	3058	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3058	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3058	0	0 - 0 %	0 %	10 %
	NO	Yes	3058	899	0 - 0.5 ppm	0.1 ppm	0.5 ppm
	γ	No	3058	3058	3 - 8 µrem/h	5.1 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3074	9	0 - 25 ppb	0 ppb	1000 ppb
	CO	No	3074	2	0 - 2 ppm	0 ppm	27 ppm
	H_2S	No	3074	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3074	10	0 - 0.3 ppm	0 ppm	0.2 ppm
	Cl_2	No	3074	503	0 - 0.4 ppm	0 ppm	0.5 ppm
	γ	No	3074	3074	3 - 6 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1510	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	14439	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/7/22 7:00 AM** ***To:*** ***1/8/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3065	1784	0 - 117 ppb	5.9 ppb	1000 ppb
	CO	No	3065	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3065	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3065	3065	20.1 - 21.3 %	20.7 %	<19.5 or >23 %
	γ	No	3065	3065	2 - 7 µrem/h	3.7 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3056	9	0 - 165 ppb	0.1 ppb	1000 ppb
	CO	No	3056	4	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	3056	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3056	0	0 - 0 %	0 %	10 %
	NO	No	3056	158	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3056	3056	4 - 6 µrem/h	5 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3042	1	0 - 13 ppb	0 ppb	1000 ppb
	CO	No	3042	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3042	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3042	3	0 - 0.4 ppm	0 ppm	0.2 ppm
	Cl_2	No	3042	765	0 - 0.4 ppm	0 ppm	0.5 ppm
	γ	No	3042	3042	4 - 5 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1505	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	19248	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/8/22 7:00 AM** ***To:*** ***1/9/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3061	1728	0 - 123 ppb	5.2 ppb	1000 ppb
	CO	No	3061	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3061	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3061	3061	20.4 - 21.4 %	20.9 %	<19.5 or >23 %
	γ	No	3061	3061	2 - 4 µrem/h	3.5 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3051	2073	0 - 23 ppb	8.9 ppb	1000 ppb
	CO	No	3051	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3051	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3051	0	0 - 0 %	0 %	10 %
	NO	Yes	3051	523	0 - 0.9 ppm	0.1 ppm	0.5 ppm
	γ	No	3051	3051	3 - 6 µrem/h	5 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3071	2	0 - 526 ppb	0.2 ppb	1000 ppb
	CO	No	3071	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3071	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3071	3	0 - 0.6 ppm	0 ppm	0.2 ppm
	Cl_2	No	3071	200	0 - 0.4 ppm	0 ppm	0.5 ppm
	γ	No	3071	3071	3 - 7 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1494	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	9760	223	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/9/22 7:00 AM** ***To:*** ***1/10/22 7:00 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3071	2020	0 - 249 ppb	7.4 ppb	1000 ppb
	CO	No	3071	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3071	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3071	3071	20.9 - 20.9 %	20.9 %	<19.5 or >23 %
	γ	No	3071	3071	2 - 6 µrem/h	3.3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3068	3018	0 - 62 ppb	17.6 ppb	1000 ppb
	CO	No	3068	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3068	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3068	0	0 - 0 %	0 %	10 %
	NO	Yes	3068	1160	0 - 0.7 ppm	0.1 ppm	0.5 ppm
	γ	No	3068	3068	1 - 7 µrem/h	5.1 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3078	1	0 - 5 ppb	0 ppb	1000 ppb
	CO	No	3078	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3078	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3078	23	0 - 0.3 ppm	0 ppm	0.2 ppm
	Cl_2	No	3078	73	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3078	3078	2 - 6 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1493	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	21815	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/10/22 7:00 AM** ***To:*** ***1/11/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2983	1005	0 - 141 ppb	2.4 ppb	1000 ppb
	CO	No	2983	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2983	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2983	2983	20.7 - 21.6 %	21 %	<19.5 or >23 %
	γ	No	2983	2983	2 - 4 µrem/h	3.1 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2995	790	0 - 62 ppb	1.6 ppb	1000 ppb
	CO	No	2995	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2995	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2995	0	0 - 0 %	0 %	10 %
	NO	Yes	2995	647	0 - 1.5 ppm	0.1 ppm	0.5 ppm
	γ	No	2995	2995	2 - 6 µrem/h	4.4 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2961	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2961	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2961	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2961	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	2961	192	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	2961	2961	4 - 8 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1510	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	4249	7	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/11/22 7:00 AM** ***To:*** ***1/12/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3050	1765	0 - 78 ppb	11.2 ppb	1000 ppb
	CO	No	3050	1	0 - 3 ppm	0 ppm	27 ppm
	H_2S	No	3050	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3050	3050	20.5 - 21.5 %	20.9 %	<19.5 or >23 %
	γ	No	3050	3050	2 - 4 µrem/h	3.1 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3054	2551	0 - 50 ppb	13.8 ppb	1000 ppb
	CO	No	3054	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3054	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3054	0	0 - 0 %	0 %	10 %
	NO	Yes	3054	574	0 - 1.4 ppm	0.1 ppm	0.5 ppm
	γ	No	3054	3054	4 - 10 µrem/h	4.9 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3049	1	0 - 37 ppb	0 ppb	1000 ppb
	CO	No	3049	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3049	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3049	1	0 - 0.2 ppm	0 ppm	0.2 ppm
	Cl_2	No	3049	180	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	3049	3049	3 - 6 µrem/h	4.9 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1502	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27317	1862	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/12/22 7:00 AM** ***To:*** ***1/13/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3047	1912	0 - 164 ppb	14.5 ppb	1000 ppb
	CO	No	3047	7	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	3047	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3047	3047	20.4 - 21.5 %	21 %	<19.5 or >23 %
	γ	No	3047	3047	2 - 6 µrem/h	3.5 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3038	2664	0 - 49 ppb	22.9 ppb	1000 ppb
	CO	No	3038	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3038	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3038	0	0 - 0 %	0 %	10 %
	NO	Yes	3038	770	0 - 1.5 ppm	0.1 ppm	0.5 ppm
	γ	No	3038	3038	4 - 7 µrem/h	5 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3043	1	0 - 1 ppb	0 ppb	1000 ppb
	CO	No	3043	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3043	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3043	2	0 - 0.3 ppm	0 ppm	0.2 ppm
	Cl_2	No	3043	140	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	3043	3043	3 - 17 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1514	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27457	8	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/13/22 7:00 AM** ***To:*** ***1/14/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3025	1740	0 - 76 ppb	10.6 ppb	1000 ppb
	CO	No	3025	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3025	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3025	3025	20.5 - 21.3 %	20.9 %	<19.5 or >23 %
	γ	No	3025	3025	1 - 4 µrem/h	3.4 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3025	3025	14 - 81 ppb	35.1 ppb	1000 ppb
	CO	No	3025	17	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	3025	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3025	0	0 - 0 %	0 %	10 %
	NO	Yes	3025	1023	0 - 1.4 ppm	0.2 ppm	0.5 ppm
	γ	No	3025	3025	5 - 11 µrem/h	5 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3028	5	0 - 32 ppb	0 ppb	1000 ppb
	CO	No	3028	10	0 - 5 ppm	0 ppm	27 ppm
	H_2S	No	3028	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3028	3	0 - 0.3 ppm	0 ppm	0.2 ppm
	Cl_2	No	3028	98	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	3028	3028	4 - 9 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1495	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	17084	233	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/14/22 7:00 AM** ***To:*** ***1/15/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2052	1703	0 - 39 ppb	21.4 ppb	1000 ppb
	CO	No	2052	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2052	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2052	2052	20.9 - 21.5 %	21 %	<19.5 or >23 %
	γ	No	2052	2052	2 - 4 µrem/h	3.6 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2051	2051	12 - 59 ppb	32.4 ppb	1000 ppb
	CO	No	2051	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2051	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2051	0	0 - 0 %	0 %	10 %
	NO	No	2051	180	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	2051	2051	5 - 14 µrem/h	5 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2057	661	0 - 11 ppb	1.3 ppb	1000 ppb
	CO	No	2057	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2057	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2057	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	2057	30	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	2057	2057	4 - 5 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1505	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	3559	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/15/22 7:00 AM** ***To:*** ***1/16/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3062	3052	0 - 203 ppb	20.8 ppb	1000 ppb
	CO	No	3062	1	0 - 2 ppm	0 ppm	27 ppm
	H_2S	No	3062	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3062	3062	20.5 - 20.9 %	20.9 %	<19.5 or >23 %
	γ	No	3062	3062	1 - 4 µrem/h	3.5 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3059	3059	5 - 38 ppb	23.8 ppb	1000 ppb
	CO	No	3059	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3059	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3059	0	0 - 0 %	0 %	10 %
	NO	No	3059	56	0 - 0.1 ppm	0 ppm	0.5 ppm
	γ	No	3059	3059	2 - 15 µrem/h	5.2 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3033	959	0 - 26 ppb	4 ppb	1000 ppb
	CO	No	3033	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3033	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3033	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3033	94	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	3033	3033	3 - 12 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1509	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	12583	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/16/22 7:00 AM** ***To:*** ***1/17/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3031	3031	7 - 47 ppb	26.6 ppb	1000 ppb
	CO	No	3031	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3031	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3031	3031	20.4 - 20.5 %	20.4 %	<19.5 or >23 %
	γ	No	3031	3031	1 - 6 µrem/h	3.5 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3031	3031	1 - 23 ppb	14.7 ppb	1000 ppb
	CO	No	3031	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3031	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3031	0	0 - 0 %	0 %	10 %
	NO	No	3031	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	3031	3031	1 - 8 µrem/h	5.3 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3028	2905	0 - 27 ppb	10.4 ppb	1000 ppb
	CO	No	3028	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3028	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3028	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	3028	126	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3028	3028	2 - 6 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1407	0	0 - 0 ppm	0 ppm	1.8 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/17/22 7:00 AM** ***To:*** ***1/18/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3049	1508	0 - 147 ppb	3.7 ppb	1000 ppb
	CO	No	3049	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3049	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3049	3049	20.4 - 20.6 %	20.5 %	<19.5 or >23 %
	γ	No	3049	3049	2 - 4 µrem/h	2.2 µrem/h	6 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3052	391	0 - 49 ppb	0.8 ppb	1000 ppb
	CO	No	3052	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3052	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3052	0	0 - 0 %	0 %	10 %
	NO	No	3052	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	3052	3052	4 - 17 µrem/h	5 µrem/h	6 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3028	399	0 - 8 ppb	0.3 ppb	1000 ppb
	CO	No	3028	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3028	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3028	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	3028	556	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3028	3028	4 - 5 µrem/h	4.8 µrem/h	6 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1499	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	26560	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/18/22 7:00 AM** ***To:*** ***1/19/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3038	1592	0 - 28 ppb	7.7 ppb	1000 ppb
	CO	No	3038	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3038	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3038	3038	20.4 - 21.5 %	20.9 %	<19.5 or >23 %
	γ	No	3038	3038	1 - 10 µrem/h	2.9 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3038	1369	0 - 65 ppb	7.9 ppb	1000 ppb
	CO	No	3038	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3038	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3038	0	0 - 0 %	0 %	10 %
	NO	Yes	3038	658	0 - 1.7 ppm	0.1 ppm	0.5 ppm
	γ	No	3038	3038	3 - 10 µrem/h	5 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3025	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3025	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3025	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3025	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	3025	431	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3025	3025	3 - 6 µrem/h	4.9 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1519	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	14500	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/19/22 7:00 AM** ***To:*** ***1/20/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3050	816	0 - 27 ppb	2.9 ppb	1000 ppb
	CO	No	3050	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3050	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3050	3050	20.5 - 21.5 %	21 %	<19.5 or >23 %
	γ	No	3050	3050	2 - 4 µrem/h	3.1 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3059	2340	0 - 99 ppb	31.9 ppb	1000 ppb
	CO	No	3059	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3059	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3059	0	0 - 0 %	0 %	10 %
	NO	Yes	3059	1133	0 - 2.3 ppm	0.3 ppm	0.5 ppm
	γ	No	3059	3059	3 - 6 µrem/h	4.9 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3048	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3048	11	0 - 8 ppm	0 ppm	27 ppm
	H_2S	No	3048	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3048	2	0 - 0.2 ppm	0 ppm	0.2 ppm
	Cl_2	No	3048	18	0 - 0.1 ppm	0 ppm	0.5 ppm
	γ	No	3048	3048	4 - 6 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1496	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27252	42	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/20/22 7:00 AM** ***To:*** ***1/21/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3041	3019	0 - 33 ppb	12.5 ppb	1000 ppb
	CO	No	3041	1	0 - 2 ppm	0 ppm	27 ppm
	H_2S	No	3041	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3041	3041	20.5 - 20.9 %	20.9 %	<19.5 or >23 %
	γ	No	3041	3041	2 - 5 µrem/h	3.5 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3026	3019	0 - 113 ppb	41 ppb	1000 ppb
	CO	No	3026	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3026	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3026	0	0 - 0 %	0 %	10 %
	NO	No	3026	7	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3026	3026	3 - 7 µrem/h	5 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3016	1755	0 - 49 ppb	24.3 ppb	1000 ppb
	CO	No	3016	1	0 - 2 ppm	0 ppm	27 ppm
	H_2S	No	3016	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3016	1738	0 - 0.2 ppm	0.1 ppm	0.2 ppm
	Cl_2	No	3016	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	3016	3016	4 - 6 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1514	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	12542	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/21/22 7:00 AM** ***To:*** ***1/22/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	Yes	3044	676	0 - 2411 ppb	13.3 ppb	1000 ppb
	CO	Yes	3044	41	0 - 50 ppm	0.1 ppm	27 ppm
	H_2S	Yes	3044	4	0 - 11.1 ppm	0 ppm	0.33 ppm
	O_2	Yes	3044	3042	0 - 22.1 %	20.9 %	<19.5 or >23 %
	γ	No	3044	3044	2 - 4 µrem/h	2.2 µrem/h	6 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2996	579	0 - 980 ppb	4.3 ppb	1000 ppb
	CO	Yes	2996	6	0 - 50 ppm	0 ppm	27 ppm
	H_2S	Yes	2996	4	0 - 10.1 ppm	0 ppm	0.33 ppm
	LEL	Yes	2996	5	0 - 50 %	0 %	10 %
	NO	Yes	2996	181	0 - 1.4 ppm	0 ppm	0.5 ppm
	γ	No	2996	2996	4 - 17 µrem/h	5 µrem/h	6 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2965	389	0 - 313 ppb	5.3 ppb	1000 ppb
	CO	Yes	2965	11	0 - 50 ppm	0.1 ppm	27 ppm
	H_2S	Yes	2965	14	0 - 11.7 ppm	0 ppm	0.33 ppm
	SO_2	Yes	2965	274	0 - 8 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	2965	2369	0 - 10.1 ppm	0.1 ppm	0.5 ppm
	γ	No	2965	2965	3 - 6 µrem/h	4.9 µrem/h	6 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	2524	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	4395	46	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/22/22 7:00 AM** ***To:*** ***1/23/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3062	17	0 - 226 ppb	0.1 ppb	1000 ppb
	CO	No	3062	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3062	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3062	3062	20.9 - 21.7 %	21.1 %	<19.5 or >23 %
	γ	No	3062	3062	1 - 4 µrem/h	3.1 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2825	21	0 - 607 ppb	0.5 ppb	1000 ppb
	CO	No	2825	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2825	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2825	0	0 - 0 %	0 %	10 %
	NO	No	2825	152	0 - 0.4 ppm	0 ppm	0.5 ppm
	γ	No	2825	2825	4 - 7 µrem/h	5 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2810	1	0 - 28 ppb	0 ppb	1000 ppb
	CO	No	2810	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2810	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2810	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	2810	2676	0 - 0.3 ppm	0.2 ppm	0.5 ppm
	γ	No	2810	2810	4 - 17 µrem/h	4.9 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	25926	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	11770	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/23/22 7:00 AM** ***To:*** ***1/24/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3065	8	0 - 209 ppb	0.1 ppb	1000 ppb
	CO	No	3065	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3065	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3065	3065	20.9 - 21.7 %	21.2 %	<19.5 or >23 %
	γ	No	3065	3065	2 - 5 µrem/h	3.4 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	Yes	3061	7	0 - 1568 ppb	0.8 ppb	1000 ppb
	CO	No	3061	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3061	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3061	0	0 - 0 %	0 %	10 %
	NO	Yes	3061	145	0 - 0.9 ppm	0 ppm	0.5 ppm
	γ	No	3061	3061	4 - 8 µrem/h	5 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3052	3	0 - 164 ppb	0.1 ppb	1000 ppb
	CO	No	3052	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3052	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3052	2	0 - 0.2 ppm	0 ppm	0.2 ppm
	Cl_2	No	3052	2136	0 - 0.3 ppm	0.1 ppm	0.5 ppm
	γ	No	3052	3052	4 - 12 µrem/h	4.9 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	26566	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	14030	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/24/22 7:00 AM** ***To:*** ***1/25/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3048	207	0 - 422 ppb	1.2 ppb	1000 ppb
	CO	No	3048	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3048	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3048	3048	20.9 - 21.8 %	21.4 %	<19.5 or >23 %
	γ	No	3048	3048	2 - 4 µrem/h	3.3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3039	2090	0 - 598 ppb	39.6 ppb	1000 ppb
	CO	No	3039	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3039	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3039	0	0 - 0 %	0 %	10 %
	NO	Yes	3039	269	0 - 2.7 ppm	0.1 ppm	0.5 ppm
	γ	No	3039	3039	4 - 17 µrem/h	4.9 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3037	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3037	3	0 - 7 ppm	0 ppm	27 ppm
	H_2S	No	3037	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3037	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	3037	667	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3037	3037	4 - 5 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	26564	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	15690	102	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/25/22 7:00 AM** ***To:*** ***1/26/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3039	139	0 - 427 ppb	0.5 ppb	1000 ppb
	CO	No	3039	1	0 - 6 ppm	0 ppm	27 ppm
	H_2S	No	3039	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3039	3039	21.1 - 21.7 %	21.4 %	<19.5 or >23 %
	γ	No	3039	3039	2 - 15 µrem/h	3.1 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3056	2714	0 - 358 ppb	48.7 ppb	1000 ppb
	CO	No	3056	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3056	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3056	0	0 - 0 %	0 %	10 %
	NO	Yes	3056	371	0 - 1.8 ppm	0.1 ppm	0.5 ppm
	γ	No	3056	3056	2 - 8 µrem/h	4.9 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3036	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3036	9	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	3036	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3036	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3036	455	0 - 0.1 ppm	0 ppm	0.5 ppm
	γ	No	3036	3036	2 - 14 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	26561	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	16461	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/26/22 7:00 AM** ***To:*** ***1/27/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3074	176	0 - 334 ppb	0.5 ppb	1000 ppb
	CO	No	3074	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3074	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3074	3074	20.9 - 21.8 %	21.3 %	<19.5 or >23 %
	γ	No	3074	3074	2 - 4 µrem/h	3.5 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3073	413	0 - 501 ppb	1.1 ppb	1000 ppb
	CO	No	3073	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3073	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3073	0	0 - 0 %	0 %	10 %
	NO	Yes	3073	209	0 - 1.4 ppm	0.1 ppm	0.5 ppm
	γ	No	3073	3073	4 - 8 µrem/h	5 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2121	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2121	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2121	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2121	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	2121	1139	0 - 0.2 ppm	0.1 ppm	0.5 ppm
	γ	No	2121	2121	2 - 5 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	16954	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	8034	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/27/22 7:00 AM** ***To:*** ***1/28/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3056	343	0 - 253 ppb	0.7 ppb	1000 ppb
	CO	No	3056	1	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	3056	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3056	3056	21.1 - 21.7 %	21.4 %	<19.5 or >23 %
	γ	No	3056	3056	2 - 4 µrem/h	3.3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3047	1981	0 - 486 ppb	15.8 ppb	1000 ppb
	CO	No	3047	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3047	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3047	0	0 - 0 %	0 %	10 %
	NO	Yes	3047	183	0 - 1.1 ppm	0 ppm	0.5 ppm
	γ	No	3047	3047	2 - 9 µrem/h	5 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3049	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3049	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3049	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3049	2	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3049	731	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3049	3049	3 - 5 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1183	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	25998	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/28/22 7:00 AM** ***To:*** ***1/29/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2926	274	0 - 204 ppb	0.5 ppb	1000 ppb
	CO	No	2926	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2926	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2926	2926	20.9 - 21.5 %	21.2 %	<19.5 or >23 %
	γ	No	2926	2926	2 - 5 µrem/h	3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2924	781	0 - 387 ppb	3.3 ppb	1000 ppb
	CO	No	2924	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2924	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2924	0	0 - 0 %	0 %	10 %
	NO	No	2924	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	2924	2924	4 - 6 µrem/h	5 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2930	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2930	46	0 - 11 ppm	0.1 ppm	27 ppm
	H_2S	No	2930	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2930	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	2930	1428	0 - 0.2 ppm	0.1 ppm	0.5 ppm
	γ	No	2930	2930	4 - 8 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1502	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	26235	13	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/29/22 7:00 AM** ***To:*** ***1/30/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3088	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3088	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3088	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3088	3088	20.9 - 21.6 %	21.1 %	<19.5 or >23 %
	γ	No	3088	3088	3 - 19 µrem/h	3.7 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3073	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3073	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3073	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3073	0	0 - 0 %	0 %	10 %
	NO	No	3073	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	3073	3073	4 - 8 µrem/h	5 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3105	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3105	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3105	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3105	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	3105	3105	0.1 - 0.3 ppm	0.2 ppm	0.5 ppm
	γ	No	3105	3105	3 - 9 µrem/h	4.7 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1507	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	26906	103	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/30/22 7:00 AM** ***To:*** ***1/31/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3069	456	0 - 77 ppb	0.8 ppb	1000 ppb
	CO	No	3069	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3069	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3069	3069	20.9 - 21.7 %	21.3 %	<19.5 or >23 %
	γ	No	3069	3069	2 - 5 µrem/h	3.8 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3065	2037	0 - 540 ppb	21.3 ppb	1000 ppb
	CO	No	3065	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3065	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3065	0	0 - 0 %	0 %	10 %
	NO	Yes	3065	184	0 - 1 ppm	0 ppm	0.5 ppm
	γ	No	3065	3065	4 - 12 µrem/h	5 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3051	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3051	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3051	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3051	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3051	717	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3051	3051	3 - 7 µrem/h	4.9 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1493	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27394	210	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/31/22 7:00 AM** ***To:*** **2/1/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3051	113	0 - 21 ppb	0.3 ppb	1000 ppb
	CO	No	3051	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3051	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3051	3051	20.9 - 21.6 %	21.3 %	<19.5 or >23 %
	γ	No	3051	3051	2 - 7 µrem/h	3.8 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3050	2279	0 - 71 ppb	15.9 ppb	1000 ppb
	CO	No	3050	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3050	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3050	0	0 - 0 %	0 %	10 %
	NO	No	3050	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	3050	3050	5 - 7 µrem/h	5 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3049	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3049	20	0 - 8 ppm	0 ppm	27 ppm
	H_2S	No	3049	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3049	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3049	186	0 - 0.1 ppm	0 ppm	0.5 ppm
	γ	No	3049	3049	4 - 7 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1492	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27303	746	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/1/22 7:00 AM** ***To:*** **2/2/22 7:00 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3048	240	0 - 146 ppb	0.4 ppb	1000 ppb
	CO	No	3048	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3048	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3048	3048	21.1 - 21.7 %	21.4 %	<19.5 or >23 %
	γ	No	3048	3048	2 - 4 µrem/h	3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3039	1264	0 - 91 ppb	13.7 ppb	1000 ppb
	CO	No	3039	2	0 - 4 ppm	0 ppm	27 ppm
	H_2S	Yes	3039	2	0 - 0.4 ppm	0 ppm	0.33 ppm
	LEL	No	3039	2	0 - 3 %	0 %	10 %
	NO	Yes	3039	354	0 - 3.1 ppm	0.2 ppm	0.5 ppm
	γ	No	3039	3039	2 - 11 µrem/h	5 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3032	6	0 - 60 ppb	0.1 ppb	1000 ppb
	CO	No	3032	139	0 - 14 ppm	0.2 ppm	27 ppm
	H_2S	No	3032	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3032	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3032	14	0 - 0.1 ppm	0 ppm	0.5 ppm
	γ	No	3032	3032	4 - 6 µrem/h	4.9 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1496	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27314	1	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/2/22 7:00 AM** ***To:*** **2/3/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3051	1103	0 - 34 ppb	4.2 ppb	1000 ppb
	CO	No	3051	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3051	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3051	3051	20.9 - 21.5 %	21.3 %	<19.5 or >23 %
	γ	No	3051	3051	2 - 4 µrem/h	2.7 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3061	486	0 - 30 ppb	1.8 ppb	1000 ppb
	CO	No	3061	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3061	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3061	0	0 - 0 %	0 %	10 %
	NO	No	3061	324	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	3061	3061	3 - 6 µrem/h	5 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3053	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3053	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3053	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3053	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	3053	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	3053	3053	3 - 7 µrem/h	4.9 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1495	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27322	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/3/22 7:00 AM** ***To:*** **2/4/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3043	81	0 - 165 ppb	0.2 ppb	1000 ppb
	CO	No	3043	1	0 - 5 ppm	0 ppm	27 ppm
	H_2S	No	3043	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3043	3043	21.3 - 21.5 %	21.4 %	<19.5 or >23 %
	γ	No	3043	3043	2 - 4 µrem/h	2.9 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3029	10	0 - 350 ppb	0.3 ppb	1000 ppb
	CO	No	3029	28	0 - 11 ppm	0 ppm	27 ppm
	H_2S	No	3029	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3029	0	0 - 0 %	0 %	10 %
	NO	Yes	3029	98	0 - 1.1 ppm	0 ppm	0.5 ppm
	γ	No	3029	3029	4 - 8 µrem/h	5.2 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3041	1	0 - 19 ppb	0 ppb	1000 ppb
	CO	No	3041	229	0 - 16 ppm	0.4 ppm	27 ppm
	H_2S	No	3041	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3041	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	3041	91	0 - 0.7 ppm	0 ppm	0.5 ppm
	γ	No	3041	3041	2 - 6 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1502	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27334	217	0 - 0.1 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/4/22 7:00 AM** ***To:*** **2/5/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3077	52	0 - 8 ppb	0 ppb	1000 ppb
	CO	No	3077	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3077	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3077	3077	20.9 - 21.5 %	21.2 %	<19.5 or >23 %
	γ	No	3077	3077	2 - 4 µrem/h	2.7 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3044	1	0 - 6 ppb	0 ppb	1000 ppb
	CO	No	3044	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3044	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3044	0	0 - 0 %	0 %	10 %
	NO	No	3044	11	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3044	3044	4 - 9 µrem/h	5 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3067	971	0 - 23 ppb	1.3 ppb	1000 ppb
	CO	No	3067	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3067	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3067	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	3067	2919	0 - 0.6 ppm	0.3 ppm	0.5 ppm
	γ	No	3067	3067	1 - 13 µrem/h	4.7 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1494	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27359	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/5/22 7:00 AM** ***To:*** **2/6/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3068	2	0 - 308 ppb	0.1 ppb	1000 ppb
	CO	No	3068	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3068	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3068	3068	20.9 - 21.6 %	21.1 %	<19.5 or >23 %
	γ	No	3068	3068	2 - 4 µrem/h	2.9 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3055	9	0 - 334 ppb	0.3 ppb	1000 ppb
	CO	No	3055	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3055	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3055	0	0 - 0 %	0 %	10 %
	NO	Yes	3055	514	0 - 2.4 ppm	0.2 ppm	0.5 ppm
	γ	No	3055	3055	4 - 17 µrem/h	4.9 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3056	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3056	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3056	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3056	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	3056	3056	0.2 - 0.6 ppm	0.4 ppm	0.5 ppm
	γ	No	3056	3056	3 - 5 µrem/h	4.4 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1512	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27214	856	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/6/22 7:00 AM** ***To:*** **2/7/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3056	1	0 - 17 ppb	0 ppb	1000 ppb
	CO	No	3056	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3056	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3056	3056	20.9 - 21.6 %	21.2 %	<19.5 or >23 %
	γ	No	3056	3056	2 - 4 µrem/h	2.7 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3045	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3045	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3045	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3045	0	0 - 0 %	0 %	10 %
	NO	Yes	3045	635	0 - 2.4 ppm	0.2 ppm	0.5 ppm
	γ	No	3045	3045	4 - 17 µrem/h	5 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3061	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3061	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3061	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3061	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	3061	3061	0.2 - 0.5 ppm	0.3 ppm	0.5 ppm
	γ	No	3061	3061	1 - 10 µrem/h	4.6 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1497	0	0 - 0 ppm	0 ppm	1.8 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/7/22 7:00 AM** ***To:*** **2/8/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3044	3	0 - 229 ppb	0.1 ppb	1000 ppb
	CO	No	3044	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3044	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3044	3044	21.1 - 21.4 %	21.3 %	<19.5 or >23 %
	γ	No	3044	3044	2 - 4 µrem/h	2.4 µrem/h	6 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3044	29	0 - 239 ppb	0.2 ppb	1000 ppb
	CO	No	3044	1	0 - 2 ppm	0 ppm	27 ppm
	H_2S	No	3044	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3044	0	0 - 0 %	0 %	10 %
	NO	Yes	3044	82	0 - 0.7 ppm	0 ppm	0.5 ppm
	γ	No	3044	3044	2 - 7 µrem/h	5 µrem/h	6 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3018	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3018	4	0 - 9 ppm	0 ppm	27 ppm
	H_2S	No	3018	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3018	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	3018	2989	0 - 0.4 ppm	0.2 ppm	0.5 ppm
	γ	No	3018	3018	4 - 10 µrem/h	4.8 µrem/h	6 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1479	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	23441	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/8/22 7:00 AM** ***To:*** **2/9/22 7:00 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3065	628	0 - 27 ppb	1.4 ppb	1000 ppb
	CO	No	3065	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3065	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3065	3065	20.9 - 21.8 %	21.3 %	<19.5 or >23 %
	γ	No	3065	3065	2 - 4 µrem/h	3.1 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3053	1	0 - 9 ppb	0 ppb	1000 ppb
	CO	No	3053	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3053	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3053	0	0 - 0 %	0 %	10 %
	NO	Yes	3053	712	0 - 3.2 ppm	0.3 ppm	0.5 ppm
	γ	No	3053	3053	4 - 17 µrem/h	5.1 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3062	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3062	1	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	3062	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3062	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	3062	2999	0 - 0.4 ppm	0.2 ppm	0.5 ppm
	γ	No	3062	3062	4 - 9 µrem/h	4.8 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1487	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27423	409	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/9/22 7:00 AM** ***To:*** **2/10/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3103	972	0 - 167 ppb	3.6 ppb	1000 ppb
	CO	No	3103	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3103	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3103	3103	20.9 - 21.8 %	21.3 %	<19.5 or >23 %
	γ	No	3103	3103	2 - 4 µrem/h	3.3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	Yes	3095	85	0 - 1300 ppb	1.2 ppb	1000 ppb
	CO	No	3095	1	0 - 5 ppm	0 ppm	27 ppm
	H_2S	No	3095	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3095	0	0 - 0 %	0 %	10 %
	NO	Yes	3095	787	0 - 3.5 ppm	0.4 ppm	0.5 ppm
	γ	No	3095	3095	2 - 12 µrem/h	5.3 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	1635	3	0 - 17 ppb	0 ppb	1000 ppb
	CO	No	1635	56	0 - 11 ppm	0.1 ppm	27 ppm
	H_2S	No	1635	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	1635	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	1635	1104	0 - 0.4 ppm	0.1 ppm	0.5 ppm
	γ	No	1635	1635	3 - 6 µrem/h	4.8 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1514	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27401	124	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/10/22 7:00 AM** ***To:*** **2/11/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3174	968	0 - 68 ppb	3.4 ppb	1000 ppb
	CO	No	3174	15	0 - 6 ppm	0 ppm	27 ppm
	H_2S	No	3174	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3174	3174	20.9 - 21.8 %	21.4 %	<19.5 or >23 %
	γ	No	3174	3174	2 - 5 µrem/h	3.4 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3170	401	0 - 27 ppb	0.9 ppb	1000 ppb
	CO	No	3170	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3170	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3170	0	0 - 0 %	0 %	10 %
	NO	Yes	3170	909	0 - 4 ppm	0.5 ppm	0.5 ppm
	γ	No	3170	3170	1 - 17 µrem/h	5.6 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	0	0	0 - 0 ppb	ppb	1000 ppb
	CO	No	0	0	0 - 0 ppm	ppm	27 ppm
	H_2S	No	0	0	0 - 0 ppm	ppm	0.33 ppm
	SO_2	No	0	0	0 - 0 ppm	ppm	0.2 ppm
	Cl_2	No	0	0	0 - 0 ppm	ppm	0.5 ppm
	γ	Yes	0	0	0 - 0 µrem/h	µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1504	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27330	787	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/11/22 7:00 AM** ***To:*** **2/12/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3161	1341	0 - 61 ppb	6.1 ppb	1000 ppb
	CO	No	3161	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3161	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3161	3161	20.9 - 21.8 %	21.4 %	<19.5 or >23 %
	γ	No	3161	3161	2 - 15 µrem/h	3.5 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3161	1995	0 - 135 ppb	23.4 ppb	1000 ppb
	CO	No	3161	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3161	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3161	0	0 - 0 %	0 %	10 %
	NO	Yes	3161	948	0 - 4.6 ppm	0.5 ppm	0.5 ppm
	γ	No	3161	3161	4 - 31 µrem/h	6.3 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1491	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27348	7	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/12/22 7:00 AM** ***To:*** **2/13/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3037	1355	0 - 44 ppb	3.9 ppb	1000 ppb
	CO	No	3037	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3037	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3037	3037	20.6 - 21.2 %	20.9 %	<19.5 or >23 %
	γ	No	3037	3037	2 - 12 µrem/h	3.9 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3077	2849	0 - 249 ppb	60.8 ppb	1000 ppb
	CO	No	3077	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3077	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3077	0	0 - 0 %	0 %	10 %
	NO	Yes	3077	933	0 - 8.7 ppm	0.7 ppm	0.5 ppm
	γ	No	3077	3077	2 - 14 µrem/h	5.1 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2538	9	0 - 4 ppb	0 ppb	1000 ppb
	CO	No	2538	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2538	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2538	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	2538	1968	0 - 1.1 ppm	0.2 ppm	0.5 ppm
	γ	No	2538	2538	1 - 5 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1498	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27379	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/13/22 7:00 AM** ***To:*** **2/14/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3041	779	0 - 57 ppb	2 ppb	1000 ppb
	CO	No	3041	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3041	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3041	3041	20.5 - 20.9 %	20.8 %	<19.5 or >23 %
	γ	No	3041	3041	2 - 5 µrem/h	3.3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3044	1379	0 - 141 ppb	11.8 ppb	1000 ppb
	CO	No	3044	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3044	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3044	0	0 - 0 %	0 %	10 %
	NO	Yes	3044	523	0 - 4.4 ppm	0.3 ppm	0.5 ppm
	γ	No	3044	3044	3 - 7 µrem/h	4.8 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3040	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3040	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3040	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3040	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	3040	3040	0.2 - 0.5 ppm	0.3 ppm	0.5 ppm
	γ	No	3040	3040	2 - 6 µrem/h	4.7 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1512	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27374	48	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/14/22 7:00 AM** ***To:*** **2/15/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3050	1124	0 - 104 ppb	9.1 ppb	1000 ppb
	CO	No	3050	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3050	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3050	3050	20.5 - 20.9 %	20.8 %	<19.5 or >23 %
	γ	No	3050	3050	2 - 6 µrem/h	3.5 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3043	2165	0 - 541 ppb	45.2 ppb	1000 ppb
	CO	No	3043	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3043	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3043	0	0 - 0 %	0 %	10 %
	NO	Yes	3043	630	0 - 5.8 ppm	0.4 ppm	0.5 ppm
	γ	No	3043	3043	4 - 12 µrem/h	4.8 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3043	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3043	47	0 - 14 ppm	0.1 ppm	27 ppm
	H_2S	No	3043	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3043	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	3043	3043	0.1 - 0.5 ppm	0.2 ppm	0.5 ppm
	γ	No	3043	3043	1 - 6 µrem/h	4.8 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1509	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27301	103	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/15/22 7:00 AM** ***To:*** **2/16/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3054	1118	0 - 59 ppb	4.2 ppb	1000 ppb
	CO	No	3054	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3054	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3054	3054	20.5 - 20.9 %	20.8 %	<19.5 or >23 %
	γ	No	3054	3054	2 - 6 µrem/h	3.2 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3067	2207	0 - 124 ppb	33.8 ppb	1000 ppb
	CO	No	3067	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3067	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3067	0	0 - 0 %	0 %	10 %
	NO	Yes	3067	785	0 - 5.4 ppm	0.4 ppm	0.5 ppm
	γ	No	3067	3067	4 - 14 µrem/h	5.1 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3066	1	0 - 1 ppb	0 ppb	1000 ppb
	CO	No	3066	13	0 - 6 ppm	0 ppm	27 ppm
	H_2S	No	3066	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3066	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	3066	2288	0 - 0.4 ppm	0.1 ppm	0.5 ppm
	γ	No	3066	3066	4 - 5 µrem/h	4.9 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1499	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27296	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/16/22 7:00 AM** ***To:*** **2/17/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	1651	515	0 - 226 ppb	6.3 ppb	1000 ppb
	CO	No	1651	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	1651	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	1651	1651	20.7 - 20.9 %	20.9 %	<19.5 or >23 %
	γ	No	1651	1651	2 - 4 µrem/h	2.6 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	1639	1639	15 - 242 ppb	98.4 ppb	1000 ppb
	CO	No	1639	3	0 - 5 ppm	0 ppm	27 ppm
	H_2S	No	1639	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	1639	0	0 - 0 %	0 %	10 %
	NO	Yes	1639	928	0 - 2.4 ppm	0.6 ppm	0.5 ppm
	γ	No	1639	1639	3 - 16 µrem/h	4.7 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	1650	2	0 - 1 ppb	0 ppb	1000 ppb
	CO	No	1650	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	1650	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	1650	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	1650	532	0 - 0.7 ppm	0 ppm	0.5 ppm
	γ	No	1650	1650	1 - 12 µrem/h	4.9 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1487	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	24725	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/17/22 7:00 AM** ***To:*** ***2/18/22 6:58 AM***

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1497	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27361	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/18/22 7:00 AM** ***To:*** **2/19/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	398	0	0 - 208 ppb	42.1 ppb	1000 ppb
	CO	No	398	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	398	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	398	398	20.5 - 20.9 %	20.8 %	<19.5 or >23 %
	γ	No	398	398	3 - 4 µrem/h	3.3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	404	0	17 - 169 ppb	83 ppb	1000 ppb
	CO	No	404	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	404	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	404	0	0 - 0 %	0 %	10 %
	NO	Yes	404	269	0 - 6.8 ppm	1.3 ppm	0.5 ppm
	γ	No	404	404	4 - 7 µrem/h	5 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	402	0	0 - 6 ppb	0.5 ppb	1000 ppb
	CO	No	402	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	402	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	402	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	402	402	0.2 - 0.4 ppm	0.3 ppm	0.5 ppm
	γ	No	402	402	4 - 8 µrem/h	4.7 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1362	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	Yes	19093	66	0 - 20 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/19/22 7:00 AM** ***To:*** **2/20/22 6:58 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	1881	0	0 - 41 ppb	8 ppb	1000 ppb
	CO	No	1881	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	1881	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	1881	1881	20.5 - 20.9 %	20.8 %	<19.5 or >23 %
	γ	No	1881	1881	2 - 6 µrem/h	3.4 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	1881	0	9 - 460 ppb	74 ppb	1000 ppb
	CO	No	1881	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	1881	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	1881	0	0 - 0 %	0 %	10 %
	NO	Yes	1881	304	0 - 9 ppm	0.3 ppm	0.5 ppm
	γ	No	1881	1881	4 - 21 µrem/h	5.2 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	1881	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	1881	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	1881	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	1881	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	1881	1881	0.1 - 0.5 ppm	0.2 ppm	0.5 ppm
	γ	No	1881	1881	4 - 9 µrem/h	4.7 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1493	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	Yes	9069	52	0 - 20 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/20/22 7:00 AM** ***To:*** **2/21/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2874	0	0 - 316 ppb	3.6 ppb	1000 ppb
	CO	No	2874	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2874	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2874	2874	20.5 - 20.9 %	20.8 %	<19.5 or >23 %
	γ	No	2874	2874	2 - 14 µrem/h	3.5 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	Yes	2870	0	0 - 1117 ppb	63.5 ppb	1000 ppb
	CO	No	2870	1	0 - 12 ppm	0 ppm	27 ppm
	H_2S	Yes	2870	0	0 - 1.1 ppm	0 ppm	0.33 ppm
	LEL	No	2870	1	0 - 6 %	0 %	10 %
	NO	Yes	2870	763	0 - 4.8 ppm	0.4 ppm	0.5 ppm
	γ	No	2870	2870	3 - 18 µrem/h	5.4 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2867	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2867	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2867	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2867	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	2867	2474	0 - 0.5 ppm	0.2 ppm	0.5 ppm
	γ	No	2867	2867	4 - 18 µrem/h	4.7 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	514	0	0 - 0 ppm	0 ppm	1.8 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/21/22 7:00 AM** ***To:*** **2/22/22 7:00 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2875	0	0 - 25 ppb	1.1 ppb	1000 ppb
	CO	No	2875	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2875	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2875	2875	20.9 - 20.9 %	20.9 %	<19.5 or >23 %
	γ	No	2875	2875	1 - 6 µrem/h	2.9 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2875	0	46 - 261 ppb	149.3 ppb	1000 ppb
	CO	No	2875	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2875	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2875	0	0 - 0 %	0 %	10 %
	NO	No	2875	327	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	2875	2875	3 - 6 µrem/h	5.1 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2875	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2875	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2875	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2875	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	2875	720	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	2875	2875	1 - 6 µrem/h	4.9 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1490	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	867	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/22/22 7:00 AM** ***To:*** **2/23/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2868	0	0 - 65 ppb	0 ppb	1000 ppb
	CO	No	2868	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2868	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2868	2868	20.7 - 20.9 %	20.9 %	<19.5 or >23 %
	γ	No	2868	2868	2 - 14 µrem/h	2.5 µrem/h	6 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2863	0	69 - 206 ppb	144.2 ppb	1000 ppb
	CO	No	2863	47	0 - 9 ppm	0.1 ppm	27 ppm
	H_2S	No	2863	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2863	0	0 - 0 %	0 %	10 %
	NO	Yes	2863	1029	0 - 0.9 ppm	0.2 ppm	0.5 ppm
	γ	No	2863	2863	4 - 6 µrem/h	5 µrem/h	6 µrem/h
SPM Flex 2	HCl	No	1495	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 3	HF	No	1479	0	0 - 0 ppm	0 ppm	1 ppm

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	2866	0	0 - 6 ppb	0 ppb	1000 ppb
	CO	Yes	2866	48	0 - 50 ppm	0.1 ppm	27 ppm
	H_2S	No	2866	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2866	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	2866	143	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	2866	2866	4 - 5 µrem/h	4.8 µrem/h	6 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/23/22 7:00 AM** ***To:*** **2/24/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	697	0	0 - 316 ppb	1.6 ppb	1000 ppb
	CO	Yes	697	8	0 - 50 ppm	0.3 ppm	27 ppm
	H_2S	No	624	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	697	697	18 - 20.9 %	20.6 %	<19.5 or >23 %
	γ	No	697	697	2 - 6 µrem/h	2.9 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	Yes	2857	0	23 - 1451 ppb	191.6 ppb	1000 ppb
	CO	No	2857	34	0 - 11 ppm	0 ppm	27 ppm
	H_2S	No	2857	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2857	0	0 - 0 %	0 %	10 %
	NO	Yes	2857	1434	0 - 8.9 ppm	0.8 ppm	0.5 ppm
	γ	No	2857	2857	3 - 28 µrem/h	5.6 µrem/h	9 µrem/h
SPM Flex 2	HCl	No	1495	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 3	HF	No	1504	0	0 - 0 ppm	0 ppm	1 ppm

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	2848	0	0 - 67 ppb	0.1 ppb	1000 ppb
	CO	No	2848	61	0 - 11 ppm	0.1 ppm	27 ppm
	H_2S	No	2848	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2848	2	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	2848	164	0 - 0.4 ppm	0 ppm	0.5 ppm
	γ	No	2848	2848	4 - 6 µrem/h	4.9 µrem/h	9 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/24/22 7:00 AM** ***To:*** **2/25/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	24	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	24	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	24	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	24	24	20.2 - 22.5 %	21.2 %	<19.5 or >23 %
	LEL	No	24	5	0 - 3 %	0.5 %	10 %
	γ	No	24	24	2 - 5 µrem/h	2.5 µrem/h	6 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	Yes	2862	0	0 - 7598 ppb	218.1 ppb	1000 ppb
	CO	No	2862	6	0 - 15 ppm	0 ppm	27 ppm
	H_2S	No	2862	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2862	0	0 - 0 %	0 %	10 %
	NO	Yes	2862	1593	0 - 7.9 ppm	0.9 ppm	0.5 ppm
	γ	Yes	2862	2862	4 - 40 µrem/h	6.1 µrem/h	6 µrem/h
SPM Flex 2	HCl	No	1495	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 3	HF	No	1498	1	0 - 0 ppm	0 ppm	1 ppm

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	2854	0	0 - 435 ppb	0.6 ppb	1000 ppb
	CO	No	2854	77	0 - 7 ppm	0.1 ppm	27 ppm
	H_2S	No	2854	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2854	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	2854	748	0 - 1 ppm	0 ppm	0.5 ppm
	γ	No	2854	2854	3 - 17 µrem/h	4.8 µrem/h	6 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/25/22 7:00 AM** ***To:*** **2/26/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	24	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	24	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	24	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	24	24	18.7 - 22.4 %	20.4 %	<19.5 or >23 %
	LEL	No	24	0	0 - 0 %	0 %	10 %
	γ	No	24	24	2 - 3 µrem/h	2.4 µrem/h	6 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2867	0	0 - 472 ppb	39.9 ppb	1000 ppb
	CO	No	2867	5	0 - 6 ppm	0 ppm	27 ppm
	H_2S	No	2867	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2867	0	0 - 0 %	0 %	10 %
	NO	Yes	2867	766	0 - 2.4 ppm	0.2 ppm	0.5 ppm
	γ	No	2867	2867	3 - 9 µrem/h	5.1 µrem/h	6 µrem/h
SPM Flex 2	HCl	No	1506	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 3	HF	No	1491	0	0 - 0 ppm	0 ppm	1 ppm

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	2854	0	0 - 301 ppb	1.5 ppb	1000 ppb
	CO	No	2854	5	0 - 5 ppm	0 ppm	27 ppm
	H_2S	No	2854	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2854	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	2854	1719	0 - 1.4 ppm	0.1 ppm	0.5 ppm
	γ	No	2854	2854	4 - 6 µrem/h	5 µrem/h	6 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/26/22 7:00 AM** ***To:*** **2/27/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	24	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	24	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	24	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	2	2	18.7 - 19.1 %	18.9 %	<19.5 or >23 %
	LEL	No	24	0	0 - 0 %	0 %	10 %
	γ	No	24	24	2 - 3 µrem/h	2.5 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	Yes	2873	0	0 - 5875 ppb	23.7 ppb	1000 ppb
	CO	No	2873	13	0 - 16 ppm	0 ppm	27 ppm
	H_2S	No	2873	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2873	0	0 - 0 %	0 %	10 %
	NO	Yes	2873	805	0 - 4.2 ppm	0.5 ppm	0.5 ppm
	γ	No	2873	2873	4 - 13 µrem/h	5.3 µrem/h	9 µrem/h
SPM Flex 2	HCl	No	1473	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 3	HF	No	528	0	0 - 0 ppm	0 ppm	1 ppm

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	2870	0	0 - 971 ppb	2.6 ppb	1000 ppb
	CO	No	2870	7	0 - 18 ppm	0 ppm	27 ppm
	H_2S	No	2870	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2870	5	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	2870	691	0 - 0.5 ppm	0 ppm	0.5 ppm
	γ	No	2870	2870	4 - 18 µrem/h	5 µrem/h	9 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/27/22 7:00 AM** ***To:*** **2/28/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	24	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	24	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	24	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	24	0	0 - 0 %	0 %	10 %
	γ	No	24	24	2 - 3 µrem/h	2.4 µrem/h	6 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2877	0	0 - 70 ppb	10 ppb	1000 ppb
	CO	No	2877	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2877	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2877	0	0 - 0 %	0 %	10 %
	NO	No	2877	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	2877	2877	2 - 10 µrem/h	5.1 µrem/h	6 µrem/h
SPM Flex 2	HCl	No	1499	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 3	HF	No	305	0	0 - 0 ppm	0 ppm	1 ppm

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	2876	0	0 - 6 ppb	2.7 ppb	1000 ppb
	CO	No	2876	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2876	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2876	3	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	2876	990	0 - 0.1 ppm	0 ppm	0.5 ppm
	γ	No	2876	2876	4 - 5 µrem/h	4.9 µrem/h	6 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/28/22 7:00 AM** ***To:*** **3/1/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	1956	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	1956	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	1956	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	1956	0	0 - 0 %	0 %	10 %
	γ	No	1956	1956	2 - 4 µrem/h	2.2 µrem/h	6 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	Yes	2872	0	0 - 3690 ppb	44 ppb	1000 ppb
	CO	No	2872	1	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	2872	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2872	0	0 - 0 %	0 %	10 %
	NO	Yes	2872	859	0 - 13.4 ppm	1.1 ppm	0.5 ppm
	γ	Yes	2872	2872	4 - 80 µrem/h	7 µrem/h	6 µrem/h
SPM Flex 2	HCl	No	1490	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 3	HF	No	0	0	0 - 0 ppm	ppm	1 ppm

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	2851	0	0 - 435 ppb	3.6 ppb	1000 ppb
	CO	No	2851	5	0 - 7 ppm	0 ppm	27 ppm
	H_2S	No	2851	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2851	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	2851	1794	0 - 1.5 ppm	0.1 ppm	0.5 ppm
	γ	No	2851	2851	3 - 17 µrem/h	4.8 µrem/h	6 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **3/1/22 7:00 AM** ***To:*** **3/2/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2875	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2875	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	Yes	2875	0	0 - 0.5 ppm	0 ppm	0.33 ppm
	LEL	No	2875	0	0 - 0 %	0 %	10 %
	γ	No	2875	2875	2 - 5 µrem/h	2.3 µrem/h	6 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2873	0	0 - 611 ppb	40.7 ppb	1000 ppb
	CO	No	2873	152	0 - 5 ppm	0.2 ppm	27 ppm
	H_2S	Yes	2873	0	0 - 0.4 ppm	0 ppm	0.33 ppm
	LEL	No	2873	0	0 - 0 %	0 %	10 %
	NO	Yes	2873	798	0 - 11.3 ppm	0.9 ppm	0.5 ppm
	γ	Yes	2873	2873	2 - 72 µrem/h	8.6 µrem/h	6 µrem/h
SPM Flex 2	HCl	Yes	2069	66	0 - 20 ppm	0.3 ppm	1.8 ppm
SPM Flex 3	HF	No	902	0	0 - 0 ppm	0 ppm	1 ppm

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	2869	0	0 - 219 ppb	0.6 ppb	1000 ppb
	CO	No	2869	9	0 - 6 ppm	0 ppm	27 ppm
	H_2S	No	2869	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2869	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	2869	1489	0 - 0.5 ppm	0.1 ppm	0.5 ppm
	γ	No	2869	2869	4 - 6 µrem/h	4.7 µrem/h	6 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **3/2/22 7:00 AM** ***To:*** **3/3/22 6:59 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2876	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2876	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2876	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2876	0	0 - 0 %	0 %	10 %
	γ	No	2876	2876	2 - 41 µrem/h	3.3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	Yes	2873	0	0 - 4675 ppb	105.4 ppb	1000 ppb
	CO	No	2873	129	0 - 8 ppm	0.1 ppm	27 ppm
	H_2S	No	2873	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2873	0	0 - 0 %	0 %	10 %
	NO	Yes	2873	916	0 - 9.7 ppm	0.9 ppm	0.5 ppm
	γ	Yes	2873	2873	2 - 92 µrem/h	11.1 µrem/h	9 µrem/h
SPM Flex 2	HCl	No	0	0	0 - 0 ppm	ppm	1.8 ppm
SPM Flex 3	HF	No	0	0	0 - 0 ppm	ppm	1 ppm

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	2864	0	0 - 235 ppb	0.7 ppb	1000 ppb
	CO	Yes	2864	168	0 - 27 ppm	0.3 ppm	27 ppm
	H_2S	No	2864	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2864	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	2864	512	0 - 0.5 ppm	0 ppm	0.5 ppm
	γ	No	2864	2864	4 - 7 µrem/h	4.7 µrem/h	9 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **3/3/22 7:00 AM** ***To:*** **3/4/22 10:02 AM**

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3222	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3222	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3222	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3222	0	0 - 0 %	0 %	10 %
	γ	No	3222	3222	1 - 40 µrem/h	3.5 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3186	0	0 - 630 ppb	130.8 ppb	1000 ppb
	CO	No	3186	195	0 - 6 ppm	0.2 ppm	27 ppm
	H_2S	No	3186	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3186	0	0 - 0 %	0 %	10 %
	NO	Yes	3186	971	0 - 11.3 ppm	1 ppm	0.5 ppm
	γ	Yes	3186	3186	1 - 139 µrem/h	14.2 µrem/h	9 µrem/h
SPM Flex 2	HCl	No	0	0	0 - 0 ppm	ppm	1.8 ppm
SPM Flex 3	HF	No	0	0	0 - 0 ppm	ppm	1 ppm

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	3171	0	0 - 61 ppb	0.7 ppb	1000 ppb
	CO	No	3171	10	0 - 7 ppm	0 ppm	27 ppm
	H_2S	No	3171	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3171	5	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	3171	315	0 - 0.6 ppm	0 ppm	0.5 ppm
	γ	No	3171	3171	4 - 6 µrem/h	4.5 µrem/h	9 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

ENCLOSURE 4

PHOTOGRAPHIC LOG

(23 Pages)

OFFICIAL PHOTOGRAPH NO. 1
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	East	**Date:**	December 11, 2021
Photographer:	Paul Prys, Tetra Tech, Inc. Superfund Technical Assessment and Response Team (Tetra Tech START)	**Witness:**	Jason Booth, U.S. Environmental Protection Agency (EPA)

Subject: On December 10, 2021, U.S Environmental Protection Agency (EPA) mobilized to Rytech USA (the site) in response to lithium-ion battery fires at the site. EPA mobilized the Emergency Rapid Response Services contractor, Environmental Restoration, LLC (ER), to the site to conduct emergency response activities. ER arrived on site later that afternoon and covered the batteries in the loading dock area with sand and plastic sheeting to prevent further reactivity and suppress smoke.

OFFICIAL PHOTOGRAPH NO. 2
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	North	**Date:**	December 11, 2021
Photographer:	Paul Prys, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: Runoff from firefighting activities flowed into a storm drain located next to the staged batteries and emptied into the retention pond located southeast of the Rytech USA entrance on the eastern side of the site. ER covered the storm drain with plastic sheeting to prevent runoff from the battery storage area from emptying into the retention pond.

OFFICIAL PHOTOGRAPH NO. 3
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	North	**Date:**	December 11, 2021
Photographer:	Paul Prys, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: On December 11, 2021, Tetra Tech START mobilized to the site to collect soil and surface water samples from the retention pond impacted by runoff during firefighting activities. EPA and Tetra Tech START inspected the retention pond and observed some standing water and minor quantities of fire suppressant pellets. Tetra Tech START collected soil and surface water samples from the retention pond, including a background sample and quality control samples.

OFFICIAL PHOTOGRAPH NO. 4
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	South	**Date:**	December 17, 2021
Photographer:	Paul Prys, Tetra Tech START	**Witness:**	Laura Lawrence, Tetra Tech START
Subject:	On December 13, 2021, ER placed individual batteries into plastic bags and stacked the bagged batteries between layers of fire suppressant pellets within 55-gallon steel drums. The drums were sealed and secured inside of a conex storage container.		

OFFICIAL PHOTOGRAPH NO. 5
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	South	**Date:**	December 14, 2021
Photographer:	Paul Prys, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: On December 14, 2021, the individual batteries packed into 55-gallon drums self-ignited inside of the drums. After the Gwinnett County Fire Department (GCFD) extinguished the fires, EPA suspended battery packing operations and decided ER should pack batteries individually into Department of Transportation (DOT) Packing Group 1 rated pails (DOT pails) to prevent self-ignition and allow safe transport.

OFFICIAL PHOTOGRAPH NO. 6
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Not applicable	**Date:**	December 14, 2021
\			
Photographer:	Paul Prys, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: ER placed fire suppression pellets in each bucket to prevent the batteries from self-igniting and to allow for safe transport.

OFFICIAL PHOTOGRAPH NO. 7
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Not applicable	**Date:**	December 17, 2021
Photographer:	Paul Prys, Tetra Tech START	**Witness:**	Not applicable
Subject:	ER inventoried, weighed, and labeled each DOT pail with the following information: DOT Class 9 Lithium Battery labels, Dangerous Goods Lithium Battery labels with UN3480 identifier, a Lithium Ion label, a Damaged/Defective Lithium Ion Battery label, and an inventory identification label.		

OFFICIAL PHOTOGRAPH NO. 8
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Southeast	**Date:**	December 14, 2021
Photographer:	Paul Prys, Tetra Tech START	**Witness:**	Chris Jones, Tetra Tech START

Subject: On December 14, 2021, EPA mobilized Tetra Tech START to conduct perimeter air monitoring around the battery packing operation. Tetra Tech START deployed Viper, a remote telemetry system with Honeywell AreaRAE Pros (AreaRAE Pro), at four locations to determine if the smoke contained combustion byproducts that could threaten nearby residents and employees. Each AreaRAE Pro contained sensors to detect carbon monoxide (CO), hydrogen sulfide (H_2S), oxygen (O_2), lower explosive limit (LEL), and gamma radiation, as well as a photoionization detector (PID) with a 10.6 electron volt (eV) bulb to detect volatile organic compounds (VOCs).

OFFICIAL PHOTOGRAPH NO. 9
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	South	**Date:**	December 16, 2021
Photographer:	Paul Prys, Tetra Tech START	**Witness:**	Donovan Godbee, Tetra Tech START
Subject:	ER contracted a group to erect a tent over the batteries covered in sand in the loading dock area to minimize their exposure to the weather.		

OFFICIAL PHOTOGRAPH NO. 10
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Southeast	**Date:**	December 19, 2021
Photographer:	Laura Lawrence, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: On December 19, 2021, some of the DOT pails staged in the conex storage container self-ignited and GCFD mobilized to the site to extinguish the fire. EPA and ER suspended battery packing operations.

OFFICIAL PHOTOGRAPH NO. 11
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Southeast	**Date:**	December 19, 2021
Photographer:	Laura Lawrence, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: After the fires were extinguished, GCFD removed the DOT pails from the conex storage container and staged them near the battery storage area for inspection.

OFFICIAL PHOTOGRAPH NO. 12
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Southeast	**Date:**	December 21, 2021
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: On December 20, 2021, EPA and ER met with representatives from several battery recycling facilities. Based on those meetings, EPA decided to submerge the batteries in a 0.5 percent sodium chloride brine solution (brine solution) to de-energize them prior to disposal.

OFFICIAL PHOTOGRAPH NO. 13
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Southeast	**Date:**	December 21, 2021
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Jordan Garrard, EPA

Subject: From December 21 through 23, 2021, ER submerged all batteries into two roll-off containers filled with the brine solution. EPA and Tetra Tech START observed bubbles coming from the batteries in the solution as they were submerged. EPA tasked Tetra Tech START to monitor for gases potentially released during the de-energizing process.

OFFICIAL PHOTOGRAPH NO. 14
U.S. ENVIRONMENTAL PROTECTION AGENCY

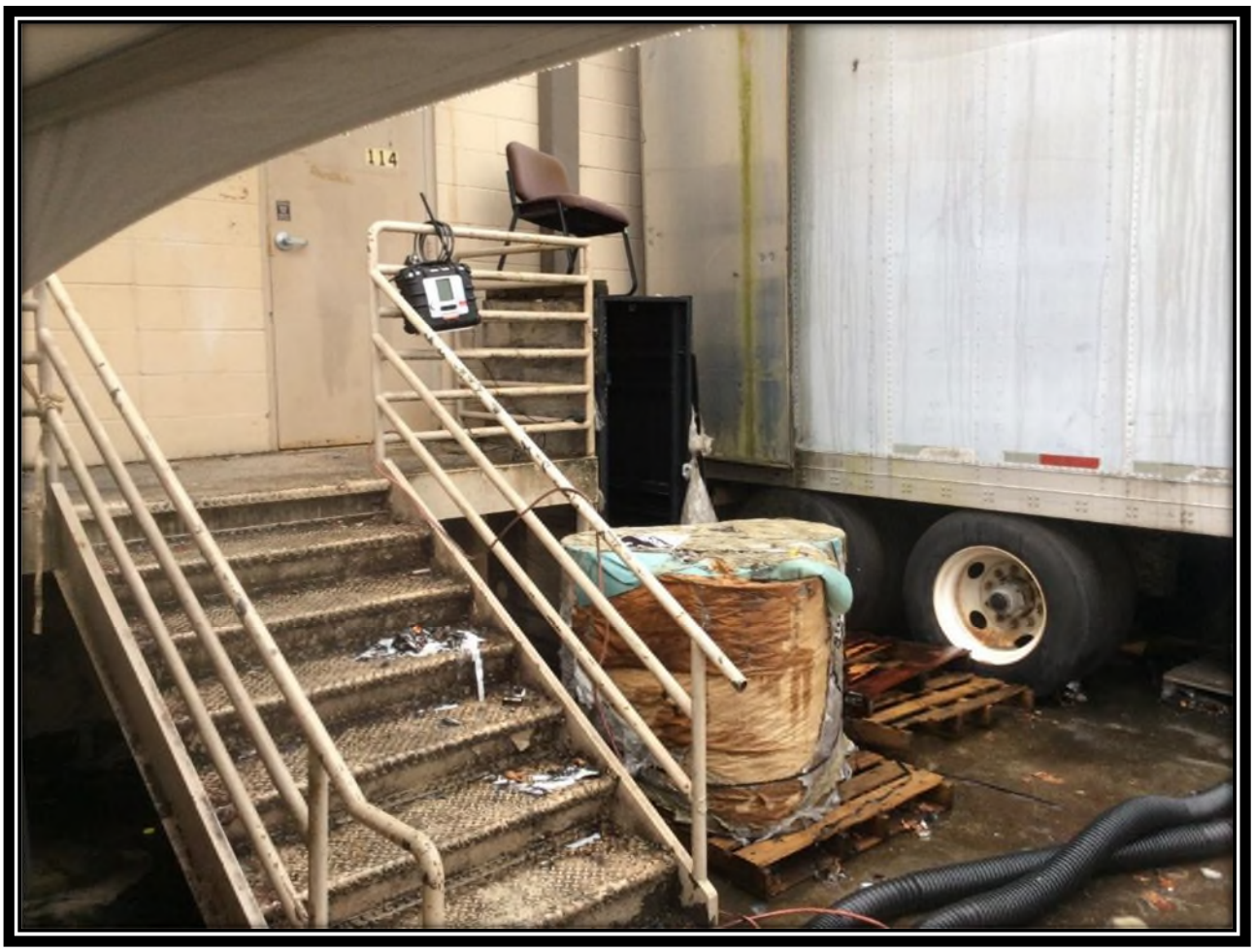
TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Not applicable	**Date:**	December 23, 2021
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Jordan Garrard, EPA

Subject: ER tested the voltage of select batteries submerged for longer than 12 hours and found that some still carried a charge. EPA and ER decided the batteries would need more time to de-energize in the brine solution. From December 24, 2021 through February 21, 2022, the batteries remained submerged in the two roll-offs.

OFFICIAL PHOTOGRAPH NO. 15
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	West	**Date:**	December 21, 2021
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: On December 21, 2021, EPA requested Tetra Tech START move the AreaRAE Pros from Locations 2 and 3 to monitor for gases potentially released during the de-energizing process. Tetra Tech START placed one AreaRAE Pro south of the battery staging area near the center of the stationary tractor trailer (Location 6) to monitor for nitrogen oxide.



OFFICIAL PHOTOGRAPH NO. 16
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	South	**Date:**	December 21, 2021
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: On December 21, 2021, EPA requested Tetra Tech START move the AreaRAE Pros from Locations 2 and 3 to monitor for gases potentially released during the de-energizing process. Tetra Tech START placed one AreaRAE Pro southwest of the battery staging area at the loading dock stairwell of 1665 Lakes Parkway, Suites 114 and 116 (Location 7), to monitor for sulfur dioxide and chlorine.

OFFICIAL PHOTOGRAPH NO. 17
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Southwest	**Date:**	December 23, 2021
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Jordan Garrard, EPA

Subject: On December 23, 2021, EPA tasked Tetra Tech START to monitor for hydrogen chloride (HCl) and hydrogen fluoride (HF) gases using Honeywell SPM Flexes (SPM Flex) fitted with Honeywell SPM Flex mineral acid chemcassette tapes (mineral acid tapes). Tetra Tech START conducted HCl and HF air monitoring next to the roll-off containers (Location 8).

OFFICIAL PHOTOGRAPH NO. 18
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Southeast	**Date:**	February 22, 2022
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: On February 22, 2022, EPA and ER mobilized to the site to package and dispose of the de-energized batteries. ER pumped the brine solution into 330-gallon intermediate bulk container (IBC) totes to access the batteries for disposal activities.

OFFICIAL PHOTOGRAPH NO. 19
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Not applicable	**Date:**	February 22, 2022
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Jason Booth, EPA
Subject:	After removing the brine solution from the roll off containers, ER accessed the de-energized batteries for packaging and disposal.		

OFFICIAL PHOTOGRAPH NO. 20
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Not applicable	**Date:**	February 25, 2022
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Paul Prys, Tetra Tech START
Subject:	On February 25, 2022, Tetra Tech START collected a composite waste sample from the sludge in the northern roll-off container for disposal purposes.		

OFFICIAL PHOTOGRAPH NO. 21
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Not applicable	**Date:**	March 3, 2022
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Jason Booth, EPA
Subject:	ER randomly selected batteries and tested the voltages of the batteries. The voltages ranged from 0.0 to 0.1 volts across accessible electrodes.		

OFFICIAL PHOTOGRAPH NO. 22
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Not applicable	**Date:**	February 24, 2022
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Jason Booth, EPA
Subject:	ER placed each small battery into individual plastic bags and packaged them between layers of fire suppressant pellets in plastic-lined 55-gallon drums pursuant to DOT Special Permit SP-16532 for small batteries.		

OFFICIAL PHOTOGRAPH NO. 23
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Not applicable	**Date:**	February 24, 2022
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: ER packaged the medium to large batteries between layers of fire suppressant pellets in fire suppressant-lined 55-gallon drums pursuant to DOT Special Permit SP-21329 medium and large batteries.

ENCLOSURE 5

TETRA TECH FIELD LOGBOOK NOTES

(52 Pages)

TOLIN 82-035

LAKES PARKWAY LITHIUM BATTERY FIRE

Rite in the Rain.
ALL-WEATHER
UNIVERSAL
Nº 371FX

Logbook 1 of 2

DECEMBER 11, 2021

to

January 12, 2022

INCH

MADE IN TACOMA — SINCE 1916 —

Rite in the Rain

DEFYING MOTHER NATURE

Name Tetra Tech, Inc.

Address 1955 Evergreen Blvd, Suite 300
Duluth, GA 30096

Phone

Project TOLIN 82-035
Lakes Parkway Lithium Battery Fire
1665 Lakes Parkway
Lawrenceville, GA

RiteintheRain.com

CONTENTS

PAGE	REFERENCE	DATE
	EPA OSC Jason Booth	
	TT START Paul Prys	
	TT START Chris Jones	
	TT START Laura Lawrence	
	TT START Personnel Contact info:	
	Paul Prys: 4048497136	
	paul.prys@tetratech.com	
	Environmental Scientist / PM	
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	emily.Jones1@tetratech.com	
	Environmental Scientist	
	Chris Jones: 4043955220	
	chris.jones@tetratech.com	
	Readiness Cordinator	

December 11, 2021 Phys

Weather: High of 73°F, 100% chance of rain, winds from west at 10-15mph

0900 START PHYS onsite and met with EPA OSC Jason Booth and ER. The fire occurred in the loading dock area of 1665 Lakes Parkway, Suite 116, Lawrenceville, GA. The lithium batteries were staged in the loading dock area and covered with sand and plastic sheeting. GPS coordinates: 33.965963, -84.055812 (PP)

OSC Booth tasked START PHYS with collecting water and soil samples from the outfall area located northwest of 1665 Lakes Parkway and north of 1655 Lakes Parkway. A stream drain located in the loading dock of the site empties into the area. Name of business at this location is Recytech USA. Runoff generated during fire fighting activities conducted on DEC 7 and DEC 9 emptied into this area. Samples will be analyzed for target compound list VOCs, TCL SVOCs, and TAL metals and Hg.

Carl E

Scale: 1 square =

December 11, 2021 Phys

0945 START PHYS prepared bottle sets.

Surface water samples with bg collected using the following:

TCL VOCs: 3, 40-ml VOAs preserved w/ HCl

TCL SVOCs: 2, 1-liter amber bottle w/o preservatives. (PP)

TAL Metals + Hg: 2, 250-ml HDPE bottles preserved with HNO_3 (PP)

Soil samples with bg collected with a stainless-steel spoon using the following: (PP)

TCL VOCs: 1 terracore with 2, 40-ml VOA vials preserved with methanol, 1, 40-ml VOA vial preserved w/ sodium bisulfate, and 2, 40-ml VOA vials with DI water, OR a terracore kit with 4, 40-ml VOA vials unpreserved, OR terracore kit that are a mixture of the two kits.

TCL SVOCs: 1, 4-oz amber jar (NP)

TAL Metals + Hg: 1, 4-oz clear jar.

Note: Both jars have teflon-lined lids. (PP)

1100 Collected surface water sample LLB-SW-L01-121121 from the outfall

Carl E

Scale: 1 square =

Rite in the Rain

1100 ARRA Northeast of the southwestern outfall. (33.965346, -84.054914) (Location 1)

1110 Collected duplicate surface water sample LLB-SW-L01-121121-DUP from Location 1.

1120 Collected surface water sample LLB-SW-L02-121121 from Location 2 (33.965365, -84.055085), at southwestern outfall, included MS/MSD.

1200 Collected surface soil sample from Soil Location 1, LLB-SS-L01-121121 (33.965283, -84.054952), northeast of the southwestern outfall. Sample contains bits of "cell block" that entered the storm drain during fire fighting activities. (PP)

1212 Collected duplicate surface soil sample ~~LLB-SS-L01-DUP~~ (PP) from Soil Location 1. Soil sample ID is LLB-SS-L01-121121-DUP. Sample also contains pieces of "cell block".

1225 Collected surface soil sample LLB-SS-L02-121121 from Soil Location 2 from approx 20-25 ft west of Location 1. Sample included MS/MSD.

1250 Collected surface soil sample

Scale: 1 square = Paul E

1250 LLB-SS-L03-121121 from Soil Location 3 (33.965364, -84.055178) near southwestern outfall. Note: Sample LLB-SS-L03-121121 coordinates are 33.965301, -84.055111.

1330 OSC Booth requested start collect surface soil samples from a background location and the southeastern outfall servicing building at 1655 Lakes Parkway.

1440 Collected surface soil sample LLB-SS-L04-121121 (33.965364, -84.055113) from near northwestern corner of 1655 Lakes Parkway parking lot uphill from ~~southwestern~~ southeastern (RR) outfall. (Soil Location 4) (RR)

1415 Heavy rains moved into the area.

1435 Collected surface soil sample LLB-SS-L05-121121 from surface soil location 5 (33.965427, -84.055689) near southeastern outfall. Outfall area filled with water. Sample collected just above water line. (RR)

1500 START PRyS off-site. (PP)

Scale: 1 square = Paul E 11 DEC 2021

Rain in the Rain

DECEMBER 13, 2021 — Phys

WEATHER: High of 63°F, Sunny, Winds from southwest up to 5 mph

1330 START Phys onsite to collect a composite sample from the sand used to cover the waste lithium batteries staged in the loading dock area.

1355 Collected a 5-pt composite sample LLB-SS-L06-121321 from the loading dock area (Location 6: 33.965944 -84.055821). Note: 3 aliquots collected from waste sand in contact with batteries and 2 aliquots from sand covering the batteries. Sample was collected using a stainless-steel spoon and disposable aluminum pan, thoroughly homogenized, placed into 3, 4-oz jars with teflon-lined lids for TAL metals + Hg and TCLP metals analysis. (PP)

1430 START Phys offsite. (PP)

13 DEC 2021

DECEMBER 14, 2021 — Phys, Jones

WEATHER: High of 70°F, Sunny, Winds from southwest up to 5 mph

1445 START Chris Jones onsite. Discussed site activities with OSC Booth.

1500 START Phys onsite. Discussed site activities with START Jones and OSC Booth. Gwinnett County Fire Dept (GCFD) onsite and getting ready to demobilize after putting out second fire of the day. (PP)

1600 START Began setting up air monitoring stations using AREARAEs to be connected to the VIPER telemetry system. The monitoring locations are as follows: (PP)

- Location 1: Northern side of Battery Storage area at fenceline. (33.966123, -84.055867) AREARAE Unit 9 (B10341, S/N 1807)
- Location 2: Northwestern side of battery storage area at the loading dock staircase of 1675 Lakes Pkwy, Suite 101 (33.966076, -84.056126) AREA RAE Unit 11 (B10343, S/N 1809)
- Location 3: Western side of Battery

P.O.B

1600 - Location 3: STORAGE AREA at the loading dock stairwell of 1675 Lakes Pkwy, Suite 105 (33.966007, -84.056149) AreaRAE Unit 12 (810344, s/n 1810) ——— PP

- Location 4: Southwestern side of BATTERY STORAGE AREA at the loading dock stairwell of 1665 Lakes Pkwy Suite 112 (33.965737, -84.055946) AreaRAE Unit 10 (810342, s/n 1808)

NOTE: START calibrated AreaRAEs prior to deployment. ——— PP

1700 START BEGAN setting up VIPER to log A.S. monitoring DATA. ——— PP

1845 START off site. ——— PP

14 DEC 2021

Scale: 1 square = _____

WEATHER: High of 58°F, Partly cloudy, Wind from East at 5-10 mph.

0746 START Pkgs onsite. ER onsite preparing to continue packing batteries into individual 5 gal buckets filled with "cell block".

0800 START Pkgs connected AreaRAEs at Locations 2 and 3 to HONDA generators. AreaRAEs at Locations 1 and 4 were connected to shore power.

0900 START Pkgs offsite to Walmart to get bike locks to secure the generators. ——— PP

1000 ER continued placing batteries into individual buckets with "cell block", documenting weight of each bucket, placing a DOT placard on each bucket, and staging the buckets along the loading dock ramp. The buckets will eventually be placed in the connex box at the southwestern portion of the loading dock area for storage. (NOTE: ER has a person on site at night as a fire watch.)

Scale: 1 square = _____

Rite in the Rain

DECEMBER 15, 2021 PRYS

1300 START BEGINS TROUBLESHOOTING AIR monitoring summary tables. Air monitoring results for VOC and H_2S are reported as 1-hr and 8-hr TWAs. (PP)

1345 START conducted a bump check of the AreaRAEs. All units passed. (NOTE: START didn't turn off the AreaRAE at Location 2 before. Apply calibration cocktail gas. Gas was connected for approx. 5 seconds prior to being disconnected. At approx 1355, (PP)

1500 ER continued ~~battery~~ removal activities. (PP)

1700 START PRYS ~~removed~~ turned off (PP) and secured generators at locations 2 and 3. AreaRAEs ran on battery power. (PP)

1745 START PRYS offsite. (PP)

15 DEC 2021

Scale: 1 square = _____

DECEMBER 16, 2021 PRYS

WEATHER: High of 62°F, cloudy, 10% chance of rain, winds light and variable

0745 START PRYS onsite. ER prepared to packing batteries into individual 5-gallon buckets filled with cell block for disposal. (PP)

0800 START PRYS connected generators to AreaRAEs at locations 2 and 3 and conducted bump checks at all locations. AreaRAEs passed bump check.

1000 Discussed site coverage with OSC Booth. He requested START remain on site over the weekend to conduct air monitoring and to troubleshoot VIPER in case there are issues. Also discussed labeling on buckets. Each bucket contains (PP) DOT label #9 (Lithium Battery), DOT label UN3480 (Ion Battery), a yellow sticker stating "Defective Lithium Ion Battery", ER inventory number, and a label with the bucket weight.

1130 Discussed the air monitoring data and data summary tables with ERT.

1300 START PRYS offsite to pickup

Scale: 1 square = _____

DECEMBER 16, 2021 PRYS

1300 supplies to cover smart gateway, RAE Link 1, and power cords at Location 1. Rain is forecasted for late Friday and Saturday.

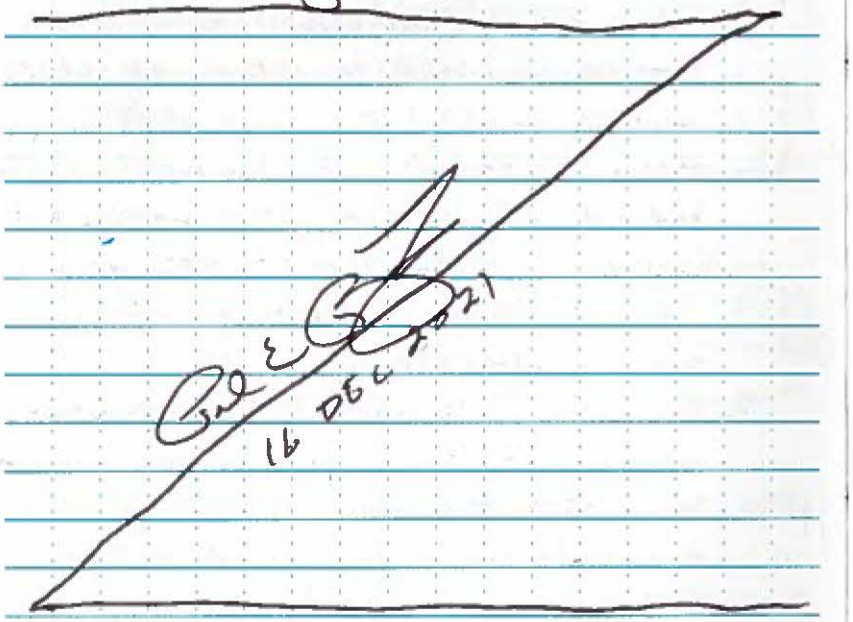
1415 ER continued battery disposal activities. Start Prys covered equipment at Location 1. (PP)

1600 Bump checked AREARAEs at all locations and all AREARAEs passed.

1700 Removed and secured generators from Locations 2 and 3. (PP)

1745 Start Prys offsite. (PP)

16 DEC 2021



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DECEMBER 17, 2021 LAWRENCE, PRYS

Weather: High of 67°F, cloudy, 10% chance of rain, winds light and variable. (PP)

0730 Start Prys onsite. ER prepared to continue battery disposal activities. Note: Yesterday afternoon ER had a tent delivered and erected onsite to cover the batteries in the loading dock area and a small roll off delivered for site trash. (PP)

0745 Connected AREARAEs at Locations 2 and 3 to generators. (PP)

0930 Start Lawrence onsite. Began site orientation. (PP)

1000 Reviewed results for sample LLB-SS-LOL-121321 and compared the unvalidated data to the EPA RMLs and TCLP tables. No exceedances were observed. (PP)

1030 Conducted bump check of AREARAEs with all passing the check. Continued site orientation. (PP)

1215 Start offsite to pick up rental vehicle and to drop off current vehicle.

Scale: 1 square =

Rite in the Rain

1330 - START Lawrence onsite.

1400 - AreaRAE unit 9 located at station 1 power off. smart Gateway power and extension cord lights were on so not a power supply issue.

1415 - Confirmed no data being transfered so screen was not the problem either. START located an ~~un~~ LL disconnected power cord inside the bag. Will allow AreaRAE to charge for 30 minutes and then attempt to power back on.

1500 - AreaRAE unit 9, location 1 back online.

1520 - Truck arrives to load out sand.

1715 - START bump tests all AreaRAEs all locations online.

1800 - START offsite.

LL

Weather - 43/71°F, rain 0.25 inches last night. cloudy, overcast, 99% humidity. 90% chance of rain today. winds SSW at 5-10 m.ph.

0730 - START Lawrence onsite. All locations online with no outages last night.

0800 - START conducts bump test at all four locations. All pass. Locations 2 and 3 placed on charger to re-charge batteries.

0830 - ER ~~beg~~ LL resumes cleanup activities.

0900 - EPA OSC Booth onsite. Disposal activities resumed.

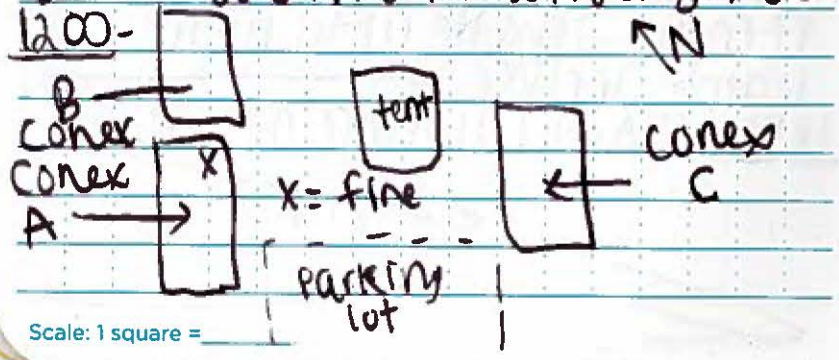
1600 - disposal activities done for the day. START bump tested all locations. All pass. START will remain on site until night watch arrives.

1840 - START Lawrence offsite.

LL 12/18/21

Rite in the Rain

Weather - 35/59°F. overcast, cloudy. 90% chance of rain. Currently raining. winds NW 10-15 mph —
0745 - START onsite and discusses site activities for the day. OSC Vasser on site. —
0845 - START conducts bump test at all four locations. All pass. LEL alarms at location 3. 3%. START re-bumped AreaRAE. Alarm still going off. Cocktail gas inserted. CO, H_2S, O_2 readings all correct. LEL 13% which is incorrect. Per START Jones instructing START Lawrence turned LEL sensor off due to sensor potentially going bad. —
0930 - Filter replaced at location 3. CO alarms no longer going off.
1200 -



conex box A storing packed batteries caught fire. Back top right. Wind N, NE, and SE. fire department responded and extinguished the fire. —
1406 one of the packed buckets temporarily staged under the tent caught fire. ER used fire extinguisher to to put out fire.
1410 - A ~~fatal~~ packed bucket in the back right corner of conex C caught fire. Fire department called and extinguished fire. All buckets and batteries were brought out from conex boxes and under neath tent and staged outside. None are considered safe/ready for transfer/disposal. DOT will be on site tomorrow to discuss how to package. —
1715 - Bump test all locations. Replaced filter at location 3. —
1830 - START offsite.

Scale: 1 square =

Rite in the Rain

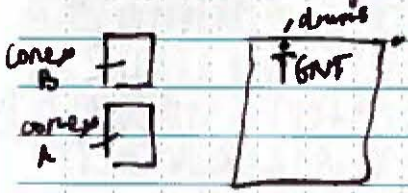
12/20/19 LAWRENCE, Jones

Weather - 36/48° F, cloudy, no chance of rain, winds 10-15 mph East.

0830 - START Lawrence and Jones onsite. Conduct bump test at locations 1, 3 and 4. Location 2 needs charge before bumptest.

1200 - START Lawrence offsite. — EJ

1400 - Moved AREARAE 4 to be closer to drum of water & batteries to monitor off gassing as requested by Vasser.



1500 - ERs moving stored batteries to make room for roll off bins. Plan as of today is to put batteries in salt water to desalinate.

1615 - Moved AREARAE 4 again to salt water test location in front of conex C. — EJ

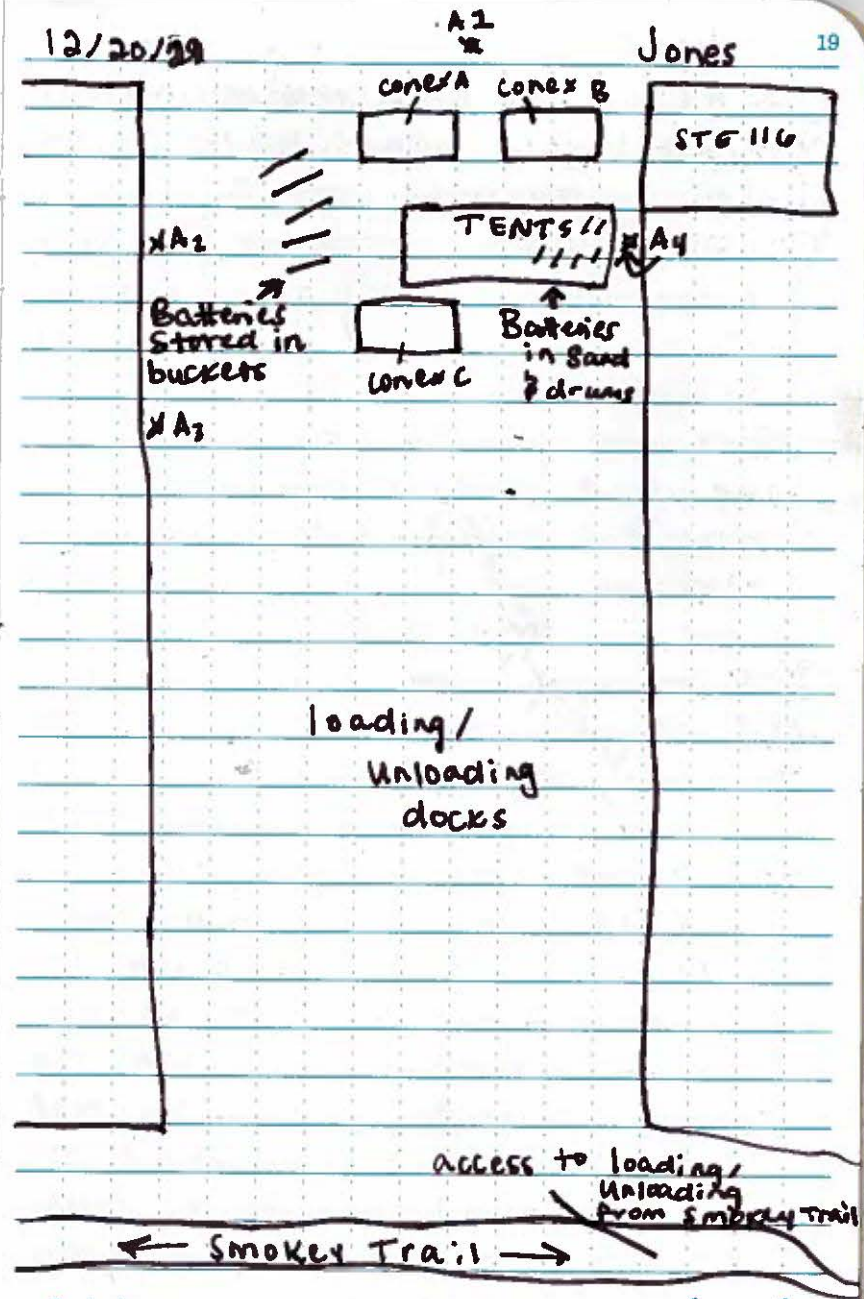
1630 - Roll off bins delivered on site. — EJ

1709 - Huyser's truck was parked in front of AreaRAE 3 for about 4 hours — EJ

1715 - Bumper test on A1, 3, & 4 pass. Used wrong cal gas on 2. Passed w/ 100ppm gas

Scale: 1 square = _____

12/20/19 Jones



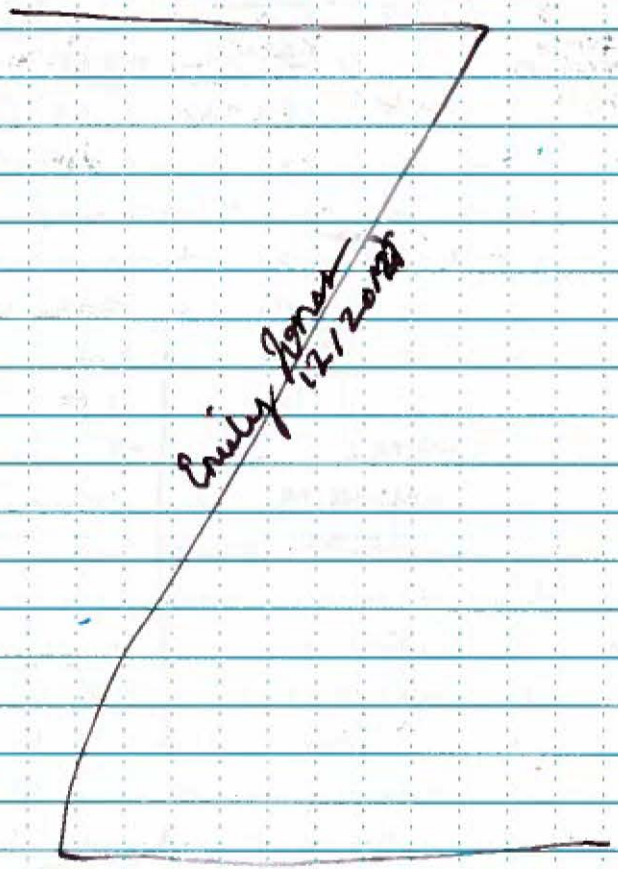
Scale: 1 square = _____

Rite in the Rain

12/20/21 Jones

1730- AH will stay near test drums overnight. Vasser wants to do air sampling tomorrow. —— ES

1830- START offsite. —— ES



Scale: 1 square =_____

12/21/21 Jones

0730- START Jones on site

0800- Discuss plan for the day and participate in tailgate H2S meeting. Today ERs will be putting batteries that are in buckets into salt water in 2 roll offs. —— ES

WEATHER: 45°/38° 50% chance of rain until 1300. Cloudy. Wind SW@6mph

0830- Bump test AreaRAEs & all pass. Locations 2 & 3 needed a fresh air cal due to low oxygen readings. ERs moving buckets to prepare for salt water soak. —— ES

0930 - Changed moisture probe on A2. Kept getting high O2 readings.

0940- loading occurring at site.

1030- DSC Booth on-site. —

1050- Each roll off will get 10 batteries which will sit for 10-30 min. depending on how much they are off gassing. Gwinnett county fire dept. is onsite. Shipping trucks will be coming in & out & will be regulated. ES moved front tent in preperation for battery dump. —ES

Scale: 1 square =_____ Emily Jones

Rite in the Rain

12/21/19 Jones

1110- Mike onsite to swap out sensors on AreaRAE 2 & 4

1115- Begin putting batteries in roll of bins. no immediate reaction. ——— ES

1145- Some bubbles coming off of batteries in water. No rolling or smoking yet. Throwing damaged batteries from sand into roll off.

1215- Set up AreaRAE 10 ES near roll off bin (S/SW) w/ NO_2 sensor. AreaRAE 2 had to go back to warehouse due to an issue w/ the pump. ——— ES

1330- AreaRAE 10 (A6) reading NEG for NO sensor. Another trailer is coming in to recieve a shipment. Operations will stop until they're done.

1400- Conducted a fresh air cal on A6. Passed. No alarm off now.

1430- Truck loaded. Preparing to drop in more batteries. ——— ES

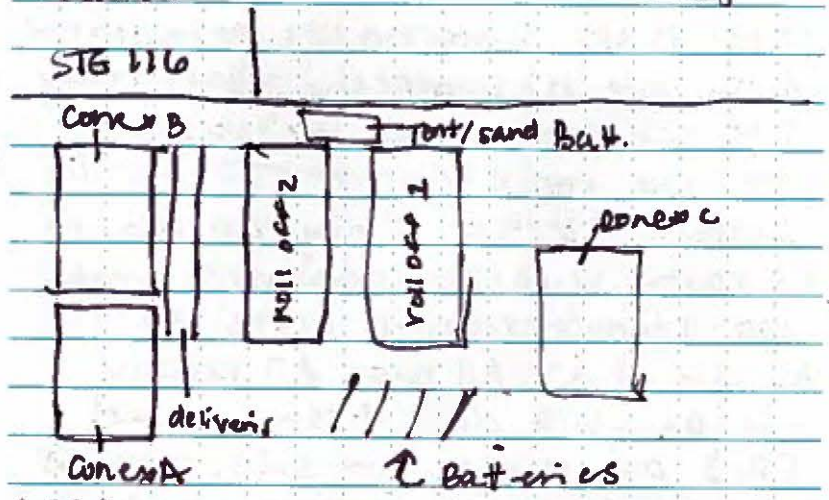
1435- Dropping 40 in each roll off.

1436- Orange battery in roll off bin 2 (see drawing) began smoking. — ES

ES

Scale: 1 square = _____ Emily Jones

12/21/21 Jones



1444- Smoke coming off both roll offs. Not a lot, little wafts every now & then

1518- Moved buckets near roll off to prepare for dumping them. ——— ES

1630- Moved buckets close to roll offs. opening buckets & putting batteries in roll offs.

1700- Conducted bump test on all 3 AreaRAEs & all passed. — ES

1745- START off site. ——— ES

Emily Jones 12/21/19

Scale: 1 square = _____

Rite in the Rain

12/22/21 Jones

0730- START Jones on site. Participated in tailgate H_2S meeting. Plan today is to get the rest of the batteries into the roll offs. ——— EJ

Weather: 33°/53° Sunny, no chance of rain Wind east/southeast @ 8 mph.

0800- Conducted bump tests on A1, A6, & A7. All pass. A7 reading low O_2. Will do a fresh air cal.

ERs & OSC Vasser on site. ——— EJ

0841- Testing voltage of batteries that have been in salt water for ~~a~~ ~12 hrs & ones that have been in the sand. Some still have a charge, therefore the batteries will need mean longer to deenergize in salt water brine. EJ

0900- Running a test on battery 1. Battery has ~42 volt charge. Placed in salt water brine to sit for about an hour, then will recheck voltage. One battery that was in a drum for about 12 hours has < 2 volts. (saltwater)

0935- ERs dumping batteries in salt water brine since 0800. No smoke or flare ups so far. ——— EJ

Scale: 1 square = _____ Emily Jones

12/22/21 Battery 1 Test Jones

Voltage	Time
40.53V	08:58
40.06V	10:23
29.29V	11.28
18.69V	12:42
2.14V	14:40
0.06V	13:40 12/23/21

1030- Truck arrives to recieve shipment ERs breaks from dumping batteries.

1040- START C. Jones onsite. ——— EJ

1124- Truck arrives for a shipment.

1203- loading buckets of cell block into cone. C. Truck arrives for shipment.

1245- 13.14v read on a battery from drum ——— EJ

1300- ERs crew resumes placing batteries in salt water brine. ——— EJ

1437- Testing Battery 1 voltage letting battery sit but for an hour ——— EJ

Scale: 1 square = _____ Emily Jones

Rite in the Rain

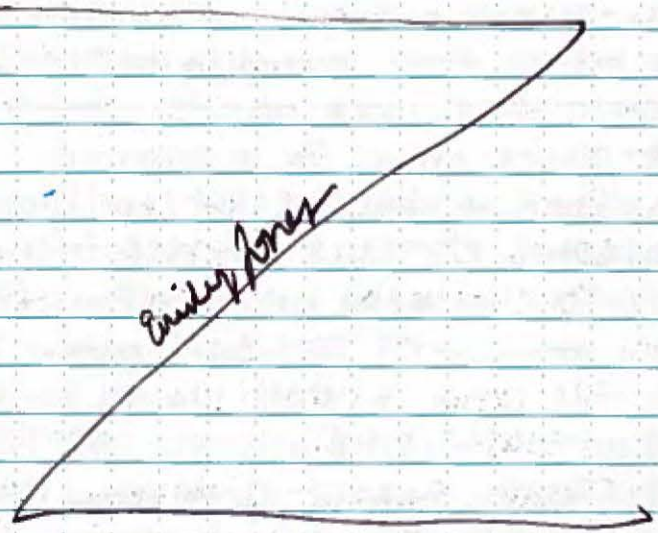
12/22/21 Jones

1505 - Collected 4 waste water samples using water from each roll off. — EJ
LP-LB-WW-01; LP-LB-WW-02;
LP-LB-WW-03; LP-LB-WW-04
Will collect four more samples after the water has sat for 10 days with all of the batteries in it. — EJ

1530 - Removing sand from behind the roll bin. ——— EJ

1700 - conducted bump test on all AreaRAGs all pass. ——— EJ

1730 - START offsite to drop WW samples at AES. ——— EJ



Scale: 1 square = _____

12/23/21 Jones

0730 - START Jones, OSC Jordan & ERS on site. Plan is to get the batteries from drums to slag box & burnt buckets open. Will move AreaRAEs again today to be closer to slag boxes ——— EJ

Weather: 31°/59° sunny all day with little to no wind. ——— EJ

0800 - Conducted bump tests on all AreaRAGs. All pass. A6 & A7 reading low oxy. Conducted fresh air cal and they are now ok. — EJ

0810 - ERS Continues dumping batteries from drums. ——— EJ

0840 - A6 reading high oxy. due to cold weather. Fresh air cal fixed it.

0930 - Set up SPM Flex (1 HCl & 1 HF) right next to roll off 2 after battery began smoking. — EJ

0958 - Changed moisture filter on A16 & did a fresh air cal (reading low oxy) Now says oxy needs a cal. — EJ

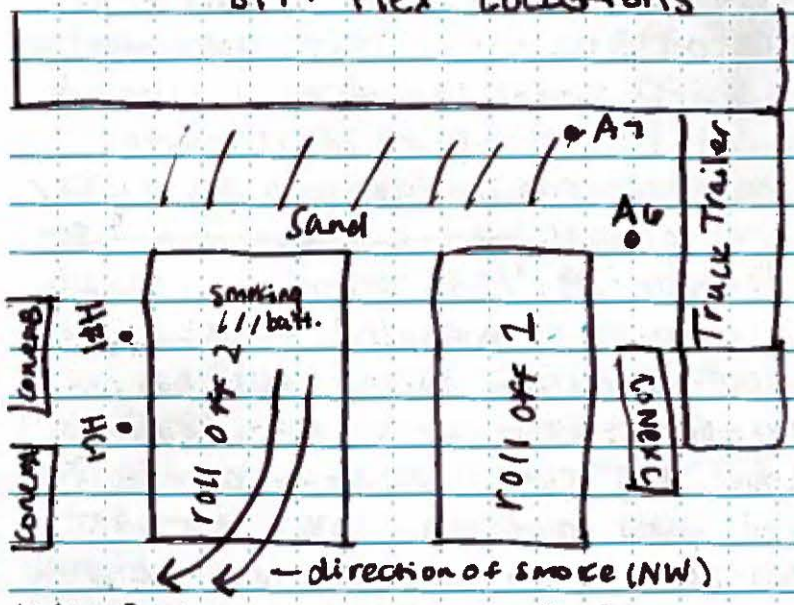
1000 - ERS using a saw to get tops off of burnt buckets. ——— EJ

1008 - last battery goes in brine. beg: 24hr monitor

Scale: 1 square = _____ Emily Jones

Rite in the Rain

SPM Flex Locations



1012 - Battery off opposing. SPM Flex Climbing HCl 0.093 highest reading HF-0.099; 0.11; 0.129 ——— ES
HCl- 0.096; 0.245 ——— ES

1014 - HF alarm going off.

1020 - Smoke going down on roll off 2 HCl reading 0.245 & HF 0.129. HF Got up to 0.5 ppm No exact readings due to smoke. ——— ES

1040 - HF alarm still going off. Smoke has died down. ——— ES

1100 - ERS continues clean up. ——— ES

Scale: 1 square =_____ Emily Jones

1120 - Used multiRAE pro to confirm that the oxygen sensors in A6 & A7 are reading incorrectly. MultiRAE Oxy was 20.9% & A6 29.9% A7 19.1%. Disabled Oxygen sensors on A6 & A7. ——— EJ

1140 - Truck arrives for unloading.

1406 - EJ ——— EJ

1230 - Set up Viper runs w/ SPM Flex 158 & SPM Flex 159 on gateway 350(159) and 351(158) using direct connect. Will plug in & Waterproof once ERS is done with clean up. ——— EJ

1406 - ERS dumping additional drums of batteries. ——— ES

1500 - ERS off site. All SPMS & Area Rigs on Short power. ——— ES

1530 - START Jones & OSC Jordan Offsite. ———

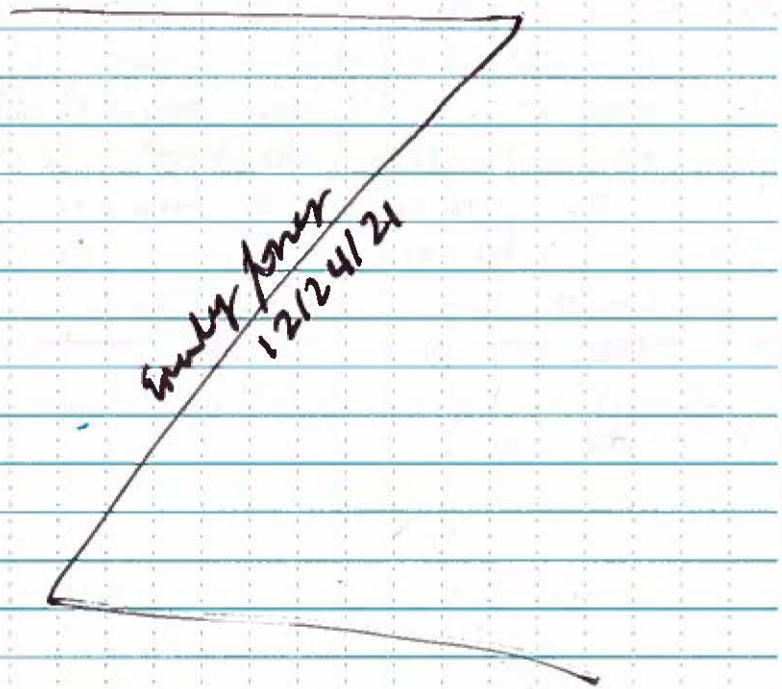
Emily Jones 12/23/21

Scale: 1 square =_____ Rain in the Rain

30 12/24/21 Jones

0900- START onsite to bump Area RAEs, all pass. 8PM Flex 158 disconnected from viper last night. Got it reconnected. HF Alarm was going off when START arrived due to offgassing overnight Flex got a reading of 9.562 ppm at 20:06. ——— ES

1000- START off site. ——— ES

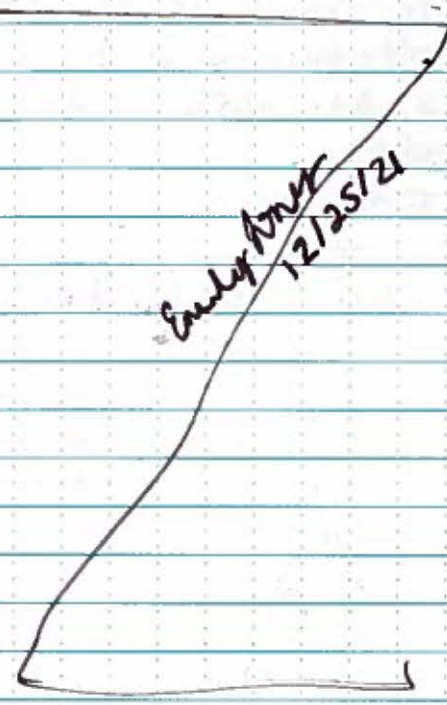


Scale: 1 square =_____

12/25/21 Jones 31

0930- START Jones onsite. Reconnected HF Flex to viper. No exceedance alarms going off. Conducted bump test on all AreaRAEs. All pass. TWA alarm on Area RAE 3 Cl2 Sensor. ——— EJ

1000- START offsite. ——— ES



Scale: 1 square =_____

Rite in the Rain.

12/26/21 Jones

1100- START onsite 107 comm failure alarm going off on HCl Flex. Needs new tape. Will replace on Monday. Reconnected HF Flex to Viper. ——— ES

1118- Collected water samples from both roll offs to test water quality at a later date.

1130- Conducted bump test on AFA area RAES. All pass except LEL on AreaRAE 1. Cl2 sensor still giving TWA alarm of location 7. ——— ES

1200- START Jones off site.

Emily Jones 12/24/21

Scale: 1 square =_____

12/27/21 Jones

0930- START Jones onsite. Bumped all AreaRAEs. All pass. ——— ES

1030- Troubleshooting VIPER for SPM Flex 158. Not communicating to remote desktop. ——— ES

1130- Reset 107 Alarm fault on SPM 159. Monitoring back up.

1200- Waterproof all equipment in anticipation for rain tomorrow.

1300- Calibrated Cl2 Sensor on AreaRAE 7. Reading correctly now.

1500- Went to warehouse to get Hex kit for gateway. Reset gateway and got remote connection going. Unable to get Flex 158 to communicate with gateway.

1630- START offsite. ——— ES

Emily Jones 12/27/21

Scale: 1 square =_____

Rite in the Rain

 12/29/21 Jones

0930- START onsite to trouble-shoot SPM viper issues & bump AreaRAEs. ——— EJ

1000- Flex needs to be replaced. Took down 158 to take back to warehouse. ——— EJ

1030- Bump test AreaRAEs LEL on location 1 fails, probably due to rain. ——— EJ

1045- All other locations pass bump test. ——— EJ

1130: going to warehouse to get new flex. START off site.

1230- START onsite Set up SPM 160 to monitor for HF. Water proofed station. ——— EJ

Weather- 63°/72° 97% chance of rain. Wind NE @ 3mph (variable).

1300- START offsite

Emily Jones
12/29/21

Scale: 1 square = _____

12/30/21 Jones

1100- START onsite.

Weather- 100% chance of rain / thunderstorms. Flood warning. 69°/60° Wind 4mph N.

1115: roll off 2 smoking. No HF Alarm, high HCl readings. Reconnected flex 159

1130- Bump test all AreaRAEs A2 LEL fails (rain?) A6 passes all. A7 fails SO_2 & Cl.

1145- Trouble shooting viper for Flex 160. Switched gateways. Same issue. ERT logs in to help.

1300- Switched gateway back to 351. ——— EJ

1400- ERT able to get 351 working on viper. ——— EJ

1430- Water proof set up.

1500- START off site. ——— EJ

Emily Jones
12/30/21

Scale: 1 square = _____

Rite in the Rain

12/31/21 Jones

0900- START onsite. Conducted bump tests on A1, A6, A7. A6 passes all. A1 LEL fails. A7 SO_2 & Cl fail. ——— ES

0915- Fire dept. onsite to check what's been happening.

Weather: 55/69. Cloudy w/ ~40% chance of rain at 1300. Variable/no wind. ——— ES

1000- Troubleshooting Viper for flex 160. Restart gateway, got run going again.

1030- START offsite. ——— ES

Emily Jones 12/31/21

Scale: 1 square =_____

01/01/2022 Jones

Weather- 75°/62° Scattered showers. 6-18 mph wind S/SW

1600- START onsite. Conducted bump tests on all AreaRAEs. A1 LEL fails- disabled sensors A1 sensors pass. A6 passes all. A7 SO_2 & Cl fail. All others pass. Changed power cord to ER 351. Viper running again.

1700- START Off site. ——— ES

01/01/2022 Emily Jones

Scale: 1 square =_____

Rite in the Rain

~~12~~ ET 01/02/2022 Jones

1200: START onsite. Flex 159 down. Fault 105 - high background levels. Reset alarms. Does not work. Optics need to be cleaned.

1230 - Conduct bump test. A1 pass; A6 passes; A7 SO_2 & Cl fail, all others pass. Will clean optics on Flex 159 tomorrow w/ compressed air. Will get new SO_2 & Cl sensors for A7. Weather - 71°/60°, scattered showers. Wind 6-10 mph S/SW.

1320 - START offsite. —— ES

01/02/2022
Emily Jones

Scale: 1 square = _____

01/03/2022 Jones

0900 - START onsite with OSC Vasser & Lane w/ ERS. Discuss site activities for the upcoming weeks. —— ES

1000 - Conducted bump test on A1, all pass. Tried cleaning Flex 159. Optics test passed. Still not collecting readings.

1030 - START PRGs onsite. Discuss issues w/ Flex 159 & A6/A7 sensors. Performed zero cal & span cal on A6 NO sensor & A7 SO_2/Cl_2 sensors. Now passing & working. — ES

1130 - Reconnected SPM 160 to Viper. DTIS coming to swap SPM 159 cassette. —— ET

1200 - Changed SPM 159 to 162 & set up a new run on Viper.

1300 - START offsite —— ES

Emily Jones
1/3/22

Scale: 1 square = _____

01/04/2022 Jones

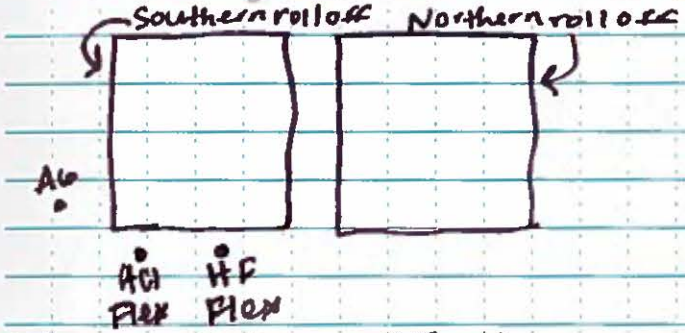
1000 - START onsite.
Weather - 49°/26° Sunny with light wind 7mph West. — ES
1020 - Conducted bump test on All AreaRAEs. All pass. Reconnecting SPM 160 to Viper. — ES
1100 - SPM 160 back on Viper. START offsite. — ES

Emily Jones 1/4/22

Scale: 1 square = _____

1/5/2022 Jones

0900 - START onsite.
0905 - conducted bump test on all AreaRAEs. All pass. NO TWA Alarm on A6.
0930 - Reconnecting SPM Flex 160 to Viper. — ES
Weather - 37°/54°, Partly cloudy in morning & sunny afternoon. Wind N/NW 3-5mph. — ES
1000 - SPM 160 reconnected to Viper.
1400 - START onsite to move equipment for ERS. Moved AreaRAE 1a closer to southern most rolloff & 3 SPMs to southern most rolloff



1500 - START offsite. — ES

1/5/22 Emily Jones

Scale: 1 square = _____

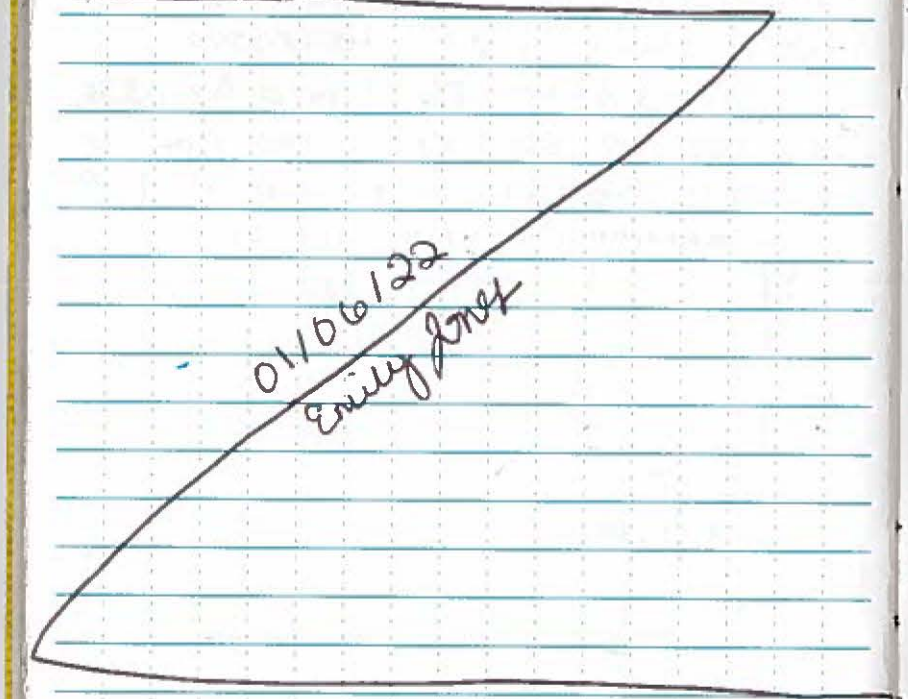
01/06/22 Jones

Weather- 55°/23° 90% chance of rain in the afternoon Wind SW@6mph. —— EJ

0900- ~~Bump~~ START onsite. Conducted bump tests on all AreaRAES, all pass.

0930- Reconnected SPM Flex 160 to viper. —— EJ

1000- START offsite. —— EJ



Scale: 1 square =_____

01/07/22 Jones

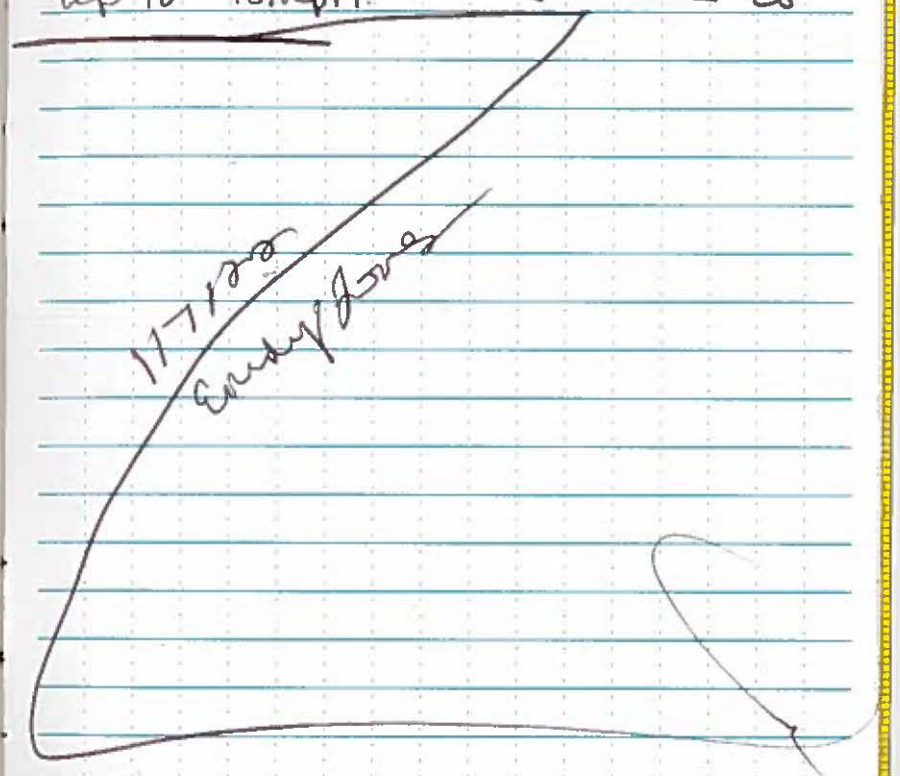
0930- START onsite. —— EJ

0940- Conducted bump test on all AreaRAEs. All pass. —— EJ

1000- Reconnect SPM 160 to viper —— EJ

1030- START offsite. —— EJ

Weather- 27°/40° Sunny Wind WNW@ 8mph. Wind gusts up to 18mph. —— EJ

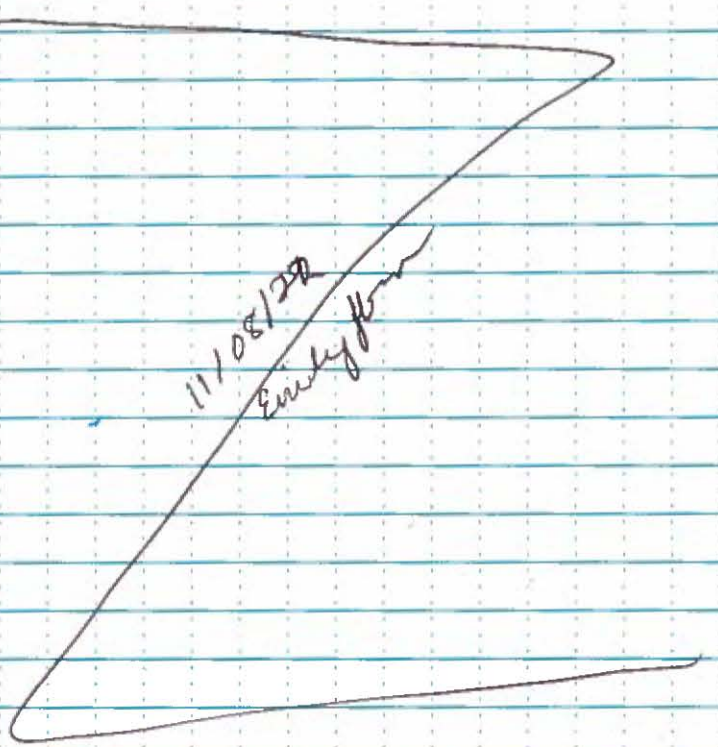


Scale: 1 square =_____

Rite in the Rain.

01/08/22 Jones

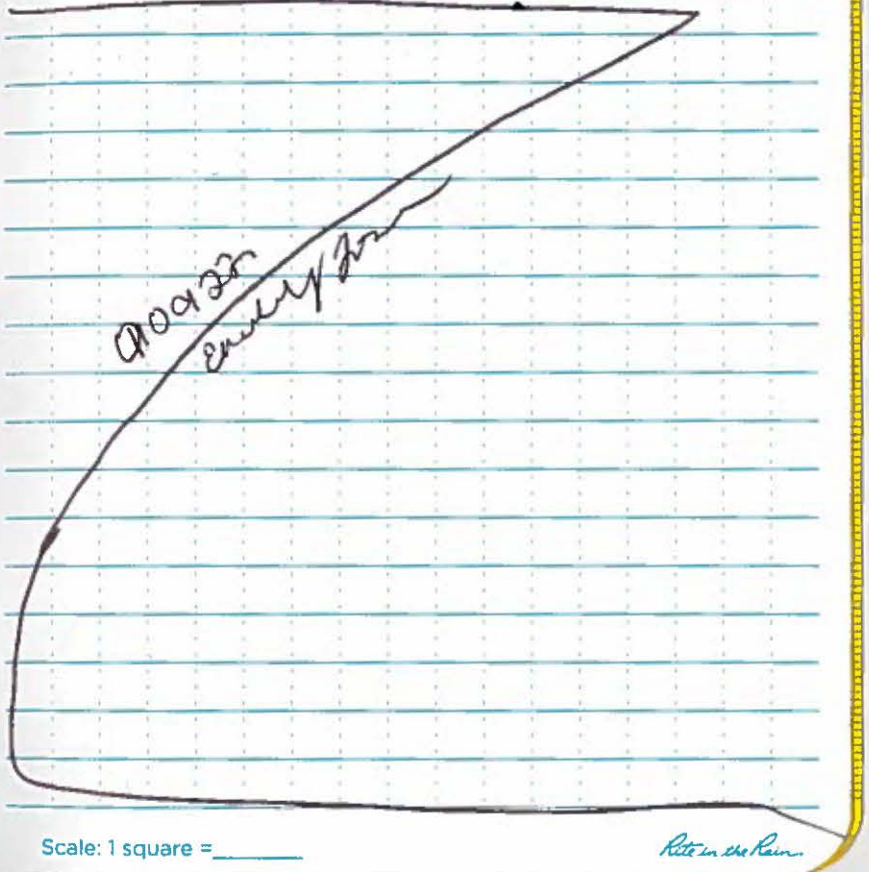
Weather: 27/50. Sunny
Wind W @ 9-10 mph. ——— ES
0800- START onsite. Conduct bump test on all AreaRAEs all pass. ——— ES
0845- Reconnecting Flex 160 to viper. ——— ES
0900- START offsite ——— ES



Scale: 1 square =_____

01/09/22 Jones

1130- START onSite.
Weather: 34°/58° 100% chance of rain at 1800. Scatered Storms prior.
Wind WNW@ 5 mph. ——— ES
1200- Conducted bump test on All areaREAS; all pass. Reconnecting Flex 160 to viper. ——— ES
1230 START Offsite ——— ES



Scale: 1 square =_____

Rite in the Rain

46 01/10/22 Jones

1000 - START onsite. Conducted bump test on All Area RAEs. All pass.

1030 - Reconnecting SPM Flex 160 to Viper. ——— ET

1100 - START Offsite ——— ET

Weather - 33°/52° Sunny all day. Wind NW @ 7mph ——— ET

11/10/22 Emily Jones

Scale: 1 square =_____

01/11/22 Jones 47

Weather - 28°/48° Sunny Wind E@5mph

0915 - START onsite. Conducted bump test on all Area RAEs. All pass. Reconnect SPM 160 to Viper. ——— ET

0915 - Bryan Vasser & Steve Druske onsite. ——— ET

0920 - START offsite. ——— ET

01/11/22 Emily Jones

Scale: 1 square =_____

Rite in the Rain

48 01/12/22 Jones

0830 START onsite. Conducted bump test on all Area RAEs. All pass. ——— EJ

0920 - START offsite. ——— EJ

01/12/22 Emily Jones

Scale: 1 square = _____

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Rite in the Rain®

DEFYING MOTHER NATURE

USE WET OR DRY
most pens stop writing when wet
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- *RITE IN THE RAIN PENS*
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WHEN DRY ONLY
what you write won't wash off
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water-based inks bead off sheet
- GEL PENS
- MOST HIGHLIGHTERS
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Yes, *Rite in the Rain* is a wood-based & recyclable paper, but unlike plain paper... it won't turn to mush when exposed to:

ALL-WEATHER TOUGH!

BRAND HISTORY

The *Rite in the Rain* story began a century ago in the forests of the Great Pacific Northwest. Entrepreneur Jerry Darling recognized the logging industry's need for a durable material that could be written on and survive in poor weather conditions. Jerry developed a special coating that created a unique moisture shield on the hand-dipped sheets of paper that he and his wife, Mary, processed at their home. From these humble beginnings our first all-weather paper was born. Over the many years we've perfected and patented our environmentally responsible coating process. Still located in Tacoma, our continued mission is to provide innovative products for professionals and enthusiasts who brave the outdoors.

EQUIPPING MULTIPLE INDUSTRIES WORLD-WIDE

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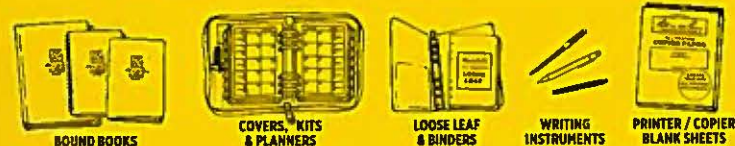

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ALL-WEATHER

FIELD

№ 351FX

Logbook 2 of 2

January 13, 2022

TO

March 8, 2022

INCH

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RiteintheRain.com

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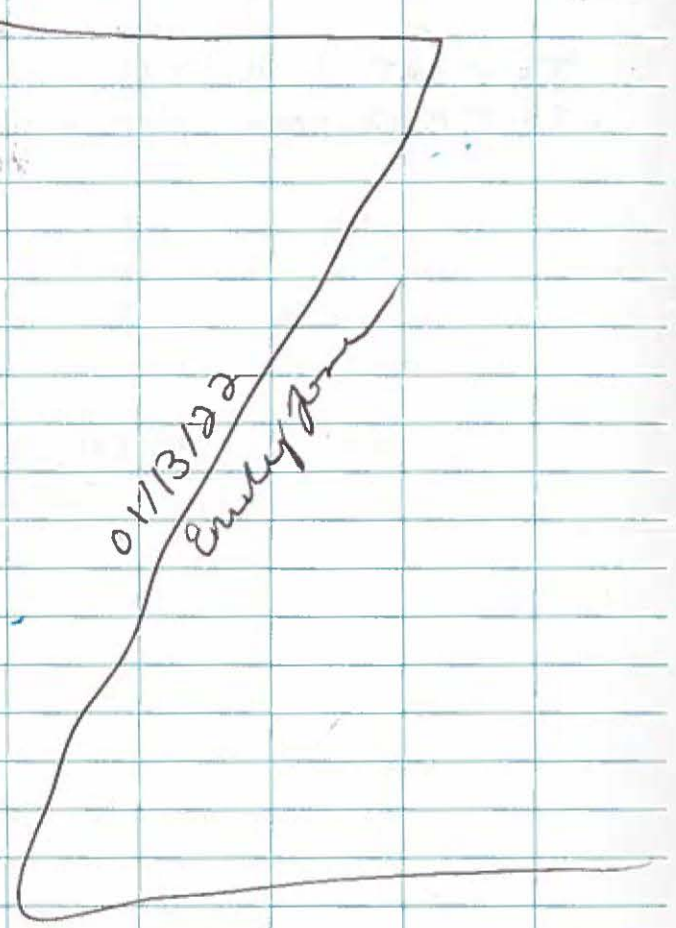
	EPA OSC Bryan Vasser	
	Tt START Paul Prys	
	Tt START Emily Jones	

01/13/22 Jones

0830 - START onsite. Conducted bump test on all AreaRAES. All pass. ES

0915 - START offsite. ES

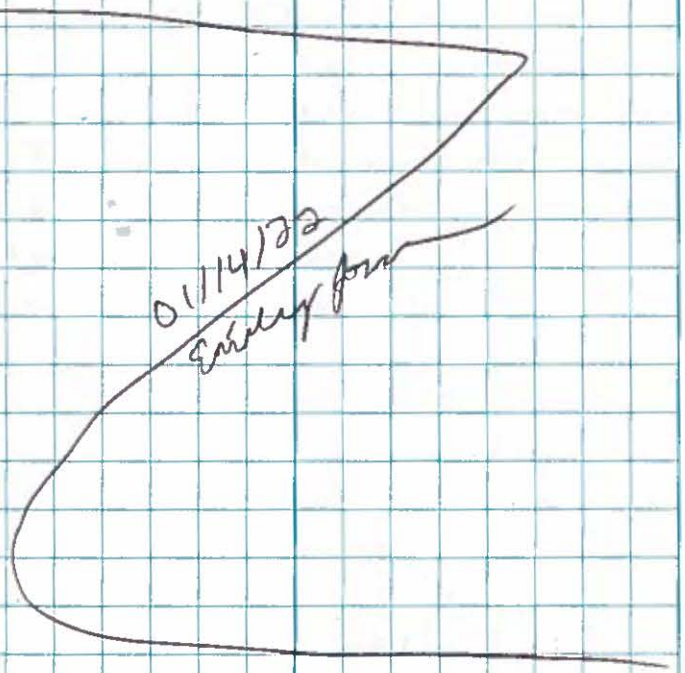


01/14/22 Jones

0900 - START onsite. Conducted bump test on all AreaRAES. AreaRAE by stairwell fails VOC. Took to fresh air & did fresh air cal & bump. passes. All others pass.

0930 - Reconnect SPM flex 160 to viper. ES

0945 - START offsite. ES



Rite in the Rain

4 1/15/22 PRYS

WEATHER: High of 50°F, Cloudy, Winds from East at 10-15 mph.

0830 START PRYS on-site. Conducted bump check of All 3 AREARAES. And Rebooted EPAERT351 to continue HF monitoring of SPM FLEX 160. All AREARAES passed the bump check and EPAERT successfully rebooted.

0930 START PRYS was offsite.

1800 START PRYS on site. SPM FLEX 160 was down. Rebooted EPAERT 351 and SPM FLEX 160 was reconnected.

1900 START PRYS was offsite.

Late Note: START PRYS collected a composite water sample from the 2 roll offs with the submerged batteries. Sample LPLBF-WW-LOI-01122 was collected at 1340 on 1/15/22 using a bailer and the volume collected was split between the 2 roll offs. Originally, OSC Unsser requested a water sample be collected from the southern roll off and a sludge sample be collected from the bottom of the northern

1/15/22 PRYS 5

Late Note: Roll off. START PRYS was unable to collect the sludge sample due to the number of batteries in the bottom of the roll off. OSC Unsser requested the sample to be collected as a composite. The sample was analyzed for the following:

- VOCs collected in 3, 40-ml unpreserved VOA vials
- SVOCs collected in 2, 1-liter unpreserved Amber bottles.
- RCRA 8 metals collected in a 500-ml HDPE bottle preserved to pH<2 with Nitric Acid.
- pH, Flashpoint, Reactive cyanide/sulfide, TSS, % solid, % water, chlorine, Fluoride collected in 2, 1-liter amber bottles, unpreserved.

Samples were delivered to AES for analysis.

1/15/22

Rite in the Rain

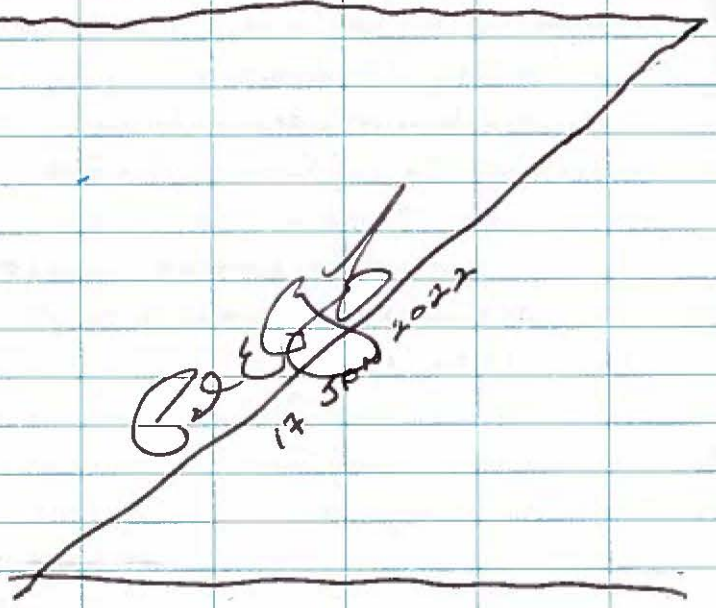
6 1/17/22 PRys

WEATHER: High of 36°F, Cloudy, Winds from West at 10-20 mph. (FF)

1000 START PRys on site. Conducted bump check of the ARGARAES AND RGbooted EPAERT 351 to continue HF monitoring of SPM FLEX 160. All ARGARAES passed the bump check AND EPAERT 351 successfully RGbooted. (FF)

1200 START PRys offsite. (FF)

LATE Note: ARGARAES were not bump checked AND EPAERT 351 was not RGbooted on 1/16/22 DUE to SNOW AND FREEZING RAIN in the AREA. (FF)

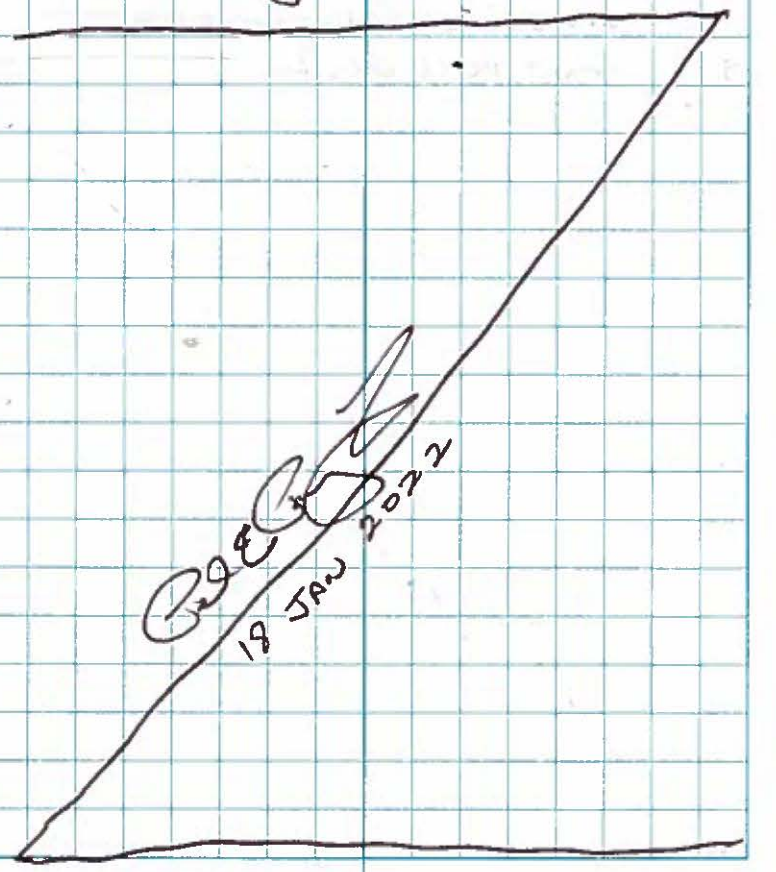


1/18/22 PRys 7

WEATHER: High of 53°F, Partly Cloudy, Winds light AND VARIABLE. (FF)

0830 START PRys on site. Conducted bump check of all 3 ARGARAES. All ARGARAES passed the bump checks. (FF)

0900 START PRys offsite. (FF)



Rite in the Rain

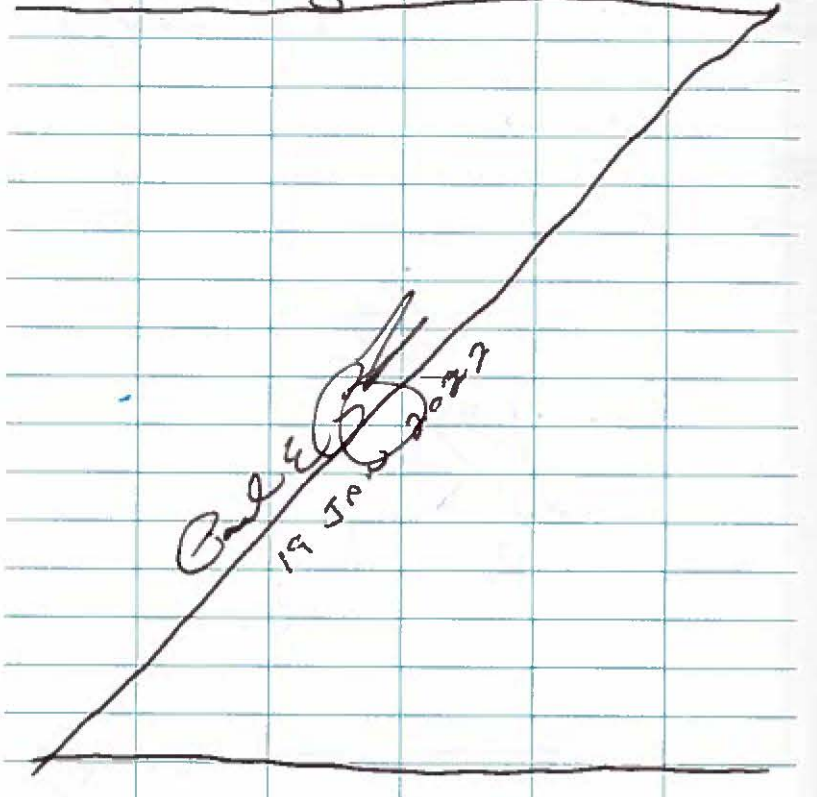
1/19/22 Prys

WEATHER: High of 62°F, cloudy, winds from South up to 10 mph (PT)

0830 START PRYS on site. Conducted bump test of all 3 AREARAES AND REBOOTED EPAERT 351 to continue HF monitoring with SPM FLEX 160. All AREARAES passed bump check and EPAERT 351 was successfully rebooted.

0930 START PRYS offsite. (PT)

Paul E [signature] 19 JAN 2022



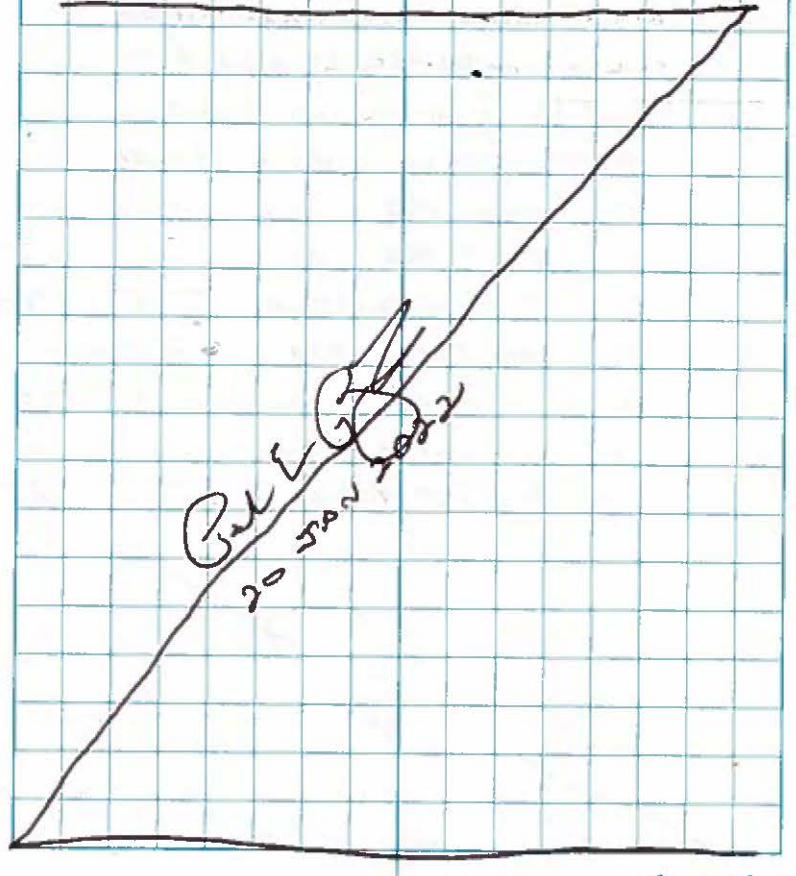
1/20/22 Prys

WEATHER: High of 51°F, 95% chance of RAIN, winds from northwest at 10-15 mph (PP)

1630 START PRYS onsite. Conducted bump check of all 3 AREARAES. All AREARAES passed bump check.

1700 START PRYS offsite. (PP)

Paul E [signature] 20 JAN 2022



Rite in the Rain

1/21/22 — Phys

WEATHER: High of 38°F, cloudy, winds from northwest at 5-15 mph

0900 START PHYS ONSITE. BUMP CHECKED ALL 3 AREGARAES AND REBOOTED EPAERT 351 to continue HF monitoring with SDM FLEX 35[illegible] 160. SUCCESSFULLY REBOOTED EPAERT 351 AFTER 2 ATTEMPTS. AREGARAES DID NOT PASS bump checks AND NEEDED NEW FILTERS. START PHYS CONTACTED EPA BASHA FOR ASSISTANCE. EPA BASHA SAID THEY would calibrate the equipment and change out the FILTERS. PP

1000 START PHYS WAS offsite. PP

LATE NOTE: EPA BASHA ARRIVED ONSITE LATER IN THE MORNING AND CALIBRATED THE EQUIPMENT AND CHANGED OUT THE FILTERS FOR THE AREGARAES. PP

21 JAN 2022

1/22/22 — Phys

WEATHER: High of 45°F, sunny, winds from northwest at 5-10 mph.

1145 START PHYS ONSITE. CONDUCTED bump check of all 3 AREGARAES AND REBOOTED EPAERT 351 to continue HF monitoring with SDM FLEX 160. START PHYS HAD ISSUES BUMP CHECKING THE AREGARAES, POSSIBLY DUE to cold calibration GASES. EVENTUALLY ALL AREGARAES PASSED the bump check. EPAERT 351 successfully REBOOTED AFTER 3 ATTEMPTS. PP

1445 START PHYS offsite. PP

22 JAN 2022

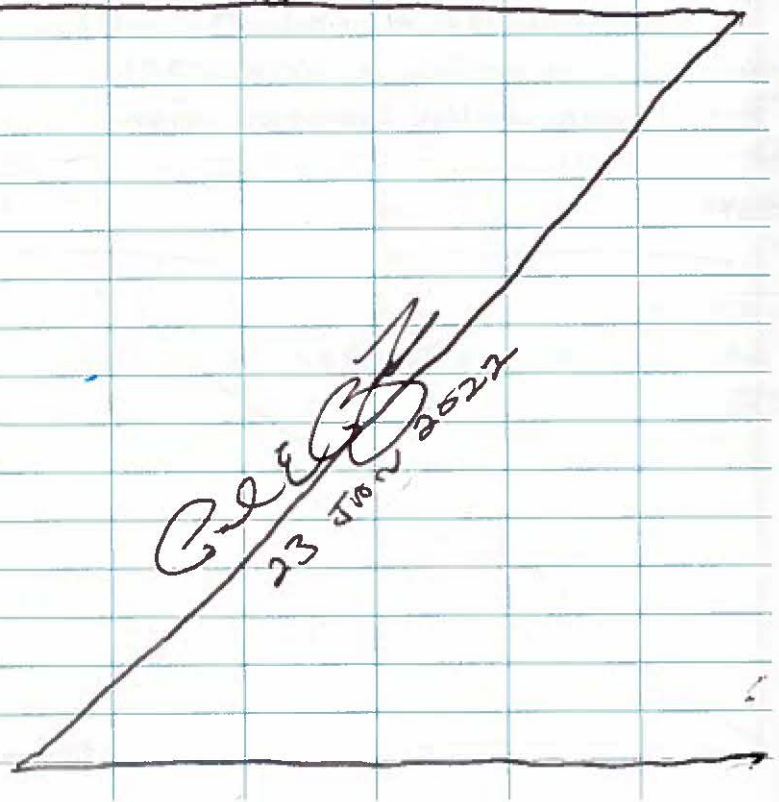
Rite in the Rain

12 1/23/22 PRys

WEATHER: High of 51°F, Sunny, Winds from west northwest at 10-15 mph.

1030 START PRys onsite. Conducted bump test of all 3 AREARAES and rebooted EPAERT351 to continue HF monitoring with SDM FLEX160. All AREARAES passed the bump test and EPAERT351 successfully rebooted after 3 attempts.

1130 START PRys was offsite. (PP)

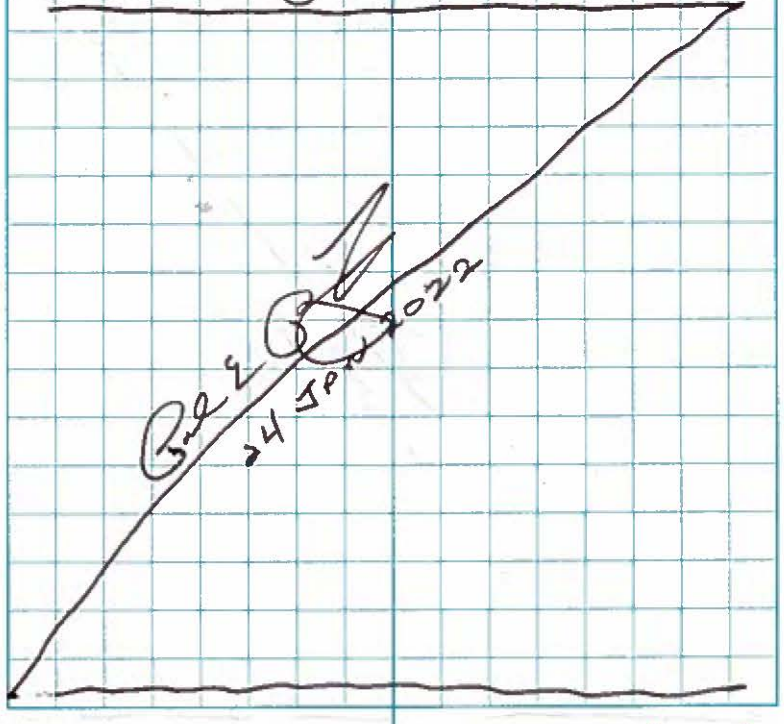


13 1/24/22 PRys

WEATHER: High of 51°F, Sunny, Winds From west at 5-10 mph. (PP)

1030 START PRys onsite. Conducted bump check of all 3 AREARAES and rebooted EPAERT351 to continue HF monitoring with SDM FLEX 160. All AREARAES passed bump tests and EPAERT351 successfully rebooted after 2 attempts.. (PP)

1140 START PRys offsite. (PP)



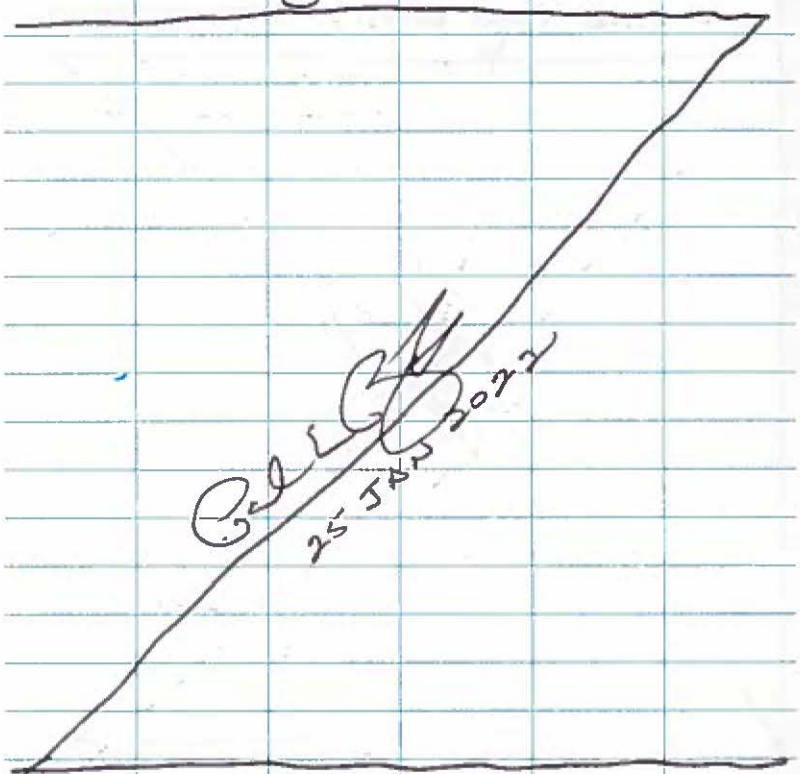
Rite in the Rain

14 1/25/22 PRGS

WEATHER: High of 58°F, Cloudy, WINDS From West northwest at 5-10 mph

0835 START PRGS onsite. Conducted bump check of all 3 AREARAES and rebooted EPAERT351 to continue HF monitoring with SPM FLEX 160. All AREARAES passed the bump test and EPAERT351 successfully Rebooted. (PP)

0915 START PRGS was offsite. (PP)



15 1/26/22 PRGS

WEATHER: High 53°F, Sunny, Winds from North Northwest at 5-10 mph

0750 START PRGS on site. Conducted bump test of all 3 AREARAES and rebooted EPAERT351 to continue HF monitoring with SPM FLEX 160. All AREARAES passed the bump test and EPAERT351 successfully Rebooted. (PP)

0825 START PRGS offsite.

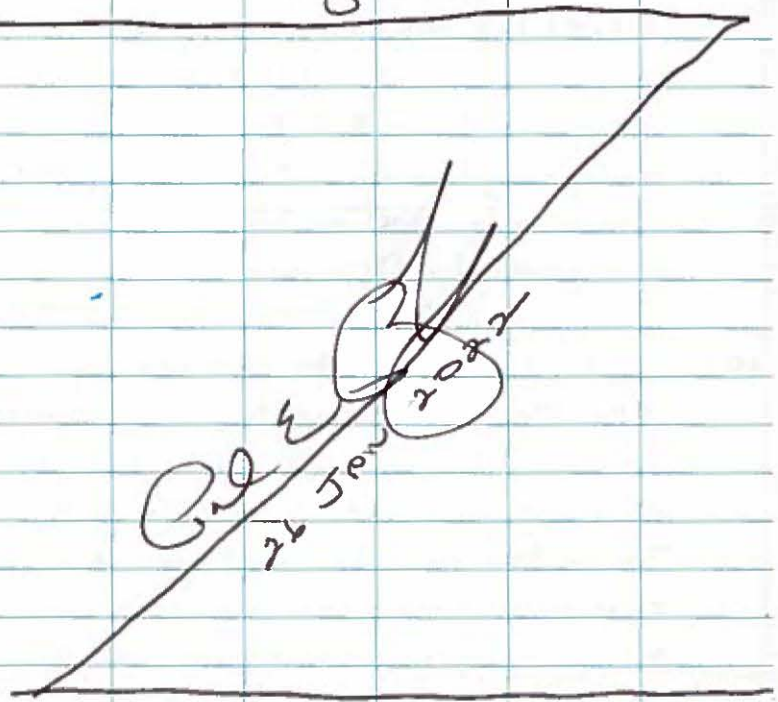
1330 START PRGS on site. Picked up EPAERT350, EPAERT351, and SPM FLEXES 160 and 162. to build to the EPA warehouse. Will Retween EPAERT351 and 354 for a new smart gateway. Connected SPM FLEX 160 to EPAERT350 via Link 160 (SPM Link) and began a new VIPER Run. (PP)

1530 Returned to site and set up SPM FLEXES in their same locations. SPM FLEX 162 was operating, but SPM FLEX 160 was not. Contacted EPA Basha for assistance. Began a new run but sit (PP) SPM FLEX 160 was still not working. START PRGS

Rite in the Rain

1530 WENT into the meter APPS for SPM FLEXES 160 AND 162 AND OPENED the DATA INPUT SETTINGS for EACH. THERE WAS A DIFFERENCE IN the "SEPARATE LINE" AND "default GPS default" IP ADDRESSES. CHANGED THESE IP ADDRESSES to match SPM FLEX 162 IP ADDRESSES, CLOSED SPM FLEX 160 APP, AND it connected AFTER Rebooting. PP

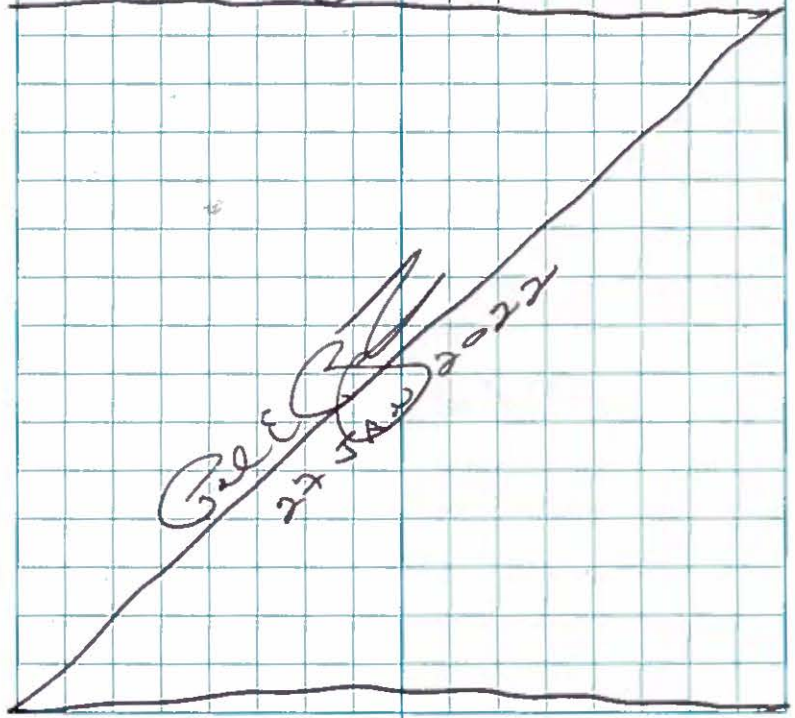
1650 START PRYS offsite. PP



WEATHER: High of 52°F, Sunny, WINDS Light AND VARIABLE PP

1125 START PRYS on site. HCl chemcassette for SPM FLEX 162 RAN out EARLY IN the morning. REPLACED HCl chemcassette AND RESUMED HCl monitoring using SPM FLEX 162. Conducted bump check of all SENSORS AND All PASSED. PP

1225 START PRYS offsite. PP



Rite in the Rain

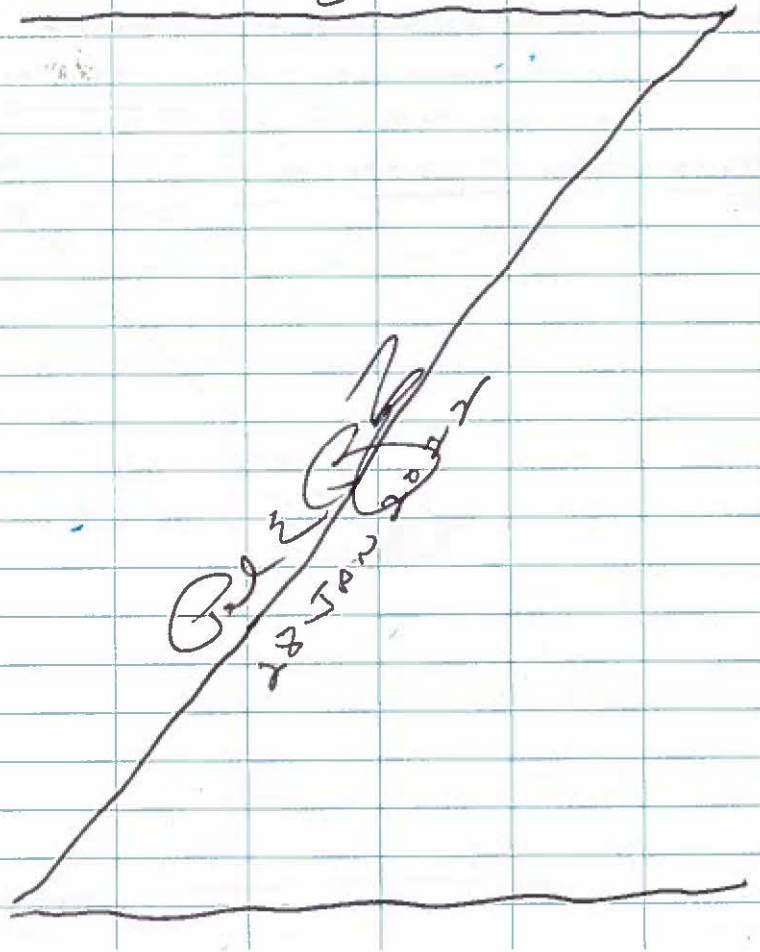
1/28/22 Prys

WEATHER: High of 47°F, Cloudy, Winds from west northwest at 10-20 mph

1315 START PRYS on site. Conducted bump check on all 3 AREARAES AND all 3 passed. — PC

1345 START PRYS offsite. — PC

28 JAN 2022

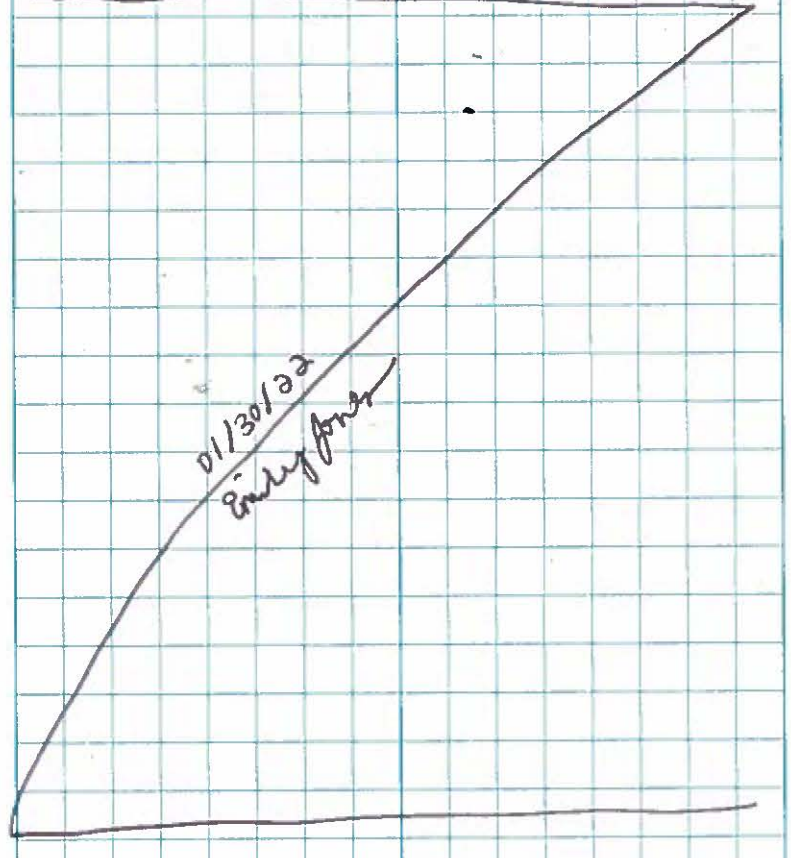


1/30/22 Jones

Weather: 29°/54°, Sunny, Wind WSW at 7mph w/ wind gusts up to 21mph.

1200 - START Jones onsite. Conducted bump test on all 3 AreaRAEs and all 3 passed. — EJ

1230 - START Jones offsite. — EJ



01/30/22
Emily Jones

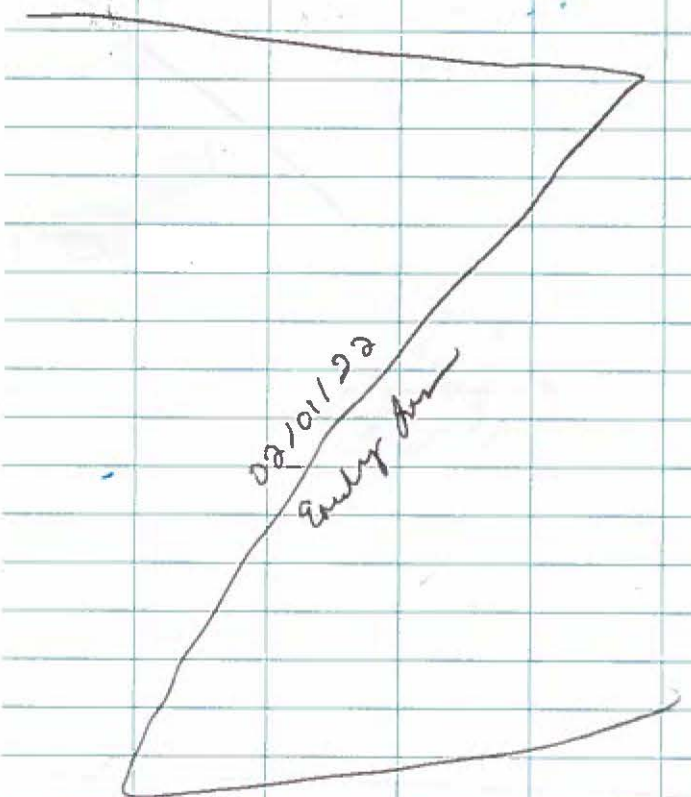
Rite in the Rain

20 02/01/22 Jones

Weather: 29°/51° Clear. Wind W@ 6mph

~~06~~ 1830 - START Onsite Conducted bump test on all AreaRAEs. K Location 1 & ~~5~~ 6 pass. Location 7 failed H2S & CO cal. Performed fresh air cal & span cal. Both pass. ——— EJ

1914 - START Offsite ——— EJ

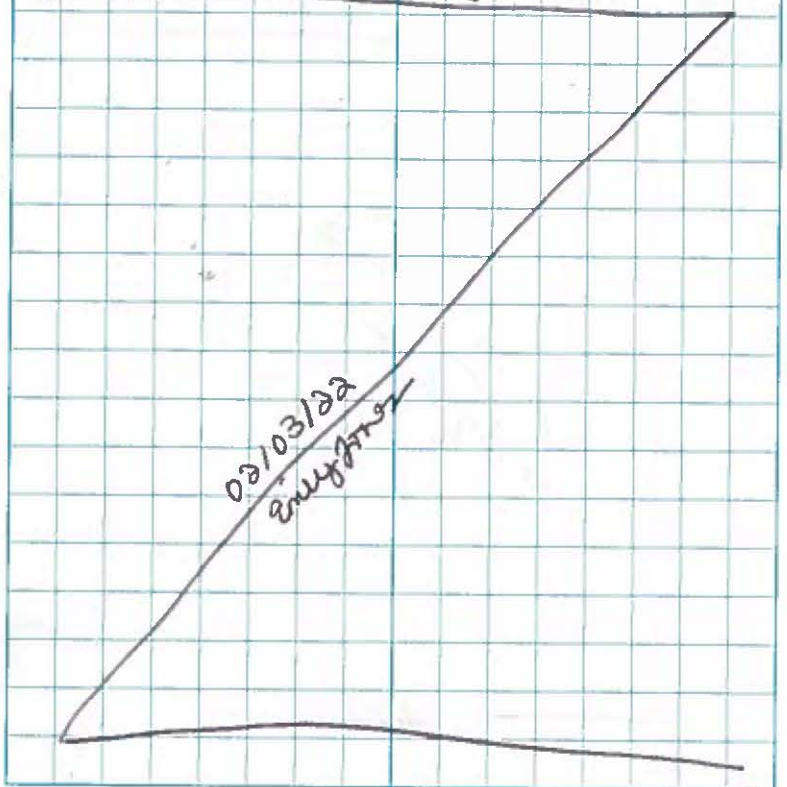


02/03/22 Jones 21

~~1745~~ EJ Weather - 44°/64°. Light rain all day. Wind S/SE at 3-12mph.

1745 - START Jones onsite. Conducted bump test on all 3 AreaRAEs. Location 1 & 7 pass. Location 6 H2S & CO fail. START will troubleshoot tomorrow when it's not raining. ——— EJ

1830 - START Jones Offsite. ——— EJ



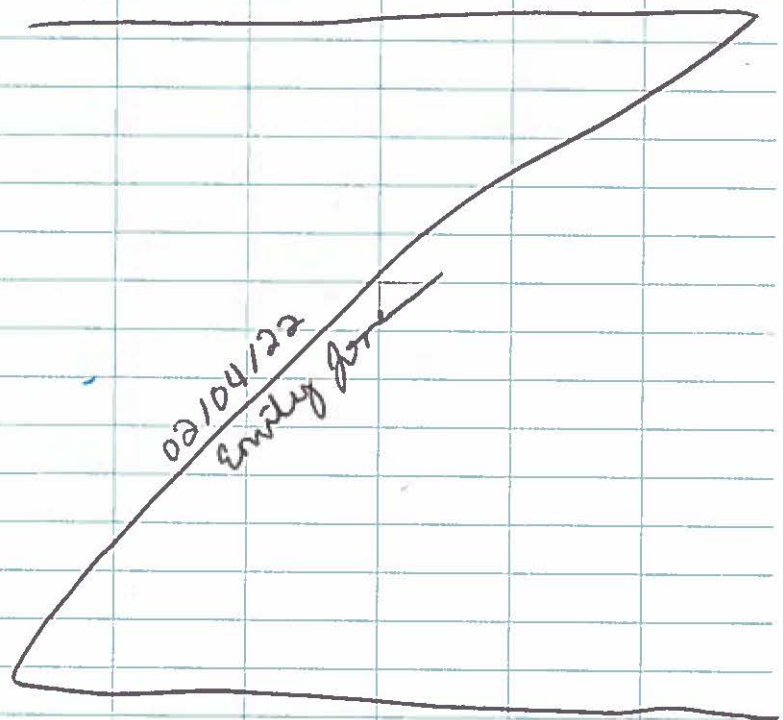
Rite in the Rain

22 02/04/22 Jones

~~1230~~ 1231 Weather - 27°/48° Scattered showers, Wind WNW @ 9mph. ——— EJ

1230 - START Jones onsite. Take location 6 AREA RAE to fresh air & perform fresh air cal. All sensors pass. Conducted VOC bump test which passes. ND bump passes. H2S & CO span cal & bump test pass. ——— EJ

1320 - START offsite. ——— EJ

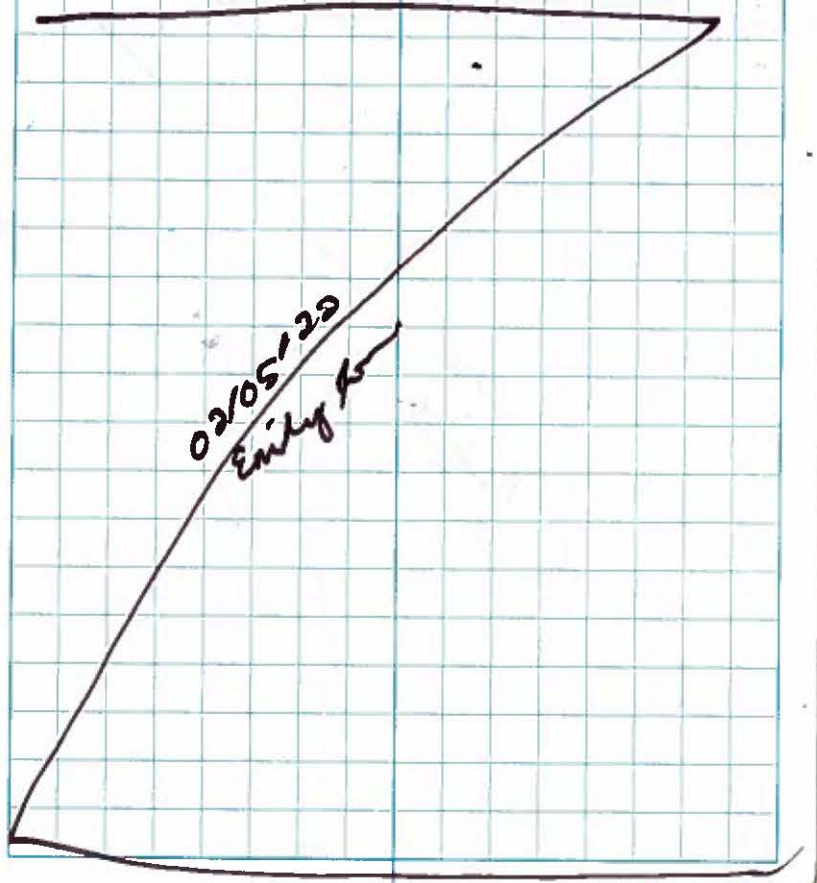


02/05/22 Jones 23

Weather - ~~33°/51°~~ EJ 31°/51°, Sunny Wind east/northeast 8-14mph.

1830 - START Jones onsite. Conducted bump test on all AREARAEs. Locations 1 & 7 pass. Location 6 CO fails due to cold gas. ——— EJ

1900 - START offsite. ——— EJ



Rite in the Rain

24 02/07/22 Jones

Weather - 50°/32°, Mixed sun & clouds. Wind NW @ 5mph. ——— EJ

1000 - START Jones and Prys onsite. Changed empty chemcassette on SPM 160 to 90-day tape Conducted bump test on all AreaRAEs. All pass.

1040 - START offsite. ——— ES

02/07/22
Emily Jones

02/09/22 Jones

Weather - 33°/61°. Sunny. Wind E @ 10mph.

0930 - START Jones & Godbee onsite Conducted bump test on all AreaRAEs. all pass. Conducted span cal for VOC at location 7, passes. ——— EJ

1000 - START Offsite. ——— ES

2/9/22
Emily Jones

Rite in the Rain

2/12/22 Prys

Weather: High of 70°F, Sunny, Winds from West Southwest at ~~5~~-10mph

0920 START Prys on-site. Conducted bump check of AreaRAE Pros. AreaRAE at Location 3 was off due to the extension cord being slightly detached from the unit, and the battery ran out. START Prys reattached the connection and let the battery recharge for 30 min. The AreaRAEs had minor issues passing the bump checks. START Prys EF. returned to the office to get new filters for the units. After changing the filters, the AreaRAEs passed the bump checks. No data was collected at Location 3 from 2/11/22 to 2/12/22.

1120 START Prys offsites.

12 Feb 2022

~~1600~~ - ~~START~~ OS Weather - 30°/48° Wind NW @ 8 mph. Sunny. ——— EJ

1600 - START onsite. Conducted bump test on all AreaRAEs. All Pass.

1630 - ~~START~~ Offsite. ——— EJ

Emily Jones 2/14/22

Rite in the Rain

~~0000~~ Weather- 41°/65°. Cloudy. Wind NW 7mph.

1000- START onsite. Conducted bump test on all AreaRAEs. All pass. ERs onsite draining water from southern most roll off to Northern roll off to prepare for rain.

1030- START offsite. ——— EJ

1230- SPM 160 down due to high background fault. ——— EJ

1400- START Jones & START Phys onsite to troubleshoot SPM issues & give Basha a tray from ~~one of the~~ 2 AreaRAE location 7. ——— EJ

~~1415~~ 1415 Reset SPM fault & reconnected to viper. ——— EJ

1420- START offsite ——— EJ

Emily Jones 2/16/22

~~0900~~ Weather- 33°/62° Sunny with cloudy conditions in the afternoon. Wind S/SE at 7-12mph.

0900- START Jones & Phys onsite. AreaRAE location 1 down due to power disconnection. Reconnected & let charge. Conducted bump tests on locations 6 & 7 & both pass. Stopped SPM run on viper & moved both SPMs to one tray next to the southern roll off and AreaRAE location 6. Reconfigured extention cords to reduce tripping hazard and connected all instruments to short power. Set up SPM 160 & 162 run on viper. Bump tested AreaRAE location 1, passes. Basha updating EPA ERT 350, will set up run when done.

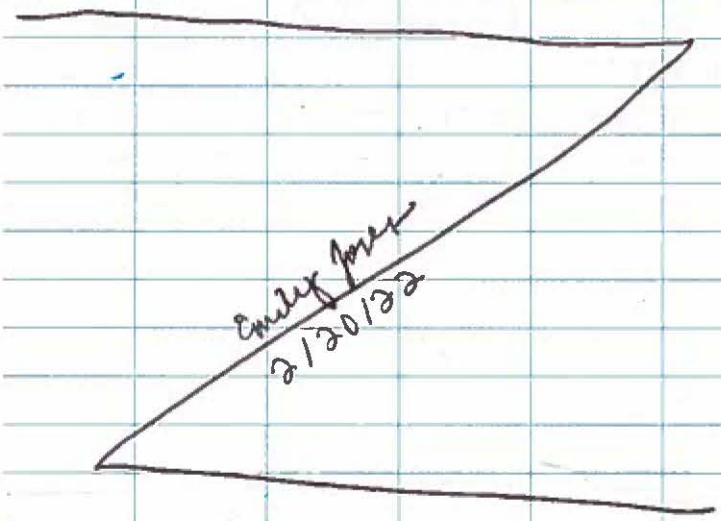
1130 START offsite. ——— EJ

2/18/22 Emily Jones

Rite in the Rain

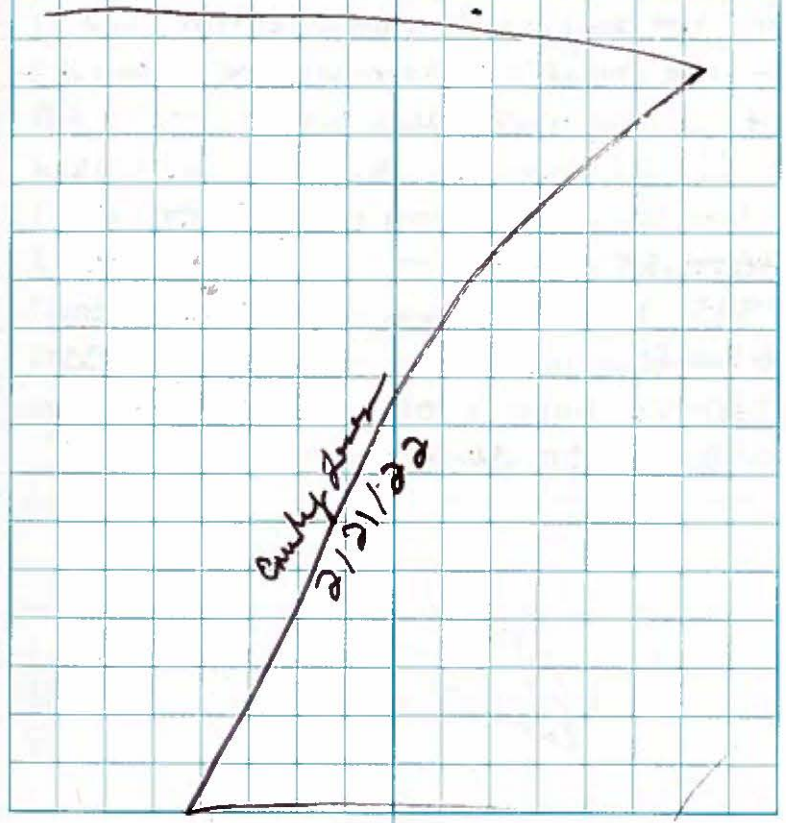
30 2/20/22 Jones

Weather- 57°/28°. Sunny. Wind ESE 2-8mph.
1100- START onsite. Conducted bump test on all AreaRAEs. All pass. SPM Flex 160 displaying 105- High background fault. Reset alarm and used compressed air to clean optics. Conducted optics verification and it passes. ——— EJ
1145- START offsite. ——— EJ
1440- START onsite due to SPM Flex 160 disconnecting from viper. Started new run to re-register run to Lakes Parkway Deployment. Restarted run and Linc. 160. SPM Flex 160 now communicating w/ viper.
1530- START offsite. ——— EJ



2/21/22 Jones 31

Weather- 38°/58°. Cloudy. 50% chance of rain at 1500. Wind W 8 mph.
1000- START onsite to troubleshoot SPM Flex 160 high background fault. Cleaned optics lens and slightly advanced tape. SPM 160 now back in monitoring mode. ——— EJ
1030- START offsite ——— EJ



Rite in the Rain

32 2/22/22 Jones

Weather- 51°/74° Cloudy. Wind W/NW 6mph. ——— EJ

0730- START onsite. Conducted bump test on all AreaRAEs. All pass. Flex 160 down due to high background fault. Reset.

1000- OSC Booth onsite. ——— EJ

1100- ERS (STEVE & LANE) onsite. Plan for the day is to pump water out of the rolloffs. Water will be disposed of as non-hazardous waste. ——— EJ

1330- ER begins pumping water from southern roll off into ~~IBC totes~~ EJ totes. ——— EJ

1345- Placed corrosive filter onto SPM Flex 160 ——— EJ

1530- ER filled 4 totes w/waste water.

1540- START offsite. ——— EJ

2/22/21
Emily Jones

2/23/22 Jones 33

0830- START, OSC Booth, & ERs onsite

Weather- 71°/58°. Rain in the morning. Cloudy in the afternoon. Wind NE 8-10mph. ——— EJ

0930- ER pumping water from rolloff to IBC totes. ——— EJ

1030- ER finished pumping water into totes. Will begin packing batteries after lunch. START conducted bump test on all AreaRAEs. Locations 6 & 7 pass. Location 1 failed H2S bump. Changed moisture filter, did fresh air cal and span cal. Passed the fresh air, but failed span cal. Turned sensor off for the time being. ——— EJ

1230- Basha onsite to trouble shoot AreaRAE 1 H2S sensor. Water got into the sensor, so Basha will have to take it back to the warehouse. AreaRAE 11 will replace.

1340- Set up AreaRAE 11 on Viper & started a new run. ——— EJ

1400- ER bagging batteries.

Emily Jones

Rite in the Rain

1615- ER stops packing batteries and prepares to leave. Batteries that were packaged in bags (1 batt. per bag) and then put into totes & 6 gal. buckets are being stored in the northern most conex box. ER closed the rollotf and covered it. ——— EJ

1700- START offsite. ——— EJ

2/23/22
Emily Jones

Weather- 57°/73°. Cloudy. Wind 3-5 mph East. ——— EJ

0830- Jones and Jin on site

0900 - Conducted bump test on all AreaRAEs. Location 1 passed. Location 6 H2S span cal passed. 3 all sensors passed bump. Location 7 Cl_2 failed bump; passed span then passed bump. All other sensors passed bump. ——— EJ

ER, OSC Krull & OSC Vasser onsite.

0930 - ER continues bagging batteries.

1030 - ER packing loose batteries in drums w/ ~3" layers of cell block between each layer of batteries. ER recording weights. OSC Vasser offsite. START Jin offsite. ——— EJ

1130- ER now has 5 crew members onsite to assist w/ packing. ——— EJ

1300 ERs continues packing batteries. Placing larger batteries into 6 gal buckets before putting them in drums.

1330- For large batteries ER is placing a 3" layer of cell block

Emily Jones

Rite in the Rain

2/24/22 cellblock lined Jones

into a 55gal drum & layering batteries between 2" of cell block then topping off w/ 3" of cell block. Smaller bagged batteries go into a plastic lined drum and follow the same layering procedure. —— ES

1600- ERs packed 87 drums (4 small battery, plastic lined and 3 cellblock lined, big battery). —— ES

1630- ER Staging packed batteries in the north western corner of the parking lot.

1700- START offsite. —— ES

2/25/22 Jones

0815- START Jones, ER, & OSC Geoie onsite. Conducted bump test on all AreaRAEs. Location 6 & 7 needed span cal for Cl_2 sensor. All others pass. ER continues w/ activities from yesterday. Weighing batteries, bagging small ones and putting in cellblock layered drums w/ plastic lining. Large batteries in cellblock lined drums w/ cellblock layers between each battery. —— ES

1000- ER staging drums in northern most Conex box. Truck arrived for loading & ER had to stop activities.

1200- TOOK AreaRAE location 7 into fresh air bc NO TWA alarm is going off. Passed fresh air cal. Will leave out till lunch is over. —— ES

1220- did fresh air cal on locations 6 & put out in fresh air during lunch.

1430- ERs continues bagging batteries. Set up AreaRAE locations 6 & 7. TWA alarms would not turn off. —— ES

1620- START Prys collected samples from sandy sludge at the bottom of.

Emily Jones

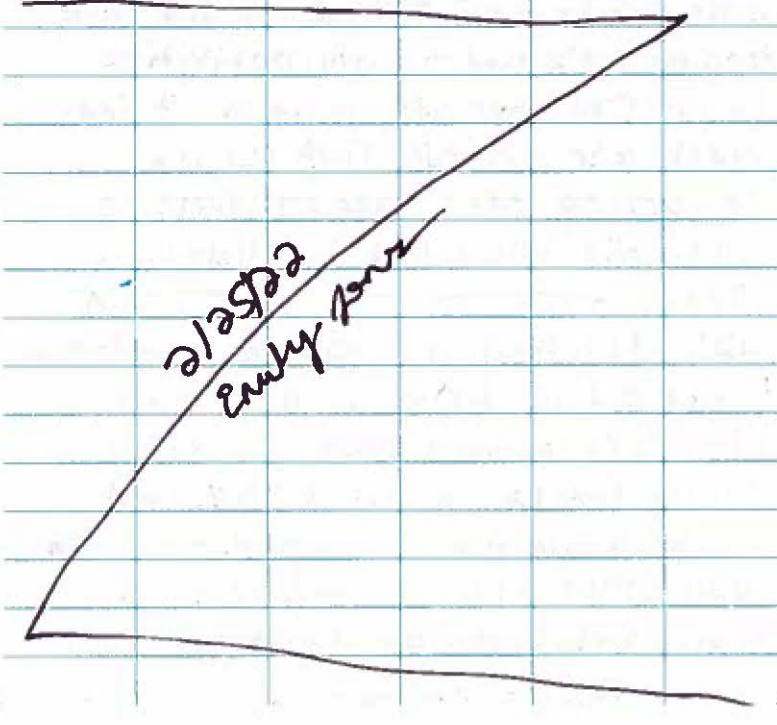
Rite in the Rain

2/25/22 Jones

Northern rolloff. Analysis: TCLP VOCs in 2 2-ounce jars, TCLP SVOCs in 1 4-ounce jar, TCLP metals in 1, 4-ounce jar. Will be taken to AES this evening. ——— EJ

1630 - ERs staging drums in northern most conex. Total of 20 drums packed so far. 7 cold recycle drums (cell block lined) 6 standard drums (plastic lined) packed today (13 daily total; 20 overall). ——— EJ

1700 - START offsite. ——— EJ

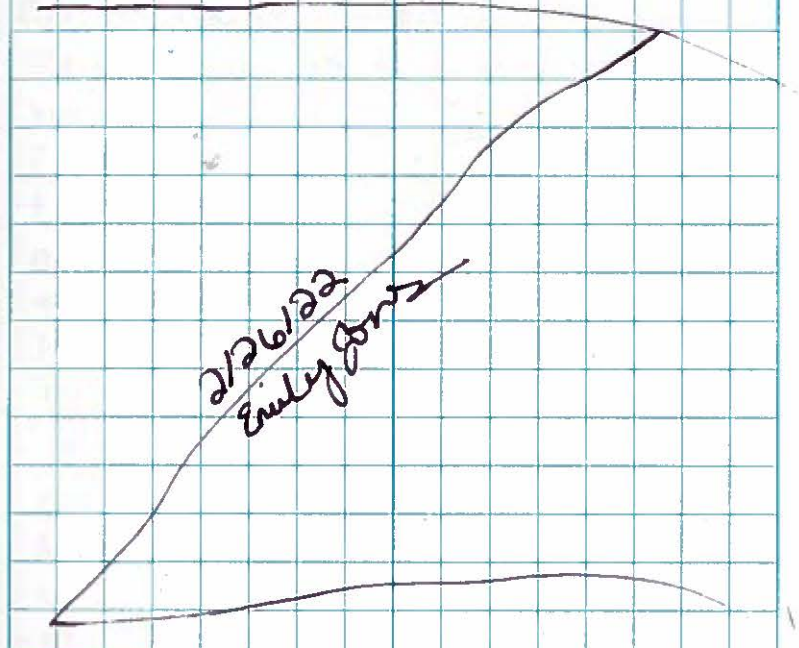


2/26/22 K Jones

Weather - 36°/62°. Mostly cloudy. Wind South 4-6 mph. ——— EJ

0830 - START. ERs. & OSC Booth onsite. Conducted bump tests on all AreaRAEs. All pass. Location 1 Oxy sensor reading low. Turned it off. Probably due to the cold weather. ERs cutting plastic around a big battery so it will fit in a drum. ——— EJ

1100 - ERs packed 4 drums so far. START offsite. ——— EJ

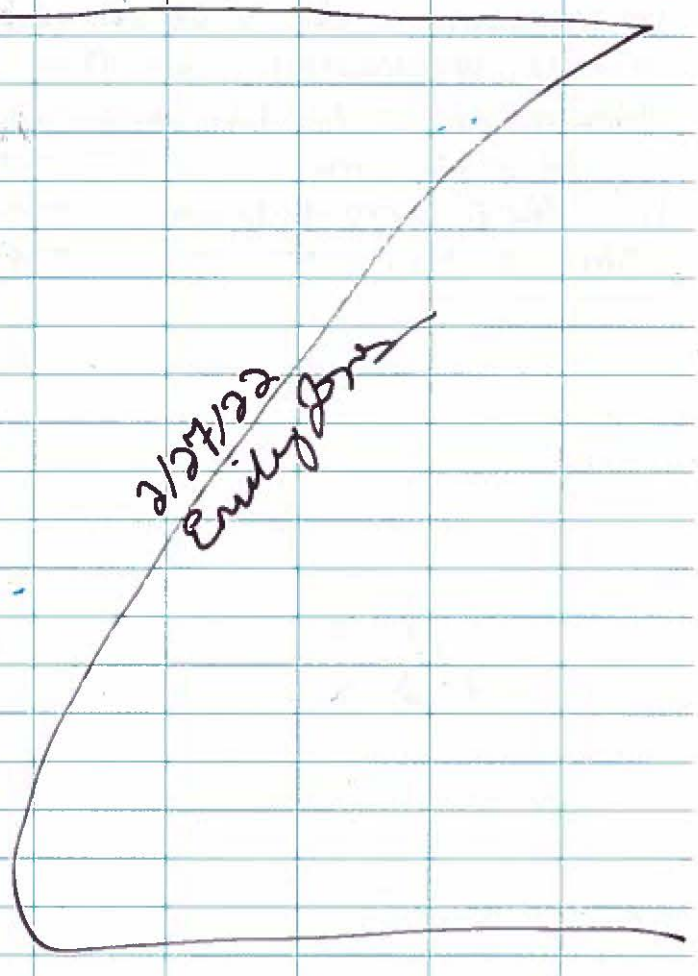


Rite in the Rain

 2/27/22 Jones

Weather - 45°/37°. Rainy in the morning. Wind W@8mph

1600 · START onsite to reconnect SPM 160 to viper. Put pack in monitor mode. STANS offsite



2/27/22
Emily Jones

2/28/22 Jones

Weather - 60°/41°. Cloudy
Wind W@ 4-6mph ——— EJ

0830 - START Jones, ERs, & OSC Booth onsite. SPM flex 160 down due to high background fault. Reset & put back in monitor mode. Conducted bump tests on all AreaRAEs Location 7 Cl2 failed bump. passed span cal. All others pass. ERs continues packing drums following the same protocol. So far 8 plastic lined drums & 27 cellblock lined drums (35 total) have been packed & stored in Conex. ——— EJ

1230 - SPM Flex 162: 104-Tape advance failure fault. Manually advanced tape. ——— EJ

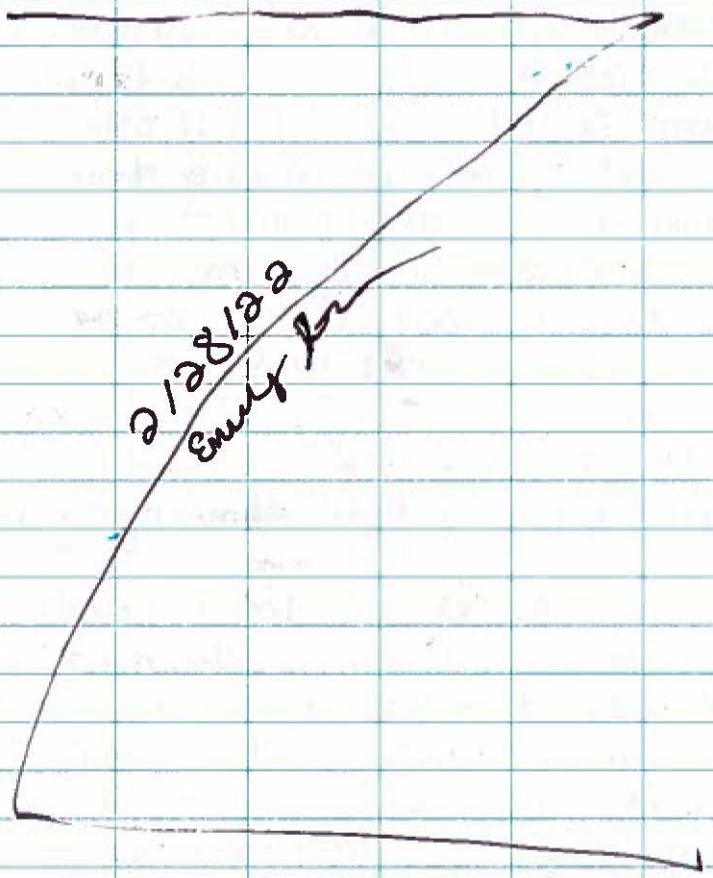
1445 - SPM Flex 162: 104 rape Advance failure again. Manually advanced tape. May need to replace tape due to continuous faulting. Had to stop AreaRAE run on viper b/c Location 1 was only taking 1 reading/hour. Reconfigured to take a reading

Emily Jones

Rite in the Rain

every 30 seconds & started new run. SPM Flex 160 105 high background fault. Reset & put back in monitor mode. ——— EJ

1714- 18 drums packed today. START offsite. ——— ad



Weather- 35°/67°. Mostly sunny. High fire danger due to low relative humidity. Wind N/NW 5-10mph.

0830- START onsite, ER onsite, OSC Booth onsite. Conducted bump test on all AreaRAEs. All pass. SPM 160 105 high background fault. Had to reset & put back in monitor mode.

0930- ERs continues packing drums following same protocol as previous days. ——— ad

1100- ERs moving last large battery from northern rolloff using excavator. HF & HU monitors recieved hits of 20.00ppm once they removed the tarp from southern roll off to start draining water. —EJ

1430- Replaced SPM Flex 160 & 162 Chemcassette tapes, due to constant high background faults. ERs begins transfering water from southern rolloff to northern roll off. ERs taking buckets from southern Conex & loading into trailer and cleaning up around the

Emily Jones

Rite in the Rain

2/ET 3/1/22 Jones

Packaging area. —— ET

1630 - SPM Flex 160 not recording data in viper despite being in monitor mode. Restarted linc 160 & meterapps. Now SPM Flex 160 is communicating w/ VIPER.

1710 - Southern rolloff drained. Leaving the door cracked overnight. START offsite.

3/1/22
Emily Jones

3/2/22 Jones

Weather - 41°/76°. Low relative humidity. Wind E @ 5-10 mph.

0830 - START. ER. & OSC Booth onsite. Conducted bump test on all AreaRAGs & all pass. ER now packing drums w/ batteries from southern rolloff. Mostly medium-large batteries.

1130 - Truck loading at STG. 116 takes about an Hour SoGe had to stop working for that time. Work resumed.

1530 - SPM flex 160 detected 20.00 ppm HCl at 1317. Readings went down in 2 seconds. Informed OSC Booth. 15 drums packed so far. —— ET

1430 - OSC Booth offsite. —— ET

1530 - Both SPM Flexes have 105 high background fault. ER had a fan blowing towards the Flexes, reset fault & asked ER to move fan. —— ET

1630 - ER cleaning up for the day. staging drums in conex boxes & next to sand/dumpters. 23 batteries packed today.

3/2/22
Emily Jones

Rite in the Rain

Weather - 71°/78°. Sunny. low relative humidity, Wind E @ 4mph. —— EJ

0800- START & ERs onsite. Conducted bump tests on all AreaRAEs. All pass. OSC Vasser & Krull onsite. —— EJ

0930- ER continues packing drums following same protocol as previous days. Working out of Southern rolloff.

1000- ER STEVE measures voltage of a large battery. Measured 0.129V.

1330- Breaking apart large battery to seperate individual cells.

1500- ER bagging small batteries. All large batteries in drums.

1700- START offsite. —— EJ

3/3/22
Emily Jones

Weather - 48°/73° Sunny Wind N 1-5mph.

0830- START & ERs onsite. Will finish packing batteries today. Basha coming out 11 to pick up air monitoring.

1000- Stopped Viper runs & packed all equipment. Ready for pickup from Basha. —— CO

1100- Clean Harbors vac truck onsite to pump water from totes/rolloff.

1115- ~~otis~~ ~~to~~ Basha OTIS picked up equipment. —— EJ

1145- START Collected LBLBF-SL-L02-080922 at 1135 from southern rolloff.

1300- ER swept out southern rolloff. Leaving door open over the weekend. Finished bagging batteries & now cleaning site, staged unused CTR drums under tents. —— CO

1600- START & ER offsite.

3/4/22
Emily Jones

Rite in the Rain

3/8/22 Jones

1100- START onsite. ER preparing to ship drums. Sand shipped off earlier in the week along w/ rolloffs & water.
Batteries/drums leaving site today:
16 55G steel drums (no liner)
45 55g Steel C2R drums (cell block lined)
14 55g ~~Steel~~ Ex steel drums w/ no batteries.
75 drums total. ——— Ex

3/8/22
Emily Jones

MADE IN TACOMA
— SINCE 1916 —
Rite in the Rain®
DEFYING MOTHER NATURE

WHAT to write with? for BEST results

Yes, Rite in the Rain is a wood-based & recyclable paper, but unlike plain paper... **it won't turn to mush when exposed to:**

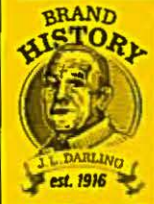
rain storms
heavy sweat
oil & grease
mud & grime
laundry mishap

ALL-WEATHER TOUGH!

USE WET OR DRY
most pens stop writing when wet
- ALL PENCILS
- *RITE IN THE RAIN PENS*
- WAX MARKERS
- CRAYONS
- OIL PASTELS / PAINT

WHEN DRY ONLY
what you write won't wash off
- PERMANENT MARKERS
- STANDARD BALLPOINTS

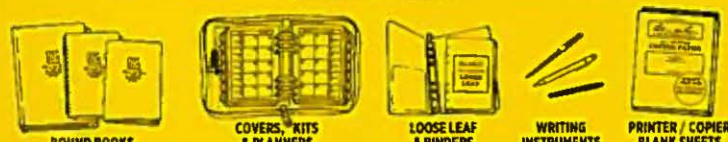
WON'T WORK
water-based inks bead off sheet
- GEL PENS
- MOST HIGHLIGHTERS
- FOUNTAIN PENS
- WATER COLORS
- ACRYLIC PAINT



The *Rite in the Rain* story began a century ago in the forests of the Great Pacific Northwest. Entrepreneur Jerry Darling recognized the logging industry's need for a durable material that could be written on and survive in poor weather conditions. Jerry developed a special coating that created a unique moisture shield on the hand-dipped sheets of paper that he and his wife, Mary, processed at their home. From these humble beginnings our first all-weather paper was born. Over the many years we've perfected and patented our environmentally responsible coating process. Still located in Tacoma, our continued mission is to provide innovative products for professionals and enthusiasts who brave the outdoors.

EQUIPPING MULTIPLE INDUSTRIES WORLD-WIDE

products available


BOUND BOOKS
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USA RITE GREEN Archival paper

ENCLOSURE 6

TETRA TECH STAGE 3 AND STAGE 2A DATA VALIDATION REPORTS

(84 Pages)

ATTACHMENT 1

NATIONAL RESPONSE CENTER REPORT #1324174

(Two Pages)

NATIONAL RESPONSE CENTER 1-800-424-8802
GOVERNMENT USE ONLYGOVERNMENT USE ONLY***
Information released to a third party shall comply with any
applicable federal and/or state Freedom of Information and Privacy Laws

Incident Report # 1324174

INCIDENT DESCRIPTION

*Report taken by NRC on 09-DEC-21 at 23:17 ET.
Incident Type: FIXED
Incident Cause: OTHER
Affected Area:
Incident occurred on 09-DEC-21 at 21:11 local incident time.
Affected Medium: WATER / STORM DRAIN

REPORTING PARTY

Name: ADAN SMITH
Organization: GWINNETT COUNTY
Address:
, GA
Email Address:

PRIMARY Phone: (706)2968986
Type of Organization: STATE GOVERNMENT

SUSPECTED RESPONSIBLE PARTY

Name: KIM YOUNG
Organization:
Address: 1665 LAKES PARKWAY
LAWRENCEVILLE, GA
PRIMARY Phone: (678)2942707
Type of Organization: PRIVATE ENTERPRISE

INCIDENT LOCATION

1665 LAKES PARKWAY County: GWINNETT
City: LAWRENCEVILLE State: GA

RELEASED MATERIAL(S)

CHRIS Code: LTM Official Material Name: LITHIUM
Also Known As:
Qty Released: 0 UNKNOWN AMOUNT

DESCRIPTION OF INCIDENT

CALLER REPORTED A FIRE STARTED AT THE LOCATION AND AS A RESULT THERE WAS A RELEASE OF MATERIALS FROM SOME LITHUM ION BATTERIES.

INCIDENT DETAILS

Package: N/A
Building ID:
Type of Fixed Object: OTHER
Power Generating Facility: UNKNOWN
Generating Capacity:
Type of Fuel:
NPDES:
NPDES Compliance: UNKNOWN

IMPACT

Fire Involved: NO Fire Extinguished: UNKNOWN
INJURIES: NO Sent to Hospital: Empl/Crew: Passenger:
FATALITIES: NO Empl/Crew: Passenger: Occupant:
EVACUATIONS: NO Who Evacuated: Radius/Area:

Damages: NO

Closure Type		Description of Closure	Hours Closed	Direction of Closure
Air:	NO			
Road:	NO			
Waterway:	NO			
Track:	NO			

Major Artery: NO

Passengers Transferred: NO
Environmental Impact: UNKNOWN
Media Interest: UNKNOWN

REMEDIAL ACTIONS

CLEAN UP UNDERWAY

Release Secured: UNKNOWN
Release Rate:
Estimated Release Duration:

WEATHER

Weather: PARTLY CLOUDY, °F

ADDITIONAL AGENCIES NOTIFIED

Federal:
State/Local:
State/Local On Scene:
State Agency Number:

NOTIFICATIONS BY NRC

CENTERS FOR DISEASE CONTROL (GRASP)
09-DEC-21 23:23 (770)4887100
ASST COMDT FOR INTELLIGENCE (CG-2) (OFFICE OF INTELLIGENCE PLANS AND POLICY (CG
09-DEC-21 23:23 (202)3722886
DEPT OF HEALTH AND HUMAN SERVICES (SECRETARY OPERATION CENTER (SOC))
09-DEC-21 23:23
CUSTOMS AND BORDER PROTECTION (GEORGIA COMMAND CENTER)
09-DEC-21 23:23 (912)7214840
CUSTOMS AND BORDER PROTECTION (GEORGIA COMMAND CENTER CON'T)
09-DEC-21 23:23 (912)7214840
DHS SOUTH CAROLINA FUSION CENTER (LE SENSITIVE ADVISORS & LIASON PROGRAM)
09-DEC-21 23:23 (866)4728477
DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)
09-DEC-21 23:23 (202)3661863
DOT OFFICE OF INSPECTOR GENERAL (ATLANTA, JRI-3)
09-DEC-21 23:23 (202)3660339
U.S. EPA IV (MAIN OFFICE)
09-DEC-21 23:25 (404)6504955 R4 DUTY PAGER
CISA CENTRAL (MAIN OFFICE)
09-DEC-21 23:23 (202)2829201
NOAA RPTS FOR GA (MAIN OFFICE)
09-DEC-21 23:23 (206)5264911
PIPELINE & HAZMAT SAFETY ADMIN (HAZARDOUS MATERIAL ACCIDENT INVESTIGATION)
09-DEC-21 23:23 (202)3664031
GEORGIA EMERGENCY MNGMT AGENCY (MAIN OFFICE)
09-DEC-21 23:23 (404)6357200
TSA OFFICE OF SECURITY OPERATIONS (SURFACE COMPLIANCE BRANCH SE REGION)
09-DEC-21 23:23 (904)9804075
TENNESSEE VALLEY AUTHORITY (POLICE AND EMERGENCY MANAGEMENT)
09-DEC-21 23:23 (931)2019665
USCG DISTRICT 7 (MAIN OFFICE)
09-DEC-21 23:23 (305)4156800
USCG DISTRICT 7 (PREVENTION DEPT)
09-DEC-21 23:23 (305)4156838
USCG DISTRICT 7 (INCIDENT MANAGEMENT ADVISOR)
09-DEC-21 23:23 (305)4156838

ADDITIONAL INFORMATION

*** END INCIDENT REPORT # 1324174 ***
Report any problems by calling 1-800-424-8802
PLEASE VISIT OUR WEB SITE AT http://nrc.uscg.mil

ATTACHMENT 2

LABORATORY ANALYTICAL DATA PACKAGES

(1,991 Pages)

ANALYTICAL
ENVIRONMENTAL
SERVICES, INC.

Electronic Data Package

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 23, 2021

Jessica Vickers
Tetra Tech EM Inc.

1955 Evergreen Blvd.
Duluth GA 30096

RE: Lawrenceville Lithium Battery Fire

Dear Jessica Vickers: Order No: 2112G62

Analytical Environmental Services, Inc. received 13 samples on 12/13/2021 3:49:00 PM for the analyses presented in following report.

"No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.
AES's accreditations are as follows:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/21-06/30/22.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/22 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/23.
These results relate only to the items tested as received. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi

Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive Atlanta GA 30340- 3906
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 2112G62

Date: 12/13/21 Page 1 of 1

COMPANY:	ADDRESS:
Tetra Tech, Inc.	1955 Evergreen Blvd Bldg 200, Suite 300 Duluth, GA 30096
PHONE: 404-849-7136	FAX: 678-775-3138
SAMPLED BY: Paul Prys	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOCs	SVOCs	Total Metals + Hg	VOCs	VOCs	VOCs	SVOCs	Total Metals + Hg	TCLP Metals	No # of Containers	REMARKS
							PRESERVATION (See codes)										
							H+I	I	N+I	S+I	S/M+I	H	H	H	H		
1	LLB-SW-L01-121121	12/11/21	1100	✔		SW	✔	✔	✔							7	
2	LLB-SW-L01-121121-DUP	12/11/21	1110	✔		SW	✔	✔	✔							7	
3	LLB-SW-L02-121121	12/11/21	1120	✔		SW	✔	✔	✔							21	MS/MSD
4	LLB-SS-L01-121121	12/11/21	1200	✔		SO				✔	✔		✔	✔		6	
5	LLB-SS-L01-121121-DUP	12/11/21	1212	✔		SO				✔			✔	✔		6	
6	LLB-SS-L02-121121	12/11/21	1225	✔		SO				✔	✔	✔	✔	✔		16	MS/MSD
7	LLB-SS-L03-121121	12/11/21	1250	✔		SO				✔	✔		✔	✔		6	
8	LLB-SS-L04-121121	12/11/21	1400	✔		SO						✔	✔	✔		5	
9	LLB-SS-L05-121121	12/11/21	1435	✔		SO						✔	✔	✔		5	
10	LLB-SS-L06-121321	12/13/21	1355		✔	SO								✔	✔	3	
11	LLB-EB-121321	12/13/21	1200	✔		W	✔	✔	✔							7	
12	LLB-FB-121321	12/13/21	1215	✔		W	✔	✔	✔							7	
13	LLB-TB-121321	12/13/21	1400	✔		W	✔									2	
14																	

ANALYSIS REQUESTED

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	12/13/21 @ 1549	1: Paul Masad	12/13
2:		2:	15:49
3:		3:	

PROJECT INFORMATION

PROJECT NAME: Lawrenceville Lithium Battery Fire

PROJECT #: 103X903200820035.001F

SITE ADDRESS: 1665 Lakes Parkway, Lawrenceville, GA

SEND REPORT TO: jessica.vickers@tetratech.com

INVOICE TO:
(IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 98

Turnaround Time Request
- ☐ Standard 5 Business Days
- ☐ 2 Business Day Rush
- ☒ Next Business Day Rush
- ☐ Same Day Rush (auth req.)
- ☐ Other

STATE PROGRAM (if any):
E-mail? Y / N; Y Fax? Y / N N
DATA PACKAGE: ☐ I ☐ II ☐ III ☑ IV

SPECIAL INSTRUCTIONS/COMMENTS:
- All soil samples for VOC analysis were frozen. Some are preserved and some are not. Some samples were preserved in DI water (O+I).
- Please send sample results to paul.prys@tetratech.com.

SHIPMENT METHOD
OUT 12/13/21 VIA: Drop off
IN / / VIA:
☑ CLIENT ☐ FedEx ☐ UPS ☐ MAIL ☐ COURIER
☐ GREYHOUND ☐ OTHER

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED WITH STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW=Wastewater DW=Drinking Water O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc.

Date: *28-Dec-21*

CLIENT:	Tetra Tech EM Inc.
Project:	Lawrenceville Lithium Battery Fire
Lab Order:	2112G62

CASE NARRATIVE

Volatile Organic Compound Analysis by Method 8260D:

Percent recovery for the internal standard compound 1,4-Dichlorobenzene-d4 on samples 2112G62-004A, -005A, -007A, -009A was outside control limits biased high due to suspected matrix interference. All other internal standard recoveries were within control limits.

Percent recovery for the internal standard compounds Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4 on sample 2112G62-008A was outside control limits biased high due to suspected matrix interference. All other internal standard recoveries were within control limits.Sample Receiving Nonconformance:

Sample preserved with sodium bisulfate in accordance with Method 5035 were not received for samples 2112G62-006, -007, -008 and -009. Preserved soil vials were prepared at the laboratory from the supplied unpreserved containers. Jessica Vickers and Paul Prys were notified via email 12/15/2021.

Data Package case narrative added 12/28/2021:

The QC Summary has been updated with additional QC Parameters.

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SW-L01-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 11:00:00 AM
Lab ID:	2112G62-001	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3510C)**					
1,1´-Biphenyl	BRL		4.1	10	ug/L	327248	1	12/14/2021 16:02		YH
2,4,5-Trichlorophenol	BRL		3.9	25	ug/L	327248	1	12/14/2021 16:02		YH
2,4,6-Trichlorophenol	BRL		3.4	10	ug/L	327248	1	12/14/2021 16:02		YH
2,4-Dichlorophenol	BRL		3.6	10	ug/L	327248	1	12/14/2021 16:02		YH
2,4-Dimethylphenol	BRL		3.8	10	ug/L	327248	1	12/14/2021 16:02		YH
2,4-Dinitrophenol	BRL		8.8	25	ug/L	327248	1	12/14/2021 16:02		YH
2,4-Dinitrotoluene	BRL		6.0	10	ug/L	327248	1	12/14/2021 16:02		YH
2,6-Dinitrotoluene	BRL		5.3	10	ug/L	327248	1	12/14/2021 16:02		YH
2-Chloronaphthalene	BRL		3.0	10	ug/L	327248	1	12/14/2021 16:02		YH
2-Chlorophenol	BRL		2.0	10	ug/L	327248	1	12/14/2021 16:02		YH
2-Methylnaphthalene	BRL		3.0	10	ug/L	327248	1	12/14/2021 16:02		YH
2-Methylphenol	BRL		3.1	10	ug/L	327248	1	12/14/2021 16:02		YH
2-Nitroaniline	BRL		3.6	25	ug/L	327248	1	12/14/2021 16:02		YH
2-Nitrophenol	BRL		2.5	10	ug/L	327248	1	12/14/2021 16:02		YH
3,3´-Dichlorobenzidine	BRL		3.7	10	ug/L	327248	1	12/14/2021 16:02		YH
3-Nitroaniline	BRL		4.3	25	ug/L	327248	1	12/14/2021 16:02		YH
4,6-Dinitro-2-methylphenol	BRL		14	25	ug/L	327248	1	12/14/2021 16:02		YH
4-Bromophenyl phenyl ether	BRL		3.9	10	ug/L	327248	1	12/14/2021 16:02		YH
4-Chloro-3-methylphenol	BRL		4.0	10	ug/L	327248	1	12/14/2021 16:02		YH
4-Chloroaniline	BRL		4.9	10	ug/L	327248	1	12/14/2021 16:02		YH
4-Chlorophenyl phenyl ether	BRL		3.0	10	ug/L	327248	1	12/14/2021 16:02		YH
4-Methylphenol	BRL		3.3	10	ug/L	327248	1	12/14/2021 16:02		YH
4-Nitroaniline	BRL		5.1	25	ug/L	327248	1	12/14/2021 16:02		YH
4-Nitrophenol	BRL		5.8	25	ug/L	327248	1	12/14/2021 16:02		YH
Acenaphthene	BRL		2.5	10	ug/L	327248	1	12/14/2021 16:02		YH
Acenaphthylene	BRL		2.7	10	ug/L	327248	1	12/14/2021 16:02		YH
Acetophenone	BRL		4.0	10	ug/L	327248	1	12/14/2021 16:02		YH
Anthracene	BRL		2.9	10	ug/L	327248	1	12/14/2021 16:02		YH
Atrazine	BRL		5.8	10	ug/L	327248	1	12/14/2021 16:02		YH
Benz(a)anthracene	BRL		2.8	10	ug/L	327248	1	12/14/2021 16:02		YH
Benzaldehyde	BRL		6.8	10	ug/L	327248	1	12/14/2021 16:02		YH
Benzo(a)pyrene	BRL		3.5	10	ug/L	327248	1	12/14/2021 16:02		YH
Benzo(b)fluoranthene	BRL		3.8	10	ug/L	327248	1	12/14/2021 16:02		YH
Benzo(g,h,i)perylene	BRL		4.2	10	ug/L	327248	1	12/14/2021 16:02		YH
Benzo(k)fluoranthene	BRL		3.6	10	ug/L	327248	1	12/14/2021 16:02		YH
Bis(2-chloroethoxy)methane	BRL		2.6	10	ug/L	327248	1	12/14/2021 16:02		YH
Bis(2-chloroethyl)ether	BRL		2.4	10	ug/L	327248	1	12/14/2021 16:02		YH
Bis(2-chloroisopropyl)ether	BRL		3.0	10	ug/L	327248	1	12/14/2021 16:02		YH
Bis(2-ethylhexyl)phthalate	BRL		4.4	10	ug/L	327248	1	12/14/2021 16:02		YH
Butyl benzyl phthalate	BRL		3.4	10	ug/L	327248	1	12/14/2021 16:02		YH
Caprolactam	BRL		5.0	10	ug/L	327248	1	12/14/2021 16:02		YH
Carbazole	BRL		3.3	10	ug/L	327248	1	12/14/2021 16:02		YH
Chrysene	BRL		2.7	10	ug/L	327248	1	12/14/2021 16:02		YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SW-L01-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 11:00:00 AM
Lab ID:	2112G62-001	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3510C)**					
Di-n-butyl phthalate	BRL		3.3	10	ug/L	327248	1	12/14/2021 16:02		YH
Di-n-octyl phthalate	BRL		9.3	10	ug/L	327248	1	12/14/2021 16:02		YH
Dibenz(a,h)anthracene	BRL		4.5	10	ug/L	327248	1	12/14/2021 16:02		YH
Dibenzofuran	BRL		2.7	10	ug/L	327248	1	12/14/2021 16:02		YH
Diethyl phthalate	BRL		3.3	10	ug/L	327248	1	12/14/2021 16:02		YH
Dimethyl phthalate	BRL		2.8	10	ug/L	327248	1	12/14/2021 16:02		YH
Fluoranthene	BRL		3.0	10	ug/L	327248	1	12/14/2021 16:02		YH
Fluorene	BRL		2.7	10	ug/L	327248	1	12/14/2021 16:02		YH
Hexachlorobenzene	BRL		3.9	10	ug/L	327248	1	12/14/2021 16:02		YH
Hexachlorobutadiene	BRL		4.2	10	ug/L	327248	1	12/14/2021 16:02		YH
Hexachlorocyclopentadiene	BRL		8.4	10	ug/L	327248	1	12/14/2021 16:02		YH
Hexachloroethane	BRL		3.1	10	ug/L	327248	1	12/14/2021 16:02		YH
Indeno(1,2,3-cd)pyrene	BRL		4.2	10	ug/L	327248	1	12/14/2021 16:02		YH
Isophorone	BRL		3.5	10	ug/L	327248	1	12/14/2021 16:02		YH
N-Nitrosodi-n-propylamine	BRL		2.5	10	ug/L	327248	1	12/14/2021 16:02		YH
N-Nitrosodiphenylamine	BRL		2.4	10	ug/L	327248	1	12/14/2021 16:02		YH
Naphthalene	BRL		2.1	10	ug/L	327248	1	12/14/2021 16:02		YH
Nitrobenzene	BRL		2.5	10	ug/L	327248	1	12/14/2021 16:02		YH
Pentachlorophenol	BRL		6.4	25	ug/L	327248	1	12/14/2021 16:02		YH
Phenanthrene	BRL		2.9	10	ug/L	327248	1	12/14/2021 16:02		YH
Phenol	BRL		2.9	10	ug/L	327248	1	12/14/2021 16:02		YH
Pyrene	BRL		2.9	10	ug/L	327248	1	12/14/2021 16:02		YH
Surr: 2,4,6-Tribromophenol	74.8		0	46-135	%REC	327248	1	12/14/2021 16:02		YH
Surr: 2-Fluorobiphenyl	78.6		0	45-121	%REC	327248	1	12/14/2021 16:02		YH
Surr: 2-Fluorophenol	54.6		0	28.2-120	%REC	327248	1	12/14/2021 16:02		YH
Surr: 4-Terphenyl-d14	75.8		0	44-120	%REC	327248	1	12/14/2021 16:02		YH
Surr: Nitrobenzene-d5	73.5		0	41-123	%REC	327248	1	12/14/2021 16:02		YH
Surr: Phenol-d5	31.7		0	19.5-120	%REC	327248	1	12/14/2021 16:02		YH
TCL VOLATILE ORGANICS SW8260D					**(SW5030B)**					
1,1,1-Trichloroethane	BRL		0.26	5.0	ug/L	327367	1	12/14/2021 13:44		CC
1,1,2,2-Tetrachloroethane	BRL		0.25	5.0	ug/L	327367	1	12/14/2021 13:44		CC
1,1,2-Trichloroethane	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 13:44		CC
1,1-Dichloroethane	BRL		0.29	5.0	ug/L	327367	1	12/14/2021 13:44		CC
1,1-Dichloroethene	BRL		0.32	5.0	ug/L	327367	1	12/14/2021 13:44		CC
1,2,4-Trichlorobenzene	BRL		0.68	5.0	ug/L	327367	1	12/14/2021 13:44		CC
1,2-Dibromo-3-chloropropane	BRL		0.61	5.0	ug/L	327367	1	12/14/2021 13:44		CC
1,2-Dibromoethane	BRL		0.20	5.0	ug/L	327367	1	12/14/2021 13:44		CC
1,2-Dichlorobenzene	BRL		0.22	5.0	ug/L	327367	1	12/14/2021 13:44		CC
1,2-Dichloroethane	BRL		0.19	5.0	ug/L	327367	1	12/14/2021 13:44		CC
1,2-Dichloropropane	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 13:44		CC
1,3-Dichlorobenzene	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 13:44		CC
1,4-Dichlorobenzene	BRL		0.57	5.0	ug/L	327367	1	12/14/2021 13:44		CC

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SW-L01-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 11:00:00 AM
Lab ID:	2112G62-001	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
TCL VOLATILE ORGANICS SW8260D					**(SW5030B)**					
2-Butanone	BRL		5.0	50	ug/L	327367	1	12/14/2021 13:44		CC
2-Hexanone	BRL		2.7	10	ug/L	327367	1	12/14/2021 13:44		CC
4-Methyl-2-pentanone	BRL		2.7	10	ug/L	327367	1	12/14/2021 13:44		CC
Acetone	26	J	8.3	50	ug/L	327367	1	12/14/2021 13:44		CC
Benzene	0.80	J	0.24	5.0	ug/L	327367	1	12/14/2021 13:44		CC
Bromodichloromethane	BRL		0.26	5.0	ug/L	327367	1	12/14/2021 13:44		CC
Bromoform	BRL		0.48	5.0	ug/L	327367	1	12/14/2021 13:44		CC
Bromomethane	BRL		0.73	5.0	ug/L	327367	1	12/14/2021 13:44		CC
Carbon disulfide	BRL		0.98	5.0	ug/L	327367	1	12/14/2021 13:44		CC
Carbon tetrachloride	BRL		0.28	5.0	ug/L	327367	1	12/14/2021 13:44		CC
Chlorobenzene	BRL		0.47	5.0	ug/L	327367	1	12/14/2021 13:44		CC
Chloroethane	BRL		0.45	10	ug/L	327367	1	12/14/2021 13:44		CC
Chloroform	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 13:44		CC
Chloromethane	BRL		0.44	10	ug/L	327367	1	12/14/2021 13:44		CC
cis-1,2-Dichloroethene	BRL		0.50	5.0	ug/L	327367	1	12/14/2021 13:44		CC
cis-1,3-Dichloropropene	BRL		0.30	5.0	ug/L	327367	1	12/14/2021 13:44		CC
Cyclohexane	BRL		1.00	5.0	ug/L	327367	1	12/14/2021 13:44		CC
Dibromochloromethane	BRL		0.40	5.0	ug/L	327367	1	12/14/2021 13:44		CC
Dichlorodifluoromethane	BRL		0.47	10	ug/L	327367	1	12/14/2021 13:44		CC
Ethylbenzene	1.3	J	0.24	5.0	ug/L	327367	1	12/14/2021 13:44		CC
Freon-113	BRL		0.33	10	ug/L	327367	1	12/14/2021 13:44		CC
Isopropylbenzene	BRL		0.29	5.0	ug/L	327367	1	12/14/2021 13:44		CC
m,p-Xylene	BRL		0.51	5.0	ug/L	327367	1	12/14/2021 13:44		CC
Methyl acetate	BRL		0.57	5.0	ug/L	327367	1	12/14/2021 13:44		CC
Methyl tert-butyl ether	BRL		0.24	5.0	ug/L	327367	1	12/14/2021 13:44		CC
Methylcyclohexane	BRL		0.24	5.0	ug/L	327367	1	12/14/2021 13:44		CC
Methylene chloride	BRL		4.8	5.0	ug/L	327367	1	12/14/2021 13:44		CC
o-Xylene	BRL		0.27	5.0	ug/L	327367	1	12/14/2021 13:44		CC
Styrene	15		0.29	5.0	ug/L	327367	1	12/14/2021 13:44		CC
Tetrachloroethene	BRL		0.30	5.0	ug/L	327367	1	12/14/2021 13:44		CC
Toluene	1.7	J	0.66	5.0	ug/L	327367	1	12/14/2021 13:44		CC
trans-1,2-Dichloroethene	BRL		0.29	5.0	ug/L	327367	1	12/14/2021 13:44		CC
trans-1,3-Dichloropropene	BRL		0.81	5.0	ug/L	327367	1	12/14/2021 13:44		CC
Trichloroethene	BRL		0.21	5.0	ug/L	327367	1	12/14/2021 13:44		CC
Trichlorofluoromethane	BRL		0.43	5.0	ug/L	327367	1	12/14/2021 13:44		CC
Vinyl chloride	BRL		0.44	2.0	ug/L	327367	1	12/14/2021 13:44		CC
Surr: 4-Bromofluorobenzene	96.4		0	74.9-127	%REC	327367	1	12/14/2021 13:44		CC
Surr: Dibromofluoromethane	94.7		0	78.9-121	%REC	327367	1	12/14/2021 13:44		CC
Surr: Toluene-d8	98.8		0	81.5-120	%REC	327367	1	12/14/2021 13:44		CC
METALS, TOTAL SW6010D					**(SW3010A)**					
Aluminum	0.733		0.0581	0.200	mg/L	327295	1	12/14/2021 19:05		KB
Antimony	0.403		0.0125	0.0200	mg/L	327295	1	12/14/2021 19:05		KB

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SW-L01-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 11:00:00 AM
Lab ID:	2112G62-001	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF	Analyst
METALS, TOTAL SW6010D						**(SW3010A)**			
Arsenic	BRL		0.0104	0.0500	mg/L	327295	1	12/14/2021 19:05	KB
Barium	0.0740		0.0048	0.0200	mg/L	327295	1	12/14/2021 19:05	KB
Beryllium	BRL		0.0019	0.0100	mg/L	327295	1	12/14/2021 19:05	KB
Cadmium	BRL		0.0016	0.0050	mg/L	327295	1	12/14/2021 19:05	KB
Calcium	8.49		0.0513	0.100	mg/L	327295	1	12/14/2021 19:05	KB
Chromium	BRL		0.0067	0.0100	mg/L	327295	1	12/14/2021 19:05	KB
Cobalt	1.03		0.0019	0.0200	mg/L	327295	1	12/14/2021 19:05	KB
Copper	0.0664		0.0024	0.0100	mg/L	327295	1	12/14/2021 19:05	KB
Iron	0.740		0.0362	0.100	mg/L	327295	1	12/14/2021 19:05	KB
Lead	BRL		0.0039	0.0100	mg/L	327295	1	12/14/2021 19:05	KB
Magnesium	2.92		0.0295	0.100	mg/L	327295	1	12/14/2021 19:05	KB
Manganese	1.60		0.0101	0.0150	mg/L	327295	1	12/14/2021 19:05	KB
Nickel	0.929		0.0104	0.0200	mg/L	327295	1	12/14/2021 19:05	KB
Potassium	3.50		0.167	0.500	mg/L	327295	1	12/14/2021 19:05	KB
Selenium	BRL		0.0089	0.0200	mg/L	327295	1	12/14/2021 19:05	KB
Silver	BRL		0.0018	0.0100	mg/L	327295	1	12/14/2021 19:05	KB
Sodium	6.00		0.391	1.00	mg/L	327295	1	12/14/2021 19:05	KB
Thallium	BRL		0.0086	0.0200	mg/L	327295	1	12/14/2021 19:05	KB
Vanadium	0.0023	J	0.0012	0.0100	mg/L	327295	1	12/14/2021 19:05	KB
Zinc	0.294		0.0160	0.0200	mg/L	327295	1	12/14/2021 19:05	KB
Mercury, Total SW7470A						**(SW7470A)**			
Mercury	BRL		0.00014	0.00020	mg/L	327327	1	12/15/2021 14:29	GR

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SW-L01-121121 (DUP)
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 11:10:00 AM
Lab ID:	2112G62-002	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3510C)**					
1,1´-Biphenyl	BRL		4.1	10	ug/L	327248	1	12/14/2021 14:57		YH
2,4,5-Trichlorophenol	BRL		3.9	25	ug/L	327248	1	12/14/2021 14:57		YH
2,4,6-Trichlorophenol	BRL		3.4	10	ug/L	327248	1	12/14/2021 14:57		YH
2,4-Dichlorophenol	BRL		3.6	10	ug/L	327248	1	12/14/2021 14:57		YH
2,4-Dimethylphenol	BRL		3.8	10	ug/L	327248	1	12/14/2021 14:57		YH
2,4-Dinitrophenol	BRL		8.8	25	ug/L	327248	1	12/14/2021 14:57		YH
2,4-Dinitrotoluene	BRL		6.0	10	ug/L	327248	1	12/14/2021 14:57		YH
2,6-Dinitrotoluene	BRL		5.3	10	ug/L	327248	1	12/14/2021 14:57		YH
2-Chloronaphthalene	BRL		3.0	10	ug/L	327248	1	12/14/2021 14:57		YH
2-Chlorophenol	BRL		2.0	10	ug/L	327248	1	12/14/2021 14:57		YH
2-Methylnaphthalene	BRL		3.0	10	ug/L	327248	1	12/14/2021 14:57		YH
2-Methylphenol	BRL		3.1	10	ug/L	327248	1	12/14/2021 14:57		YH
2-Nitroaniline	BRL		3.6	25	ug/L	327248	1	12/14/2021 14:57		YH
2-Nitrophenol	BRL		2.5	10	ug/L	327248	1	12/14/2021 14:57		YH
3,3´-Dichlorobenzidine	BRL		3.7	10	ug/L	327248	1	12/14/2021 14:57		YH
3-Nitroaniline	BRL		4.3	25	ug/L	327248	1	12/14/2021 14:57		YH
4,6-Dinitro-2-methylphenol	BRL		14	25	ug/L	327248	1	12/14/2021 14:57		YH
4-Bromophenyl phenyl ether	BRL		3.9	10	ug/L	327248	1	12/14/2021 14:57		YH
4-Chloro-3-methylphenol	BRL		4.0	10	ug/L	327248	1	12/14/2021 14:57		YH
4-Chloroaniline	BRL		4.9	10	ug/L	327248	1	12/14/2021 14:57		YH
4-Chlorophenyl phenyl ether	BRL		3.0	10	ug/L	327248	1	12/14/2021 14:57		YH
4-Methylphenol	BRL		3.3	10	ug/L	327248	1	12/14/2021 14:57		YH
4-Nitroaniline	BRL		5.1	25	ug/L	327248	1	12/14/2021 14:57		YH
4-Nitrophenol	BRL		5.8	25	ug/L	327248	1	12/14/2021 14:57		YH
Acenaphthene	BRL		2.5	10	ug/L	327248	1	12/14/2021 14:57		YH
Acenaphthylene	BRL		2.7	10	ug/L	327248	1	12/14/2021 14:57		YH
Acetophenone	BRL		4.0	10	ug/L	327248	1	12/14/2021 14:57		YH
Anthracene	BRL		2.9	10	ug/L	327248	1	12/14/2021 14:57		YH
Atrazine	BRL		5.8	10	ug/L	327248	1	12/14/2021 14:57		YH
Benz(a)anthracene	BRL		2.8	10	ug/L	327248	1	12/14/2021 14:57		YH
Benzaldehyde	BRL		6.8	10	ug/L	327248	1	12/14/2021 14:57		YH
Benzo(a)pyrene	BRL		3.5	10	ug/L	327248	1	12/14/2021 14:57		YH
Benzo(b)fluoranthene	BRL		3.8	10	ug/L	327248	1	12/14/2021 14:57		YH
Benzo(g,h,i)perylene	BRL		4.2	10	ug/L	327248	1	12/14/2021 14:57		YH
Benzo(k)fluoranthene	BRL		3.6	10	ug/L	327248	1	12/14/2021 14:57		YH
Bis(2-chloroethoxy)methane	BRL		2.6	10	ug/L	327248	1	12/14/2021 14:57		YH
Bis(2-chloroethyl)ether	BRL		2.4	10	ug/L	327248	1	12/14/2021 14:57		YH
Bis(2-chloroisopropyl)ether	BRL		3.0	10	ug/L	327248	1	12/14/2021 14:57		YH
Bis(2-ethylhexyl)phthalate	BRL		4.4	10	ug/L	327248	1	12/14/2021 14:57		YH
Butyl benzyl phthalate	BRL		3.4	10	ug/L	327248	1	12/14/2021 14:57		YH
Caprolactam	BRL		5.0	10	ug/L	327248	1	12/14/2021 14:57		YH
Carbazole	BRL		3.3	10	ug/L	327248	1	12/14/2021 14:57		YH
Chrysene	BRL		2.7	10	ug/L	327248	1	12/14/2021 14:57		YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SW-L01-121121 (DUP)
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 11:10:00 AM
Lab ID:	2112G62-002	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3510C)**					
Di-n-butyl phthalate	BRL		3.3	10	ug/L	327248	1	12/14/2021 14:57		YH
Di-n-octyl phthalate	BRL		9.3	10	ug/L	327248	1	12/14/2021 14:57		YH
Dibenz(a,h)anthracene	BRL		4.5	10	ug/L	327248	1	12/14/2021 14:57		YH
Dibenzofuran	BRL		2.7	10	ug/L	327248	1	12/14/2021 14:57		YH
Diethyl phthalate	BRL		3.3	10	ug/L	327248	1	12/14/2021 14:57		YH
Dimethyl phthalate	BRL		2.8	10	ug/L	327248	1	12/14/2021 14:57		YH
Fluoranthene	BRL		3.0	10	ug/L	327248	1	12/14/2021 14:57		YH
Fluorene	BRL		2.7	10	ug/L	327248	1	12/14/2021 14:57		YH
Hexachlorobenzene	BRL		3.9	10	ug/L	327248	1	12/14/2021 14:57		YH
Hexachlorobutadiene	BRL		4.2	10	ug/L	327248	1	12/14/2021 14:57		YH
Hexachlorocyclopentadiene	BRL		8.4	10	ug/L	327248	1	12/14/2021 14:57		YH
Hexachloroethane	BRL		3.1	10	ug/L	327248	1	12/14/2021 14:57		YH
Indeno(1,2,3-cd)pyrene	BRL		4.2	10	ug/L	327248	1	12/14/2021 14:57		YH
Isophorone	BRL		3.5	10	ug/L	327248	1	12/14/2021 14:57		YH
N-Nitrosodi-n-propylamine	BRL		2.5	10	ug/L	327248	1	12/14/2021 14:57		YH
N-Nitrosodiphenylamine	BRL		2.4	10	ug/L	327248	1	12/14/2021 14:57		YH
Naphthalene	BRL		2.1	10	ug/L	327248	1	12/14/2021 14:57		YH
Nitrobenzene	BRL		2.5	10	ug/L	327248	1	12/14/2021 14:57		YH
Pentachlorophenol	BRL		6.4	25	ug/L	327248	1	12/14/2021 14:57		YH
Phenanthrene	BRL		2.9	10	ug/L	327248	1	12/14/2021 14:57		YH
Phenol	BRL		2.9	10	ug/L	327248	1	12/14/2021 14:57		YH
Pyrene	BRL		2.9	10	ug/L	327248	1	12/14/2021 14:57		YH
Surr: 2,4,6-Tribromophenol	66.3		0	46-135	%REC	327248	1	12/14/2021 14:57		YH
Surr: 2-Fluorobiphenyl	52.8		0	45-121	%REC	327248	1	12/14/2021 14:57		YH
Surr: 2-Fluorophenol	31.6		0	28.2-120	%REC	327248	1	12/14/2021 14:57		YH
Surr: 4-Terphenyl-d14	53.2		0	44-120	%REC	327248	1	12/14/2021 14:57		YH
Surr: Nitrobenzene-d5	62.3		0	41-123	%REC	327248	1	12/14/2021 14:57		YH
Surr: Phenol-d5	18.5	S	0	19.5-120	%REC	327248	1	12/14/2021 14:57		YH
TCL VOLATILE ORGANICS SW8260D					**(SW5030B)**					
1,1,1-Trichloroethane	BRL		0.26	5.0	ug/L	327367	1	12/14/2021 17:40		CC
1,1,2,2-Tetrachloroethane	BRL		0.25	5.0	ug/L	327367	1	12/14/2021 17:40		CC
1,1,2-Trichloroethane	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 17:40		CC
1,1-Dichloroethane	BRL		0.29	5.0	ug/L	327367	1	12/14/2021 17:40		CC
1,1-Dichloroethene	BRL		0.32	5.0	ug/L	327367	1	12/14/2021 17:40		CC
1,2,4-Trichlorobenzene	BRL		0.68	5.0	ug/L	327367	1	12/14/2021 17:40		CC
1,2-Dibromo-3-chloropropane	BRL		0.61	5.0	ug/L	327367	1	12/14/2021 17:40		CC
1,2-Dibromoethane	BRL		0.20	5.0	ug/L	327367	1	12/14/2021 17:40		CC
1,2-Dichlorobenzene	BRL		0.22	5.0	ug/L	327367	1	12/14/2021 17:40		CC
1,2-Dichloroethane	BRL		0.19	5.0	ug/L	327367	1	12/14/2021 17:40		CC
1,2-Dichloropropane	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 17:40		CC
1,3-Dichlorobenzene	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 17:40		CC
1,4-Dichlorobenzene	BRL		0.57	5.0	ug/L	327367	1	12/14/2021 17:40		CC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SW-L01-121121 (DUP)
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 11:10:00 AM
Lab ID:	2112G62-002	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
TCL VOLATILE ORGANICS SW8260D					**(SW5030B)**					
2-Butanone	BRL		5.0	50	ug/L	327367	1	12/14/2021 17:40		CC
2-Hexanone	BRL		2.7	10	ug/L	327367	1	12/14/2021 17:40		CC
4-Methyl-2-pentanone	BRL		2.7	10	ug/L	327367	1	12/14/2021 17:40		CC
Acetone	24	J	8.3	50	ug/L	327367	1	12/14/2021 17:40		CC
Benzene	0.79	J	0.24	5.0	ug/L	327367	1	12/14/2021 17:40		CC
Bromodichloromethane	BRL		0.26	5.0	ug/L	327367	1	12/14/2021 17:40		CC
Bromoform	BRL		0.48	5.0	ug/L	327367	1	12/14/2021 17:40		CC
Bromomethane	BRL		0.73	5.0	ug/L	327367	1	12/14/2021 17:40		CC
Carbon disulfide	BRL		0.98	5.0	ug/L	327367	1	12/14/2021 17:40		CC
Carbon tetrachloride	BRL		0.28	5.0	ug/L	327367	1	12/14/2021 17:40		CC
Chlorobenzene	BRL		0.47	5.0	ug/L	327367	1	12/14/2021 17:40		CC
Chloroethane	BRL		0.45	10	ug/L	327367	1	12/14/2021 17:40		CC
Chloroform	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 17:40		CC
Chloromethane	BRL		0.44	10	ug/L	327367	1	12/14/2021 17:40		CC
cis-1,2-Dichloroethene	BRL		0.50	5.0	ug/L	327367	1	12/14/2021 17:40		CC
cis-1,3-Dichloropropene	BRL		0.30	5.0	ug/L	327367	1	12/14/2021 17:40		CC
Cyclohexane	BRL		1.00	5.0	ug/L	327367	1	12/14/2021 17:40		CC
Dibromochloromethane	BRL		0.40	5.0	ug/L	327367	1	12/14/2021 17:40		CC
Dichlorodifluoromethane	BRL		0.47	10	ug/L	327367	1	12/14/2021 17:40		CC
Ethylbenzene	1.2	J	0.24	5.0	ug/L	327367	1	12/14/2021 17:40		CC
Freon-113	BRL		0.33	10	ug/L	327367	1	12/14/2021 17:40		CC
Isopropylbenzene	BRL		0.29	5.0	ug/L	327367	1	12/14/2021 17:40		CC
m,p-Xylene	BRL		0.51	5.0	ug/L	327367	1	12/14/2021 17:40		CC
Methyl acetate	BRL		0.57	5.0	ug/L	327367	1	12/14/2021 17:40		CC
Methyl tert-butyl ether	BRL		0.24	5.0	ug/L	327367	1	12/14/2021 17:40		CC
Methylcyclohexane	BRL		0.24	5.0	ug/L	327367	1	12/14/2021 17:40		CC
Methylene chloride	BRL		4.8	5.0	ug/L	327367	1	12/14/2021 17:40		CC
o-Xylene	BRL		0.27	5.0	ug/L	327367	1	12/14/2021 17:40		CC
Styrene	14		0.29	5.0	ug/L	327367	1	12/14/2021 17:40		CC
Tetrachloroethene	BRL		0.30	5.0	ug/L	327367	1	12/14/2021 17:40		CC
Toluene	1.6	J	0.66	5.0	ug/L	327367	1	12/14/2021 17:40		CC
trans-1,2-Dichloroethene	BRL		0.29	5.0	ug/L	327367	1	12/14/2021 17:40		CC
trans-1,3-Dichloropropene	BRL		0.81	5.0	ug/L	327367	1	12/14/2021 17:40		CC
Trichloroethene	BRL		0.21	5.0	ug/L	327367	1	12/14/2021 17:40		CC
Trichlorofluoromethane	BRL		0.43	5.0	ug/L	327367	1	12/14/2021 17:40		CC
Vinyl chloride	BRL		0.44	2.0	ug/L	327367	1	12/14/2021 17:40		CC
Surr: 4-Bromofluorobenzene	95.6		0	74.9-127	%REC	327367	1	12/14/2021 17:40		CC
Surr: Dibromofluoromethane	94.9		0	78.9-121	%REC	327367	1	12/14/2021 17:40		CC
Surr: Toluene-d8	98.9		0	81.5-120	%REC	327367	1	12/14/2021 17:40		CC
METALS, TOTAL SW6010D					**(SW3010A)**					
Aluminum	0.971		0.0581	0.200	mg/L	327295	1	12/14/2021 19:08		KB
Antimony	0.402		0.0125	0.0200	mg/L	327295	1	12/14/2021 19:08		KB

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SW-L01-121121 (DUP)
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 11:10:00 AM
Lab ID:	2112G62-002	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
METALS, TOTAL SW6010D						(SW3010A)				
Arsenic	BRL		0.0104	0.0500	mg/L	327295	1	12/14/2021 19:08		KB
Barium	0.0761		0.0048	0.0200	mg/L	327295	1	12/14/2021 19:08		KB
Beryllium	BRL		0.0019	0.0100	mg/L	327295	1	12/14/2021 19:08		KB
Cadmium	BRL		0.0016	0.0050	mg/L	327295	1	12/14/2021 19:08		KB
Calcium	8.51		0.0513	0.100	mg/L	327295	1	12/14/2021 19:08		KB
Chromium	0.0135		0.0067	0.0100	mg/L	327295	1	12/14/2021 19:08		KB
Cobalt	1.06		0.0019	0.0200	mg/L	327295	1	12/14/2021 19:08		KB
Copper	0.0751		0.0024	0.0100	mg/L	327295	1	12/14/2021 19:08		KB
Iron	1.02		0.0362	0.100	mg/L	327295	1	12/14/2021 19:08		KB
Lead	BRL		0.0039	0.0100	mg/L	327295	1	12/14/2021 19:08		KB
Magnesium	2.95		0.0295	0.100	mg/L	327295	1	12/14/2021 19:08		KB
Manganese	1.60		0.0101	0.0150	mg/L	327295	1	12/14/2021 19:08		KB
Nickel	0.986		0.0104	0.0200	mg/L	327295	1	12/14/2021 19:08		KB
Potassium	3.51		0.167	0.500	mg/L	327295	1	12/14/2021 19:08		KB
Selenium	BRL		0.0089	0.0200	mg/L	327295	1	12/14/2021 19:08		KB
Silver	BRL		0.0018	0.0100	mg/L	327295	1	12/14/2021 19:08		KB
Sodium	5.98		0.391	1.00	mg/L	327295	1	12/14/2021 19:08		KB
Thallium	BRL		0.0086	0.0200	mg/L	327295	1	12/14/2021 19:08		KB
Vanadium	0.0024	J	0.0012	0.0100	mg/L	327295	1	12/14/2021 19:08		KB
Zinc	0.307		0.0160	0.0200	mg/L	327295	1	12/14/2021 19:08		KB
Mercury, Total SW7470A						(SW7470A)				
Mercury	BRL		0.00014	0.00020	mg/L	327327	1	12/15/2021 14:33		GR

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SW-L02-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 11:20:00 AM
Lab ID:	2112G62-003	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3510C)**					
1,1´-Biphenyl	BRL		4.1	10	ug/L	327248	1	12/14/2021 15:36		YH
2,4,5-Trichlorophenol	BRL		3.9	25	ug/L	327248	1	12/14/2021 15:36		YH
2,4,6-Trichlorophenol	BRL		3.4	10	ug/L	327248	1	12/14/2021 15:36		YH
2,4-Dichlorophenol	BRL		3.6	10	ug/L	327248	1	12/14/2021 15:36		YH
2,4-Dimethylphenol	BRL		3.8	10	ug/L	327248	1	12/14/2021 15:36		YH
2,4-Dinitrophenol	BRL		8.8	25	ug/L	327248	1	12/14/2021 15:36		YH
2,4-Dinitrotoluene	BRL		6.0	10	ug/L	327248	1	12/14/2021 15:36		YH
2,6-Dinitrotoluene	BRL		5.3	10	ug/L	327248	1	12/14/2021 15:36		YH
2-Chloronaphthalene	BRL		3.0	10	ug/L	327248	1	12/14/2021 15:36		YH
2-Chlorophenol	BRL		2.0	10	ug/L	327248	1	12/14/2021 15:36		YH
2-Methylnaphthalene	BRL		3.0	10	ug/L	327248	1	12/14/2021 15:36		YH
2-Methylphenol	BRL		3.1	10	ug/L	327248	1	12/14/2021 15:36		YH
2-Nitroaniline	BRL		3.6	25	ug/L	327248	1	12/14/2021 15:36		YH
2-Nitrophenol	BRL		2.5	10	ug/L	327248	1	12/14/2021 15:36		YH
3,3´-Dichlorobenzidine	BRL		3.7	10	ug/L	327248	1	12/14/2021 15:36		YH
3-Nitroaniline	BRL		4.3	25	ug/L	327248	1	12/14/2021 15:36		YH
4,6-Dinitro-2-methylphenol	BRL		14	25	ug/L	327248	1	12/14/2021 15:36		YH
4-Bromophenyl phenyl ether	BRL		3.9	10	ug/L	327248	1	12/14/2021 15:36		YH
4-Chloro-3-methylphenol	BRL		4.0	10	ug/L	327248	1	12/14/2021 15:36		YH
4-Chloroaniline	BRL		4.9	10	ug/L	327248	1	12/14/2021 15:36		YH
4-Chlorophenyl phenyl ether	BRL		3.0	10	ug/L	327248	1	12/14/2021 15:36		YH
4-Methylphenol	BRL		3.3	10	ug/L	327248	1	12/14/2021 15:36		YH
4-Nitroaniline	BRL		5.1	25	ug/L	327248	1	12/14/2021 15:36		YH
4-Nitrophenol	BRL		5.8	25	ug/L	327248	1	12/14/2021 15:36		YH
Acenaphthene	BRL		2.5	10	ug/L	327248	1	12/14/2021 15:36		YH
Acenaphthylene	BRL		2.7	10	ug/L	327248	1	12/14/2021 15:36		YH
Acetophenone	BRL		4.0	10	ug/L	327248	1	12/14/2021 15:36		YH
Anthracene	BRL		2.9	10	ug/L	327248	1	12/14/2021 15:36		YH
Atrazine	BRL		5.8	10	ug/L	327248	1	12/14/2021 15:36		YH
Benz(a)anthracene	BRL		2.8	10	ug/L	327248	1	12/14/2021 15:36		YH
Benzaldehyde	BRL		6.8	10	ug/L	327248	1	12/14/2021 15:36		YH
Benzo(a)pyrene	BRL		3.5	10	ug/L	327248	1	12/14/2021 15:36		YH
Benzo(b)fluoranthene	BRL		3.8	10	ug/L	327248	1	12/14/2021 15:36		YH
Benzo(g,h,i)perylene	BRL		4.2	10	ug/L	327248	1	12/14/2021 15:36		YH
Benzo(k)fluoranthene	BRL		3.6	10	ug/L	327248	1	12/14/2021 15:36		YH
Bis(2-chloroethoxy)methane	BRL		2.6	10	ug/L	327248	1	12/14/2021 15:36		YH
Bis(2-chloroethyl)ether	BRL		2.4	10	ug/L	327248	1	12/14/2021 15:36		YH
Bis(2-chloroisopropyl)ether	BRL		3.0	10	ug/L	327248	1	12/14/2021 15:36		YH
Bis(2-ethylhexyl)phthalate	BRL		4.4	10	ug/L	327248	1	12/14/2021 15:36		YH
Butyl benzyl phthalate	BRL		3.4	10	ug/L	327248	1	12/14/2021 15:36		YH
Caprolactam	BRL		5.0	10	ug/L	327248	1	12/14/2021 15:36		YH
Carbazole	BRL		3.3	10	ug/L	327248	1	12/14/2021 15:36		YH
Chrysene	BRL		2.7	10	ug/L	327248	1	12/14/2021 15:36		YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SW-L02-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 11:20:00 AM
Lab ID:	2112G62-003	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3510C)**					
Di-n-butyl phthalate	BRL		3.3	10	ug/L	327248	1	12/14/2021 15:36		YH
Di-n-octyl phthalate	BRL		9.3	10	ug/L	327248	1	12/14/2021 15:36		YH
Dibenz(a,h)anthracene	BRL		4.5	10	ug/L	327248	1	12/14/2021 15:36		YH
Dibenzofuran	BRL		2.7	10	ug/L	327248	1	12/14/2021 15:36		YH
Diethyl phthalate	BRL		3.3	10	ug/L	327248	1	12/14/2021 15:36		YH
Dimethyl phthalate	BRL		2.8	10	ug/L	327248	1	12/14/2021 15:36		YH
Fluoranthene	BRL		3.0	10	ug/L	327248	1	12/14/2021 15:36		YH
Fluorene	BRL		2.7	10	ug/L	327248	1	12/14/2021 15:36		YH
Hexachlorobenzene	BRL		3.9	10	ug/L	327248	1	12/14/2021 15:36		YH
Hexachlorobutadiene	BRL		4.2	10	ug/L	327248	1	12/14/2021 15:36		YH
Hexachlorocyclopentadiene	BRL		8.4	10	ug/L	327248	1	12/14/2021 15:36		YH
Hexachloroethane	BRL		3.1	10	ug/L	327248	1	12/14/2021 15:36		YH
Indeno(1,2,3-cd)pyrene	BRL		4.2	10	ug/L	327248	1	12/14/2021 15:36		YH
Isophorone	BRL		3.5	10	ug/L	327248	1	12/14/2021 15:36		YH
N-Nitrosodi-n-propylamine	BRL		2.5	10	ug/L	327248	1	12/14/2021 15:36		YH
N-Nitrosodiphenylamine	BRL		2.4	10	ug/L	327248	1	12/14/2021 15:36		YH
Naphthalene	BRL		2.1	10	ug/L	327248	1	12/14/2021 15:36		YH
Nitrobenzene	BRL		2.5	10	ug/L	327248	1	12/14/2021 15:36		YH
Pentachlorophenol	BRL		6.4	25	ug/L	327248	1	12/14/2021 15:36		YH
Phenanthrene	BRL		2.9	10	ug/L	327248	1	12/14/2021 15:36		YH
Phenol	BRL		2.9	10	ug/L	327248	1	12/14/2021 15:36		YH
Pyrene	BRL		2.9	10	ug/L	327248	1	12/14/2021 15:36		YH
Surr: 2,4,6-Tribromophenol	61.8		0	46-135	%REC	327248	1	12/14/2021 15:36		YH
Surr: 2-Fluorobiphenyl	74.3		0	45-121	%REC	327248	1	12/14/2021 15:36		YH
Surr: 2-Fluorophenol	28.1	S	0	28.2-120	%REC	327248	1	12/14/2021 15:36		YH
Surr: 4-Terphenyl-d14	71		0	44-120	%REC	327248	1	12/14/2021 15:36		YH
Surr: Nitrobenzene-d5	63.8		0	41-123	%REC	327248	1	12/14/2021 15:36		YH
Surr: Phenol-d5	15.5	S	0	19.5-120	%REC	327248	1	12/14/2021 15:36		YH
TCL VOLATILE ORGANICS SW8260D					**(SW5030B)**					
1,1,1-Trichloroethane	BRL		0.26	5.0	ug/L	327367	1	12/14/2021 18:01		CC
1,1,2,2-Tetrachloroethane	BRL		0.25	5.0	ug/L	327367	1	12/14/2021 18:01		CC
1,1,2-Trichloroethane	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 18:01		CC
1,1-Dichloroethane	BRL		0.29	5.0	ug/L	327367	1	12/14/2021 18:01		CC
1,1-Dichloroethene	BRL		0.32	5.0	ug/L	327367	1	12/14/2021 18:01		CC
1,2,4-Trichlorobenzene	BRL		0.68	5.0	ug/L	327367	1	12/14/2021 18:01		CC
1,2-Dibromo-3-chloropropane	BRL		0.61	5.0	ug/L	327367	1	12/14/2021 18:01		CC
1,2-Dibromoethane	BRL		0.20	5.0	ug/L	327367	1	12/14/2021 18:01		CC
1,2-Dichlorobenzene	BRL		0.22	5.0	ug/L	327367	1	12/14/2021 18:01		CC
1,2-Dichloroethane	BRL		0.19	5.0	ug/L	327367	1	12/14/2021 18:01		CC
1,2-Dichloropropane	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 18:01		CC
1,3-Dichlorobenzene	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 18:01		CC
1,4-Dichlorobenzene	BRL		0.57	5.0	ug/L	327367	1	12/14/2021 18:01		CC

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SW-L02-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 11:20:00 AM
Lab ID:	2112G62-003	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	Batch ID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260D					**(SW5030B)**				
2-Butanone	BRL		5.0	50	ug/L	327367	1	12/14/2021 18:01	CC
2-Hexanone	BRL		2.7	10	ug/L	327367	1	12/14/2021 18:01	CC
4-Methyl-2-pentanone	BRL		2.7	10	ug/L	327367	1	12/14/2021 18:01	CC
Acetone	23	J	8.3	50	ug/L	327367	1	12/14/2021 18:01	CC
Benzene	BRL		0.24	5.0	ug/L	327367	1	12/14/2021 18:01	CC
Bromodichloromethane	BRL		0.26	5.0	ug/L	327367	1	12/14/2021 18:01	CC
Bromoform	BRL		0.48	5.0	ug/L	327367	1	12/14/2021 18:01	CC
Bromomethane	BRL		0.73	5.0	ug/L	327367	1	12/14/2021 18:01	CC
Carbon disulfide	BRL		0.98	5.0	ug/L	327367	1	12/14/2021 18:01	CC
Carbon tetrachloride	BRL		0.28	5.0	ug/L	327367	1	12/14/2021 18:01	CC
Chlorobenzene	BRL		0.47	5.0	ug/L	327367	1	12/14/2021 18:01	CC
Chloroethane	BRL		0.45	10	ug/L	327367	1	12/14/2021 18:01	CC
Chloroform	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 18:01	CC
Chloromethane	BRL		0.44	10	ug/L	327367	1	12/14/2021 18:01	CC
cis-1,2-Dichloroethene	BRL		0.50	5.0	ug/L	327367	1	12/14/2021 18:01	CC
cis-1,3-Dichloropropene	BRL		0.30	5.0	ug/L	327367	1	12/14/2021 18:01	CC
Cyclohexane	BRL		1.00	5.0	ug/L	327367	1	12/14/2021 18:01	CC
Dibromochloromethane	BRL		0.40	5.0	ug/L	327367	1	12/14/2021 18:01	CC
Dichlorodifluoromethane	BRL		0.47	10	ug/L	327367	1	12/14/2021 18:01	CC
Ethylbenzene	BRL		0.24	5.0	ug/L	327367	1	12/14/2021 18:01	CC
Freon-113	BRL		0.33	10	ug/L	327367	1	12/14/2021 18:01	CC
Isopropylbenzene	BRL		0.29	5.0	ug/L	327367	1	12/14/2021 18:01	CC
m,p-Xylene	BRL		0.51	5.0	ug/L	327367	1	12/14/2021 18:01	CC
Methyl acetate	BRL		0.57	5.0	ug/L	327367	1	12/14/2021 18:01	CC
Methyl tert-butyl ether	BRL		0.24	5.0	ug/L	327367	1	12/14/2021 18:01	CC
Methylcyclohexane	BRL		0.24	5.0	ug/L	327367	1	12/14/2021 18:01	CC
Methylene chloride	BRL		4.8	5.0	ug/L	327367	1	12/14/2021 18:01	CC
o-Xylene	BRL		0.27	5.0	ug/L	327367	1	12/14/2021 18:01	CC
Styrene	1.5	J	0.29	5.0	ug/L	327367	1	12/14/2021 18:01	CC
Tetrachloroethene	BRL		0.30	5.0	ug/L	327367	1	12/14/2021 18:01	CC
Toluene	BRL		0.66	5.0	ug/L	327367	1	12/14/2021 18:01	CC
trans-1,2-Dichloroethene	BRL		0.29	5.0	ug/L	327367	1	12/14/2021 18:01	CC
trans-1,3-Dichloropropene	BRL		0.81	5.0	ug/L	327367	1	12/14/2021 18:01	CC
Trichloroethene	BRL		0.21	5.0	ug/L	327367	1	12/14/2021 18:01	CC
Trichlorofluoromethane	BRL		0.43	5.0	ug/L	327367	1	12/14/2021 18:01	CC
Vinyl chloride	BRL		0.44	2.0	ug/L	327367	1	12/14/2021 18:01	CC
Surr: 4-Bromofluorobenzene	96.8		0	74.9-127	%REC	327367	1	12/14/2021 18:01	CC
Surr: Dibromofluoromethane	95.3		0	78.9-121	%REC	327367	1	12/14/2021 18:01	CC
Surr: Toluene-d8	99.5		0	81.5-120	%REC	327367	1	12/14/2021 18:01	CC
METALS, TOTAL SW6010D					**(SW3010A)**				
Aluminum	1.32		0.0581	0.200	mg/L	327295	1	12/14/2021 18:49	KB
Antimony	0.264		0.0125	0.0200	mg/L	327295	1	12/14/2021 18:49	KB

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SW-L02-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 11:20:00 AM
Lab ID:	2112G62-003	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
METALS, TOTAL SW6010D						(SW3010A)				
Arsenic	BRL		0.0104	0.0500	mg/L	327295	1	12/14/2021 18:49		KB
Barium	0.0313		0.0048	0.0200	mg/L	327295	1	12/14/2021 18:49		KB
Beryllium	BRL		0.0019	0.0100	mg/L	327295	1	12/14/2021 18:49		KB
Cadmium	BRL		0.0016	0.0050	mg/L	327295	1	12/14/2021 18:49		KB
Calcium	6.12		0.0513	0.100	mg/L	327295	1	12/14/2021 18:49		KB
Chromium	BRL		0.0067	0.0100	mg/L	327295	1	12/14/2021 18:49		KB
Cobalt	0.152		0.0019	0.0200	mg/L	327295	1	12/14/2021 18:49		KB
Copper	0.0501		0.0024	0.0100	mg/L	327295	1	12/14/2021 18:49		KB
Iron	1.58		0.0362	0.100	mg/L	327295	1	12/14/2021 18:49		KB
Lead	BRL		0.0039	0.0100	mg/L	327295	1	12/14/2021 18:49		KB
Magnesium	2.29		0.0295	0.100	mg/L	327295	1	12/14/2021 18:49		KB
Manganese	0.261		0.0101	0.0150	mg/L	327295	1	12/14/2021 18:49		KB
Nickel	0.119		0.0104	0.0200	mg/L	327295	1	12/14/2021 18:49		KB
Potassium	2.57		0.167	0.500	mg/L	327295	1	12/14/2021 18:49		KB
Selenium	BRL		0.0089	0.0200	mg/L	327295	1	12/14/2021 18:49		KB
Silver	BRL		0.0018	0.0100	mg/L	327295	1	12/14/2021 18:49		KB
Sodium	6.62		0.391	1.00	mg/L	327295	1	12/14/2021 18:49		KB
Thallium	BRL		0.0086	0.0200	mg/L	327295	1	12/14/2021 18:49		KB
Vanadium	0.0045	J	0.0012	0.0100	mg/L	327295	1	12/14/2021 18:49		KB
Zinc	0.200		0.0160	0.0200	mg/L	327295	1	12/14/2021 18:49		KB
Mercury, Total SW7470A						(SW7470A)				
Mercury	BRL		0.00014	0.00020	mg/L	327327	1	12/15/2021 14:09		GR

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L01-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 12:00:00 PM
Lab ID:	2112G62-004	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
Total Mercury by SW7473					**(SW7473)**					
Mercury	BRL		0.0894	0.233	mg/Kg-dry	327278	1	12/14/2021 13:42		GR
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3550C)**					
1,1´-Biphenyl	BRL		280	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
2,4,5-Trichlorophenol	BRL		170	4000	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
2,4,6-Trichlorophenol	BRL		160	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
2,4-Dichlorophenol	BRL		170	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
2,4-Dimethylphenol	BRL		190	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
2,4-Dinitrophenol	BRL		2200	4000	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
2,4-Dinitrotoluene	BRL		510	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
2,6-Dinitrotoluene	BRL		410	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
2-Chloronaphthalene	BRL		200	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
2-Chlorophenol	BRL		130	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
2-Methylnaphthalene	BRL		140	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
2-Methylphenol	BRL		150	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
2-Nitroaniline	BRL		230	4000	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
2-Nitrophenol	BRL		210	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
3,3´-Dichlorobenzidine	BRL		230	1600	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
3-Nitroaniline	BRL		180	4000	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
4,6-Dinitro-2-methylphenol	BRL		1900	4000	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
4-Bromophenyl phenyl ether	BRL		190	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
4-Chloro-3-methylphenol	BRL		160	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
4-Chloroaniline	BRL		220	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
4-Chlorophenyl phenyl ether	BRL		170	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
4-Methylphenol	BRL		190	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
4-Nitroaniline	BRL		230	4000	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
4-Nitrophenol	BRL		410	4000	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
Acenaphthene	BRL		110	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
Acenaphthylene	BRL		580	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
Acetophenone	BRL		360	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
Anthracene	BRL		290	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
Atrazine	BRL		470	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
Benz(a)anthracene	2500		150	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
Benzaldehyde	BRL		540	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
Benzo(a)pyrene	4100		240	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
Benzo(b)fluoranthene	9100		250	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
Benzo(g,h,i)perylene	3700		710	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
Benzo(k)fluoranthene	BRL		290	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
Bis(2-chloroethoxy)methane	BRL		160	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
Bis(2-chloroethyl)ether	BRL		180	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
Bis(2-chloroisopropyl)ether	BRL		230	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
Bis(2-ethylhexyl)phthalate	1400		170	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH
Butyl benzyl phthalate	BRL		140	770	ug/Kg-dry	327269	1	12/14/2021 13:27		YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L01-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 12:00:00 PM
Lab ID:	2112G62-004	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Batch ID	DF	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3550C)**				
Caprolactam	BRL		300	770	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
Carbazole	510	J	360	770	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
Chrysene	5600		160	770	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
Di-n-butyl phthalate	BRL		630	770	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
Di-n-octyl phthalate	BRL		640	770	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
Dibenz(a,h)anthracene	740	J	280	770	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
Dibenzofuran	BRL		140	770	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
Diethyl phthalate	BRL		140	770	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
Dimethyl phthalate	BRL		110	770	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
Fluoranthene	7100		170	770	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
Fluorene	BRL		220	770	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
Hexachlorobenzene	BRL		220	770	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
Hexachlorobutadiene	BRL		210	770	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
Hexachlorocyclopentadiene	BRL		1500	1500	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
Hexachloroethane	BRL		200	770	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
Indeno(1,2,3-cd)pyrene	3200		320	770	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
Isophorone	BRL		240	770	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
N-Nitrosodi-n-propylamine	BRL		170	770	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
N-Nitrosodiphenylamine	BRL		110	770	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
Naphthalene	BRL		120	770	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
Nitrobenzene	BRL		150	770	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
Pentachlorophenol	BRL		470	4000	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
Phenanthrene	2000		150	770	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
Phenol	BRL		140	770	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
Pyrene	6000		300	770	ug/Kg-dry	327269	1	12/14/2021 13:27	YH
Surr: 2,4,6-Tribromophenol	63.2		0	44.9-127	%REC	327269	1	12/14/2021 13:27	YH
Surr: 2-Fluorobiphenyl	67.2		0	50.1-120	%REC	327269	1	12/14/2021 13:27	YH
Surr: 2-Fluorophenol	54.7		0	40.8-120	%REC	327269	1	12/14/2021 13:27	YH
Surr: 4-Terphenyl-d14	65.5		0	50.9-120	%REC	327269	1	12/14/2021 13:27	YH
Surr: Nitrobenzene-d5	53.9		0	41-120	%REC	327269	1	12/14/2021 13:27	YH
Surr: Phenol-d5	55		0	45.3-120	%REC	327269	1	12/14/2021 13:27	YH
TCL VOLATILE ORGANICS SW8260D					**(SW5035)**				
1,1,1-Trichloroethane	BRL		12	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
1,1,2,2-Tetrachloroethane	BRL		6.1	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
1,1,2-Trichloroethane	BRL		6.0	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
1,1-Dichloroethane	BRL		7.2	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
1,1-Dichloroethene	BRL		7.9	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
1,2,4-Trichlorobenzene	BRL		5.7	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
1,2-Dibromo-3-chloropropane	BRL		9.7	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
1,2-Dibromoethane	BRL		4.8	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
1,2-Dichlorobenzene	BRL		6.2	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
1,2-Dichloroethane	BRL		7.3	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L01-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 12:00:00 PM
Lab ID:	2112G62-004	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Dilution	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260D					**(SW5035)**					
1,2-Dichloropropane	BRL		6.4	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
1,3-Dichlorobenzene	BRL		5.3	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
1,4-Dichlorobenzene	BRL		5.1	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
2-Butanone	BRL		16	160	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
2-Hexanone	BRL		12	33	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
4-Methyl-2-pentanone	20	J	9.4	33	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Acetone	170	J	59	330	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Benzene	17		7.0	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Bromodichloromethane	BRL		7.5	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Bromoform	BRL		6.4	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Bromomethane	BRL		13	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Carbon disulfide	BRL		15	33	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Carbon tetrachloride	BRL		7.7	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Chlorobenzene	BRL		5.8	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Chloroethane	BRL		10	33	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Chloroform	BRL		10	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Chloromethane	BRL		8.8	33	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
cis-1,2-Dichloroethene	BRL		8.8	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
cis-1,3-Dichloropropene	BRL		7.3	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Cyclohexane	BRL		11	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Dibromochloromethane	BRL		6.1	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Dichlorodifluoromethane	BRL		7.2	33	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Ethylbenzene	17		6.6	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Freon-113	BRL		6.2	33	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Isopropylbenzene	BRL		7.2	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
m,p-Xylene	BRL		13	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Methyl acetate	34		11	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Methyl tert-butyl ether	BRL		7.1	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Methylcyclohexane	BRL		6.7	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Methylene chloride	BRL		11	66	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
o-Xylene	14	J	6.5	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Styrene	75		6.2	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Tetrachloroethene	BRL		7.5	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Toluene	29		6.8	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
trans-1,2-Dichloroethene	BRL		9.5	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
trans-1,3-Dichloropropene	BRL		7.8	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Trichloroethene	BRL		7.2	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Trichlorofluoromethane	BRL		6.7	16	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Vinyl chloride	BRL		8.2	33	ug/Kg-dry	327330	1	12/14/2021 13:26	RC
Surr: 4-Bromofluorobenzene	70.3		0	65-124	%REC	327330	1	12/14/2021 13:26	RC
Surr: Dibromofluoromethane	94.8		0	74.8-123	%REC	327330	1	12/14/2021 13:26	RC
Surr: Toluene-d8	90.3		0	69.2-128	%REC	327330	1	12/14/2021 13:26	RC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L01-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 12:00:00 PM
Lab ID:	2112G62-004	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
METALS, TOTAL SW6010D					**(SW3050B)**					
Aluminum	6970		12.7	81.7	mg/Kg-dry	327304	1	12/14/2021	17:39	KB
Antimony	22.5		0.624	4.08	mg/Kg-dry	327304	1	12/14/2021	17:39	KB
Arsenic	BRL		0.803	4.08	mg/Kg-dry	327304	1	12/14/2021	17:39	KB
Barium	94.3		0.279	8.17	mg/Kg-dry	327304	1	12/14/2021	17:39	KB
Beryllium	BRL		0.273	4.08	mg/Kg-dry	327304	1	12/14/2021	17:39	KB
Cadmium	0.238	J	0.170	4.08	mg/Kg-dry	327304	1	12/14/2021	17:39	KB
Calcium	2920		8.48	81.7	mg/Kg-dry	327304	1	12/14/2021	17:39	KB
Chromium	12.0		0.284	4.08	mg/Kg-dry	327304	1	12/14/2021	17:39	KB
Cobalt	384		0.214	4.08	mg/Kg-dry	327304	1	12/14/2021	17:39	KB
Copper	54.1		0.255	4.08	mg/Kg-dry	327304	1	12/14/2021	17:39	KB
Iron	9630		275	1630	mg/Kg-dry	327304	20	12/14/2021	18:17	KB
Lead	14.1		0.733	8.17	mg/Kg-dry	327304	1	12/14/2021	17:39	KB
Magnesium	2790		7.89	81.7	mg/Kg-dry	327304	1	12/14/2021	17:39	KB
Manganese	390		0.260	8.17	mg/Kg-dry	327304	1	12/14/2021	17:39	KB
Nickel	158		0.381	8.17	mg/Kg-dry	327304	1	12/14/2021	17:39	KB
Potassium	2070		16.8	163	mg/Kg-dry	327304	1	12/14/2021	17:39	KB
Selenium	1.35	J	0.661	5.72	mg/Kg-dry	327304	1	12/14/2021	17:39	KB
Silver	0.115	J	0.0294	4.08	mg/Kg-dry	327304	1	12/14/2021	17:39	KB
Sodium	277		31.0	163	mg/Kg-dry	327304	1	12/14/2021	17:39	KB
Thallium	BRL		0.733	1.63	mg/Kg-dry	327304	1	12/14/2021	17:39	KB
Vanadium	19.7		0.255	8.17	mg/Kg-dry	327304	1	12/14/2021	17:39	KB
Zinc	553		1.27	8.17	mg/Kg-dry	327304	1	12/14/2021	17:39	KB
PERCENT MOISTURE D2216										
Percent Moisture	57.0		0	0	wt%	R472462	1	12/14/2021	00:00	JW

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L01-121121 (DUP)
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 12:12:00 PM
Lab ID:	2112G62-005	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
Total Mercury by SW7473					**(SW7473)**					
Mercury	BRL		0.0867	0.226	mg/Kg-dry	327278	1	12/14/2021 13:50		GR
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3550C)**					
1,1´-Biphenyl	BRL		270	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
2,4,5-Trichlorophenol	BRL		160	3800	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
2,4,6-Trichlorophenol	BRL		160	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
2,4-Dichlorophenol	BRL		170	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
2,4-Dimethylphenol	BRL		180	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
2,4-Dinitrophenol	BRL		2100	3800	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
2,4-Dinitrotoluene	BRL		490	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
2,6-Dinitrotoluene	BRL		390	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
2-Chloronaphthalene	BRL		200	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
2-Chlorophenol	BRL		130	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
2-Methylnaphthalene	BRL		140	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
2-Methylphenol	BRL		140	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
2-Nitroaniline	BRL		220	3800	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
2-Nitrophenol	BRL		210	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
3,3´-Dichlorobenzidine	BRL		220	1500	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
3-Nitroaniline	BRL		170	3800	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
4,6-Dinitro-2-methylphenol	BRL		1900	3800	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
4-Bromophenyl phenyl ether	BRL		190	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
4-Chloro-3-methylphenol	BRL		160	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
4-Chloroaniline	BRL		220	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
4-Chlorophenyl phenyl ether	BRL		160	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
4-Methylphenol	BRL		190	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
4-Nitroaniline	BRL		220	3800	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
4-Nitrophenol	BRL		400	3800	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Acenaphthene	BRL		110	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Acenaphthylene	BRL		560	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Acetophenone	BRL		350	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Anthracene	310	J	280	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Atrazine	BRL		450	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Benz(a)anthracene	3300		140	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Benzaldehyde	BRL		530	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Benzo(a)pyrene	5400		230	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Benzo(b)fluoranthene	10000		240	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Benzo(g,h,i)perylene	4800		690	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Benzo(k)fluoranthene	2600		280	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Bis(2-chloroethoxy)methane	BRL		160	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Bis(2-chloroethyl)ether	BRL		180	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Bis(2-chloroisopropyl)ether	BRL		220	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Bis(2-ethylhexyl)phthalate	1200		160	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Butyl benzyl phthalate	BRL		140	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L01-121121 (DUP)
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 12:12:00 PM
Lab ID:	2112G62-005	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3550C)**					
Caprolactam	820		290	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Carbazole	730	J	350	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Chrysene	6700		150	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Di-n-butyl phthalate	BRL		610	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Di-n-octyl phthalate	BRL		620	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Dibenz(a,h)anthracene	920		270	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Dibenzofuran	BRL		130	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Diethyl phthalate	BRL		130	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Dimethyl phthalate	BRL		110	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Fluoranthene	9100		160	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Fluorene	BRL		220	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Hexachlorobenzene	BRL		210	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Hexachlorobutadiene	BRL		200	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Hexachlorocyclopentadiene	BRL		1400	1500	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Hexachloroethane	BRL		200	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Indeno(1,2,3-cd)pyrene	4600		310	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Isophorone	BRL		240	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
N-Nitrosodi-n-propylamine	BRL		170	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
N-Nitrosodiphenylamine	BRL		110	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Naphthalene	220	J	120	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Nitrobenzene	BRL		140	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Pentachlorophenol	BRL		460	3800	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Phenanthrene	2600		140	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Phenol	1000		140	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Pyrene	6800		290	750	ug/Kg-dry	327269	1	12/14/2021 13:13		YH
Surr: 2,4,6-Tribromophenol	104		0	44.9-127	%REC	327269	1	12/14/2021 13:13		YH
Surr: 2-Fluorobiphenyl	64.2		0	50.1-120	%REC	327269	1	12/14/2021 13:13		YH
Surr: 2-Fluorophenol	62.1		0	40.8-120	%REC	327269	1	12/14/2021 13:13		YH
Surr: 4-Terphenyl-d14	67.6		0	50.9-120	%REC	327269	1	12/14/2021 13:13		YH
Surr: Nitrobenzene-d5	70.6		0	41-120	%REC	327269	1	12/14/2021 13:13		YH
Surr: Phenol-d5	61.5		0	45.3-120	%REC	327269	1	12/14/2021 13:13		YH
TCL VOLATILE ORGANICS SW8260D					**(SW5035)**					
1,1,1-Trichloroethane	BRL		9.8	14	ug/Kg-dry	327330	1	12/14/2021 13:50		RC
1,1,2,2-Tetrachloroethane	BRL		5.1	14	ug/Kg-dry	327330	1	12/14/2021 13:50		RC
1,1,2-Trichloroethane	BRL		5.0	14	ug/Kg-dry	327330	1	12/14/2021 13:50		RC
1,1-Dichloroethane	BRL		6.1	14	ug/Kg-dry	327330	1	12/14/2021 13:50		RC
1,1-Dichloroethene	BRL		6.6	14	ug/Kg-dry	327330	1	12/14/2021 13:50		RC
1,2,4-Trichlorobenzene	BRL		4.8	14	ug/Kg-dry	327330	1	12/14/2021 13:50		RC
1,2-Dibromo-3-chloropropane	BRL		8.2	14	ug/Kg-dry	327330	1	12/14/2021 13:50		RC
1,2-Dibromoethane	BRL		4.0	14	ug/Kg-dry	327330	1	12/14/2021 13:50		RC
1,2-Dichlorobenzene	BRL		5.2	14	ug/Kg-dry	327330	1	12/14/2021 13:50		RC
1,2-Dichloroethane	48		6.1	14	ug/Kg-dry	327330	1	12/14/2021 13:50		RC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L01-121121 (DUP)
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 12:12:00 PM
Lab ID:	2112G62-005	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Batch ID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260D					**(SW5035)**				
1,2-Dichloropropane	BRL		5.4	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
1,3-Dichlorobenzene	BRL		4.5	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
1,4-Dichlorobenzene	BRL		4.3	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
2-Butanone	BRL		13	140	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
2-Hexanone	BRL		10	28	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
4-Methyl-2-pentanone	17	J	7.8	28	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Acetone	420		49	280	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Benzene	31		5.9	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Bromodichloromethane	BRL		6.3	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Bromoform	BRL		5.4	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Bromomethane	BRL		11	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Carbon disulfide	21	J	13	28	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Carbon tetrachloride	BRL		6.5	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Chlorobenzene	BRL		4.9	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Chloroethane	19	J	8.6	28	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Chloroform	BRL		8.7	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Chloromethane	29		7.4	28	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
cis-1,2-Dichloroethene	BRL		7.4	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
cis-1,3-Dichloropropene	BRL		6.1	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Cyclohexane	BRL		9.3	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Dibromochloromethane	BRL		5.1	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Dichlorodifluoromethane	BRL		6.0	28	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Ethylbenzene	30		5.5	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Freon-113	BRL		5.2	28	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Isopropylbenzene	8.2	J	6.0	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
m,p-Xylene	BRL		11	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Methyl acetate	28		8.9	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Methyl tert-butyl ether	BRL		6.0	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Methylcyclohexane	BRL		5.6	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Methylene chloride	BRL		8.9	55	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
o-Xylene	15		5.5	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Styrene	130		5.2	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Tetrachloroethene	BRL		6.3	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Toluene	46		5.7	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
trans-1,2-Dichloroethene	BRL		8.0	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
trans-1,3-Dichloropropene	BRL		6.5	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Trichloroethene	BRL		6.1	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Trichlorofluoromethane	BRL		5.6	14	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Vinyl chloride	BRL		6.9	28	ug/Kg-dry	327330	1	12/14/2021 13:50	RC
Surr: 4-Bromofluorobenzene	71.1		0	65-124	%REC	327330	1	12/14/2021 13:50	RC
Surr: Dibromofluoromethane	101		0	74.8-123	%REC	327330	1	12/14/2021 13:50	RC
Surr: Toluene-d8	89.1		0	69.2-128	%REC	327330	1	12/14/2021 13:50	RC

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L01-121121 (DUP)
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 12:12:00 PM
Lab ID:	2112G62-005	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
METALS, TOTAL SW6010D					**(SW3050B)**					
Aluminum	10100		12.0	77.5	mg/Kg-dry	327304	1	12/14/2021	17:42	KB
Antimony	13.0		0.592	3.88	mg/Kg-dry	327304	1	12/14/2021	17:42	KB
Arsenic	1.08	J	0.763	3.88	mg/Kg-dry	327304	1	12/14/2021	17:42	KB
Barium	86.6		0.265	7.75	mg/Kg-dry	327304	1	12/14/2021	17:42	KB
Beryllium	BRL		0.259	3.88	mg/Kg-dry	327304	1	12/14/2021	17:42	KB
Cadmium	0.362	J	0.161	3.88	mg/Kg-dry	327304	1	12/14/2021	17:42	KB
Calcium	2580		8.05	77.5	mg/Kg-dry	327304	1	12/14/2021	17:42	KB
Chromium	15.3		0.270	3.88	mg/Kg-dry	327304	1	12/14/2021	17:42	KB
Cobalt	110		0.203	3.88	mg/Kg-dry	327304	1	12/14/2021	17:42	KB
Copper	49.9		0.242	3.88	mg/Kg-dry	327304	1	12/14/2021	17:42	KB
Iron	12000		261	1550	mg/Kg-dry	327304	20	12/14/2021	18:21	KB
Lead	15.8		0.696	7.75	mg/Kg-dry	327304	1	12/14/2021	17:42	KB
Magnesium	2910		7.49	77.5	mg/Kg-dry	327304	1	12/14/2021	17:42	KB
Manganese	298		0.247	7.75	mg/Kg-dry	327304	1	12/14/2021	17:42	KB
Nickel	117		0.361	7.75	mg/Kg-dry	327304	1	12/14/2021	17:42	KB
Potassium	1970		16.0	155	mg/Kg-dry	327304	1	12/14/2021	17:42	KB
Selenium	1.49	J	0.628	5.43	mg/Kg-dry	327304	1	12/14/2021	17:42	KB
Silver	0.0868	J	0.0279	3.88	mg/Kg-dry	327304	1	12/14/2021	17:42	KB
Sodium	259		29.5	155	mg/Kg-dry	327304	1	12/14/2021	17:42	KB
Thallium	BRL		0.696	1.55	mg/Kg-dry	327304	1	12/14/2021	17:42	KB
Vanadium	25.6		0.242	7.75	mg/Kg-dry	327304	1	12/14/2021	17:42	KB
Zinc	579		1.20	7.75	mg/Kg-dry	327304	1	12/14/2021	17:42	KB
PERCENT MOISTURE D2216										
Percent Moisture	55.7		0	0	wt%	R472462	1	12/14/2021	00:00	JW

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L02-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 12:25:00 PM
Lab ID:	2112G62-006	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF	Analyst
Total Mercury by SW7473					**(SW7473)**				
Mercury	0.0575	J	0.0507	0.132	mg/Kg-dry	327278	1	12/14/2021 13:58	GR
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3550C)**				
1,1´-Biphenyl	BRL		160	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
2,4,5-Trichlorophenol	BRL		94	2200	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
2,4,6-Trichlorophenol	BRL		92	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
2,4-Dichlorophenol	BRL		98	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
2,4-Dimethylphenol	BRL		110	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
2,4-Dinitrophenol	BRL		1200	2200	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
2,4-Dinitrotoluene	BRL		290	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
2,6-Dinitrotoluene	BRL		230	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
2-Chloronaphthalene	BRL		110	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
2-Chlorophenol	BRL		75	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
2-Methylnaphthalene	BRL		79	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
2-Methylphenol	BRL		83	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
2-Nitroaniline	BRL		130	2200	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
2-Nitrophenol	BRL		120	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
3,3´-Dichlorobenzidine	BRL		130	890	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
3-Nitroaniline	BRL		100	2200	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
4,6-Dinitro-2-methylphenol	BRL		1100	2200	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
4-Bromophenyl phenyl ether	BRL		110	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
4-Chloro-3-methylphenol	BRL		93	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
4-Chloroaniline	BRL		130	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
4-Chlorophenyl phenyl ether	BRL		95	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
4-Methylphenol	BRL		110	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
4-Nitroaniline	BRL		130	2200	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
4-Nitrophenol	BRL		240	2200	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
Acenaphthene	140	J	63	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
Acenaphthylene	BRL		330	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
Acetophenone	BRL		200	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
Anthracene	600		170	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
Atrazine	BRL		260	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
Benz(a)anthracene	5000		82	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
Benzaldehyde	BRL		310	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
Benzo(a)pyrene	6000		130	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
Benzo(b)fluoranthene	12000		1400	4400	ug/Kg-dry	327269	10	12/15/2021 14:34	YH
Benzo(g,h,i)perylene	3300		400	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
Benzo(k)fluoranthene	2500		170	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
Bis(2-chloroethoxy)methane	BRL		92	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
Bis(2-chloroethyl)ether	BRL		100	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
Bis(2-chloroisopropyl)ether	BRL		130	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
Bis(2-ethylhexyl)phthalate	250	J	95	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH
Butyl benzyl phthalate	BRL		82	440	ug/Kg-dry	327269	1	12/14/2021 18:01	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L02-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 12:25:00 PM
Lab ID:	2112G62-006	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3550C)**					
Caprolactam	BRL		170	440	ug/Kg-dry	327269	1	12/14/2021 18:01		YH
Carbazole	930		200	440	ug/Kg-dry	327269	1	12/14/2021 18:01		YH
Chrysene	6900		90	440	ug/Kg-dry	327269	1	12/14/2021 18:01		YH
Di-n-butyl phthalate	BRL		360	440	ug/Kg-dry	327269	1	12/14/2021 18:01		YH
Di-n-octyl phthalate	BRL		360	440	ug/Kg-dry	327269	1	12/14/2021 18:01		YH
Dibenz(a,h)anthracene	1000		160	440	ug/Kg-dry	327269	1	12/14/2021 18:01		YH
Dibenzofuran	BRL		78	440	ug/Kg-dry	327269	1	12/14/2021 18:01		YH
Diethyl phthalate	BRL		77	440	ug/Kg-dry	327269	1	12/14/2021 18:01		YH
Dimethyl phthalate	BRL		63	440	ug/Kg-dry	327269	1	12/14/2021 18:01		YH
Fluoranthene	14000		960	4400	ug/Kg-dry	327269	10	12/15/2021 14:34		YH
Fluorene	190	J	130	440	ug/Kg-dry	327269	1	12/14/2021 18:01		YH
Hexachlorobenzene	BRL		120	440	ug/Kg-dry	327269	1	12/14/2021 18:01		YH
Hexachlorobutadiene	BRL		120	440	ug/Kg-dry	327269	1	12/14/2021 18:01		YH
Hexachlorocyclopentadiene	BRL		830	870	ug/Kg-dry	327269	1	12/14/2021 18:01		YH
Hexachloroethane	BRL		120	440	ug/Kg-dry	327269	1	12/14/2021 18:01		YH
Indeno(1,2,3-cd)pyrene	2900		180	440	ug/Kg-dry	327269	1	12/14/2021 18:01		YH
Isophorone	BRL		140	440	ug/Kg-dry	327269	1	12/14/2021 18:01		YH
N-Nitrosodi-n-propylamine	BRL		97	440	ug/Kg-dry	327269	1	12/14/2021 18:01		YH
N-Nitrosodiphenylamine	BRL		62	440	ug/Kg-dry	327269	1	12/14/2021 18:01		YH
Naphthalene	BRL		70	440	ug/Kg-dry	327269	1	12/14/2021 18:01		YH
Nitrobenzene	BRL		85	440	ug/Kg-dry	327269	1	12/14/2021 18:01		YH
Pentachlorophenol	BRL		270	2200	ug/Kg-dry	327269	1	12/14/2021 18:01		YH
Phenanthrene	4300		83	440	ug/Kg-dry	327269	1	12/14/2021 18:01		YH
Phenol	BRL		80	440	ug/Kg-dry	327269	1	12/14/2021 18:01		YH
Pyrene	10000		1700	4400	ug/Kg-dry	327269	10	12/15/2021 14:34		YH
Surr: 2,4,6-Tribromophenol	61.7		0	44.9-127	%REC	327269	1	12/14/2021 18:01		YH
Surr: 2-Fluorobiphenyl	52.2		0	50.1-120	%REC	327269	1	12/14/2021 18:01		YH
Surr: 2-Fluorophenol	46.8		0	40.8-120	%REC	327269	1	12/14/2021 18:01		YH
Surr: 4-Terphenyl-d14	53.5		0	50.9-120	%REC	327269	1	12/14/2021 18:01		YH
Surr: Nitrobenzene-d5	53.6		0	41-120	%REC	327269	1	12/14/2021 18:01		YH
Surr: Phenol-d5	48.3		0	45.3-120	%REC	327269	1	12/14/2021 18:01		YH
TCL VOLATILE ORGANICS SW8260D					**(SW5035)**					
1,1,1-Trichloroethane	BRL		3.7	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
1,1,2,2-Tetrachloroethane	BRL		1.9	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
1,1,2-Trichloroethane	BRL		1.9	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
1,1-Dichloroethane	BRL		2.3	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
1,1-Dichloroethene	BRL		2.5	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
1,2,4-Trichlorobenzene	BRL		1.8	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
1,2-Dibromo-3-chloropropane	BRL		3.1	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
1,2-Dibromoethane	BRL		1.5	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
1,2-Dichlorobenzene	BRL		2.0	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
1,2-Dichloroethane	BRL		2.3	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L02-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 12:25:00 PM
Lab ID:	2112G62-006	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
TCL VOLATILE ORGANICS SW8260D					**(SW5035)**					
1,2-Dichloropropane	BRL		2.0	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
1,3-Dichlorobenzene	BRL		1.7	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
1,4-Dichlorobenzene	BRL		1.6	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
2-Butanone	BRL		5.0	52	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
2-Hexanone	BRL		3.9	10	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
4-Methyl-2-pentanone	BRL		3.0	10	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Acetone	BRL		19	100	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Benzene	BRL		2.2	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Bromodichloromethane	BRL		2.4	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Bromoform	BRL		2.0	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Bromomethane	BRL		4.2	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Carbon disulfide	BRL		4.8	10	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Carbon tetrachloride	BRL		2.4	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Chlorobenzene	BRL		1.8	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Chloroethane	BRL		3.2	10	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Chloroform	BRL		3.3	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Chloromethane	BRL		2.8	10	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
cis-1,2-Dichloroethene	BRL		2.8	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
cis-1,3-Dichloropropene	BRL		2.3	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Cyclohexane	BRL		3.5	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Dibromochloromethane	BRL		1.9	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Dichlorodifluoromethane	BRL		2.3	10	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Ethylbenzene	BRL		2.1	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Freon-113	BRL		2.0	10	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Isopropylbenzene	BRL		2.3	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
m,p-Xylene	BRL		4.1	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Methyl acetate	BRL		3.4	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Methyl tert-butyl ether	BRL		2.3	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Methylcyclohexane	BRL		2.1	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Methylene chloride	BRL		3.4	21	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
o-Xylene	BRL		2.1	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Styrene	BRL		2.0	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Tetrachloroethene	BRL		2.4	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Toluene	BRL		2.2	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
trans-1,2-Dichloroethene	BRL		3.0	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
trans-1,3-Dichloropropene	BRL		2.5	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Trichloroethene	BRL		2.3	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Trichlorofluoromethane	BRL		2.1	5.2	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Vinyl chloride	BRL		2.6	10	ug/Kg-dry	327330	1	12/14/2021 18:36		RC
Surr: 4-Bromofluorobenzene	84.9		0	65-124	%REC	327330	1	12/14/2021 18:36		RC
Surr: Dibromofluoromethane	99.2		0	74.8-123	%REC	327330	1	12/14/2021 18:36		RC
Surr: Toluene-d8	93.3		0	69.2-128	%REC	327330	1	12/14/2021 18:36		RC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L02-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 12:25:00 PM
Lab ID:	2112G62-006	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF	Analyst
METALS, TOTAL SW6010D (SW3050B)									
Aluminum	3860		7.10	45.8	mg/Kg-dry	12/14/2021 17:03	327304	1	KB
Antimony	2.54		0.350	2.29	mg/Kg-dry	12/14/2021 17:03	327304	1	KB
Arsenic	BRL		0.451	2.29	mg/Kg-dry	12/14/2021 17:03	327304	1	KB
Barium	40.3		0.157	4.58	mg/Kg-dry	12/14/2021 17:03	327304	1	KB
Beryllium	BRL		0.153	2.29	mg/Kg-dry	12/14/2021 17:03	327304	1	KB
Cadmium	0.114	J	0.0953	2.29	mg/Kg-dry	12/14/2021 17:03	327304	1	KB
Calcium	992		4.75	45.8	mg/Kg-dry	12/14/2021 17:03	327304	1	KB
Chromium	8.79		0.159	2.29	mg/Kg-dry	12/14/2021 17:03	327304	1	KB
Cobalt	28.1		0.120	2.29	mg/Kg-dry	12/14/2021 17:03	327304	1	KB
Copper	16.3		0.143	2.29	mg/Kg-dry	12/14/2021 17:03	327304	1	KB
Iron	8320		154	916	mg/Kg-dry	12/14/2021 18:05	327304	20	KB
Lead	4.40	J	0.411	4.58	mg/Kg-dry	12/14/2021 17:03	327304	1	KB
Magnesium	1180		4.42	45.8	mg/Kg-dry	12/14/2021 17:03	327304	1	KB
Manganese	155		0.146	4.58	mg/Kg-dry	12/14/2021 17:03	327304	1	KB
Nickel	44.4		0.213	4.58	mg/Kg-dry	12/14/2021 17:03	327304	1	KB
Potassium	1050		9.44	91.6	mg/Kg-dry	12/14/2021 17:03	327304	1	KB
Selenium	0.914	J	0.371	3.21	mg/Kg-dry	12/14/2021 17:03	327304	1	KB
Silver	BRL		0.0165	2.29	mg/Kg-dry	12/14/2021 17:03	327304	1	KB
Sodium	130		17.4	91.6	mg/Kg-dry	12/14/2021 17:03	327304	1	KB
Thallium	BRL		0.411	0.916	mg/Kg-dry	12/14/2021 17:03	327304	1	KB
Vanadium	12.1		0.143	4.58	mg/Kg-dry	12/14/2021 17:03	327304	1	KB
Zinc	241		0.710	4.58	mg/Kg-dry	12/14/2021 17:03	327304	1	KB
PERCENT MOISTURE D2216									
Percent Moisture	24.3		0	0	wt%	12/14/2021 00:00	R472462	1	JW

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L03-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 12:50:00 PM
Lab ID:	2112G62-007	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF	Analyst
Total Mercury by SW7473					**(SW7473)**				
Mercury	BRL		0.0515	0.134	mg/Kg-dry	327278	1	12/14/2021 14:06	GR
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3550C)**				
1,1´-Biphenyl	BRL		160	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
2,4,5-Trichlorophenol	BRL		96	2300	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
2,4,6-Trichlorophenol	BRL		93	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
2,4-Dichlorophenol	BRL		99	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
2,4-Dimethylphenol	BRL		110	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
2,4-Dinitrophenol	BRL		1300	2300	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
2,4-Dinitrotoluene	BRL		290	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
2,6-Dinitrotoluene	BRL		230	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
2-Chloronaphthalene	BRL		120	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
2-Chlorophenol	BRL		77	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
2-Methylnaphthalene	BRL		81	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
2-Methylphenol	BRL		84	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
2-Nitroaniline	BRL		130	2300	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
2-Nitrophenol	BRL		120	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
3,3´-Dichlorobenzidine	BRL		130	900	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
3-Nitroaniline	BRL		100	2300	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
4,6-Dinitro-2-methylphenol	BRL		1100	2300	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
4-Bromophenyl phenyl ether	BRL		110	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
4-Chloro-3-methylphenol	BRL		94	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
4-Chloroaniline	BRL		130	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
4-Chlorophenyl phenyl ether	BRL		96	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
4-Methylphenol	BRL		110	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
4-Nitroaniline	BRL		130	2300	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
4-Nitrophenol	BRL		240	2300	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Acenaphthene	BRL		64	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Acenaphthylene	BRL		330	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Acetophenone	BRL		210	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Anthracene	210	J	170	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Atrazine	BRL		270	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Benz(a)anthracene	2400		84	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Benzaldehyde	BRL		310	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Benzo(a)pyrene	2800		140	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Benzo(b)fluoranthene	5500		140	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Benzo(g,h,i)perylene	1700		410	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Benzo(k)fluoranthene	BRL		170	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Bis(2-chloroethoxy)methane	BRL		93	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Bis(2-chloroethyl)ether	BRL		100	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Bis(2-chloroisopropyl)ether	BRL		130	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Bis(2-ethylhexyl)phthalate	99	J	96	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Butyl benzyl phthalate	BRL		83	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L03-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 12:50:00 PM
Lab ID:	2112G62-007	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Batch ID	DF	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3550C)**				
Caprolactam	BRL		170	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Carbazole	430	J	210	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Chrysene	3500		91	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Di-n-butyl phthalate	BRL		360	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Di-n-octyl phthalate	BRL		370	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Dibenz(a,h)anthracene	520		160	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Dibenzofuran	BRL		79	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Diethyl phthalate	BRL		79	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Dimethyl phthalate	BRL		64	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Fluoranthene	6100		98	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Fluorene	BRL		130	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Hexachlorobenzene	BRL		130	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Hexachlorobutadiene	BRL		120	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Hexachlorocyclopentadiene	BRL		840	880	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Hexachloroethane	BRL		120	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Indeno(1,2,3-cd)pyrene	1800		180	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Isophorone	BRL		140	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
N-Nitrosodi-n-propylamine	BRL		98	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
N-Nitrosodiphenylamine	BRL		63	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Naphthalene	BRL		71	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Nitrobenzene	BRL		86	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Pentachlorophenol	BRL		270	2300	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Phenanthrene	1800		85	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Phenol	BRL		81	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Pyrene	4400		170	440	ug/Kg-dry	327269	1	12/14/2021 13:38	YH
Surr: 2,4,6-Tribromophenol	60.9		0	44.9-127	%REC	327269	1	12/14/2021 13:38	YH
Surr: 2-Fluorobiphenyl	47	S	0	50.1-120	%REC	327269	1	12/14/2021 13:38	YH
Surr: 2-Fluorophenol	42.4		0	40.8-120	%REC	327269	1	12/14/2021 13:38	YH
Surr: 4-Terphenyl-d14	46.3	S	0	50.9-120	%REC	327269	1	12/14/2021 13:38	YH
Surr: Nitrobenzene-d5	48		0	41-120	%REC	327269	1	12/14/2021 13:38	YH
Surr: Phenol-d5	42.9	S	0	45.3-120	%REC	327269	1	12/14/2021 13:38	YH
TCL VOLATILE ORGANICS SW8260D					**(SW5035)**				
1,1,1-Trichloroethane	BRL		5.4	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39	RC
1,1,2,2-Tetrachloroethane	BRL		2.8	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39	RC
1,1,2-Trichloroethane	BRL		2.7	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39	RC
1,1-Dichloroethane	BRL		3.3	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39	RC
1,1-Dichloroethene	BRL		3.6	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39	RC
1,2,4-Trichlorobenzene	BRL		2.6	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39	RC
1,2-Dibromo-3-chloropropane	BRL		4.5	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39	RC
1,2-Dibromoethane	BRL		2.2	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39	RC
1,2-Dichlorobenzene	BRL		2.9	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39	RC
1,2-Dichloroethane	BRL		3.4	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39	RC

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L03-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 12:50:00 PM
Lab ID:	2112G62-007	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
TCL VOLATILE ORGANICS SW8260D					**(SW5035)**					
1,2-Dichloropropane	BRL		3.0	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
1,3-Dichlorobenzene	BRL		2.5	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
1,4-Dichlorobenzene	BRL		2.4	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
2-Butanone	26	J	7.3	76	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
2-Hexanone	BRL		5.7	15	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
4-Methyl-2-pentanone	7.7	J	4.3	15	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Acetone	240		27	150	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Benzene	BRL		3.2	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Bromodichloromethane	BRL		3.5	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Bromoform	BRL		3.0	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Bromomethane	BRL		6.1	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Carbon disulfide	BRL		6.9	15	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Carbon tetrachloride	BRL		3.6	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Chlorobenzene	BRL		2.7	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Chloroethane	BRL		4.7	15	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Chloroform	BRL		4.8	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Chloromethane	BRL		4.0	15	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
cis-1,2-Dichloroethene	BRL		4.1	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
cis-1,3-Dichloropropene	BRL		3.4	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Cyclohexane	BRL		5.1	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Dibromochloromethane	BRL		2.8	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Dichlorodifluoromethane	BRL		3.3	15	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Ethylbenzene	7.8		3.0	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Freon-113	BRL		2.9	15	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Isopropylbenzene	BRL		3.3	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
m,p-Xylene	BRL		6.0	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Methyl acetate	BRL		4.9	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Methyl tert-butyl ether	16		3.3	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Methylcyclohexane	BRL		3.1	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Methylene chloride	BRL		4.9	30	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
o-Xylene	6.3	J	3.0	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Styrene	89		2.9	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Tetrachloroethene	BRL		3.5	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Toluene	4.6	J	3.2	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
trans-1,2-Dichloroethene	BRL		4.4	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
trans-1,3-Dichloropropene	BRL		3.6	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Trichloroethene	BRL		3.3	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Trichlorofluoromethane	BRL		3.1	7.6	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Vinyl chloride	BRL		3.8	15	ug/Kg-dry	327330	1	12/14/2021 20:39		RC
Surr: 4-Bromofluorobenzene	79.6		0	65-124	%REC	327330	1	12/14/2021 20:39		RC
Surr: Dibromofluoromethane	102		0	74.8-123	%REC	327330	1	12/14/2021 20:39		RC
Surr: Toluene-d8	92		0	69.2-128	%REC	327330	1	12/14/2021 20:39		RC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L03-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 12:50:00 PM
Lab ID:	2112G62-007	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF	Analyst
METALS, TOTAL SW6010D						**(SW3050B)**			
Aluminum	4580		7.14	46.1	mg/Kg-dry	327304	1	12/14/2021 17:46	KB
Antimony	3.83		0.352	2.30	mg/Kg-dry	327304	1	12/14/2021 17:46	KB
Arsenic	0.713	J	0.453	2.30	mg/Kg-dry	327304	1	12/14/2021 17:46	KB
Barium	32.6		0.158	4.61	mg/Kg-dry	327304	1	12/14/2021 17:46	KB
Beryllium	BRL		0.154	2.30	mg/Kg-dry	327304	1	12/14/2021 17:46	KB
Cadmium	BRL		0.0958	2.30	mg/Kg-dry	327304	1	12/14/2021 17:46	KB
Calcium	636		4.78	46.1	mg/Kg-dry	327304	1	12/14/2021 17:46	KB
Chromium	7.99		0.160	2.30	mg/Kg-dry	327304	1	12/14/2021 17:46	KB
Cobalt	26.1		0.121	2.30	mg/Kg-dry	327304	1	12/14/2021 17:46	KB
Copper	18.1		0.144	2.30	mg/Kg-dry	327304	1	12/14/2021 17:46	KB
Iron	10500		155	921	mg/Kg-dry	327304	20	12/14/2021 18:24	KB
Lead	8.08		0.414	4.61	mg/Kg-dry	327304	1	12/14/2021 17:46	KB
Magnesium	1180		4.45	46.1	mg/Kg-dry	327304	1	12/14/2021 17:46	KB
Manganese	122		0.146	4.61	mg/Kg-dry	327304	1	12/14/2021 17:46	KB
Nickel	43.4		0.215	4.61	mg/Kg-dry	327304	1	12/14/2021 17:46	KB
Potassium	894		9.49	92.1	mg/Kg-dry	327304	1	12/14/2021 17:46	KB
Selenium	0.504	J	0.373	3.22	mg/Kg-dry	327304	1	12/14/2021 17:46	KB
Silver	BRL		0.0166	2.30	mg/Kg-dry	327304	1	12/14/2021 17:46	KB
Sodium	110		17.5	92.1	mg/Kg-dry	327304	1	12/14/2021 17:46	KB
Thallium	BRL		0.414	0.921	mg/Kg-dry	327304	1	12/14/2021 17:46	KB
Vanadium	19.8		0.144	4.61	mg/Kg-dry	327304	1	12/14/2021 17:46	KB
Zinc	281		0.714	4.61	mg/Kg-dry	327304	1	12/14/2021 17:46	KB
PERCENT MOISTURE D2216									
Percent Moisture	25.4		0	0	wt%	R472462	1	12/14/2021 00:00	JW

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
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N	Analyte not NELAC certified	>	Greater than Result value
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F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L04-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 2:00:00 PM
Lab ID:	2112G62-008	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Date Analyzed	Units	Batch ID	DF		Analyst
Total Mercury by SW7473					**(SW7473)**					
Mercury	0.120	J	0.0726	0.189	mg/Kg-dry	327278	1	12/14/2021 14:14		GR
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3550C)**					
1,1´-Biphenyl	BRL		230	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
2,4,5-Trichlorophenol	BRL		130	3200	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
2,4,6-Trichlorophenol	BRL		130	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
2,4-Dichlorophenol	BRL		140	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
2,4-Dimethylphenol	BRL		150	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
2,4-Dinitrophenol	BRL		1800	3200	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
2,4-Dinitrotoluene	BRL		410	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
2,6-Dinitrotoluene	BRL		330	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
2-Chloronaphthalene	BRL		160	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
2-Chlorophenol	BRL		110	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
2-Methylnaphthalene	BRL		110	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
2-Methylphenol	BRL		120	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
2-Nitroaniline	BRL		190	3200	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
2-Nitrophenol	BRL		170	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
3,3´-Dichlorobenzidine	BRL		180	1300	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
3-Nitroaniline	BRL		140	3200	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
4,6-Dinitro-2-methylphenol	BRL		1600	3200	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
4-Bromophenyl phenyl ether	BRL		160	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
4-Chloro-3-methylphenol	BRL		130	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
4-Chloroaniline	BRL		180	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
4-Chlorophenyl phenyl ether	BRL		140	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
4-Methylphenol	BRL		160	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
4-Nitroaniline	BRL		190	3200	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
4-Nitrophenol	BRL		340	3200	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Acenaphthene	BRL		90	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Acenaphthylene	BRL		470	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Acetophenone	BRL		290	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Anthracene	BRL		240	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Atrazine	BRL		380	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Benz(a)anthracene	670		120	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Benzaldehyde	BRL		440	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Benzo(a)pyrene	940		190	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Benzo(b)fluoranthene	2200		200	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Benzo(g,h,i)perylene	640		580	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Benzo(k)fluoranthene	BRL		240	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Bis(2-chloroethoxy)methane	BRL		130	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Bis(2-chloroethyl)ether	BRL		150	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Bis(2-chloroisopropyl)ether	BRL		190	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Bis(2-ethylhexyl)phthalate	BRL		140	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Butyl benzyl phthalate	1700		120	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L04-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 2:00:00 PM
Lab ID:	2112G62-008	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3550C)**					
Caprolactam	BRL		240	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Carbazole	BRL		290	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Chrysene	1200		130	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Di-n-butyl phthalate	BRL		510	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Di-n-octyl phthalate	BRL		520	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Dibenz(a,h)anthracene	BRL		220	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Dibenzofuran	BRL		110	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Diethyl phthalate	BRL		110	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Dimethyl phthalate	BRL		90	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Fluoranthene	2100		140	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Fluorene	BRL		180	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Hexachlorobenzene	BRL		180	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Hexachlorobutadiene	BRL		170	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Hexachlorocyclopentadiene	BRL		1200	1200	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Hexachloroethane	BRL		160	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Indeno(1,2,3-cd)pyrene	560	J	260	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Isophorone	BRL		200	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
N-Nitrosodi-n-propylamine	BRL		140	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
N-Nitrosodiphenylamine	BRL		89	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Naphthalene	BRL		100	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Nitrobenzene	BRL		120	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Pentachlorophenol	BRL		380	3200	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Phenanthrene	530	J	120	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Phenol	BRL		110	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Pyrene	1500		240	620	ug/Kg-dry	327269	1	12/14/2021 14:05		YH
Surr: 2,4,6-Tribromophenol	94.9		0	44.9-127	%REC	327269	1	12/14/2021 14:05		YH
Surr: 2-Fluorobiphenyl	72.5		0	50.1-120	%REC	327269	1	12/14/2021 14:05		YH
Surr: 2-Fluorophenol	62.7		0	40.8-120	%REC	327269	1	12/14/2021 14:05		YH
Surr: 4-Terphenyl-d14	79.4		0	50.9-120	%REC	327269	1	12/14/2021 14:05		YH
Surr: Nitrobenzene-d5	75.9		0	41-120	%REC	327269	1	12/14/2021 14:05		YH
Surr: Phenol-d5	67.4		0	45.3-120	%REC	327269	1	12/14/2021 14:05		YH
TCL VOLATILE ORGANICS SW8260D					**(SW5035)**					
1,1,1-Trichloroethane	BRL		14	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
1,1,2,2-Tetrachloroethane	BRL		7.4	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
1,1,2-Trichloroethane	BRL		7.2	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
1,1-Dichloroethane	BRL		8.8	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
1,1-Dichloroethene	BRL		9.6	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
1,2,4-Trichlorobenzene	BRL		6.9	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
1,2-Dibromo-3-chloropropane	BRL		12	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
1,2-Dibromoethane	BRL		5.8	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
1,2-Dichlorobenzene	BRL		7.6	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
1,2-Dichloroethane	BRL		8.9	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L04-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 2:00:00 PM
Lab ID:	2112G62-008	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
TCL VOLATILE ORGANICS SW8260D					**(SW5035)**					
1,2-Dichloropropane	BRL		7.9	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
1,3-Dichlorobenzene	BRL		6.5	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
1,4-Dichlorobenzene	BRL		6.2	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
2-Butanone	BRL		19	200	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
2-Hexanone	BRL		15	40	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
4-Methyl-2-pentanone	BRL		11	40	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Acetone	1300		71	400	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Benzene	BRL		8.6	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Bromodichloromethane	BRL		9.1	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Bromoform	BRL		7.8	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Bromomethane	BRL		16	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Carbon disulfide	BRL		18	40	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Carbon tetrachloride	BRL		9.4	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Chlorobenzene	BRL		7.1	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Chloroethane	BRL		12	40	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Chloroform	BRL		13	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Chloromethane	BRL		11	40	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
cis-1,2-Dichloroethene	BRL		11	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
cis-1,3-Dichloropropene	BRL		8.9	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Cyclohexane	BRL		14	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Dibromochloromethane	BRL		7.4	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Dichlorodifluoromethane	BRL		8.8	40	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Ethylbenzene	BRL		8.0	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Freon-113	BRL		7.5	40	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Isopropylbenzene	BRL		8.8	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
m,p-Xylene	BRL		16	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Methyl acetate	BRL		13	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Methyl tert-butyl ether	BRL		8.7	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Methylcyclohexane	BRL		8.2	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Methylene chloride	BRL		13	80	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
o-Xylene	BRL		7.9	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Styrene	BRL		7.6	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Tetrachloroethene	BRL		9.2	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Toluene	BRL		8.3	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
trans-1,2-Dichloroethene	BRL		12	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
trans-1,3-Dichloropropene	BRL		9.5	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Trichloroethene	BRL		8.8	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Trichlorofluoromethane	BRL		8.1	20	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Vinyl chloride	BRL		10	40	ug/Kg-dry	327330	1	12/14/2021 21:04		RC
Surr: 4-Bromofluorobenzene	74.8		0	65-124	%REC	327330	1	12/14/2021 21:04		RC
Surr: Dibromofluoromethane	99.5		0	74.8-123	%REC	327330	1	12/14/2021 21:04		RC
Surr: Toluene-d8	88.7		0	69.2-128	%REC	327330	1	12/14/2021 21:04		RC

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L04-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 2:00:00 PM
Lab ID:	2112G62-008	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
METALS, TOTAL SW6010D					**(SW3050B)**					
Aluminum	4320		11.0	71.3	mg/Kg-dry	327304	1	12/14/2021	17:49	KB
Antimony	BRL		0.545	3.56	mg/Kg-dry	327304	1	12/14/2021	17:49	KB
Arsenic	BRL		0.701	3.56	mg/Kg-dry	327304	1	12/14/2021	17:49	KB
Barium	63.3		0.244	7.13	mg/Kg-dry	327304	1	12/14/2021	17:49	KB
Beryllium	BRL		0.238	3.56	mg/Kg-dry	327304	1	12/14/2021	17:49	KB
Cadmium	0.206	J	0.148	3.56	mg/Kg-dry	327304	1	12/14/2021	17:49	KB
Calcium	3860		7.40	71.3	mg/Kg-dry	327304	1	12/14/2021	17:49	KB
Chromium	8.54		0.248	3.56	mg/Kg-dry	327304	1	12/14/2021	17:49	KB
Cobalt	0.941	J	0.187	3.56	mg/Kg-dry	327304	1	12/14/2021	17:49	KB
Copper	6.01		0.222	3.56	mg/Kg-dry	327304	1	12/14/2021	17:49	KB
Iron	5030		240	1430	mg/Kg-dry	327304	20	12/14/2021	18:27	KB
Lead	6.26	J	0.640	7.13	mg/Kg-dry	327304	1	12/14/2021	17:49	KB
Magnesium	651		6.88	71.3	mg/Kg-dry	327304	1	12/14/2021	17:49	KB
Manganese	582		0.227	7.13	mg/Kg-dry	327304	1	12/14/2021	17:49	KB
Nickel	4.22	J	0.332	7.13	mg/Kg-dry	327304	1	12/14/2021	17:49	KB
Potassium	904		14.7	143	mg/Kg-dry	327304	1	12/14/2021	17:49	KB
Selenium	1.49	J	0.577	4.99	mg/Kg-dry	327304	1	12/14/2021	17:49	KB
Silver	0.0456	J	0.0257	3.56	mg/Kg-dry	327304	1	12/14/2021	17:49	KB
Sodium	157		27.1	143	mg/Kg-dry	327304	1	12/14/2021	17:49	KB
Thallium	BRL		0.640	1.43	mg/Kg-dry	327304	1	12/14/2021	17:49	KB
Vanadium	9.28		0.222	7.13	mg/Kg-dry	327304	1	12/14/2021	17:49	KB
Zinc	58.9		1.10	7.13	mg/Kg-dry	327304	1	12/14/2021	17:49	KB
PERCENT MOISTURE D2216										
Percent Moisture	47.1		0	0	wt%	R472462	1	12/14/2021	00:00	JW

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L05-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 2:35:00 PM
Lab ID:	2112G62-009	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
Total Mercury by SW7473					**(SW7473)**					
Mercury	BRL		0.0657	0.171	mg/Kg-dry	327278	1	12/14/2021 14:22		GR
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3550C)**					
1,1´-Biphenyl	BRL		210	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
2,4,5-Trichlorophenol	BRL		120	2900	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
2,4,6-Trichlorophenol	BRL		120	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
2,4-Dichlorophenol	BRL		130	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
2,4-Dimethylphenol	BRL		140	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
2,4-Dinitrophenol	BRL		1600	2900	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
2,4-Dinitrotoluene	BRL		370	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
2,6-Dinitrotoluene	BRL		300	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
2-Chloronaphthalene	BRL		150	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
2-Chlorophenol	BRL		98	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
2-Methylnaphthalene	BRL		100	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
2-Methylphenol	BRL		110	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
2-Nitroaniline	BRL		170	2900	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
2-Nitrophenol	BRL		160	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
3,3´-Dichlorobenzidine	BRL		170	1100	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
3-Nitroaniline	BRL		130	2900	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
4,6-Dinitro-2-methylphenol	BRL		1400	2900	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
4-Bromophenyl phenyl ether	BRL		140	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
4-Chloro-3-methylphenol	BRL		120	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
4-Chloroaniline	BRL		160	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
4-Chlorophenyl phenyl ether	BRL		120	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
4-Methylphenol	BRL		140	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
4-Nitroaniline	BRL		170	2900	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
4-Nitrophenol	BRL		300	2900	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Acenaphthene	BRL		82	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Acenaphthylene	BRL		430	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Acetophenone	BRL		270	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Anthracene	BRL		210	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Atrazine	BRL		340	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Benz(a)anthracene	1000		110	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Benzaldehyde	BRL		400	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Benzo(a)pyrene	1800		170	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Benzo(b)fluoranthene	4500		180	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Benzo(g,h,i)perylene	1400		520	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Benzo(k)fluoranthene	BRL		220	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Bis(2-chloroethoxy)methane	BRL		120	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Bis(2-chloroethyl)ether	BRL		130	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Bis(2-chloroisopropyl)ether	BRL		170	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Bis(2-ethylhexyl)phthalate	170	J	120	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Butyl benzyl phthalate	BRL		110	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
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- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L05-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 2:35:00 PM
Lab ID:	2112G62-009	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3550C)**					
Caprolactam	BRL		220	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Carbazole	BRL		260	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Chrysene	2300		120	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Di-n-butyl phthalate	BRL		460	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Di-n-octyl phthalate	BRL		470	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Dibenz(a,h)anthracene	380	J	200	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Dibenzofuran	BRL		100	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Diethyl phthalate	BRL		100	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Dimethyl phthalate	BRL		81	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Fluoranthene	3000		120	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Fluorene	BRL		160	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Hexachlorobenzene	BRL		160	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Hexachlorobutadiene	BRL		150	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Hexachlorocyclopentadiene	BRL		1100	1100	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Hexachloroethane	BRL		150	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Indeno(1,2,3-cd)pyrene	1300		230	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Isophorone	BRL		180	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
N-Nitrosodi-n-propylamine	BRL		130	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
N-Nitrosodiphenylamine	BRL		80	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Naphthalene	BRL		91	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Nitrobenzene	BRL		110	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Pentachlorophenol	BRL		350	2900	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Phenanthrene	720		110	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Phenol	BRL		100	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Pyrene	2300		220	560	ug/Kg-dry	327269	1	12/14/2021 14:30		YH
Surr: 2,4,6-Tribromophenol	89.6		0	44.9-127	%REC	327269	1	12/14/2021 14:30		YH
Surr: 2-Fluorobiphenyl	72.2		0	50.1-120	%REC	327269	1	12/14/2021 14:30		YH
Surr: 2-Fluorophenol	64.1		0	40.8-120	%REC	327269	1	12/14/2021 14:30		YH
Surr: 4-Terphenyl-d14	70.7		0	50.9-120	%REC	327269	1	12/14/2021 14:30		YH
Surr: Nitrobenzene-d5	73.4		0	41-120	%REC	327269	1	12/14/2021 14:30		YH
Surr: Phenol-d5	65.8		0	45.3-120	%REC	327269	1	12/14/2021 14:30		YH
TCL VOLATILE ORGANICS SW8260D					**(SW5035)**					
1,1,1-Trichloroethane	BRL		6.1	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
1,1,2,2-Tetrachloroethane	BRL		3.2	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
1,1,2-Trichloroethane	BRL		3.1	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
1,1-Dichloroethane	BRL		3.8	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
1,1-Dichloroethene	BRL		4.1	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
1,2,4-Trichlorobenzene	BRL		3.0	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
1,2-Dibromo-3-chloropropane	BRL		5.1	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
1,2-Dibromoethane	BRL		2.5	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
1,2-Dichlorobenzene	BRL		3.3	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
1,2-Dichloroethane	BRL		3.8	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L05-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 2:35:00 PM
Lab ID:	2112G62-009	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
TCL VOLATILE ORGANICS SW8260D					**(SW5035)**					
1,2-Dichloropropane	BRL		3.4	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
1,3-Dichlorobenzene	BRL		2.8	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
1,4-Dichlorobenzene	BRL		2.7	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
2-Butanone	BRL		8.3	86	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
2-Hexanone	BRL		6.4	17	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
4-Methyl-2-pentanone	BRL		4.9	17	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Acetone	84	J	30	170	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Benzene	BRL		3.7	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Bromodichloromethane	BRL		3.9	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Bromoform	BRL		3.3	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Bromomethane	BRL		6.9	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Carbon disulfide	BRL		7.8	17	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Carbon tetrachloride	BRL		4.0	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Chlorobenzene	BRL		3.0	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Chloroethane	BRL		5.3	17	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Chloroform	BRL		5.4	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Chloromethane	BRL		4.6	17	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
cis-1,2-Dichloroethene	BRL		4.6	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
cis-1,3-Dichloropropene	BRL		3.8	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Cyclohexane	BRL		5.8	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Dibromochloromethane	BRL		3.2	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Dichlorodifluoromethane	BRL		3.8	17	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Ethylbenzene	BRL		3.4	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Freon-113	BRL		3.2	17	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Isopropylbenzene	BRL		3.8	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
m,p-Xylene	BRL		6.8	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Methyl acetate	BRL		5.6	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Methyl tert-butyl ether	BRL		3.7	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Methylcyclohexane	BRL		3.5	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Methylene chloride	BRL		5.5	34	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
o-Xylene	BRL		3.4	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Styrene	BRL		3.2	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Tetrachloroethene	BRL		3.9	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Toluene	BRL		3.6	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
trans-1,2-Dichloroethene	BRL		5.0	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
trans-1,3-Dichloropropene	BRL		4.0	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Trichloroethene	BRL		3.8	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Trichlorofluoromethane	BRL		3.5	8.6	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Vinyl chloride	BRL		4.3	17	ug/Kg-dry	327330	1	12/14/2021 21:28		RC
Surr: 4-Bromofluorobenzene	78.5		0	65-124	%REC	327330	1	12/14/2021 21:28		RC
Surr: Dibromofluoromethane	97.1		0	74.8-123	%REC	327330	1	12/14/2021 21:28		RC
Surr: Toluene-d8	92.5		0	69.2-128	%REC	327330	1	12/14/2021 21:28		RC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L05-121121
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/11/2021 2:35:00 PM
Lab ID:	2112G62-009	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
METALS, TOTAL SW6010D					**(SW3050B)**					
Aluminum	8480		9.52	61.4	mg/Kg-dry	327304	1	12/14/2021	17:52	KB
Antimony	BRL		0.469	3.07	mg/Kg-dry	327304	1	12/14/2021	17:52	KB
Arsenic	1.50	J	0.604	3.07	mg/Kg-dry	327304	1	12/14/2021	17:52	KB
Barium	43.7		0.210	6.14	mg/Kg-dry	327304	1	12/14/2021	17:52	KB
Beryllium	BRL		0.205	3.07	mg/Kg-dry	327304	1	12/14/2021	17:52	KB
Cadmium	0.209	J	0.128	3.07	mg/Kg-dry	327304	1	12/14/2021	17:52	KB
Calcium	1370		6.38	61.4	mg/Kg-dry	327304	1	12/14/2021	17:52	KB
Chromium	9.19		0.214	3.07	mg/Kg-dry	327304	1	12/14/2021	17:52	KB
Cobalt	1.75	J	0.161	3.07	mg/Kg-dry	327304	1	12/14/2021	17:52	KB
Copper	12.8		0.192	3.07	mg/Kg-dry	327304	1	12/14/2021	17:52	KB
Iron	9400		207	1230	mg/Kg-dry	327304	20	12/14/2021	18:30	KB
Lead	12.0		0.552	6.14	mg/Kg-dry	327304	1	12/14/2021	17:52	KB
Magnesium	1000		5.93	61.4	mg/Kg-dry	327304	1	12/14/2021	17:52	KB
Manganese	196		0.195	6.14	mg/Kg-dry	327304	1	12/14/2021	17:52	KB
Nickel	6.44		0.286	6.14	mg/Kg-dry	327304	1	12/14/2021	17:52	KB
Potassium	1210		12.7	123	mg/Kg-dry	327304	1	12/14/2021	17:52	KB
Selenium	1.33	J	0.497	4.30	mg/Kg-dry	327304	1	12/14/2021	17:52	KB
Silver	BRL		0.0221	3.07	mg/Kg-dry	327304	1	12/14/2021	17:52	KB
Sodium	127		23.3	123	mg/Kg-dry	327304	1	12/14/2021	17:52	KB
Thallium	BRL		0.552	1.23	mg/Kg-dry	327304	1	12/14/2021	17:52	KB
Vanadium	24.7		0.192	6.14	mg/Kg-dry	327304	1	12/14/2021	17:52	KB
Zinc	213		0.952	6.14	mg/Kg-dry	327304	1	12/14/2021	17:52	KB
PERCENT MOISTURE D2216										
Percent Moisture	41.5		0	0	wt%	R472462	1	12/14/2021	00:00	JW

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-SS-L06-121321
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/13/2021 1:55:00 PM
Lab ID:	2112G62-010	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
Total Mercury by SW7473					**(SW7473)**					
Mercury	BRL		0.0399	0.104	mg/Kg-dry	327278	1	12/14/2021 14:30		GR
MERCURY, TCLP SW1311/7470A					**(SW7470A)**					
Mercury	BRL		0.000480	0.00400	mg/L	327387	1	12/15/2021 15:56		GR
ICP METALS, TCLP SW1311/6010D					**(SW3010A)**					
Arsenic	BRL		0.0520	0.250	mg/L	327403	1	12/15/2021 15:43		KB
Barium	0.0538	J	0.0242	0.500	mg/L	327403	1	12/15/2021 15:43		KB
Cadmium	BRL		0.00785	0.0250	mg/L	327403	1	12/15/2021 15:43		KB
Chromium	BRL		0.0336	0.0500	mg/L	327403	1	12/15/2021 15:43		KB
Lead	BRL		0.0195	0.0500	mg/L	327403	1	12/15/2021 15:43		KB
Selenium	0.0468	J	0.0447	0.100	mg/L	327403	1	12/15/2021 15:43		KB
Silver	BRL		0.00895	0.0250	mg/L	327403	1	12/15/2021 15:43		KB
METALS, TOTAL SW6010D					**(SW3050B)**					
Aluminum	107		5.67	36.6	mg/Kg-dry	327304	1	12/14/2021 17:55		KB
Antimony	1.16	J	0.279	1.83	mg/Kg-dry	327304	1	12/14/2021 17:55		KB
Arsenic	0.546	J	0.360	1.83	mg/Kg-dry	327304	1	12/14/2021 17:55		KB
Barium	0.558	J	0.125	3.66	mg/Kg-dry	327304	1	12/14/2021 17:55		KB
Beryllium	BRL		0.122	1.83	mg/Kg-dry	327304	1	12/14/2021 17:55		KB
Cadmium	BRL		0.0761	1.83	mg/Kg-dry	327304	1	12/14/2021 17:55		KB
Calcium	22.5	J	3.80	36.6	mg/Kg-dry	327304	1	12/14/2021 17:55		KB
Chromium	0.764	J	0.127	1.83	mg/Kg-dry	327304	1	12/14/2021 17:55		KB
Cobalt	4.79		0.0958	1.83	mg/Kg-dry	327304	1	12/14/2021 17:55		KB
Copper	1.15	J	0.114	1.83	mg/Kg-dry	327304	1	12/14/2021 17:55		KB
Iron	315		6.16	36.6	mg/Kg-dry	327304	1	12/14/2021 17:55		KB
Lead	BRL		0.328	3.66	mg/Kg-dry	327304	1	12/14/2021 17:55		KB
Magnesium	4.42	J	3.53	36.6	mg/Kg-dry	327304	1	12/14/2021 17:55		KB
Manganese	4.08		0.116	3.66	mg/Kg-dry	327304	1	12/14/2021 17:55		KB
Nickel	11.7		0.170	3.66	mg/Kg-dry	327304	1	12/14/2021 17:55		KB
Potassium	10.4	J	7.53	73.1	mg/Kg-dry	327304	1	12/14/2021 17:55		KB
Selenium	BRL		0.296	2.56	mg/Kg-dry	327304	1	12/14/2021 17:55		KB
Silver	BRL		0.0132	1.83	mg/Kg-dry	327304	1	12/14/2021 17:55		KB
Sodium	BRL		13.9	73.1	mg/Kg-dry	327304	1	12/14/2021 17:55		KB
Thallium	BRL		0.328	0.731	mg/Kg-dry	327304	1	12/14/2021 17:55		KB
Vanadium	0.900	J	0.114	3.66	mg/Kg-dry	327304	1	12/14/2021 17:55		KB
Zinc	0.639	J	0.567	3.66	mg/Kg-dry	327304	1	12/14/2021 17:55		KB
PERCENT MOISTURE D2216										
Percent Moisture	3.85		0	0	wt%	R472462	1	12/14/2021 00:00		JW

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-EB-121321
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/13/2021 12:00:00 PM
Lab ID:	2112G62-011	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3510C)**					
1,1´-Biphenyl	BRL		4.1	10	ug/L	327248	1	12/14/2021 15:23		YH
2,4,5-Trichlorophenol	BRL		3.9	25	ug/L	327248	1	12/14/2021 15:23		YH
2,4,6-Trichlorophenol	BRL		3.4	10	ug/L	327248	1	12/14/2021 15:23		YH
2,4-Dichlorophenol	BRL		3.6	10	ug/L	327248	1	12/14/2021 15:23		YH
2,4-Dimethylphenol	BRL		3.8	10	ug/L	327248	1	12/14/2021 15:23		YH
2,4-Dinitrophenol	BRL		8.8	25	ug/L	327248	1	12/14/2021 15:23		YH
2,4-Dinitrotoluene	BRL		6.0	10	ug/L	327248	1	12/14/2021 15:23		YH
2,6-Dinitrotoluene	BRL		5.3	10	ug/L	327248	1	12/14/2021 15:23		YH
2-Chloronaphthalene	BRL		3.0	10	ug/L	327248	1	12/14/2021 15:23		YH
2-Chlorophenol	BRL		2.0	10	ug/L	327248	1	12/14/2021 15:23		YH
2-Methylnaphthalene	BRL		3.0	10	ug/L	327248	1	12/14/2021 15:23		YH
2-Methylphenol	BRL		3.1	10	ug/L	327248	1	12/14/2021 15:23		YH
2-Nitroaniline	BRL		3.6	25	ug/L	327248	1	12/14/2021 15:23		YH
2-Nitrophenol	BRL		2.5	10	ug/L	327248	1	12/14/2021 15:23		YH
3,3´-Dichlorobenzidine	BRL		3.7	10	ug/L	327248	1	12/14/2021 15:23		YH
3-Nitroaniline	BRL		4.3	25	ug/L	327248	1	12/14/2021 15:23		YH
4,6-Dinitro-2-methylphenol	BRL		14	25	ug/L	327248	1	12/14/2021 15:23		YH
4-Bromophenyl phenyl ether	BRL		3.9	10	ug/L	327248	1	12/14/2021 15:23		YH
4-Chloro-3-methylphenol	BRL		4.0	10	ug/L	327248	1	12/14/2021 15:23		YH
4-Chloroaniline	BRL		4.9	10	ug/L	327248	1	12/14/2021 15:23		YH
4-Chlorophenyl phenyl ether	BRL		3.0	10	ug/L	327248	1	12/14/2021 15:23		YH
4-Methylphenol	BRL		3.3	10	ug/L	327248	1	12/14/2021 15:23		YH
4-Nitroaniline	BRL		5.1	25	ug/L	327248	1	12/14/2021 15:23		YH
4-Nitrophenol	BRL		5.8	25	ug/L	327248	1	12/14/2021 15:23		YH
Acenaphthene	BRL		2.5	10	ug/L	327248	1	12/14/2021 15:23		YH
Acenaphthylene	BRL		2.7	10	ug/L	327248	1	12/14/2021 15:23		YH
Acetophenone	BRL		4.0	10	ug/L	327248	1	12/14/2021 15:23		YH
Anthracene	BRL		2.9	10	ug/L	327248	1	12/14/2021 15:23		YH
Atrazine	BRL		5.8	10	ug/L	327248	1	12/14/2021 15:23		YH
Benz(a)anthracene	BRL		2.8	10	ug/L	327248	1	12/14/2021 15:23		YH
Benzaldehyde	BRL		6.8	10	ug/L	327248	1	12/14/2021 15:23		YH
Benzo(a)pyrene	BRL		3.5	10	ug/L	327248	1	12/14/2021 15:23		YH
Benzo(b)fluoranthene	BRL		3.8	10	ug/L	327248	1	12/14/2021 15:23		YH
Benzo(g,h,i)perylene	BRL		4.2	10	ug/L	327248	1	12/14/2021 15:23		YH
Benzo(k)fluoranthene	BRL		3.6	10	ug/L	327248	1	12/14/2021 15:23		YH
Bis(2-chloroethoxy)methane	BRL		2.6	10	ug/L	327248	1	12/14/2021 15:23		YH
Bis(2-chloroethyl)ether	BRL		2.4	10	ug/L	327248	1	12/14/2021 15:23		YH
Bis(2-chloroisopropyl)ether	BRL		3.0	10	ug/L	327248	1	12/14/2021 15:23		YH
Bis(2-ethylhexyl)phthalate	BRL		4.4	10	ug/L	327248	1	12/14/2021 15:23		YH
Butyl benzyl phthalate	BRL		3.4	10	ug/L	327248	1	12/14/2021 15:23		YH
Caprolactam	BRL		5.0	10	ug/L	327248	1	12/14/2021 15:23		YH
Carbazole	BRL		3.3	10	ug/L	327248	1	12/14/2021 15:23		YH
Chrysene	BRL		2.7	10	ug/L	327248	1	12/14/2021 15:23		YH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-EB-121321
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/13/2021 12:00:00 PM
Lab ID:	2112G62-011	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3510C)**					
Di-n-butyl phthalate	BRL		3.3	10	ug/L	327248	1	12/14/2021 15:23		YH
Di-n-octyl phthalate	BRL		9.3	10	ug/L	327248	1	12/14/2021 15:23		YH
Dibenz(a,h)anthracene	BRL		4.5	10	ug/L	327248	1	12/14/2021 15:23		YH
Dibenzofuran	BRL		2.7	10	ug/L	327248	1	12/14/2021 15:23		YH
Diethyl phthalate	BRL		3.3	10	ug/L	327248	1	12/14/2021 15:23		YH
Dimethyl phthalate	BRL		2.8	10	ug/L	327248	1	12/14/2021 15:23		YH
Fluoranthene	BRL		3.0	10	ug/L	327248	1	12/14/2021 15:23		YH
Fluorene	BRL		2.7	10	ug/L	327248	1	12/14/2021 15:23		YH
Hexachlorobenzene	BRL		3.9	10	ug/L	327248	1	12/14/2021 15:23		YH
Hexachlorobutadiene	BRL		4.2	10	ug/L	327248	1	12/14/2021 15:23		YH
Hexachlorocyclopentadiene	BRL		8.4	10	ug/L	327248	1	12/14/2021 15:23		YH
Hexachloroethane	BRL		3.1	10	ug/L	327248	1	12/14/2021 15:23		YH
Indeno(1,2,3-cd)pyrene	BRL		4.2	10	ug/L	327248	1	12/14/2021 15:23		YH
Isophorone	BRL		3.5	10	ug/L	327248	1	12/14/2021 15:23		YH
N-Nitrosodi-n-propylamine	BRL		2.5	10	ug/L	327248	1	12/14/2021 15:23		YH
N-Nitrosodiphenylamine	BRL		2.4	10	ug/L	327248	1	12/14/2021 15:23		YH
Naphthalene	BRL		2.1	10	ug/L	327248	1	12/14/2021 15:23		YH
Nitrobenzene	BRL		2.5	10	ug/L	327248	1	12/14/2021 15:23		YH
Pentachlorophenol	BRL		6.4	25	ug/L	327248	1	12/14/2021 15:23		YH
Phenanthrene	BRL		2.9	10	ug/L	327248	1	12/14/2021 15:23		YH
Phenol	BRL		2.9	10	ug/L	327248	1	12/14/2021 15:23		YH
Pyrene	BRL		2.9	10	ug/L	327248	1	12/14/2021 15:23		YH
Surr: 2,4,6-Tribromophenol	99.2		0	46-135	%REC	327248	1	12/14/2021 15:23		YH
Surr: 2-Fluorobiphenyl	78.5		0	45-121	%REC	327248	1	12/14/2021 15:23		YH
Surr: 2-Fluorophenol	35.3		0	28.2-120	%REC	327248	1	12/14/2021 15:23		YH
Surr: 4-Terphenyl-d14	83.7		0	44-120	%REC	327248	1	12/14/2021 15:23		YH
Surr: Nitrobenzene-d5	81.6		0	41-123	%REC	327248	1	12/14/2021 15:23		YH
Surr: Phenol-d5	20.2		0	19.5-120	%REC	327248	1	12/14/2021 15:23		YH
TCL VOLATILE ORGANICS SW8260D					**(SW5030B)**					
1,1,1-Trichloroethane	BRL		0.26	5.0	ug/L	327367	1	12/14/2021 13:01		CC
1,1,2,2-Tetrachloroethane	BRL		0.25	5.0	ug/L	327367	1	12/14/2021 13:01		CC
1,1,2-Trichloroethane	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 13:01		CC
1,1-Dichloroethane	BRL		0.29	5.0	ug/L	327367	1	12/14/2021 13:01		CC
1,1-Dichloroethene	BRL		0.32	5.0	ug/L	327367	1	12/14/2021 13:01		CC
1,2,4-Trichlorobenzene	BRL		0.68	5.0	ug/L	327367	1	12/14/2021 13:01		CC
1,2-Dibromo-3-chloropropane	BRL		0.61	5.0	ug/L	327367	1	12/14/2021 13:01		CC
1,2-Dibromoethane	BRL		0.20	5.0	ug/L	327367	1	12/14/2021 13:01		CC
1,2-Dichlorobenzene	BRL		0.22	5.0	ug/L	327367	1	12/14/2021 13:01		CC
1,2-Dichloroethane	BRL		0.19	5.0	ug/L	327367	1	12/14/2021 13:01		CC
1,2-Dichloropropane	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 13:01		CC
1,3-Dichlorobenzene	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 13:01		CC
1,4-Dichlorobenzene	BRL		0.57	5.0	ug/L	327367	1	12/14/2021 13:01		CC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-EB-121321
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/13/2021 12:00:00 PM
Lab ID:	2112G62-011	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	Batch ID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260D				**(SW5030B)**					
2-Butanone	BRL		5.0	50	ug/L	327367	1	12/14/2021 13:01	CC
2-Hexanone	BRL		2.7	10	ug/L	327367	1	12/14/2021 13:01	CC
4-Methyl-2-pentanone	BRL		2.7	10	ug/L	327367	1	12/14/2021 13:01	CC
Acetone	BRL		8.3	50	ug/L	327367	1	12/14/2021 13:01	CC
Benzene	BRL		0.24	5.0	ug/L	327367	1	12/14/2021 13:01	CC
Bromodichloromethane	BRL		0.26	5.0	ug/L	327367	1	12/14/2021 13:01	CC
Bromoform	BRL		0.48	5.0	ug/L	327367	1	12/14/2021 13:01	CC
Bromomethane	BRL		0.73	5.0	ug/L	327367	1	12/14/2021 13:01	CC
Carbon disulfide	BRL		0.98	5.0	ug/L	327367	1	12/14/2021 13:01	CC
Carbon tetrachloride	BRL		0.28	5.0	ug/L	327367	1	12/14/2021 13:01	CC
Chlorobenzene	BRL		0.47	5.0	ug/L	327367	1	12/14/2021 13:01	CC
Chloroethane	BRL		0.45	10	ug/L	327367	1	12/14/2021 13:01	CC
Chloroform	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 13:01	CC
Chloromethane	BRL		0.44	10	ug/L	327367	1	12/14/2021 13:01	CC
cis-1,2-Dichloroethene	BRL		0.50	5.0	ug/L	327367	1	12/14/2021 13:01	CC
cis-1,3-Dichloropropene	BRL		0.30	5.0	ug/L	327367	1	12/14/2021 13:01	CC
Cyclohexane	BRL		1.00	5.0	ug/L	327367	1	12/14/2021 13:01	CC
Dibromochloromethane	BRL		0.40	5.0	ug/L	327367	1	12/14/2021 13:01	CC
Dichlorodifluoromethane	BRL		0.47	10	ug/L	327367	1	12/14/2021 13:01	CC
Ethylbenzene	BRL		0.24	5.0	ug/L	327367	1	12/14/2021 13:01	CC
Freon-113	BRL		0.33	10	ug/L	327367	1	12/14/2021 13:01	CC
Isopropylbenzene	BRL		0.29	5.0	ug/L	327367	1	12/14/2021 13:01	CC
m,p-Xylene	BRL		0.51	5.0	ug/L	327367	1	12/14/2021 13:01	CC
Methyl acetate	BRL		0.57	5.0	ug/L	327367	1	12/14/2021 13:01	CC
Methyl tert-butyl ether	BRL		0.24	5.0	ug/L	327367	1	12/14/2021 13:01	CC
Methylcyclohexane	BRL		0.24	5.0	ug/L	327367	1	12/14/2021 13:01	CC
Methylene chloride	BRL		4.8	5.0	ug/L	327367	1	12/14/2021 13:01	CC
o-Xylene	BRL		0.27	5.0	ug/L	327367	1	12/14/2021 13:01	CC
Styrene	BRL		0.29	5.0	ug/L	327367	1	12/14/2021 13:01	CC
Tetrachloroethene	BRL		0.30	5.0	ug/L	327367	1	12/14/2021 13:01	CC
Toluene	BRL		0.66	5.0	ug/L	327367	1	12/14/2021 13:01	CC
trans-1,2-Dichloroethene	BRL		0.29	5.0	ug/L	327367	1	12/14/2021 13:01	CC
trans-1,3-Dichloropropene	BRL		0.81	5.0	ug/L	327367	1	12/14/2021 13:01	CC
Trichloroethene	BRL		0.21	5.0	ug/L	327367	1	12/14/2021 13:01	CC
Trichlorofluoromethane	BRL		0.43	5.0	ug/L	327367	1	12/14/2021 13:01	CC
Vinyl chloride	BRL		0.44	2.0	ug/L	327367	1	12/14/2021 13:01	CC
Surr: 4-Bromofluorobenzene	95.2		0	74.9-127	%REC	327367	1	12/14/2021 13:01	CC
Surr: Dibromofluoromethane	94.6		0	78.9-121	%REC	327367	1	12/14/2021 13:01	CC
Surr: Toluene-d8	98.6		0	81.5-120	%REC	327367	1	12/14/2021 13:01	CC
METALS, TOTAL SW6010D				**(SW3010A)**					
Aluminum	BRL		0.0581	0.200	mg/L	327295	1	12/14/2021 19:11	KB
Antimony	BRL		0.0125	0.0200	mg/L	327295	1	12/14/2021 19:11	KB

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-EB-121321
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/13/2021 12:00:00 PM
Lab ID:	2112G62-011	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
METALS, TOTAL SW6010D					**(SW3010A)**					
Arsenic	BRL		0.0104	0.0500	mg/L	327295	1	12/14/2021 19:11		KB
Barium	BRL		0.0048	0.0200	mg/L	327295	1	12/14/2021 19:11		KB
Beryllium	BRL		0.0019	0.0100	mg/L	327295	1	12/14/2021 19:11		KB
Cadmium	BRL		0.0016	0.0050	mg/L	327295	1	12/14/2021 19:11		KB
Calcium	BRL		0.0513	0.100	mg/L	327295	1	12/14/2021 19:11		KB
Chromium	BRL		0.0067	0.0100	mg/L	327295	1	12/14/2021 19:11		KB
Cobalt	BRL		0.0019	0.0200	mg/L	327295	1	12/14/2021 19:11		KB
Copper	BRL		0.0024	0.0100	mg/L	327295	1	12/14/2021 19:11		KB
Iron	BRL		0.0362	0.100	mg/L	327295	1	12/14/2021 19:11		KB
Lead	BRL		0.0039	0.0100	mg/L	327295	1	12/14/2021 19:11		KB
Magnesium	BRL		0.0295	0.100	mg/L	327295	1	12/14/2021 19:11		KB
Manganese	BRL		0.0101	0.0150	mg/L	327295	1	12/14/2021 19:11		KB
Nickel	BRL		0.0104	0.0200	mg/L	327295	1	12/14/2021 19:11		KB
Potassium	BRL		0.167	0.500	mg/L	327295	1	12/14/2021 19:11		KB
Selenium	BRL		0.0089	0.0200	mg/L	327295	1	12/14/2021 19:11		KB
Silver	BRL		0.0018	0.0100	mg/L	327295	1	12/14/2021 19:11		KB
Sodium	BRL		0.391	1.00	mg/L	327295	1	12/14/2021 19:11		KB
Thallium	BRL		0.0086	0.0200	mg/L	327295	1	12/14/2021 19:11		KB
Vanadium	BRL		0.0012	0.0100	mg/L	327295	1	12/14/2021 19:11		KB
Zinc	BRL		0.0160	0.0200	mg/L	327295	1	12/14/2021 19:11		KB
Mercury, Total SW7470A					**(SW7470A)**					
Mercury	BRL		0.00014	0.00020	mg/L	327327	1	12/15/2021 14:37		GR

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-FB-121321
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/13/2021 12:15:00 PM
Lab ID:	2112G62-012	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3510C)**					
1,1´-Biphenyl	BRL		4.1	10	ug/L	327248	1	12/14/2021 15:49		YH
2,4,5-Trichlorophenol	BRL		3.9	25	ug/L	327248	1	12/14/2021 15:49		YH
2,4,6-Trichlorophenol	BRL		3.4	10	ug/L	327248	1	12/14/2021 15:49		YH
2,4-Dichlorophenol	BRL		3.6	10	ug/L	327248	1	12/14/2021 15:49		YH
2,4-Dimethylphenol	BRL		3.8	10	ug/L	327248	1	12/14/2021 15:49		YH
2,4-Dinitrophenol	BRL		8.8	25	ug/L	327248	1	12/14/2021 15:49		YH
2,4-Dinitrotoluene	BRL		6.0	10	ug/L	327248	1	12/14/2021 15:49		YH
2,6-Dinitrotoluene	BRL		5.3	10	ug/L	327248	1	12/14/2021 15:49		YH
2-Chloronaphthalene	BRL		3.0	10	ug/L	327248	1	12/14/2021 15:49		YH
2-Chlorophenol	BRL		2.0	10	ug/L	327248	1	12/14/2021 15:49		YH
2-Methylnaphthalene	BRL		3.0	10	ug/L	327248	1	12/14/2021 15:49		YH
2-Methylphenol	BRL		3.1	10	ug/L	327248	1	12/14/2021 15:49		YH
2-Nitroaniline	BRL		3.6	25	ug/L	327248	1	12/14/2021 15:49		YH
2-Nitrophenol	BRL		2.5	10	ug/L	327248	1	12/14/2021 15:49		YH
3,3´-Dichlorobenzidine	BRL		3.7	10	ug/L	327248	1	12/14/2021 15:49		YH
3-Nitroaniline	BRL		4.3	25	ug/L	327248	1	12/14/2021 15:49		YH
4,6-Dinitro-2-methylphenol	BRL		14	25	ug/L	327248	1	12/14/2021 15:49		YH
4-Bromophenyl phenyl ether	BRL		3.9	10	ug/L	327248	1	12/14/2021 15:49		YH
4-Chloro-3-methylphenol	BRL		4.0	10	ug/L	327248	1	12/14/2021 15:49		YH
4-Chloroaniline	BRL		4.9	10	ug/L	327248	1	12/14/2021 15:49		YH
4-Chlorophenyl phenyl ether	BRL		3.0	10	ug/L	327248	1	12/14/2021 15:49		YH
4-Methylphenol	BRL		3.3	10	ug/L	327248	1	12/14/2021 15:49		YH
4-Nitroaniline	BRL		5.1	25	ug/L	327248	1	12/14/2021 15:49		YH
4-Nitrophenol	BRL		5.8	25	ug/L	327248	1	12/14/2021 15:49		YH
Acenaphthene	BRL		2.5	10	ug/L	327248	1	12/14/2021 15:49		YH
Acenaphthylene	BRL		2.7	10	ug/L	327248	1	12/14/2021 15:49		YH
Acetophenone	BRL		4.0	10	ug/L	327248	1	12/14/2021 15:49		YH
Anthracene	BRL		2.9	10	ug/L	327248	1	12/14/2021 15:49		YH
Atrazine	BRL		5.8	10	ug/L	327248	1	12/14/2021 15:49		YH
Benz(a)anthracene	BRL		2.8	10	ug/L	327248	1	12/14/2021 15:49		YH
Benzaldehyde	BRL		6.8	10	ug/L	327248	1	12/14/2021 15:49		YH
Benzo(a)pyrene	BRL		3.5	10	ug/L	327248	1	12/14/2021 15:49		YH
Benzo(b)fluoranthene	BRL		3.8	10	ug/L	327248	1	12/14/2021 15:49		YH
Benzo(g,h,i)perylene	BRL		4.2	10	ug/L	327248	1	12/14/2021 15:49		YH
Benzo(k)fluoranthene	BRL		3.6	10	ug/L	327248	1	12/14/2021 15:49		YH
Bis(2-chloroethoxy)methane	BRL		2.6	10	ug/L	327248	1	12/14/2021 15:49		YH
Bis(2-chloroethyl)ether	BRL		2.4	10	ug/L	327248	1	12/14/2021 15:49		YH
Bis(2-chloroisopropyl)ether	BRL		3.0	10	ug/L	327248	1	12/14/2021 15:49		YH
Bis(2-ethylhexyl)phthalate	BRL		4.4	10	ug/L	327248	1	12/14/2021 15:49		YH
Butyl benzyl phthalate	BRL		3.4	10	ug/L	327248	1	12/14/2021 15:49		YH
Caprolactam	BRL		5.0	10	ug/L	327248	1	12/14/2021 15:49		YH
Carbazole	BRL		3.3	10	ug/L	327248	1	12/14/2021 15:49		YH
Chrysene	BRL		2.7	10	ug/L	327248	1	12/14/2021 15:49		YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-FB-121321
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/13/2021 12:15:00 PM
Lab ID:	2112G62-012	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3510C)**					
Di-n-butyl phthalate	BRL		3.3	10	ug/L	327248	1	12/14/2021 15:49		YH
Di-n-octyl phthalate	BRL		9.3	10	ug/L	327248	1	12/14/2021 15:49		YH
Dibenz(a,h)anthracene	BRL		4.5	10	ug/L	327248	1	12/14/2021 15:49		YH
Dibenzofuran	BRL		2.7	10	ug/L	327248	1	12/14/2021 15:49		YH
Diethyl phthalate	BRL		3.3	10	ug/L	327248	1	12/14/2021 15:49		YH
Dimethyl phthalate	BRL		2.8	10	ug/L	327248	1	12/14/2021 15:49		YH
Fluoranthene	BRL		3.0	10	ug/L	327248	1	12/14/2021 15:49		YH
Fluorene	BRL		2.7	10	ug/L	327248	1	12/14/2021 15:49		YH
Hexachlorobenzene	BRL		3.9	10	ug/L	327248	1	12/14/2021 15:49		YH
Hexachlorobutadiene	BRL		4.2	10	ug/L	327248	1	12/14/2021 15:49		YH
Hexachlorocyclopentadiene	BRL		8.4	10	ug/L	327248	1	12/14/2021 15:49		YH
Hexachloroethane	BRL		3.1	10	ug/L	327248	1	12/14/2021 15:49		YH
Indeno(1,2,3-cd)pyrene	BRL		4.2	10	ug/L	327248	1	12/14/2021 15:49		YH
Isophorone	BRL		3.5	10	ug/L	327248	1	12/14/2021 15:49		YH
N-Nitrosodi-n-propylamine	BRL		2.5	10	ug/L	327248	1	12/14/2021 15:49		YH
N-Nitrosodiphenylamine	BRL		2.4	10	ug/L	327248	1	12/14/2021 15:49		YH
Naphthalene	BRL		2.1	10	ug/L	327248	1	12/14/2021 15:49		YH
Nitrobenzene	BRL		2.5	10	ug/L	327248	1	12/14/2021 15:49		YH
Pentachlorophenol	BRL		6.4	25	ug/L	327248	1	12/14/2021 15:49		YH
Phenanthrene	BRL		2.9	10	ug/L	327248	1	12/14/2021 15:49		YH
Phenol	BRL		2.9	10	ug/L	327248	1	12/14/2021 15:49		YH
Pyrene	BRL		2.9	10	ug/L	327248	1	12/14/2021 15:49		YH
Surr: 2,4,6-Tribromophenol	93		0	46-135	%REC	327248	1	12/14/2021 15:49		YH
Surr: 2-Fluorobiphenyl	78.2		0	45-121	%REC	327248	1	12/14/2021 15:49		YH
Surr: 2-Fluorophenol	35.9		0	28.2-120	%REC	327248	1	12/14/2021 15:49		YH
Surr: 4-Terphenyl-d14	80.5		0	44-120	%REC	327248	1	12/14/2021 15:49		YH
Surr: Nitrobenzene-d5	84.4		0	41-123	%REC	327248	1	12/14/2021 15:49		YH
Surr: Phenol-d5	20.6		0	19.5-120	%REC	327248	1	12/14/2021 15:49		YH
TCL VOLATILE ORGANICS SW8260D					**(SW5030B)**					
1,1,1-Trichloroethane	BRL		0.26	5.0	ug/L	327367	1	12/14/2021 13:23		CC
1,1,2,2-Tetrachloroethane	BRL		0.25	5.0	ug/L	327367	1	12/14/2021 13:23		CC
1,1,2-Trichloroethane	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 13:23		CC
1,1-Dichloroethane	BRL		0.29	5.0	ug/L	327367	1	12/14/2021 13:23		CC
1,1-Dichloroethene	BRL		0.32	5.0	ug/L	327367	1	12/14/2021 13:23		CC
1,2,4-Trichlorobenzene	BRL		0.68	5.0	ug/L	327367	1	12/14/2021 13:23		CC
1,2-Dibromo-3-chloropropane	BRL		0.61	5.0	ug/L	327367	1	12/14/2021 13:23		CC
1,2-Dibromoethane	BRL		0.20	5.0	ug/L	327367	1	12/14/2021 13:23		CC
1,2-Dichlorobenzene	BRL		0.22	5.0	ug/L	327367	1	12/14/2021 13:23		CC
1,2-Dichloroethane	BRL		0.19	5.0	ug/L	327367	1	12/14/2021 13:23		CC
1,2-Dichloropropane	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 13:23		CC
1,3-Dichlorobenzene	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 13:23		CC
1,4-Dichlorobenzene	BRL		0.57	5.0	ug/L	327367	1	12/14/2021 13:23		CC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-FB-121321
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/13/2021 12:15:00 PM
Lab ID:	2112G62-012	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
TCL VOLATILE ORGANICS SW8260D					**(SW5030B)**					
2-Butanone	BRL		5.0	50	ug/L	327367	1	12/14/2021 13:23		CC
2-Hexanone	BRL		2.7	10	ug/L	327367	1	12/14/2021 13:23		CC
4-Methyl-2-pentanone	BRL		2.7	10	ug/L	327367	1	12/14/2021 13:23		CC
Acetone	BRL		8.3	50	ug/L	327367	1	12/14/2021 13:23		CC
Benzene	BRL		0.24	5.0	ug/L	327367	1	12/14/2021 13:23		CC
Bromodichloromethane	BRL		0.26	5.0	ug/L	327367	1	12/14/2021 13:23		CC
Bromoform	BRL		0.48	5.0	ug/L	327367	1	12/14/2021 13:23		CC
Bromomethane	BRL		0.73	5.0	ug/L	327367	1	12/14/2021 13:23		CC
Carbon disulfide	BRL		0.98	5.0	ug/L	327367	1	12/14/2021 13:23		CC
Carbon tetrachloride	BRL		0.28	5.0	ug/L	327367	1	12/14/2021 13:23		CC
Chlorobenzene	BRL		0.47	5.0	ug/L	327367	1	12/14/2021 13:23		CC
Chloroethane	BRL		0.45	10	ug/L	327367	1	12/14/2021 13:23		CC
Chloroform	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 13:23		CC
Chloromethane	BRL		0.44	10	ug/L	327367	1	12/14/2021 13:23		CC
cis-1,2-Dichloroethene	BRL		0.50	5.0	ug/L	327367	1	12/14/2021 13:23		CC
cis-1,3-Dichloropropene	BRL		0.30	5.0	ug/L	327367	1	12/14/2021 13:23		CC
Cyclohexane	BRL		1.00	5.0	ug/L	327367	1	12/14/2021 13:23		CC
Dibromochloromethane	BRL		0.40	5.0	ug/L	327367	1	12/14/2021 13:23		CC
Dichlorodifluoromethane	BRL		0.47	10	ug/L	327367	1	12/14/2021 13:23		CC
Ethylbenzene	BRL		0.24	5.0	ug/L	327367	1	12/14/2021 13:23		CC
Freon-113	BRL		0.33	10	ug/L	327367	1	12/14/2021 13:23		CC
Isopropylbenzene	BRL		0.29	5.0	ug/L	327367	1	12/14/2021 13:23		CC
m,p-Xylene	BRL		0.51	5.0	ug/L	327367	1	12/14/2021 13:23		CC
Methyl acetate	BRL		0.57	5.0	ug/L	327367	1	12/14/2021 13:23		CC
Methyl tert-butyl ether	BRL		0.24	5.0	ug/L	327367	1	12/14/2021 13:23		CC
Methylcyclohexane	BRL		0.24	5.0	ug/L	327367	1	12/14/2021 13:23		CC
Methylene chloride	BRL		4.8	5.0	ug/L	327367	1	12/14/2021 13:23		CC
o-Xylene	BRL		0.27	5.0	ug/L	327367	1	12/14/2021 13:23		CC
Styrene	BRL		0.29	5.0	ug/L	327367	1	12/14/2021 13:23		CC
Tetrachloroethene	BRL		0.30	5.0	ug/L	327367	1	12/14/2021 13:23		CC
Toluene	BRL		0.66	5.0	ug/L	327367	1	12/14/2021 13:23		CC
trans-1,2-Dichloroethene	BRL		0.29	5.0	ug/L	327367	1	12/14/2021 13:23		CC
trans-1,3-Dichloropropene	BRL		0.81	5.0	ug/L	327367	1	12/14/2021 13:23		CC
Trichloroethene	BRL		0.21	5.0	ug/L	327367	1	12/14/2021 13:23		CC
Trichlorofluoromethane	BRL		0.43	5.0	ug/L	327367	1	12/14/2021 13:23		CC
Vinyl chloride	BRL		0.44	2.0	ug/L	327367	1	12/14/2021 13:23		CC
Surr: 4-Bromofluorobenzene	92.2		0	74.9-127	%REC	327367	1	12/14/2021 13:23		CC
Surr: Dibromofluoromethane	93.2		0	78.9-121	%REC	327367	1	12/14/2021 13:23		CC
Surr: Toluene-d8	99.2		0	81.5-120	%REC	327367	1	12/14/2021 13:23		CC
METALS, TOTAL SW6010D					**(SW3010A)**					
Aluminum	BRL		0.0581	0.200	mg/L	327295	1	12/14/2021 19:14		KB
Antimony	BRL		0.0125	0.0200	mg/L	327295	1	12/14/2021 19:14		KB

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-FB-121321
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/13/2021 12:15:00 PM
Lab ID:	2112G62-012	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
METALS, TOTAL SW6010D					**(SW3010A)**					
Arsenic	BRL		0.0104	0.0500	mg/L	327295	1	12/14/2021	19:14	KB
Barium	BRL		0.0048	0.0200	mg/L	327295	1	12/14/2021	19:14	KB
Beryllium	BRL		0.0019	0.0100	mg/L	327295	1	12/14/2021	19:14	KB
Cadmium	BRL		0.0016	0.0050	mg/L	327295	1	12/14/2021	19:14	KB
Calcium	BRL		0.0513	0.100	mg/L	327295	1	12/14/2021	19:14	KB
Chromium	BRL		0.0067	0.0100	mg/L	327295	1	12/14/2021	19:14	KB
Cobalt	BRL		0.0019	0.0200	mg/L	327295	1	12/14/2021	19:14	KB
Copper	BRL		0.0024	0.0100	mg/L	327295	1	12/14/2021	19:14	KB
Iron	BRL		0.0362	0.100	mg/L	327295	1	12/14/2021	19:14	KB
Lead	BRL		0.0039	0.0100	mg/L	327295	1	12/14/2021	19:14	KB
Magnesium	BRL		0.0295	0.100	mg/L	327295	1	12/14/2021	19:14	KB
Manganese	BRL		0.0101	0.0150	mg/L	327295	1	12/14/2021	19:14	KB
Nickel	BRL		0.0104	0.0200	mg/L	327295	1	12/14/2021	19:14	KB
Potassium	BRL		0.167	0.500	mg/L	327295	1	12/14/2021	19:14	KB
Selenium	BRL		0.0089	0.0200	mg/L	327295	1	12/14/2021	19:14	KB
Silver	BRL		0.0018	0.0100	mg/L	327295	1	12/14/2021	19:14	KB
Sodium	BRL		0.391	1.00	mg/L	327295	1	12/14/2021	19:14	KB
Thallium	BRL		0.0086	0.0200	mg/L	327295	1	12/14/2021	19:14	KB
Vanadium	BRL		0.0012	0.0100	mg/L	327295	1	12/14/2021	19:14	KB
Zinc	BRL		0.0160	0.0200	mg/L	327295	1	12/14/2021	19:14	KB
Mercury, Total SW7470A					**(SW7470A)**					
Mercury	BRL		0.00014	0.00020	mg/L	327327	1	12/15/2021	14:21	GR

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-TB-121321
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/13/2021 2:00:00 PM
Lab ID:	2112G62-013	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	Date Analyzed	Batch ID	DF		Analyst
TCL VOLATILE ORGANICS SW8260D				**(SW5030B)**						
1,1,1-Trichloroethane	BRL		0.26	5.0	ug/L	327367	1	12/14/2021 12:40		CC
1,1,2,2-Tetrachloroethane	BRL		0.25	5.0	ug/L	327367	1	12/14/2021 12:40		CC
1,1,2-Trichloroethane	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 12:40		CC
1,1-Dichloroethane	BRL		0.29	5.0	ug/L	327367	1	12/14/2021 12:40		CC
1,1-Dichloroethene	BRL		0.32	5.0	ug/L	327367	1	12/14/2021 12:40		CC
1,2,4-Trichlorobenzene	BRL		0.68	5.0	ug/L	327367	1	12/14/2021 12:40		CC
1,2-Dibromo-3-chloropropane	BRL		0.61	5.0	ug/L	327367	1	12/14/2021 12:40		CC
1,2-Dibromoethane	BRL		0.20	5.0	ug/L	327367	1	12/14/2021 12:40		CC
1,2-Dichlorobenzene	BRL		0.22	5.0	ug/L	327367	1	12/14/2021 12:40		CC
1,2-Dichloroethane	BRL		0.19	5.0	ug/L	327367	1	12/14/2021 12:40		CC
1,2-Dichloropropane	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 12:40		CC
1,3-Dichlorobenzene	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 12:40		CC
1,4-Dichlorobenzene	BRL		0.57	5.0	ug/L	327367	1	12/14/2021 12:40		CC
2-Butanone	BRL		5.0	50	ug/L	327367	1	12/14/2021 12:40		CC
2-Hexanone	BRL		2.7	10	ug/L	327367	1	12/14/2021 12:40		CC
4-Methyl-2-pentanone	BRL		2.7	10	ug/L	327367	1	12/14/2021 12:40		CC
Acetone	BRL		8.3	50	ug/L	327367	1	12/14/2021 12:40		CC
Benzene	BRL		0.24	5.0	ug/L	327367	1	12/14/2021 12:40		CC
Bromodichloromethane	BRL		0.26	5.0	ug/L	327367	1	12/14/2021 12:40		CC
Bromoform	BRL		0.48	5.0	ug/L	327367	1	12/14/2021 12:40		CC
Bromomethane	BRL		0.73	5.0	ug/L	327367	1	12/14/2021 12:40		CC
Carbon disulfide	BRL		0.98	5.0	ug/L	327367	1	12/14/2021 12:40		CC
Carbon tetrachloride	BRL		0.28	5.0	ug/L	327367	1	12/14/2021 12:40		CC
Chlorobenzene	BRL		0.47	5.0	ug/L	327367	1	12/14/2021 12:40		CC
Chloroethane	BRL		0.45	10	ug/L	327367	1	12/14/2021 12:40		CC
Chloroform	BRL		0.23	5.0	ug/L	327367	1	12/14/2021 12:40		CC
Chloromethane	BRL		0.44	10	ug/L	327367	1	12/14/2021 12:40		CC
cis-1,2-Dichloroethene	BRL		0.50	5.0	ug/L	327367	1	12/14/2021 12:40		CC
cis-1,3-Dichloropropene	BRL		0.30	5.0	ug/L	327367	1	12/14/2021 12:40		CC
Cyclohexane	BRL		1.00	5.0	ug/L	327367	1	12/14/2021 12:40		CC
Dibromochloromethane	BRL		0.40	5.0	ug/L	327367	1	12/14/2021 12:40		CC
Dichlorodifluoromethane	BRL		0.47	10	ug/L	327367	1	12/14/2021 12:40		CC
Ethylbenzene	BRL		0.24	5.0	ug/L	327367	1	12/14/2021 12:40		CC
Freon-113	BRL		0.33	10	ug/L	327367	1	12/14/2021 12:40		CC
Isopropylbenzene	BRL		0.29	5.0	ug/L	327367	1	12/14/2021 12:40		CC
m,p-Xylene	BRL		0.51	5.0	ug/L	327367	1	12/14/2021 12:40		CC
Methyl acetate	BRL		0.57	5.0	ug/L	327367	1	12/14/2021 12:40		CC
Methyl tert-butyl ether	BRL		0.24	5.0	ug/L	327367	1	12/14/2021 12:40		CC
Methylcyclohexane	BRL		0.24	5.0	ug/L	327367	1	12/14/2021 12:40		CC
Methylene chloride	BRL		4.8	5.0	ug/L	327367	1	12/14/2021 12:40		CC
o-Xylene	BRL		0.27	5.0	ug/L	327367	1	12/14/2021 12:40		CC
Styrene	BRL		0.29	5.0	ug/L	327367	1	12/14/2021 12:40		CC
Tetrachloroethene	BRL		0.30	5.0	ug/L	327367	1	12/14/2021 12:40		CC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LLB-TB-121321
Project Name:	Lawrenceville Lithium Battery Fire	**Collection Date:**	12/13/2021 2:00:00 PM
Lab ID:	2112G62-013	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	Batch ID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260D (SW5030B)									
Toluene	BRL		0.66	5.0	ug/L	327367	1	12/14/2021 12:40	CC
trans-1,2-Dichloroethene	BRL		0.29	5.0	ug/L	327367	1	12/14/2021 12:40	CC
trans-1,3-Dichloropropene	BRL		0.81	5.0	ug/L	327367	1	12/14/2021 12:40	CC
Trichloroethene	BRL		0.21	5.0	ug/L	327367	1	12/14/2021 12:40	CC
Trichlorofluoromethane	BRL		0.43	5.0	ug/L	327367	1	12/14/2021 12:40	CC
Vinyl chloride	BRL		0.44	2.0	ug/L	327367	1	12/14/2021 12:40	CC
Surr: 4-Bromofluorobenzene	95		0	74.9-127	%REC	327367	1	12/14/2021 12:40	CC
Surr: Dibromofluoromethane	92.8		0	78.9-121	%REC	327367	1	12/14/2021 12:40	CC
Surr: Toluene-d8	98.1		0	81.5-120	%REC	327367	1	12/14/2021 12:40	CC

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **Tetra Tech EM Inc.** AES Work Order Number: **2112G62**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ■ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	◉	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	◉	○		
5.	Custody seals intact on shipping container?	○	○	◉		
6.	Temperature blanks present?	○	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	◉	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	◉	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	◉	○	○		
10.	Sampler name and/or signature on COC?	◉	○	○		
11.	Were all samples received within holding time?	◉	○	○		
12.	TAT marked on the COC?	◉	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 5.9 °C Cooler 2 Temperature 0.9 °C Cooler 3 Temperature 2.6 °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). CP2 12/13/21

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	◉	○	○		
17.	Custody seals present on sample containers?	○	◉	○		
18.	Custody seals intact on sample containers?	○	○	◉		
19.	Do sample container labels match the COC?	◉	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	◉	○	○		
21.	Were all of the samples listed on the COC received?	◉	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	◉	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	◉	○	○		
24.	Were samples received in appropriate containers?	◉	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	◉	○	○		
26.	Were trip blanks submitted?	◉	○	○	listed on COC ■ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). CW 12/13/21

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	○	○	◉		
29.	Containers meet preservation guidelines?	○	○	◉		
30.	Was pH adjusted at Sample Receipt?	○	○	◉		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.
This also excludes metals by EPA 200.7, 200.8 and 245.1 which will be verified between 16 and 24 hours after preservation.

I certify that I have completed sections 28-30 (dated initials). CW 12/13/21

Locked

Analytical Environmental Services, Inc

Date: 23-Dec-21

Client: Tetra Tech EM Inc.
Project Name: Lawrenceville Lithium Battery Fire
Lab Order: 2112G62

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2112G62-001A	LLB-SW-L01-121121	12/11/2021 11:00:00AM	Surface Water	TCL VOLATILE ORGANICS		12/14/2021 9:47:00AM	12/14/2021
2112G62-001B	LLB-SW-L01-121121	12/11/2021 11:00:00AM	Surface Water	TOTAL METALS BY ICP		12/14/2021 11:21:00AM	12/14/2021
2112G62-001B	LLB-SW-L01-121121	12/11/2021 11:00:00AM	Surface Water	TOTAL MERCURY		12/15/2021 10:25:00AM	12/15/2021
2112G62-001C	LLB-SW-L01-121121	12/11/2021 11:00:00AM	Surface Water	TCL-SEMIVOLATILE ORGANICS		12/14/2021 10:46:10AM	12/14/2021
2112G62-002A	LLB-SW-L01-121121 (DUP)	12/11/2021 11:10:00AM	Surface Water	TCL VOLATILE ORGANICS		12/14/2021 9:47:00AM	12/14/2021
2112G62-002B	LLB-SW-L01-121121 (DUP)	12/11/2021 11:10:00AM	Surface Water	TOTAL METALS BY ICP		12/14/2021 11:21:00AM	12/14/2021
2112G62-002B	LLB-SW-L01-121121 (DUP)	12/11/2021 11:10:00AM	Surface Water	TOTAL MERCURY		12/15/2021 10:25:00AM	12/15/2021
2112G62-002C	LLB-SW-L01-121121 (DUP)	12/11/2021 11:10:00AM	Surface Water	TCL-SEMIVOLATILE ORGANICS		12/14/2021 10:46:10AM	12/14/2021
2112G62-003A	LLB-SW-L02-121121	12/11/2021 11:20:00AM	Surface Water	TCL VOLATILE ORGANICS		12/14/2021 9:47:00AM	12/14/2021
2112G62-003B	LLB-SW-L02-121121	12/11/2021 11:20:00AM	Surface Water	TOTAL METALS BY ICP		12/14/2021 11:21:00AM	12/14/2021
2112G62-003B	LLB-SW-L02-121121	12/11/2021 11:20:00AM	Surface Water	TOTAL MERCURY		12/15/2021 10:25:00AM	12/15/2021
2112G62-003C	LLB-SW-L02-121121	12/11/2021 11:20:00AM	Surface Water	APPENDIX II-SEMIVOLATILE ORGANICS		12/14/2021 10:46:10AM	12/14/2021
2112G62-003C	LLB-SW-L02-121121	12/11/2021 11:20:00AM	Surface Water	TCL-SEMIVOLATILE ORGANICS		12/14/2021 10:46:10AM	12/14/2021
2112G62-003C	LLB-SW-L02-121121	12/11/2021 11:20:00AM	Surface Water	Semivolatile Org. Comp. by GC/MS		12/14/2021 10:46:10AM	12/14/2021
2112G62-004A	LLB-SS-L01-121121	12/11/2021 12:00:00PM	Soil	TCL VOLATILE ORGANICS		12/14/2021 9:00:00AM	12/14/2021
2112G62-004D	LLB-SS-L01-121121	12/11/2021 12:00:00PM	Soil	TOTAL METALS BY ICP		12/14/2021 12:05:00PM	12/14/2021
2112G62-004D	LLB-SS-L01-121121	12/11/2021 12:00:00PM	Soil	TCL-SEMIVOLATILE ORGANICS		12/14/2021 6:57:02AM	12/14/2021
2112G62-004D	LLB-SS-L01-121121	12/11/2021 12:00:00PM	Soil	PERCENT MOISTURE			12/14/2021
2112G62-004E	LLB-SS-L01-121121	12/11/2021 12:00:00PM	Soil	Mercury by SW7473		12/14/2021 9:51:00AM	12/14/2021
2112G62-005A	LLB-SS-L01-121121 (DUP)	12/11/2021 12:12:00PM	Soil	TCL VOLATILE ORGANICS		12/14/2021 9:00:00AM	12/14/2021
2112G62-005D	LLB-SS-L01-121121 (DUP)	12/11/2021 12:12:00PM	Soil	TOTAL METALS BY ICP		12/14/2021 12:05:00PM	12/14/2021
2112G62-005D	LLB-SS-L01-121121 (DUP)	12/11/2021 12:12:00PM	Soil	TCL-SEMIVOLATILE ORGANICS		12/14/2021 6:57:02AM	12/14/2021
2112G62-005D	LLB-SS-L01-121121 (DUP)	12/11/2021 12:12:00PM	Soil	PERCENT MOISTURE			12/14/2021
2112G62-005E	LLB-SS-L01-121121 (DUP)	12/11/2021 12:12:00PM	Soil	Mercury by SW7473		12/14/2021 9:51:00AM	12/14/2021
2112G62-006A	LLB-SS-L02-121121	12/11/2021 12:25:00PM	Soil	TCL VOLATILE ORGANICS		12/14/2021 9:00:00AM	12/14/2021
2112G62-006E	LLB-SS-L02-121121	12/11/2021 12:25:00PM	Soil	TOTAL METALS BY ICP		12/14/2021 12:05:00PM	12/14/2021
2112G62-006E	LLB-SS-L02-121121	12/11/2021 12:25:00PM	Soil	TCL-SEMIVOLATILE ORGANICS		12/14/2021 6:57:02AM	12/14/2021
2112G62-006E	LLB-SS-L02-121121	12/11/2021 12:25:00PM	Soil	TCL-SEMIVOLATILE ORGANICS		12/14/2021 6:57:02AM	12/15/2021
2112G62-006E	LLB-SS-L02-121121	12/11/2021 12:25:00PM	Soil	PERCENT MOISTURE			12/14/2021

Analytical Environmental Services, Inc

Date: 23-Dec-21

Client: Tetra Tech EM Inc.
Project Name: Lawrenceville Lithium Battery Fire
Lab Order: 2112G62

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2112G62-006F	LLB-SS-L02-121121	12/11/2021 12:25:00PM	Soil	Mercury by SW7473		12/14/2021 9:51:00AM	12/14/2021
2112G62-007A	LLB-SS-L03-121121	12/11/2021 12:50:00PM	Soil	TCL VOLATILE ORGANICS		12/14/2021 9:00:00AM	12/14/2021
2112G62-007C	LLB-SS-L03-121121	12/11/2021 12:50:00PM	Soil	TOTAL METALS BY ICP		12/14/2021 12:05:00PM	12/14/2021
2112G62-007C	LLB-SS-L03-121121	12/11/2021 12:50:00PM	Soil	TCL-SEMIVOLATILE ORGANICS		12/14/2021 6:57:02AM	12/14/2021
2112G62-007C	LLB-SS-L03-121121	12/11/2021 12:50:00PM	Soil	PERCENT MOISTURE			12/14/2021
2112G62-007D	LLB-SS-L03-121121	12/11/2021 12:50:00PM	Soil	Mercury by SW7473		12/14/2021 9:51:00AM	12/14/2021
2112G62-008A	LLB-SS-L04-121121	12/11/2021 2:00:00PM	Soil	TCL VOLATILE ORGANICS		12/14/2021 9:00:00AM	12/14/2021
2112G62-008D	LLB-SS-L04-121121	12/11/2021 2:00:00PM	Soil	TOTAL METALS BY ICP		12/14/2021 12:05:00PM	12/14/2021
2112G62-008D	LLB-SS-L04-121121	12/11/2021 2:00:00PM	Soil	TCL-SEMIVOLATILE ORGANICS		12/14/2021 6:57:02AM	12/14/2021
2112G62-008D	LLB-SS-L04-121121	12/11/2021 2:00:00PM	Soil	PERCENT MOISTURE			12/14/2021
2112G62-008E	LLB-SS-L04-121121	12/11/2021 2:00:00PM	Soil	Mercury by SW7473		12/14/2021 9:51:00AM	12/14/2021
2112G62-009A	LLB-SS-L05-121121	12/11/2021 2:35:00PM	Soil	TCL VOLATILE ORGANICS		12/14/2021 9:00:00AM	12/14/2021
2112G62-009B	LLB-SS-L05-121121	12/11/2021 2:35:00PM	Soil	TOTAL METALS BY ICP		12/14/2021 12:05:00PM	12/14/2021
2112G62-009B	LLB-SS-L05-121121	12/11/2021 2:35:00PM	Soil	TCL-SEMIVOLATILE ORGANICS		12/14/2021 6:57:02AM	12/14/2021
2112G62-009B	LLB-SS-L05-121121	12/11/2021 2:35:00PM	Soil	PERCENT MOISTURE			12/14/2021
2112G62-009C	LLB-SS-L05-121121	12/11/2021 2:35:00PM	Soil	Mercury by SW7473		12/14/2021 9:51:00AM	12/14/2021
2112G62-010A	LLB-SS-L06-121321	12/13/2021 1:55:00PM	Soil	TOTAL METALS BY ICP		12/14/2021 12:05:00PM	12/14/2021
2112G62-010A	LLB-SS-L06-121321	12/13/2021 1:55:00PM	Soil	PERCENT MOISTURE			12/14/2021
2112G62-010B	LLB-SS-L06-121321	12/13/2021 1:55:00PM	Soil	MERCURY, TCLP Leached	12/14/2021	12/15/2021 10:25:00AM	12/15/2021
2112G62-010B	LLB-SS-L06-121321	12/13/2021 1:55:00PM	Soil	ICP METALS, TCLP Leached	12/14/2021	12/15/2021 12:32:00PM	12/15/2021
2112G62-010B	LLB-SS-L06-121321	12/13/2021 1:55:00PM	Soil	Mercury by SW7473		12/14/2021 9:51:00AM	12/14/2021
2112G62-011A	LLB-EB-121321	12/13/2021 12:00:00PM	Surface Water	TCL VOLATILE ORGANICS		12/14/2021 9:47:00AM	12/14/2021
2112G62-011B	LLB-EB-121321	12/13/2021 12:00:00PM	Surface Water	TOTAL METALS BY ICP		12/14/2021 11:21:00AM	12/14/2021
2112G62-011B	LLB-EB-121321	12/13/2021 12:00:00PM	Surface Water	TOTAL MERCURY		12/15/2021 10:25:00AM	12/15/2021
2112G62-011C	LLB-EB-121321	12/13/2021 12:00:00PM	Surface Water	TCL-SEMIVOLATILE ORGANICS		12/14/2021 10:46:10AM	12/14/2021
2112G62-012A	LLB-FB-121321	12/13/2021 12:15:00PM	Surface Water	TCL VOLATILE ORGANICS		12/14/2021 9:47:00AM	12/14/2021
2112G62-012B	LLB-FB-121321	12/13/2021 12:15:00PM	Surface Water	TOTAL METALS BY ICP		12/14/2021 11:21:00AM	12/14/2021
2112G62-012B	LLB-FB-121321	12/13/2021 12:15:00PM	Surface Water	TOTAL MERCURY		12/15/2021 10:25:00AM	12/15/2021
2112G62-012C	LLB-FB-121321	12/13/2021 12:15:00PM	Surface Water	TCL-SEMIVOLATILE ORGANICS		12/14/2021 10:46:10AM	12/14/2021

Analytical Environmental Services, Inc

Date: 23-Dec-21

Client: Tetra Tech EM Inc.
Project Name: Lawrenceville Lithium Battery Fire
Lab Order: 2112G62

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2112G62-013A	LLB-TB-121321	12/13/2021 2:00:00PM	Aqueous	TCL VOLATILE ORGANICS		12/14/2021 9:47:00AM	12/14/2021

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327248

Sample ID: **MB-327248** Client ID: Units: **ug/L** Prep Date: **12/14/2021** Run No: **472525**
SampleType: **MBLK** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327248** Seq No: **10883548**
Analysis Date / Time: **Dec 14 2021 2:43PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1´-Biphenyl	BRL	4.1	10									
2,4,5-Trichlorophenol	BRL	3.9	25									
2,4,6-Trichlorophenol	BRL	3.4	10									
2,4-Dichlorophenol	BRL	3.6	10									
2,4-Dimethylphenol	BRL	3.8	10									
2,4-Dinitrophenol	BRL	8.8	25									
2,4-Dinitrotoluene	BRL	6.0	10									
2,6-Dinitrotoluene	BRL	5.3	10									
2-Chloronaphthalene	BRL	3.0	10									
2-Chlorophenol	BRL	2.0	10									
2-Methylnaphthalene	BRL	3.0	10									
2-Methylphenol	BRL	3.1	10									
2-Nitroaniline	BRL	3.6	25									
2-Nitrophenol	BRL	2.5	10									
3,3´-Dichlorobenzidine	BRL	3.7	10									
3-Nitroaniline	BRL	4.3	25									
4,6-Dinitro-2-methylphenol	BRL	14	25									
4-Bromophenyl phenyl ether	BRL	3.9	10									
4-Chloro-3-methylphenol	BRL	4.0	10									
4-Chloroaniline	BRL	4.9	10									
4-Chlorophenyl phenyl ether	BRL	3.0	10									
4-Methylphenol	BRL	3.3	10									
4-Nitroaniline	BRL	5.1	25									
4-Nitrophenol	BRL	5.8	25									
Acenaphthene	BRL	2.5	10									
Acenaphthylene	BRL	2.7	10									
Acetophenone	BRL	4.0	10									
Anthracene	BRL	2.9	10									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327248

Sample ID: **MB-327248** Client ID: Units: **ug/L** Prep Date: **12/14/2021** Run No: **472525**
SampleType: **MBLK** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327248** Seq No: **10883548**
Analysis Date / Time: **Dec 14 2021 2:43PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Atrazine	BRL	5.8	10									
Benz(a)anthracene	BRL	2.8	10									
Benzaldehyde	BRL	6.8	10									
Benzo(a)pyrene	BRL	3.5	10									
Benzo(b)fluoranthene	BRL	3.8	10									
Benzo(g,h,i)perylene	BRL	4.2	10									
Benzo(k)fluoranthene	BRL	3.6	10									
Bis(2-chloroethoxy)methane	BRL	2.6	10									
Bis(2-chloroethyl)ether	BRL	2.4	10									
Bis(2-chloroisopropyl)ether	BRL	3.0	10									
Bis(2-ethylhexyl)phthalate	BRL	4.4	10									
Butyl benzyl phthalate	BRL	3.4	10									
Caprolactam	BRL	5.0	10									
Carbazole	BRL	3.3	10									
Chrysene	BRL	2.7	10									
Di-n-butyl phthalate	BRL	3.3	10									
Di-n-octyl phthalate	BRL	9.3	10									
Dibenz(a,h)anthracene	BRL	4.5	10									
Dibenzofuran	BRL	2.7	10									
Diethyl phthalate	BRL	3.3	10									
Dimethyl phthalate	BRL	2.8	10									
Fluoranthene	BRL	3.0	10									
Fluorene	BRL	2.7	10									
Hexachlorobenzene	BRL	3.9	10									
Hexachlorobutadiene	BRL	4.2	10									
Hexachlorocyclopentadiene	BRL	8.4	10									
Hexachloroethane	BRL	3.1	10									
Indeno(1,2,3-cd)pyrene	BRL	4.2	10									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327248

Sample ID: **MB-327248** Client ID: Units: **ug/L** Prep Date: **12/14/2021** Run No: **472525**
SampleType: **MBLK** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327248** Seq No: **10883548**
Analysis Date / Time: **Dec 14 2021 2:43PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Isophorone	BRL	3.5	10									
N-Nitrosodi-n-propylamine	BRL	2.5	10									
N-Nitrosodiphenylamine	BRL	2.4	10									
Naphthalene	BRL	2.1	10									
Nitrobenzene	BRL	2.5	10									
Pentachlorophenol	BRL	6.4	25									
Phenanthrene	BRL	2.9	10									
Phenol	BRL	2.9	10									
Pyrene	BRL	2.9	10									
Surr: 2,4,6-Tribromophenol	67.66	0	0	100.0		67.7	46	135				
Surr: 2-Fluorobiphenyl	39.39	0	0	50.00		78.8	45	121				
Surr: 2-Fluorophenol	55.39	0	0	100.0		55.4	28.2	120				
Surr: 4-Terphenyl-d14	40.62	0	0	50.00		81.2	44	120				
Surr: Nitrobenzene-d5	32.99	0	0	50.00		66.0	41	123				
Surr: Phenol-d5	38.30	0	0	100.0		38.3	19.5	120				

Sample ID: **2112G62-003CMS** Client ID: **LLB-SW-L02-121121** Units: **ug/L** Prep Date: **12/14/2021** Run No: **472525**
SampleType: **MS1** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327248** Seq No: **10885213**
Analysis Date / Time: **Dec 14 2021 8:21PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1´-Biphenyl	BRL	4.1	10	0	0	0	50	150	0	0	0	
2,4,5-Trichlorophenol	65.49	3.9	25	100.0	0	65.5	51.6	123	0	0	0	
2,4,6-Trichlorophenol	87.18	3.4	10	100.0	0	87.2	49.1	125	0	0	0	
2,4-Dichlorophenol	88.73	3.6	10	100.0	0	88.7	50.9	120	0	0	0	
2,4-Dimethylphenol	62.84	3.8	10	100.0	0	62.8	41.2	120	0	0	0	
2,4-Dinitrophenol	BRL	8.8	25	0	0	0	1	150	0	0	0	
2,4-Dinitrotoluene	70.85	6.0	10	100.0	0	70.8	50.1	120	0	0	0	
2,6-Dinitrotoluene	68.72	5.3	10	100.0	0	68.7	55.3	136	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327248

Sample ID: **2112G62-003CMS** Client ID: **LLB-SW-L02-121121** Units: **ug/L** Prep Date: **12/14/2021** Run No: **472525**
SampleType: **MS1** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327248** Seq No: **10885213**
Analysis Date / Time: **Dec 14 2021 8:21PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2-Chloronaphthalene	BRL	3.0	10	0	0	0	50	150	0	0	0	
2-Chlorophenol	82.59	2.0	10	100.0	0	82.6	51.4	120	0	0	0	
2-Methylnaphthalene	BRL	3.0	10	0	0	0	50	150	0	0	0	
2-Methylphenol	52.96	3.1	10	100.0	0	53.0	47.1	120	0	0	0	
2-Nitroaniline	BRL	3.6	25	0	0	0	50	150	0	0	0	
2-Nitrophenol	BRL	2.5	10	0	0	0	50	150	0	0	0	
3,3´-Dichlorobenzidine	BRL	3.7	10	0	0	0	47.1	120	0	0	0	
3-Nitroaniline	BRL	4.3	25	0	0	0	50	150	0	0	0	
4,6-Dinitro-2-methylphenol	BRL	14	25	0	0	0	10	150	0	0	0	
4-Bromophenyl phenyl ether	67.10	3.9	10	100.0	0	67.1	50.1	128	0	0	0	
4-Chloro-3-methylphenol	83.42	4.0	10	100.0	0	83.4	50	121	0	0	0	
4-Chloroaniline	BRL	4.9	10	0	0	0	50	150	0	0	0	
4-Chlorophenyl phenyl ether	BRL	3.0	10	0	0	0	50	150	0	0	0	
4-Methylphenol	69.04	3.3	10	100.0	0	69.0	46.7	120	0	0	0	
4-Nitroaniline	BRL	5.1	25	0	0	0	50	150	0	0	0	
4-Nitrophenol	BRL	5.8	25	0	0	0	23.7	120	0	0	0	
Acenaphthene	113.3	2.5	10	100.0	0	113	53.9	120	0	0	0	
Acenaphthylene	70.95	2.7	10	100.0	0	71.0	48.4	121	0	0	0	
Acetophenone	BRL	4.0	10	0	0	0	50	150	0	0	0	
Anthracene	74.19	2.9	10	100.0	0	74.2	56.7	120	0	0	0	
Atrazine	BRL	5.8	10	0	0	0	1	150	0	0	0	
Benz(a)anthracene	74.71	2.8	10	100.0	0	74.7	51.1	128	0	0	0	
Benzaldehyde	BRL	6.8	10	0	0	0	10	150	0	0	0	
Benzo(a)pyrene	35.51	3.5	10	50.00	0	71.0	51	124	0	0	0	
Benzo(b)fluoranthene	62.41	3.8	10	100.0	0	62.4	50.3	125	0	0	0	
Benzo(g,h,i)perylene	BRL	4.2	10	0	0	0	50	150	0	0	0	
Benzo(k)fluoranthene	BRL	3.6	10	0	0	0	50	150	0	0	0	
Bis(2-chloroethoxy)methane	69.11	2.6	10	100.0	0	69.1	55.9	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327248

Sample ID: **2112G62-003CMS** Client ID: **LLB-SW-L02-121121** Units: **ug/L** Prep Date: **12/14/2021** Run No: **472525**
SampleType: **MS1** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327248** Seq No: **10885213**
Analysis Date / Time: **Dec 14 2021 8:21PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bis(2-chloroethyl)ether	66.84	2.4	10	100.0	0	66.8	40.7	125	0	0	0	
Bis(2-chloroisopropyl)ether	44.09	3.0	10	100.0	0	44.1	41	120	0	0	0	
Bis(2-ethylhexyl)phthalate	71.96	4.4	10	100.0	0	72.0	51.8	130	0	0	0	
Butyl benzyl phthalate	BRL	3.4	10	0	0	0	50	150	0	0	0	
Caprolactam	BRL	5.0	10	0	0	0	10	150	0	0	0	
Carbazole	BRL	3.3	10	0	0	0	50	150	0	0	0	
Chrysene	72.27	2.7	10	100.0	0	72.3	50.3	120	0	0	0	
Di-n-butyl phthalate	69.33	3.3	10	100.0	0	69.3	50.9	126	0	0	0	
Di-n-octyl phthalate	39.13	9.3	10	50.00	0	78.3	52.4	130	0	0	0	
Dibenz(a,h)anthracene	57.19	4.5	10	100.0	0	57.2	51.2	125	0	0	0	
Dibenzofuran	BRL	2.7	10	0	0	0	50	150	0	0	0	
Diethyl phthalate	78.17	3.3	10	100.0	0	78.2	50.9	124	0	0	0	
Dimethyl phthalate	68.99	2.8	10	100.0	0	69.0	55.8	130	0	0	0	
Fluoranthene	36.36	3.0	10	50.00	0	72.7	52.3	126	0	0	0	
Fluorene	75.21	2.7	10	100.0	0	75.2	48.6	120	0	0	0	
Hexachlorobenzene	74.31	3.9	10	100.0	0	74.3	47.7	119	0	0	0	
Hexachlorobutadiene	103.1	4.2	10	100.0	0	103	43.5	120	0	0	0	
Hexachlorocyclopentadiene	BRL	8.4	10	0	0	0	1	150	0	0	0	
Hexachloroethane	BRL	3.1	10	0	0	0	50	150	0	0	0	
Indeno(1,2,3-cd)pyrene	BRL	4.2	10	0	0	0	50	150	0	0	0	
Isophorone	BRL	3.5	10	0	0	0	50	150	0	0	0	
N-Nitrosodi-n-propylamine	BRL	2.5	10	0	0	0	52.6	122	0	0	0	
N-Nitrosodiphenylamine	96.92	2.4	10	100.0	0	96.9	50.6	120	0	0	0	
Naphthalene	73.38	2.1	10	100.0	0	73.4	50	120	0	0	0	
Nitrobenzene	66.90	2.5	10	100.0	0	66.9	51	120	0	0	0	
Pentachlorophenol	BRL	6.4	25	0	0	0	42.1	134	0	0	0	
Phenanthrene	BRL	2.9	10	0	0	0	50	150	0	0	0	
Phenol	BRL	2.9	10	0	0	0	31	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327248

Sample ID: **2112G62-003CMS** Client ID: **LLB-SW-L02-121121** Units: **ug/L** Prep Date: **12/14/2021** Run No: **472525**
SampleType: **MS1** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327248** Seq No: **10885213**
Analysis Date / Time: **Dec 14 2021 8:21PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Pyrene	77.13	2.9	10	100.0	0	77.1	53	112	0	0	0	
Surr: 2,4,6-Tribromophenol	65.75	0	0	100.0	0	65.8	52	133	0	0	0	
Surr: 2-Fluorobiphenyl	36.40	0	0	50.00	0	72.8	50	121	0	0	0	
Surr: 2-Fluorophenol	33.53	0	0	100.0	0	33.5	27.5	120	0	0	0	
Surr: 4-Terphenyl-d14	35.61	0	0	50.00	0	71.2	46.3	137	0	0	0	
Surr: Nitrobenzene-d5	33.62	0	0	50.00	0	67.2	41.2	121	0	0	0	
Surr: Phenol-d5	21.28	0	0	100.0	0	21.3	14.3	120	0	0	0	

Sample ID: **2112G62-003CMSD** Client ID: **LLB-SW-L02-121121** Units: **ug/L** Prep Date: **12/14/2021** Run No: **472525**
SampleType: **MSD1** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327248** Seq No: **10885215**
Analysis Date / Time: **Dec 14 2021 8:47PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1´-Biphenyl	BRL	4.1	10	0	0	0	50	150	0	0	30	
2,4,5-Trichlorophenol	75.11	3.9	25	100.0	0	75.1	51.6	123	65.49	13.7	28.3	
2,4,6-Trichlorophenol	98.66	3.4	10	100.0	0	98.7	49.1	125	87.18	12.4	27.8	
2,4-Dichlorophenol	99.01	3.6	10	100.0	0	99.0	50.9	120	88.73	11.0	28.3	
2,4-Dimethylphenol	71.02	3.8	10	100.0	0	71.0	41.2	120	62.84	12.2	28.3	
2,4-Dinitrophenol	BRL	8.8	25	0	0	0	1	150	0	0	50	
2,4-Dinitrotoluene	79.48	6.0	10	100.0	0	79.5	50.1	120	70.85	11.5	27.3	
2,6-Dinitrotoluene	77.46	5.3	10	100.0	0	77.5	55.3	136	68.72	12.0	20.7	
2-Chloronaphthalene	BRL	3.0	10	0	0	0	50	150	0	0	30	
2-Chlorophenol	90.56	2.0	10	100.0	0	90.6	51.4	120	82.59	9.21	26.1	
2-Methylnaphthalene	BRL	3.0	10	0	0	0	50	150	0	0	30	
2-Methylphenol	58.59	3.1	10	100.0	0	58.6	47.1	120	52.96	10.1	28.1	
2-Nitroaniline	BRL	3.6	25	0	0	0	50	150	0	0	30	
2-Nitrophenol	BRL	2.5	10	0	0	0	50	150	0	0	35	
3,3´-Dichlorobenzidine	BRL	3.7	10	0	0	0	47.1	120	0	0	26.6	
3-Nitroaniline	BRL	4.3	25	0	0	0	50	150	0	0	30	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327248

Sample ID: **2112G62-003CMSD** Client ID: **LLB-SW-L02-121121** Units: **ug/L** Prep Date: **12/14/2021** Run No: **472525**
SampleType: **MSD1** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327248** Seq No: **10885215**
Analysis Date / Time: **Dec 14 2021 8:47PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,6-Dinitro-2-methylphenol	BRL	14	25	0	0	0	10	150	0	0	30	
4-Bromophenyl phenyl ether	73.86	3.9	10	100.0	0	73.9	50.1	128	67.10	9.59	27.2	
4-Chloro-3-methylphenol	92.85	4.0	10	100.0	0	92.8	50	121	83.42	10.7	25.2	
4-Chloroaniline	BRL	4.9	10	0	0	0	50	150	0	0	30	
4-Chlorophenyl phenyl ether	BRL	3.0	10	0	0	0	50	150	0	0	33	
4-Methylphenol	77.69	3.3	10	100.0	0	77.7	46.7	120	69.04	11.8	26.6	
4-Nitroaniline	BRL	5.1	25	0	0	0	50	150	0	0	30	
4-Nitrophenol	BRL	5.8	25	0	0	0	23.7	120	0	0	53.6	
Acenaphthene	125.8	2.5	10	100.0	0	126	53.9	120	113.3	10.4	24.9	S
Acenaphthylene	80.00	2.7	10	100.0	0	80.0	48.4	121	70.95	12.0	23.8	
Acetophenone	BRL	4.0	10	0	0	0	50	150	0	0	30	
Anthracene	81.42	2.9	10	100.0	0	81.4	56.7	120	74.19	9.29	28.7	
Atrazine	BRL	5.8	10	0	0	0	1	150	0	0	30	
Benz(a)anthracene	84.09	2.8	10	100.0	0	84.1	51.1	128	74.71	11.8	31.6	
Benzaldehyde	BRL	6.8	10	0	0	0	10	150	0	0	40	
Benzo(a)pyrene	39.00	3.5	10	50.00	0	78.0	51	124	35.51	9.37	32.5	
Benzo(b)fluoranthene	70.80	3.8	10	100.0	0	70.8	50.3	125	62.41	12.6	32.1	
Benzo(g,h,i)perylene	BRL	4.2	10	0	0	0	50	150	0	0	30	
Benzo(k)fluoranthene	BRL	3.6	10	0	0	0	50	150	0	0	30	
Bis(2-chloroethoxy)methane	77.35	2.6	10	100.0	0	77.4	55.9	120	69.11	11.3	29.4	
Bis(2-chloroethyl)ether	74.47	2.4	10	100.0	0	74.5	40.7	125	66.84	10.8	29.1	
Bis(2-chloroisopropyl)ether	47.96	3.0	10	100.0	0	48.0	41	120	44.09	8.41	25.4	
Bis(2-ethylhexyl)phthalate	79.07	4.4	10	100.0	0	79.1	51.8	130	71.96	9.42	29.3	
Butyl benzyl phthalate	BRL	3.4	10	0	0	0	50	150	0	0	30	
Caprolactam	BRL	5.0	10	0	0	0	10	150	0	0	40	
Carbazole	BRL	3.3	10	0	0	0	50	150	0	0	30	
Chrysene	78.54	2.7	10	100.0	0	78.5	50.3	120	72.27	8.32	30.4	
Di-n-butyl phthalate	77.20	3.3	10	100.0	0	77.2	50.9	126	69.33	10.7	27.6	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327248

Sample ID: **2112G62-003CMSD** Client ID: **LLB-SW-L02-121121** Units: **ug/L** Prep Date: **12/14/2021** Run No: **472525**
SampleType: **MSD1** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327248** Seq No: **10885215**
Analysis Date / Time: **Dec 14 2021 8:47PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Di-n-octyl phthalate	43.09	9.3	10	50.00	0	86.2	52.4	130	39.13	9.63	34.2	
Dibenz(a,h)anthracene	60.16	4.5	10	100.0	0	60.2	51.2	125	57.19	5.06	33.8	
Dibenzofuran	BRL	2.7	10	0	0	0	50	150	0	0	30	
Diethyl phthalate	84.78	3.3	10	100.0	0	84.8	50.9	124	78.17	8.11	28.4	
Dimethyl phthalate	76.45	2.8	10	100.0	0	76.4	55.8	130	68.99	10.3	26	
Fluoranthene	39.17	3.0	10	50.00	0	78.3	52.3	126	36.36	7.44	31.4	
Fluorene	82.36	2.7	10	100.0	0	82.4	48.6	120	75.21	9.08	27.4	
Hexachlorobenzene	79.91	3.9	10	100.0	0	79.9	47.7	119	74.31	7.26	26.6	
Hexachlorobutadiene	113.4	4.2	10	100.0	0	113	43.5	120	103.1	9.57	29.8	
Hexachlorocyclopentadiene	BRL	8.4	10	0	0	0	1	150	0	0	50	
Hexachloroethane	BRL	3.1	10	0	0	0	50	150	0	0	30	
Indeno(1,2,3-cd)pyrene	BRL	4.2	10	0	0	0	50	150	0	0	30	
Isophorone	BRL	3.5	10	0	0	0	50	150	0	0	30	
N-Nitrosodi-n-propylamine	BRL	2.5	10	0	0	0	52.6	122	0	0	30.7	
N-Nitrosodiphenylamine	107.4	2.4	10	100.0	0	107	50.6	120	96.92	10.3	26	
Naphthalene	79.20	2.1	10	100.0	0	79.2	50	120	73.38	7.63	29.7	
Nitrobenzene	75.82	2.5	10	100.0	0	75.8	51	120	66.90	12.5	26.6	
Pentachlorophenol	BRL	6.4	25	0	0	0	42.1	134	0	0	28.1	
Phenanthrene	BRL	2.9	10	0	0	0	50	150	0	0	30	
Phenol	BRL	2.9	10	0	0	0	31	120	0	0	34.4	
Pyrene	84.55	2.9	10	100.0	0	84.6	53	112	77.13	9.18	24.4	
Surr: 2,4,6-Tribromophenol	71.94	0	0	100.0	0	71.9	52	133	65.75	0	0	
Surr: 2-Fluorobiphenyl	40.87	0	0	50.00	0	81.7	50	121	36.40	0	0	
Surr: 2-Fluorophenol	34.80	0	0	100.0	0	34.8	27.5	120	33.53	0	0	
Surr: 4-Terphenyl-d14	40.22	0	0	50.00	0	80.4	46.3	137	35.61	0	0	
Surr: Nitrobenzene-d5	37.94	0	0	50.00	0	75.9	41.2	121	33.62	0	0	
Surr: Phenol-d5	23.58	0	0	100.0	0	23.6	14.3	120	21.28	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327248

Sample ID: **LCS-327248** Client ID: Units: **ug/L** Prep Date: **12/14/2021** Run No: **472525**
SampleType: **LCS1** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327248** Seq No: **10883610**
Analysis Date / Time: **Dec 14 2021 3:08PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1´-Biphenyl	BRL	4.1	10	0	0	0	50	150	0	0	0	
2,4,5-Trichlorophenol	72.04	3.9	25	100.0	0	72.0	60	122	0	0	0	
2,4,6-Trichlorophenol	106.5	3.4	10	100.0	0	106	61.8	127	0	0	0	
2,4-Dichlorophenol	95.65	3.6	10	100.0	0	95.6	60.6	120	0	0	0	
2,4-Dimethylphenol	77.26	3.8	10	100.0	0	77.3	62.3	120	0	0	0	
2,4-Dinitrophenol	BRL	8.8	25	0	0	0	1	150	0	0	0	
2,4-Dinitrotoluene	90.61	6.0	10	100.0	0	90.6	69.9	127	0	0	0	
2,6-Dinitrotoluene	85.15	5.3	10	100.0	0	85.2	71.4	139	0	0	0	
2-Chloronaphthalene	BRL	3.0	10	0	0	0	50	150	0	0	0	
2-Chlorophenol	106.5	2.0	10	100.0	0	106	59.8	120	0	0	0	
2-Methylnaphthalene	BRL	3.0	10	0	0	0	50	150	0	0	0	
2-Methylphenol	71.18	3.1	10	100.0	0	71.2	61.9	120	0	0	0	
2-Nitroaniline	BRL	3.6	25	0	0	0	50	150	0	0	0	
2-Nitrophenol	BRL	2.5	10	0	0	0	50	150	0	0	0	
3,3´-Dichlorobenzidine	69.43	3.7	10	100.0	0	69.4	45	131	0	0	0	
3-Nitroaniline	BRL	4.3	25	0	0	0	50	150	0	0	0	
4,6-Dinitro-2-methylphenol	BRL	14	25	0	0	0	10	150	0	0	0	
4-Bromophenyl phenyl ether	79.18	3.9	10	100.0	0	79.2	71	134	0	0	0	
4-Chloro-3-methylphenol	109.9	4.0	10	100.0	0	110	65.7	126	0	0	0	
4-Chloroaniline	BRL	4.9	10	0	0	0	50	150	0	0	0	
4-Chlorophenyl phenyl ether	BRL	3.0	10	0	0	0	50	150	0	0	0	
4-Methylphenol	103.2	3.3	10	100.0	0	103	57.7	122	0	0	0	
4-Nitroaniline	BRL	5.1	25	0	0	0	50	150	0	0	0	
4-Nitrophenol	BRL	5.8	25	0	0	0	21	120	0	0	0	
Acenaphthene	140.4	2.5	10	150.0	0	93.6	68.2	124	0	0	0	
Acenaphthylene	90.49	2.7	10	100.0	0	90.5	70.7	139	0	0	0	
Acetophenone	BRL	4.0	10	0	0	0	50	150	0	0	0	
Anthracene	91.16	2.9	10	100.0	0	91.2	72.8	123	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327248

Sample ID: **LCS-327248** Client ID: Units: **ug/L** Prep Date: **12/14/2021** Run No: **472525**
SampleType: **LCS1** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327248** Seq No: **10883610**
Analysis Date / Time: **Dec 14 2021 3:08PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Atrazine	BRL	5.8	10	0	0	0	1	150	0	0	0	
Benz(a)anthracene	93.68	2.8	10	100.0	0	93.7	83.2	134	0	0	0	
Benzaldehyde	BRL	6.8	10	0	0	0	10	150	0	0	0	
Benzo(a)pyrene	43.10	3.5	10	50.00	0	86.2	69.8	139	0	0	0	
Benzo(b)fluoranthene	73.44	3.8	10	100.0	0	73.4	70.4	128	0	0	0	
Benzo(g,h,i)perylene	BRL	4.2	10	0	0	0	50	150	0	0	0	
Benzo(k)fluoranthene	BRL	3.6	10	0	0	0	50	150	0	0	0	
Bis(2-chloroethoxy)methane	84.87	2.6	10	100.0	0	84.9	68.4	124	0	0	0	
Bis(2-chloroethyl)ether	77.95	2.4	10	100.0	0	78.0	65.4	125	0	0	0	
Bis(2-chloroisopropyl)ether	51.69	3.0	10	50.00	0	103	51.9	121	0	0	0	
Bis(2-ethylhexyl)phthalate	85.35	4.4	10	100.0	0	85.4	73.4	134	0	0	0	
Butyl benzyl phthalate	BRL	3.4	10	0	0	0	50	150	0	0	0	
Caprolactam	BRL	5.0	10	0	0	0	15	130	0	0	0	
Carbazole	BRL	3.3	10	0	0	0	50	150	0	0	0	
Chrysene	86.02	2.7	10	100.0	0	86.0	74.1	131	0	0	0	
Di-n-butyl phthalate	85.99	3.3	10	100.0	0	86.0	79.3	135	0	0	0	
Di-n-octyl phthalate	46.93	9.3	10	50.00	0	93.9	70.4	132	0	0	0	
Dibenz(a,h)anthracene	91.70	4.5	10	100.0	0	91.7	76.5	135	0	0	0	
Dibenzofuran	BRL	2.7	10	0	0	0	50	150	0	0	0	
Diethyl phthalate	95.74	3.3	10	100.0	0	95.7	77.3	132	0	0	0	
Dimethyl phthalate	85.74	2.8	10	100.0	0	85.7	77.7	136	0	0	0	
Fluoranthene	43.72	3.0	10	50.00	0	87.4	77.6	140	0	0	0	
Fluorene	92.87	2.7	10	100.0	0	92.9	74.9	127	0	0	0	
Hexachlorobenzene	89.76	3.9	10	100.0	0	89.8	75.5	128	0	0	0	
Hexachlorobutadiene	131.0	4.2	10	150.0	0	87.3	47.5	120	0	0	0	
Hexachlorocyclopentadiene	BRL	8.4	10	0	0	0	1	150	0	0	0	
Hexachloroethane	BRL	3.1	10	0	0	0	50	150	0	0	0	
Indeno(1,2,3-cd)pyrene	BRL	4.2	10	0	0	0	50	150	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327248

Sample ID: **LCS-327248** Client ID:
SampleType: **LCS1** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E**
Units: **ug/L** Prep Date: **12/14/2021** Run No: **472525**
BatchID: **327248** Seq No: **10883610**
Analysis Date / Time: **Dec 14 2021 3:08PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Isophorone	BRL	3.5	10	0	0	0	50	150	0	0	0	
N-Nitrosodi-n-propylamine	BRL	2.5	10	0	0	0	60.3	138	0	0	0	
N-Nitrosodiphenylamine	117.9	2.4	10	100.0	0	118	50	130	0	0	0	
Naphthalene	89.37	2.1	10	100.0	0	89.4	64	120	0	0	0	
Nitrobenzene	80.58	2.5	10	100.0	0	80.6	63.1	134	0	0	0	
Pentachlorophenol	BRL	6.4	25	0	0	0	50.2	136	0	0	0	
Phenanthrene	BRL	2.9	10	0	0	0	50	150	0	0	0	
Phenol	BRL	2.9	10	0	0	0	25.6	120	0	0	0	
Pyrene	93.98	2.9	10	100.0	0	94.0	70.1	124	0	0	0	
Surr: 2,4,6-Tribromophenol	76.89	0	0	100.0	0	76.9	51.5	141	0	0	0	
Surr: 2-Fluorobiphenyl	45.40	0	0	50.00	0	90.8	50.8	122	0	0	0	
Surr: 2-Fluorophenol	53.76	0	0	100.0	0	53.8	28.1	120	0	0	0	
Surr: 4-Terphenyl-d14	46.08	0	0	50.00	0	92.2	47.2	131	0	0	0	
Surr: Nitrobenzene-d5	40.16	0	0	50.00	0	80.3	42.1	124	0	0	0	
Surr: Phenol-d5	42.32	0	0	100.0	0	42.3	16	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327269

Sample ID: **MB-327269** Client ID: Units: **ug/Kg** Prep Date: **12/14/2021** Run No: **472526**
SampleType: **MBLK** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327269** Seq No: **10883246**
Analysis Date / Time: **Dec 14 2021 12:36PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1´-Biphenyl	BRL	120	330									
2,4,5-Trichlorophenol	BRL	71	1700									
2,4,6-Trichlorophenol	BRL	69	330									
2,4-Dichlorophenol	BRL	74	330									
2,4-Dimethylphenol	BRL	80	330									
2,4-Dinitrophenol	BRL	940	1700									
2,4-Dinitrotoluene	BRL	220	330									
2,6-Dinitrotoluene	BRL	170	330									
2-Chloronaphthalene	BRL	86	330									
2-Chlorophenol	BRL	57	330									
2-Methylnaphthalene	BRL	60	330									
2-Methylphenol	BRL	63	330									
2-Nitroaniline	BRL	98	1700									
2-Nitrophenol	BRL	91	330									
3,3´-Dichlorobenzidine	BRL	97	670									
3-Nitroaniline	BRL	76	1700									
4,6-Dinitro-2-methylphenol	BRL	830	1700									
4-Bromophenyl phenyl ether	BRL	82	330									
4-Chloro-3-methylphenol	BRL	70	330									
4-Chloroaniline	BRL	96	330									
4-Chlorophenyl phenyl ether	BRL	72	330									
4-Methylphenol	BRL	83	330									
4-Nitroaniline	BRL	100	1700									
4-Nitrophenol	BRL	180	1700									
Acenaphthene	BRL	48	330									
Acenaphthylene	BRL	250	330									
Acetophenone	BRL	160	330									
Anthracene	BRL	130	330									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327269

Sample ID: **MB-327269** Client ID:
SampleType: **MBLK** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E**
Units: **ug/Kg** Prep Date: **12/14/2021** Run No: **472526**
BatchID: **327269** Seq No: **10883246**
Analysis Date / Time: **Dec 14 2021 12:36PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Atrazine	BRL	200	330									
Benz(a)anthracene	BRL	62	330									
Benzaldehyde	BRL	230	330									
Benzo(a)pyrene	BRL	100	330									
Benzo(b)fluoranthene	BRL	110	330									
Benzo(g,h,i)perylene	BRL	310	330									
Benzo(k)fluoranthene	BRL	130	330									
Bis(2-chloroethoxy)methane	BRL	70	330									
Bis(2-chloroethyl)ether	BRL	78	330									
Bis(2-chloroisopropyl)ether	BRL	98	330									
Bis(2-ethylhexyl)phthalate	BRL	72	330									
Butyl benzyl phthalate	BRL	62	330									
Caprolactam	BRL	130	330									
Carbazole	BRL	150	330									
Chrysene	BRL	68	330									
Di-n-butyl phthalate	BRL	270	330									
Di-n-octyl phthalate	BRL	280	330									
Dibenz(a,h)anthracene	BRL	120	330									
Dibenzofuran	BRL	59	330									
Diethyl phthalate	BRL	59	330									
Dimethyl phthalate	BRL	48	330									
Fluoranthene	BRL	73	330									
Fluorene	BRL	95	330									
Hexachlorobenzene	BRL	94	330									
Hexachlorobutadiene	BRL	89	330									
Hexachlorocyclopentadiene	BRL	630	660									
Hexachloroethane	BRL	87	330									
Indeno(1,2,3-cd)pyrene	BRL	140	330									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327269

Sample ID: **MB-327269** Client ID: Units: **ug/Kg** Prep Date: **12/14/2021** Run No: **472526**
SampleType: **MBLK** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327269** Seq No: **10883246**
Analysis Date / Time: **Dec 14 2021 12:36PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Isophorone	BRL	110	330									
N-Nitrosodi-n-propylamine	BRL	73	330									
N-Nitrosodiphenylamine	BRL	47	330									
Naphthalene	BRL	53	330									
Nitrobenzene	BRL	64	330									
Pentachlorophenol	BRL	200	1700									
Phenanthrene	BRL	63	330									
Phenol	BRL	60	330									
Pyrene	BRL	130	330									
Surr: 2,4,6-Tribromophenol	1998	0	0	3333		60.0	44.9	127				
Surr: 2-Fluorobiphenyl	1214	0	0	1667		72.9	50.1	120				
Surr: 2-Fluorophenol	1767	0	0	3333		53.0	40.8	120				
Surr: 4-Terphenyl-d14	1351	0	0	1667		81.0	50.9	120				
Surr: Nitrobenzene-d5	922.7	0	0	1667		55.4	41	120				
Surr: Phenol-d5	1749	0	0	3333		52.5	45.3	120				

Sample ID: **2112G62-006EMS** Client ID: **LLB-SS-L02-121121** Units: **ug/Kg** Prep Date: **12/14/2021** Run No: **472535**
SampleType: **MS1** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327269** Seq No: **10885480**
Analysis Date / Time: **Dec 14 2021 6:27PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1´-Biphenyl	BRL	120	330	0	0	0	50	150	0	0	0	
2,4,5-Trichlorophenol	1811	71	1700	3333	0	54.3	37.7	120	0	0	0	
2,4,6-Trichlorophenol	1901	70	330	3333	0	57.0	46	120	0	0	0	
2,4-Dichlorophenol	1763	74	330	3333	0	52.9	41.4	120	0	0	0	
2,4-Dimethylphenol	1817	80	330	3333	0	54.5	44	120	0	0	0	
2,4-Dinitrophenol	BRL	940	1700	0	0	0	1	172.9	0	0	0	
2,4-Dinitrotoluene	1783	220	330	3333	0	53.5	41.7	120	0	0	0	
2,6-Dinitrotoluene	1797	170	330	3333	0	53.9	43.8	123	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327269

Sample ID: **2112G62-006EMS** Client ID: **LLB-SS-L02-121121** Units: **ug/Kg** Prep Date: **12/14/2021** Run No: **472535**
SampleType: **MS1** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327269** Seq No: **10885480**
Analysis Date / Time: **Dec 14 2021 6:27PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2-Chloronaphthalene	BRL	86	330	0	0	0	50	150	0	0	0	
2-Chlorophenol	1761	57	330	3333	0	52.8	42.9	120	0	0	0	
2-Methylnaphthalene	BRL	60	330	0	0	0	50	150	0	0	0	
2-Methylphenol	1905	63	330	3333	0	57.2	41.5	120	0	0	0	
2-Nitroaniline	BRL	98	1700	0	0	0	50	150	0	0	0	
2-Nitrophenol	BRL	91	330	0	0	0	45	167	0	0	0	
3,3´-Dichlorobenzidine	288.3	97	670	3333	0	8.65	26	120	0	0	0	JS
3-Nitroaniline	BRL	76	1700	0	0	0	50	150	0	0	0	
4,6-Dinitro-2-methylphenol	BRL	830	1700	0	0	0	50	150	0	0	0	
4-Bromophenyl phenyl ether	1800	82	330	3333	0	54.0	43.5	123	0	0	0	
4-Chloro-3-methylphenol	1897	70	330	3333	0	56.9	41.1	120	0	0	0	
4-Chloroaniline	BRL	96	330	0	0	0	50	150	0	0	0	
4-Chlorophenyl phenyl ether	BRL	72	330	0	0	0	38.4	150	0	0	0	
4-Methylphenol	2246	83	330	3333	0	67.4	42.9	120	0	0	0	
4-Nitroaniline	BRL	100	1700	0	0	0	50	150	0	0	0	
4-Nitrophenol	BRL	180	1700	0	0	0	32	120	0	0	0	
Acenaphthene	2998	48	330	3333	135.2	85.9	51.5	120	0	0	0	
Acenaphthylene	1956	250	330	3333	0	58.7	46.2	121	0	0	0	
Acetophenone	BRL	160	330	0	0	0	50	150	0	0	0	
Anthracene	2346	130	330	3333	602.6	52.3	53.4	120	0	0	0	S
Atrazine	BRL	200	330	0	0	0	50	150	0	0	0	
Benzaldehyde	BRL	230	330	0	0	0	10	150	0	0	0	
Benzo(g,h,i)perylene	2544	310	330	3333	3301	-22.7	46	150	0	0	0	S
Benzo(k)fluoranthene	1992	130	330	3333	2458	-14.0	50	150	0	0	0	S
Bis(2-chloroethoxy)methane	1905	70	330	3333	0	57.2	48.7	120	0	0	0	
Bis(2-chloroethyl)ether	1793	78	330	3333	0	53.8	41.3	120	0	0	0	
Bis(2-chloroisopropyl)ether	1758	98	330	3333	0	52.7	34	120	0	0	0	
Bis(2-ethylhexyl)phthalate	2197	72	330	3333	252.9	58.3	43.3	132	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327269

Sample ID: **2112G62-006EMS** Client ID: **LLB-SS-L02-121121** Units: **ug/Kg** Prep Date: **12/14/2021** Run No: **472535**
SampleType: **MS1** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327269** Seq No: **10885480**
Analysis Date / Time: **Dec 14 2021 6:27PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Butyl benzyl phthalate	BRL	62	330	0	0	0	1	150	0	0	0	
Caprolactam	BRL	130	330	0	0	0	50	150	0	0	0	
Carbazole	817.7	150	330	3333	927.3	-3.29	50	150	0	0	0	S
Di-n-butyl phthalate	1939	270	330	3333	0	58.2	50.5	129	0	0	0	
Di-n-octyl phthalate	1188	280	330	3333	0	35.6	44.9	123	0	0	0	S
Dibenz(a,h)anthracene	2517	120	330	3333	1020	44.9	44.9	126	0	0	0	
Dibenzofuran	61.67	59	330	3333	0	1.85	50	150	0	0	0	JS
Diethyl phthalate	2045	59	330	3333	0	61.4	44.5	120	0	0	0	
Dimethyl phthalate	1862	48	330	3333	0	55.9	48	120	0	0	0	
Fluorene	2089	95	330	3333	192.5	56.9	47.4	119	0	0	0	
Hexachlorobenzene	1884	94	330	3333	0	56.5	50.1	120	0	0	0	
Hexachlorobutadiene	2706	89	330	3333	0	81.2	48.1	120	0	0	0	
Hexachlorocyclopentadiene	BRL	630	660	0	0	0	1	150	0	0	0	
Hexachloroethane	BRL	87	330	0	0	0	50	150	0	0	0	
Indeno(1,2,3-cd)pyrene	2417	140	330	3333	2862	-13.4	50	150	0	0	0	S
Isophorone	BRL	110	330	0	0	0	46.6	180.2	0	0	0	
N-Nitrosodi-n-propylamine	BRL	73	330	0	0	0	50.2	120	0	0	0	
N-Nitrosodiphenylamine	2470	47	330	3333	0	74.1	36.2	120	0	0	0	
Naphthalene	1880	53	330	3333	0	56.4	44.7	120	0	0	0	
Nitrobenzene	1713	64	330	3333	0	51.4	42.3	120	0	0	0	
Pentachlorophenol	BRL	200	1700	0	0	0	38.4	120	0	0	0	
Phenanthrene	3217	63	330	3333	4294	-32.3	50	150	0	0	0	S
Phenol	BRL	60	330	0	0	0	41.5	120	0	0	0	
Surr: 2,4,6-Tribromophenol	2377	0	0	3333	0	71.3	40.2	120	0	0	0	
Surr: 2-Fluorobiphenyl	971.7	0	0	1667	0	58.3	45.6	120	0	0	0	
Surr: 2-Fluorophenol	1823	0	0	3333	0	54.7	35.2	120	0	0	0	
Surr: 4-Terphenyl-d14	983.0	0	0	1667	0	59.0	51	121	0	0	0	
Surr: Nitrobenzene-d5	1008	0	0	1667	0	60.5	37.8	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327269

Sample ID: **2112G62-006EMS** Client ID: **LLB-SS-L02-121121** Units: **ug/Kg** Prep Date: **12/14/2021** Run No: **472535**
SampleType: **MS1** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327269** Seq No: **10885480**
Analysis Date / Time: **Dec 14 2021 6:27PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: Phenol-d5	1943	0	0	3333	0	58.3	39.9	120	0	0	0	

Sample ID: **2112G62-006EMS** Client ID: **LLB-SS-L02-121121** Units: **ug/Kg-dry** Prep Date: **12/14/2021** Run No: **472641**
SampleType: **MS1** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327269** Seq No: **10890988**
Analysis Date / Time: **Dec 15 2021 3:27PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benz(a)anthracene	7788	820	4400	4405	5101	61.0	46.8	123	0	0	0	
Benzo(a)pyrene	7026	1300	4400	4405	5824	27.3	37.5	122	0	0	0	S
Benzo(b)fluoranthene	10460	1400	4400	4405	11790	-30.3	34.7	124	0	0	0	S
Chrysene	10600	900	4400	4405	7982	59.5	50.8	120	0	0	0	
Fluoranthene	15480	960	4400	4405	13740	39.5	51	121	0	0	0	S
Pyrene	13550	1700	4400	4405	10410	71.5	42.7	120	0	0	0	

Sample ID: **2112G62-006EMSD** Client ID: **LLB-SS-L02-121121** Units: **ug/Kg** Prep Date: **12/14/2021** Run No: **472535**
SampleType: **MSD1** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327269** Seq No: **10885481**
Analysis Date / Time: **Dec 14 2021 6:52PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1´-Biphenyl	BRL	120	330	0	0	0	50	150	0	0	40	
2,4,5-Trichlorophenol	1753	71	1700	3333	0	52.6	37.7	120	1811	3.22	29.8	
2,4,6-Trichlorophenol	1870	70	330	3333	0	56.1	46	120	1901	1.66	31.2	
2,4-Dichlorophenol	1759	74	330	3333	0	52.8	41.4	120	1763	0.208	31	
2,4-Dimethylphenol	1836	80	330	3333	0	55.1	44	120	1817	1.06	25.9	
2,4-Dinitrophenol	BRL	940	1700	0	0	0	1	172.9	0	0	50	
2,4-Dinitrotoluene	1513	220	330	3333	0	45.4	41.7	120	1783	16.4	33.1	
2,6-Dinitrotoluene	1567	170	330	3333	0	47.0	43.8	123	1797	13.7	20	
2-Chloronaphthalene	BRL	86	330	0	0	0	50	150	0	0	30	
2-Chlorophenol	1775	57	330	3333	0	53.2	42.9	120	1761	0.754	30.7	
2-Methylnaphthalene	BRL	60	330	0	0	0	50	150	0	0	40	
2-Methylphenol	1884	63	330	3333	0	56.5	41.5	120	1905	1.11	23.1	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327269

Sample ID: **2112G62-006EMSD** Client ID: **LLB-SS-L02-121121** Units: **ug/Kg** Prep Date: **12/14/2021** Run No: **472535**
SampleType: **MSD1** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327269** Seq No: **10885481**
Analysis Date / Time: **Dec 14 2021 6:52PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2-Nitroaniline	BRL	98	1700	0	0	0	50	150	0	0	40	
2-Nitrophenol	BRL	91	330	0	0	0	45	167	0	0	35	
3,3´-Dichlorobenzidine	BRL	97	670	0	0	0	26	120	288.3	0	41	
3-Nitroaniline	BRL	76	1700	0	0	0	50	150	0	0	40	
4,6-Dinitro-2-methylphenol	BRL	830	1700	0	0	0	50	150	0	0	93	
4-Bromophenyl phenyl ether	1801	82	330	3333	0	54.0	43.5	123	1800	0.074	31.9	
4-Chloro-3-methylphenol	1906	70	330	3333	0	57.2	41.1	120	1897	0.491	40.5	
4-Chloroaniline	BRL	96	330	0	0	0	50	150	0	0	40	
4-Chlorophenyl phenyl ether	BRL	72	330	0	0	0	38.4	150	0	0	33	
4-Methylphenol	2241	83	330	3333	0	67.2	42.9	120	2246	0.208	30.7	
4-Nitroaniline	BRL	100	1700	0	0	0	50	150	0	0	40	
4-Nitrophenol	BRL	180	1700	0	0	0	32	120	0	0	37.9	
Acenaphthene	3047	48	330	3333	135.2	87.4	51.5	120	2998	1.61	26.3	
Acenaphthylene	1915	250	330	3333	0	57.5	46.2	121	1956	2.10	20	
Acetophenone	BRL	160	330	0	0	0	50	150	0	0	40	
Anthracene	2577	130	330	3333	602.6	59.2	53.4	120	2346	9.38	40.3	
Atrazine	BRL	200	330	0	0	0	50	150	0	0	40	
Benzaldehyde	BRL	230	330	0	0	0	10	150	0	0	50	
Benzo(g,h,i)perylene	2747	310	330	3333	3301	-16.6	46	150	2544	7.69	30	S
Benzo(k)fluoranthene	2960	130	330	3333	2458	15.1	50	150	1992	39.1	30	SR
Bis(2-chloroethoxy)methane	1954	70	330	3333	0	58.6	48.7	120	1905	2.54	20	
Bis(2-chloroethyl)ether	1824	78	330	3333	0	54.7	41.3	120	1793	1.68	21.9	
Bis(2-chloroisopropyl)ether	1773	98	330	3333	0	53.2	34	120	1758	0.850	32.4	
Bis(2-ethylhexyl)phthalate	2170	72	330	3333	252.9	57.5	43.3	132	2197	1.27	20	
Butyl benzyl phthalate	BRL	62	330	0	0	0	1	150	0	0	30	
Caprolactam	BRL	130	330	0	0	0	50	150	0	0	40	
Carbazole	966.0	150	330	3333	927.3	1.16	50	150	817.7	16.6	40	S
Di-n-butyl phthalate	1957	270	330	3333	0	58.7	50.5	129	1939	0.924	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327269

Sample ID: **2112G62-006EMSD** Client ID: **LLB-SS-L02-121121** Units: **ug/Kg** Prep Date: **12/14/2021** Run No: **472535**
SampleType: **MSD1** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327269** Seq No: **10885481**
Analysis Date / Time: **Dec 14 2021 6:52PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Di-n-octyl phthalate	1224	280	330	3333	0	36.7	44.9	123	1188	2.93	19.3	S
Dibenz(a,h)anthracene	1921	120	330	3333	1020	27.0	44.9	126	2517	26.9	30.4	S
Dibenzofuran	74.67	59	330	3333	0	2.24	50	150	61.67	0	30	JS
Diethyl phthalate	2063	59	330	3333	0	61.9	44.5	120	2045	0.860	28.1	
Dimethyl phthalate	1803	48	330	3333	0	54.1	48	120	1862	3.26	20	
Fluorene	2151	95	330	3333	192.5	58.8	47.4	119	2089	2.92	27.4	
Hexachlorobenzene	1895	94	330	3333	0	56.9	50.1	120	1884	0.564	33.6	
Hexachlorobutadiene	2764	89	330	3333	0	82.9	48.1	120	2706	2.13	35.9	
Hexachlorocyclopentadiene	BRL	630	660	0	0	0	1	150	0	0	50	
Hexachloroethane	BRL	87	330	0	0	0	50	150	0	0	30	
Indeno(1,2,3-cd)pyrene	2221	140	330	3333	2862	-19.2	50	150	2417	8.47	30	S
Isophorone	BRL	110	330	0	0	0	46.6	180.2	0	0	63	
N-Nitrosodi-n-propylamine	BRL	73	330	0	0	0	50.2	120	0	0	34.9	
N-Nitrosodiphenylamine	2478	47	330	3333	0	74.4	36.2	120	2470	0.350	31.3	
Naphthalene	1931	53	330	3333	0	57.9	44.7	120	1880	2.68	20.4	
Nitrobenzene	1785	64	330	3333	0	53.6	42.3	120	1713	4.12	20.8	
Pentachlorophenol	BRL	200	1700	0	0	0	38.4	120	0	0	35.9	
Phenanthrene	4021	63	330	3333	4294	-8.17	50	150	3217	22.2	30	S
Phenol	BRL	60	330	0	0	0	41.5	120	0	0	37.4	
Surr: 2,4,6-Tribromophenol	2315	0	0	3333	0	69.4	40.2	120	2377	0	0	
Surr: 2-Fluorobiphenyl	953.3	0	0	1667	0	57.2	45.6	120	971.7	0	0	
Surr: 2-Fluorophenol	1809	0	0	3333	0	54.3	35.2	120	1823	0	0	
Surr: 4-Terphenyl-d14	1011	0	0	1667	0	60.7	51	121	983.0	0	0	
Surr: Nitrobenzene-d5	1033	0	0	1667	0	62.0	37.8	120	1008	0	0	
Surr: Phenol-d5	1932	0	0	3333	0	58.0	39.9	120	1943	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327269

Sample ID: **2112G62-006EMSD** Client ID: **LLB-SS-L02-121121** Units: **ug/Kg-dry** Prep Date: **12/14/2021** Run No: **472641**
SampleType: **MSD1** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327269** Seq No: **10890997**
Analysis Date / Time: **Dec 15 2021 5:11PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benz(a)anthracene	8119	820	4400	4405	5101	68.5	46.8	123	7788	4.15	29	
Benzo(a)pyrene	7163	1300	4400	4405	5824	30.4	37.5	122	7026	1.92	28.7	S
Benzo(b)fluoranthene	11220	1400	4400	4405	11790	-13.1	34.7	124	10460	6.99	26.8	S
Chrysene	10570	900	4400	4405	7982	58.7	50.8	120	10600	0.333	36.8	
Fluoranthene	15130	960	4400	4405	13740	31.5	51	121	15480	2.30	26.7	S
Pyrene	13200	1700	4400	4405	10410	63.5	42.7	120	13550	2.63	35	

Sample ID: **LCS-327269** Client ID: Units: **ug/Kg** Prep Date: **12/14/2021** Run No: **472526**
SampleType: **LCS1** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327269** Seq No: **10883247**
Analysis Date / Time: **Dec 14 2021 1:02PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1´-Biphenyl	BRL	120	330	3333	0	0	50	150	0	0	0	S
2,4,5-Trichlorophenol	2589	71	1700	3333	0	77.7	63.2	120	0	0	0	
2,4,6-Trichlorophenol	2635	70	330	3333	0	79.0	66.2	120	0	0	0	
2,4-Dichlorophenol	2647	74	330	3333	0	79.4	59.7	120	0	0	0	
2,4-Dimethylphenol	2657	80	330	3333	0	79.7	57	120	0	0	0	
2,4-Dinitrophenol	BRL	940	1700	3333	0	0	1	172.9	0	0	0	S
2,4-Dinitrotoluene	3131	220	330	3333	0	93.9	56.9	120	0	0	0	
2,6-Dinitrotoluene	2976	170	330	3333	0	89.3	60.9	138	0	0	0	
2-Chloronaphthalene	BRL	86	330	3333	0	0	50	150	0	0	0	S
2-Chlorophenol	2741	57	330	3333	0	82.2	51	120	0	0	0	
2-Methylnaphthalene	BRL	60	330	3333	0	0	50	150	0	0	0	S
2-Methylphenol	2597	63	330	3333	0	77.9	52.1	120	0	0	0	
2-Nitroaniline	BRL	98	1700	3333	0	0	50	150	0	0	0	S
2-Nitrophenol	BRL	91	330	3333	0	0	45	167	0	0	0	S
3,3´-Dichlorobenzidine	1764	97	670	3333	0	52.9	30.4	120	0	0	0	
3-Nitroaniline	BRL	76	1700	3333	0	0	50	150	0	0	0	S
4,6-Dinitro-2-methylphenol	BRL	830	1700	3333	0	0	50	150	0	0	0	S

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327269

Sample ID: **LCS-327269** Client ID: Units: **ug/Kg** Prep Date: **12/14/2021** Run No: **472526**
SampleType: **LCS1** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **327269** Seq No: **10883247**
Analysis Date / Time: **Dec 14 2021 1:02PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4-Bromophenyl phenyl ether	2852	82	330	3333	0	85.6	56.6	143	0	0	0	
4-Chloro-3-methylphenol	2712	70	330	3333	0	81.4	54	120	0	0	0	
4-Chloroaniline	BRL	96	330	3333	0	0	50	150	0	0	0	S
4-Chlorophenyl phenyl ether	BRL	72	330	3333	0	0	38.4	150	0	0	0	S
4-Methylphenol	3055	83	330	3333	0	91.7	61.2	122	0	0	0	
4-Nitroaniline	BRL	100	1700	3333	0	0	50	150	0	0	0	S
4-Nitrophenol	BRL	180	1700	3333	0	0	40.7	120	0	0	0	S
Acenaphthene	4842	48	330	5000	0	96.8	57.9	120	0	0	0	
Acenaphthylene	3181	250	330	3333	0	95.4	59.7	136	0	0	0	
Acetophenone	BRL	160	330	3333	0	0	50	150	0	0	0	S
Anthracene	3115	130	330	3333	0	93.5	64.4	123	0	0	0	
Atrazine	BRL	200	330	3333	0	0	50	150	0	0	0	S
Benz(a)anthracene	3176	62	330	3333	0	95.3	70	129	0	0	0	
Benzaldehyde	BRL	230	330	3333	0	0	10	150	0	0	0	S
Benzo(a)pyrene	1530	100	330	1667	0	91.8	69.1	131	0	0	0	
Benzo(b)fluoranthene	2825	110	330	3333	0	84.8	55.7	139	0	0	0	
Benzo(g,h,i)perylene	BRL	310	330	3333	0	0	46	150	0	0	0	S
Benzo(k)fluoranthene	BRL	130	330	3333	0	0	50	150	0	0	0	S
Bis(2-chloroethoxy)methane	2918	70	330	3333	0	87.5	63.7	120	0	0	0	
Bis(2-chloroethyl)ether	2572	78	330	3333	0	77.2	54	120	0	0	0	
Bis(2-chloroisopropyl)ether	1766	98	330	3333	0	53.0	45.9	120	0	0	0	
Bis(2-ethylhexyl)phthalate	3025	72	330	3333	0	90.8	54.2	147	0	0	0	
Butyl benzyl phthalate	BRL	62	330	3333	0	0	1	150	0	0	0	S
Caprolactam	BRL	130	330	3333	0	0	50	150	0	0	0	S
Carbazole	BRL	150	330	3333	0	0	50	150	0	0	0	S
Chrysene	2967	68	330	3333	0	89.0	70	120	0	0	0	
Di-n-butyl phthalate	3002	270	330	3333	0	90.1	60.8	146	0	0	0	
Di-n-octyl phthalate	1560	280	330	1667	0	93.6	57.9	134	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327269

Sample ID: **LCS-327269** Client ID:
SampleType: **LCS1** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E**
Units: **ug/Kg** Prep Date: **12/14/2021** Run No: **472526**
BatchID: **327269** Seq No: **10883247**
Analysis Date / Time: **Dec 14 2021 1:02PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Dibenz(a,h)anthracene	3118	120	330	3333	0	93.5	63.9	137	0	0	0	
Dibenzofuran	BRL	59	330	3333	0	0	50	150	0	0	0	S
Diethyl phthalate	3351	59	330	3333	0	101	70	126	0	0	0	
Dimethyl phthalate	3050	48	330	3333	0	91.5	63.5	138	0	0	0	
Fluoranthene	1501	73	330	1667	0	90.0	70.1	133	0	0	0	
Fluorene	3231	95	330	3333	0	96.9	68.4	124	0	0	0	
Hexachlorobenzene	3107	94	330	3333	0	93.2	63.1	131	0	0	0	
Hexachlorobutadiene	4377	89	330	5000	0	87.5	44.5	122	0	0	0	
Hexachlorocyclopentadiene	BRL	630	660	3333	0	0	1	150	0	0	0	S
Hexachloroethane	BRL	87	330	3333	0	0	50	150	0	0	0	S
Indeno(1,2,3-cd)pyrene	BRL	140	330	3333	0	0	50	150	0	0	0	S
Isophorone	BRL	110	330	3333	0	0	46.6	180.2	0	0	0	S
N-Nitrosodi-n-propylamine	BRL	73	330	3333	0	0	56.5	124	0	0	0	S
N-Nitrosodiphenylamine	4005	47	330	5000	0	80.1	45.2	120	0	0	0	
Naphthalene	3052	53	330	3333	0	91.6	61.3	120	0	0	0	
Nitrobenzene	2725	64	330	3333	0	81.8	57.1	122	0	0	0	
Pentachlorophenol	BRL	200	1700	3333	0	0	41.8	120	0	0	0	S
Phenanthrene	BRL	63	330	3333	0	0	50	150	0	0	0	S
Phenol	BRL	60	330	3333	0	0	50.1	120	0	0	0	S
Pyrene	3209	130	330	3333	0	96.3	59.4	120	0	0	0	
Surr: 2,4,6-Tribromophenol	2662	0	0	3333	0	79.9	40.2	120	0	0	0	
Surr: 2-Fluorobiphenyl	1620	0	0	1667	0	97.2	45.6	120	0	0	0	
Surr: 2-Fluorophenol	2469	0	0	3333	0	74.1	35.2	120	0	0	0	
Surr: 4-Terphenyl-d14	1555	0	0	1667	0	93.3	51	121	0	0	0	
Surr: Nitrobenzene-d5	1374	0	0	1667	0	82.5	37.8	120	0	0	0	
Surr: Phenol-d5	2637	0	0	3333	0	79.1	39.9	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327278

Sample ID: **MB-327278**	Client ID:					Units: **mg/Kg**	Prep Date: **12/14/2021**		Run No: **472544**		
SampleType: **MBLK**	TestCode: **Total Mercury by SW7473**					BatchID: **327278**			Seq No: **10883935**		
						Analysis Date / Time: **Dec 14 2021 9:51AM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.0384	0.100									

Sample ID: **LCS-327278**	Client ID:					Units: **mg/Kg**	Prep Date: **12/14/2021**		Run No: **472544**		
SampleType: **LCS**	TestCode: **Total Mercury by SW7473**					BatchID: **327278**			Seq No: **10883936**		
						Analysis Date / Time: **Dec 14 2021 9:59AM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	1.041	0.0384	0.100	1.000		104	80	120				

Sample ID: **2112G62-006FMS**	Client ID: **LLB-SS-L02-121121**					Units: **mg/Kg-dry**	Prep Date: **12/14/2021**		Run No: **472544**		
SampleType: **MS**	TestCode: **Total Mercury by SW7473**					BatchID: **327278**			Seq No: **10883973**		
						Analysis Date / Time: **Dec 14 2021 4:17PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	1.345	0.0507	0.132	1.242	0.05749	104	80	120				

Sample ID: **2112G62-006FMSD**	Client ID: **LLB-SS-L02-121121**					Units: **mg/Kg-dry**	Prep Date: **12/14/2021**		Run No: **472544**		
SampleType: **MSD**	TestCode: **Total Mercury by SW7473**					BatchID: **327278**			Seq No: **10883974**		
						Analysis Date / Time: **Dec 14 2021 4:26PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	1.493	0.0507	0.132	1.242	0.05749	116	80	120	1.345	10.4	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327295

Sample ID: **MB-327295** Client ID: Units: **mg/L** Prep Date: **12/14/2021** Run No: **472631**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010D** BatchID: **327295** Seq No: **10886409**
Analysis Date / Time: **Dec 14 2021 6:43PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	0	0.0581	0.200									
Antimony	0	0.0125	0.0200									
Arsenic	0	0.0104	0.0500									
Barium	0	0.0048	0.0200									
Beryllium	0	0.0019	0.0100									
Cadmium	0	0.0016	0.0050									
Calcium	0	0.0513	0.100									
Chromium	0	0.0067	0.0100									
Cobalt	0	0.0019	0.0200									
Copper	0	0.0024	0.0100									
Iron	0	0.0362	0.100									
Lead	0	0.0039	0.0100									
Magnesium	0	0.0295	0.100									
Manganese	0	0.0101	0.0150									
Nickel	0	0.0104	0.0200									
Potassium	0	0.167	0.500									
Selenium	0	0.0089	0.0200									
Silver	0	0.0018	0.0100									
Sodium	0	0.391	1.00									
Thallium	0	0.0086	0.0200									
Vanadium	0	0.0012	0.0100									
Zinc	0	0.0160	0.0200									

Sample ID: **LCS-327295** Client ID: Units: **mg/L** Prep Date: **12/14/2021** Run No: **472631**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010D** BatchID: **327295** Seq No: **10886410**
Analysis Date / Time: **Dec 14 2021 6:46PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	0.9908	0.0581	0.200	1.000		99.1	80	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327295

Sample ID: **LCS-327295** Client ID: Units: **mg/L** Prep Date: **12/14/2021** Run No: **472631**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010D** BatchID: **327295** Seq No: **10886410**
Analysis Date / Time: **Dec 14 2021 6:46PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1004	0.0125	0.0200	0.1000		100	80	120				
Arsenic	0.1031	0.0104	0.0500	0.1000		103	80	120				
Barium	0.1057	0.0048	0.0200	0.1000		106	80	120				
Beryllium	0.1040	0.0019	0.0100	0.1000		104	80	120				
Cadmium	0.1023	0.0016	0.0050	0.1000		102	80	120				
Calcium	1.047	0.0513	0.100	1.000		105	80	120				
Chromium	0.1056	0.0067	0.0100	0.1000		106	80	120				
Cobalt	0.1065	0.0019	0.0200	0.1000		106	80	120				
Copper	0.1041	0.0024	0.0100	0.1000		104	80	120				
Iron	1.095	0.0362	0.100	1.000		110	80	120				
Lead	0.1040	0.0039	0.0100	0.1000		104	80	120				
Magnesium	1.033	0.0295	0.100	1.000		103	80	120				
Manganese	0.1055	0.0101	0.0150	0.1000		105	80	120				
Nickel	0.1080	0.0104	0.0200	0.1000		108	80	120				
Potassium	1.026	0.167	0.500	1.000		103	80	120				
Selenium	0.09728	0.0089	0.0200	0.1000		97.3	80	120				
Silver	0.01054	0.0018	0.0100	0.0100		105	80	120				
Sodium	1.037	0.391	1.00	1.000		104	80	120				
Thallium	0.1014	0.0086	0.0200	0.1000		101	80	120				
Vanadium	0.1001	0.0012	0.0100	0.1000		100	80	120				
Zinc	0.1039	0.0160	0.0200	0.1000		104	80	120				

Sample ID: **2112G62-003BMS** Client ID: **LLB-SW-L02-121121** Units: **mg/L** Prep Date: **12/14/2021** Run No: **472631**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010D** BatchID: **327295** Seq No: **10886414**
Analysis Date / Time: **Dec 14 2021 6:52PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	2.323	0.0581	0.200	1.000	1.321	100	75	125				
Antimony	0.3617	0.0125	0.0200	0.1000	0.2645	97.2	75	125				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327295

Sample ID: **2112G62-003BMS** Client ID: **LLB-SW-L02-121121** Units: **mg/L** Prep Date: **12/14/2021** Run No: **472631**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010D** BatchID: **327295** Seq No: **10886414**
Analysis Date / Time: **Dec 14 2021 6:52PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1064	0.0104	0.0500	0.1000		106	75	125				
Barium	0.1352	0.0048	0.0200	0.1000	0.03127	104	75	125				
Beryllium	0.1038	0.0019	0.0100	0.1000		104	75	125				
Cadmium	0.1006	0.0016	0.0050	0.1000		101	75	125				
Calcium	7.105	0.0513	0.100	1.000	6.117	98.8	75	125				
Chromium	0.1059	0.0067	0.0100	0.1000		106	75	125				
Cobalt	0.2544	0.0019	0.0200	0.1000	0.1517	103	75	125				
Copper	0.1551	0.0024	0.0100	0.1000	0.05011	105	75	125				
Iron	2.649	0.0362	0.100	1.000	1.578	107	75	125				
Lead	0.1076	0.0039	0.0100	0.1000		108	75	125				
Magnesium	3.292	0.0295	0.100	1.000	2.288	100	75	125				
Manganese	0.3620	0.0101	0.0150	0.1000	0.2613	101	75	125				
Nickel	0.2197	0.0104	0.0200	0.1000	0.1193	100	75	125				
Potassium	3.525	0.167	0.500	1.000	2.566	95.9	75	125				
Selenium	0.09387	0.0089	0.0200	0.1000		93.9	75	125				
Silver	0.01060	0.0018	0.0100	0.0100		106	75	125				
Sodium	7.611	0.391	1.00	1.000	6.617	99.3	75	125				
Thallium	0.09106	0.0086	0.0200	0.1000		91.1	75	125				
Vanadium	0.1039	0.0012	0.0100	0.1000	0.004500	99.4	75	125				
Zinc	0.3032	0.0160	0.0200	0.1000	0.2003	103	75	125				

Sample ID: **2112G62-003BMSD** Client ID: **LLB-SW-L02-121121** Units: **mg/L** Prep Date: **12/14/2021** Run No: **472631**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010D** BatchID: **327295** Seq No: **10886417**
Analysis Date / Time: **Dec 14 2021 6:55PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	2.332	0.0581	0.200	1.000	1.321	101	75	125	2.323	0.378	20	
Antimony	0.3578	0.0125	0.0200	0.1000	0.2645	93.4	75	125	0.3617	1.08	20	
Arsenic	0.09871	0.0104	0.0500	0.1000		98.7	75	125	0.1064	7.51	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327295

Sample ID: **2112G62-003BMSD** Client ID: **LLB-SW-L02-121121** Units: **mg/L** Prep Date: **12/14/2021** Run No: **472631**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010D** BatchID: **327295** Seq No: **10886417**
Analysis Date / Time: **Dec 14 2021 6:55PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Barium	0.1360	0.0048	0.0200	0.1000	0.03127	105	75	125	0.1352	0.546	20	
Beryllium	0.1046	0.0019	0.0100	0.1000		105	75	125	0.1038	0.845	20	
Cadmium	0.1014	0.0016	0.0050	0.1000		101	75	125	0.1006	0.802	20	
Calcium	7.095	0.0513	0.100	1.000	6.117	97.8	75	125	7.105	0.138	20	
Chromium	0.1063	0.0067	0.0100	0.1000		106	75	125	0.1059	0.377	20	
Cobalt	0.2538	0.0019	0.0200	0.1000	0.1517	102	75	125	0.2544	0.248	20	
Copper	0.1556	0.0024	0.0100	0.1000	0.05011	106	75	125	0.1551	0.341	20	
Iron	2.672	0.0362	0.100	1.000	1.578	109	75	125	2.649	0.869	20	
Lead	0.1070	0.0039	0.0100	0.1000		107	75	125	0.1076	0.541	20	
Magnesium	3.296	0.0295	0.100	1.000	2.288	101	75	125	3.292	0.099	20	
Manganese	0.3623	0.0101	0.0150	0.1000	0.2613	101	75	125	0.3620	0.083	20	
Nickel	0.2211	0.0104	0.0200	0.1000	0.1193	102	75	125	0.2197	0.640	20	
Potassium	3.548	0.167	0.500	1.000	2.566	98.2	75	125	3.525	0.645	20	
Selenium	0.09402	0.0089	0.0200	0.1000		94.0	75	125	0.09387	0.160	20	
Silver	0.01043	0.0018	0.0100	0.0100		104	75	125	0.01060	1.62	20	
Sodium	7.620	0.391	1.00	1.000	6.617	100	75	125	7.611	0.120	20	
Thallium	0.1001	0.0086	0.0200	0.1000		100	75	125	0.09106	9.46	20	
Vanadium	0.1048	0.0012	0.0100	0.1000	0.004500	100	75	125	0.1039	0.843	20	
Zinc	0.3042	0.0160	0.0200	0.1000	0.2003	104	75	125	0.3032	0.336	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327304

Sample ID: **MB-327304** Client ID:
SampleType: **MBLK** TestCode: **METALS, TOTAL** **SW6010D**
Units: **mg/Kg** Prep Date: **12/14/2021** Run No: **472521**
BatchID: **327304** Seq No: **10886365**
Analysis Date / Time: **Dec 14 2021 4:50PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	BRL	7.75	50.0									
Antimony	BRL	0.382	2.50									
Arsenic	0.5380	0.492	2.50									J
Barium	BRL	0.171	5.00									
Beryllium	BRL	0.167	2.50									
Cadmium	BRL	0.104	2.50									
Calcium	BRL	5.19	50.0									
Chromium	BRL	0.174	2.50									
Cobalt	BRL	0.131	2.50									
Copper	BRL	0.156	2.50									
Iron	BRL	8.42	50.0									
Lead	BRL	0.449	5.00									
Magnesium	BRL	4.83	50.0									
Manganese	BRL	0.159	5.00									
Nickel	BRL	0.233	5.00									
Potassium	BRL	10.3	100									
Selenium	BRL	0.405	3.50									
Silver	BRL	0.0180	2.50									
Sodium	BRL	19.0	100									
Thallium	BRL	0.449	1.00									
Vanadium	BRL	0.156	5.00									
Zinc	BRL	0.775	5.00									

Sample ID: **LCS-327304** Client ID:
SampleType: **LCS** TestCode: **METALS, TOTAL** **SW6010D**
Units: **mg/Kg** Prep Date: **12/14/2021** Run No: **472521**
BatchID: **327304** Seq No: **10886366**
Analysis Date / Time: **Dec 14 2021 4:53PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	471.3	7.75	50.0	500.0		94.3	80	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327304

Sample ID: **LCS-327304** Client ID: Units: **mg/Kg** Prep Date: **12/14/2021** Run No: **472521**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010D** BatchID: **327304** Seq No: **10886366**
Analysis Date / Time: **Dec 14 2021 4:53PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	47.08	0.382	2.50	50.00		94.2	80	120				
Arsenic	47.53	0.492	2.50	50.00	0.5380	94.0	80	120				
Barium	48.77	0.171	5.00	50.00		97.5	80	120				
Beryllium	48.97	0.167	2.50	50.00		97.9	80	120				
Cadmium	47.60	0.104	2.50	50.00		95.2	80	120				
Calcium	485.5	5.19	50.0	500.0		97.1	80	120				
Chromium	49.10	0.174	2.50	50.00		98.2	80	120				
Cobalt	48.86	0.131	2.50	50.00		97.7	80	120				
Copper	49.88	0.156	2.50	50.00		99.8	80	120				
Iron	496.2	8.42	50.0	500.0		99.2	80	120				
Lead	47.97	0.449	5.00	50.00		95.9	80	120				
Magnesium	477.0	4.83	50.0	500.0		95.4	80	120				
Manganese	48.52	0.159	5.00	50.00		97.0	80	120				
Nickel	48.64	0.233	5.00	50.00		97.3	80	120				
Potassium	473.4	10.3	100	500.0		94.7	80	120				
Selenium	43.07	0.405	3.50	50.00		86.1	80	120				
Silver	4.706	0.0180	2.50	5.000		94.1	80	120				
Sodium	480.7	19.0	100	500.0		96.1	80	120				
Thallium	47.15	0.449	1.00	50.00		94.3	80	120				
Vanadium	48.30	0.156	5.00	50.00		96.6	80	120				
Zinc	47.81	0.775	5.00	50.00		95.6	80	120				

Sample ID: **2112G62-006EMS** Client ID: **LLB-SS-L02-121121** Units: **mg/Kg-dry** Prep Date: **12/14/2021** Run No: **472521**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010D** BatchID: **327304** Seq No: **10886370**
Analysis Date / Time: **Dec 14 2021 5:06PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	5152	7.10	45.8	458.0	3855	283	75	125				S
Antimony	40.72	0.350	2.29	45.80	2.537	83.4	75	125				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327304

Sample ID: **2112G62-006EMS** Client ID: **LLB-SS-L02-121121** Units: **mg/Kg-dry** Prep Date: **12/14/2021** Run No: **472521**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010D** BatchID: **327304** Seq No: **10886370**
Analysis Date / Time: **Dec 14 2021 5:06PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	40.68	0.451	2.29	45.80		88.8	75	125				
Barium	76.92	0.157	4.58	45.80	40.28	80.0	75	125				
Beryllium	42.45	0.153	2.29	45.80		92.7	75	125				
Cadmium	41.29	0.0953	2.29	45.80	0.1140	89.9	75	125				
Calcium	1866	4.75	45.8	458.0	991.5	191	75	125				S
Chromium	47.87	0.159	2.29	45.80	8.786	85.3	75	125				
Cobalt	70.30	0.120	2.29	45.80	28.12	92.1	75	125				
Copper	76.32	0.143	2.29	45.80	16.30	131	75	125				S
Lead	44.32	0.411	4.58	45.80	4.402	87.2	75	125				
Magnesium	1733	4.42	45.8	458.0	1180	121	75	125				
Manganese	183.3	0.146	4.58	45.80	154.8	62.3	75	125				S
Nickel	87.45	0.213	4.58	45.80	44.44	93.9	75	125				
Potassium	1732	9.44	91.6	458.0	1049	149	75	125				S
Selenium	39.59	0.371	3.21	45.80	0.9142	84.4	75	125				
Silver	4.097	0.0165	2.29	4.580		89.4	75	125				
Sodium	550.4	17.4	91.6	458.0	129.7	91.9	75	125				
Thallium	41.29	0.411	0.916	45.80		90.1	75	125				
Vanadium	55.82	0.143	4.58	45.80	12.11	95.4	75	125				
Zinc	297.6	0.710	4.58	45.80	240.6	124	75	125				

Sample ID: **2112G62-006EMS** Client ID: **LLB-SS-L02-121121** Units: **mg/Kg-dry** Prep Date: **12/14/2021** Run No: **472521**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010D** BatchID: **327304** Seq No: **10886382**
Analysis Date / Time: **Dec 14 2021 6:08PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	9523	154	916	458.0	8316	263	75	125				S

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327304

Sample ID: **2112G62-006EMSD** Client ID: **LLB-SS-L02-121121** Units: **mg/Kg-dry** Prep Date: **12/14/2021** Run No: **472521**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010D** BatchID: **327304** Seq No: **10886371**
Analysis Date / Time: **Dec 14 2021 5:09PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	5075	7.10	45.8	458.3	3855	266	75	125	5152	1.49	20	S
Antimony	45.47	0.350	2.29	45.83	2.537	93.7	75	125	40.72	11.0	20	
Arsenic	43.45	0.451	2.29	45.83		94.8	75	125	40.68	6.59	20	
Barium	79.43	0.157	4.58	45.83	40.28	85.4	75	125	76.92	3.21	20	
Beryllium	46.41	0.153	2.29	45.83		101	75	125	42.45	8.91	20	
Cadmium	45.74	0.0953	2.29	45.83	0.1140	99.6	75	125	41.29	10.2	20	
Calcium	1175	4.76	45.8	458.3	991.5	40.0	75	125	1866	45.4	20	SR
Chromium	56.52	0.159	2.29	45.83	8.786	104	75	125	47.87	16.6	20	
Cobalt	77.31	0.120	2.29	45.83	28.12	107	75	125	70.30	9.50	20	
Copper	67.10	0.143	2.29	45.83	16.30	111	75	125	76.32	12.9	20	
Lead	50.09	0.412	4.58	45.83	4.402	99.7	75	125	44.32	12.2	20	
Magnesium	1724	4.43	45.8	458.3	1180	119	75	125	1733	0.515	20	
Manganese	152.6	0.146	4.58	45.83	154.8	-4.86	75	125	183.3	18.3	20	S
Nickel	99.75	0.214	4.58	45.83	44.44	121	75	125	87.45	13.1	20	
Potassium	1707	9.44	91.7	458.3	1049	144	75	125	1732	1.45	20	S
Selenium	41.20	0.371	3.21	45.83	0.9142	87.9	75	125	39.59	3.97	20	
Silver	4.506	0.0165	2.29	4.583		98.3	75	125	4.097	9.50	20	
Sodium	586.9	17.4	91.7	458.3	129.7	99.8	75	125	550.4	6.41	20	
Thallium	45.27	0.412	0.917	45.83		98.8	75	125	41.29	9.19	20	
Vanadium	61.12	0.143	4.58	45.83	12.11	107	75	125	55.82	9.06	20	
Zinc	290.9	0.710	4.58	45.83	240.6	110	75	125	297.6	2.28	20	

Sample ID: **2112G62-006EMSD** Client ID: **LLB-SS-L02-121121** Units: **mg/Kg-dry** Prep Date: **12/14/2021** Run No: **472521**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010D** BatchID: **327304** Seq No: **10886383**
Analysis Date / Time: **Dec 14 2021 6:11PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	8885	154	917	458.3	8316	124	75	125	9523	6.94	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327304

Sample ID: **2112G62-006EPDS** Client ID: **LLB-SS-L02-121121** Units: **mg/Kg-dry** Prep Date: **12/14/2021** Run No: **472521**
SampleType: **PDS** TestCode: **METALS, TOTAL SW6010D** BatchID: **327304** Seq No: **10886372**
Analysis Date / Time: **Dec 14 2021 5:36PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	8395	14.2	91.6	4580	3855	99.1	80	120	0	0	0	
Antimony	442.8	0.700	4.58	458.0	2.537	96.1	80	120	0	0	0	
Arsenic	443.1	0.901	4.58	458.0	0	96.7	80	120	0	0	0	
Barium	469.5	0.313	9.16	458.0	40.28	93.7	80	120	0	0	0	
Beryllium	430.2	0.306	4.58	458.0	0	93.9	80	120	0	0	0	
Cadmium	435.7	0.191	4.58	458.0	0.1140	95.1	80	120	0	0	0	
Calcium	5281	9.51	91.6	4580	991.5	93.6	80	120	0	0	0	
Chromium	445.8	0.319	4.58	458.0	8.786	95.4	80	120	0	0	0	
Cobalt	461.0	0.240	4.58	458.0	28.12	94.5	80	120	0	0	0	
Copper	485.8	0.286	4.58	458.0	16.30	103	80	120	0	0	0	
Lead	429.4	0.823	9.16	458.0	4.402	92.8	80	120	0	0	0	
Magnesium	5531	8.85	91.6	4580	1180	95.0	80	120	0	0	0	
Manganese	575.0	0.291	9.16	458.0	154.8	91.7	80	120	0	0	0	
Nickel	475.9	0.427	9.16	458.0	44.44	94.2	80	120	0	0	0	
Potassium	5533	18.9	183	4580	1049	97.9	80	120	0	0	0	
Selenium	422.5	0.742	6.41	458.0	0.9142	92.0	80	120	0	0	0	
Silver	42.58	0.0330	4.58	45.80	0	93.0	80	120	0	0	0	
Sodium	4583	34.8	183	4580	129.7	97.2	80	120	0	0	0	
Thallium	448.6	0.823	1.83	458.0	0	97.9	80	120	0	0	0	
Vanadium	450.3	0.286	9.16	458.0	12.11	95.7	80	120	0	0	0	
Zinc	659.8	1.42	9.16	458.0	240.6	91.5	80	120	0	0	0	

Sample ID: **2112G62-006EPDS** Client ID: **LLB-SS-L02-121121** Units: **mg/Kg-dry** Prep Date: **12/14/2021** Run No: **472521**
SampleType: **PDS** TestCode: **METALS, TOTAL SW6010D** BatchID: **327304** Seq No: **10886384**
Analysis Date / Time: **Dec 14 2021 6:14PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	95920	309	1830	91600	8316	95.6	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327327

Sample ID: **MB-327327**	Client ID:					Units: **mg/L**	Prep Date: **12/15/2021**		Run No: **472659**	
SampleType: **MBLK**	TestCode: **Mercury, Total** **SW7470A**					BatchID: **327327**			Seq No: **10887761**	
						Analysis Date / Time: **Dec 15 2021 2:01PM**				
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0	0.00014	0.00020									

Sample ID: **MB-327327**	Client ID:					Units: **mg/L**	Prep Date: **12/15/2021**		Run No: **472661**	
SampleType: **MBLK**	TestCode: **Total Mercury** **E245.1**					BatchID: **327327**			Seq No: **10888078**	
						Analysis Date / Time: **Dec 15 2021 2:01PM**				
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0	0.00014	0.00020									

Sample ID: **LCS-327327**	Client ID:					Units: **mg/L**	Prep Date: **12/15/2021**		Run No: **472659**	
SampleType: **LCS**	TestCode: **Mercury, Total** **SW7470A**					BatchID: **327327**			Seq No: **10887762**	
						Analysis Date / Time: **Dec 15 2021 2:05PM**				
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003875	0.00014	0.00020	0.0040		96.9	80	120				

Sample ID: **LCS-327327**	Client ID:					Units: **mg/L**	Prep Date: **12/15/2021**		Run No: **472661**	
SampleType: **LCS**	TestCode: **Total Mercury** **E245.1**					BatchID: **327327**			Seq No: **10888079**	
						Analysis Date / Time: **Dec 15 2021 2:05PM**				
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003875	0.00014	0.00020	0.0040		96.9	85	115				

Sample ID: **2112G62-003BMS**	Client ID: **LLB-SW-L02-121121**					Units: **mg/L**	Prep Date: **12/15/2021**		Run No: **472659**	
SampleType: **MS**	TestCode: **Mercury, Total** **SW7470A**					BatchID: **327327**			Seq No: **10887766**	
						Analysis Date / Time: **Dec 15 2021 2:13PM**				
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003005	0.00014	0.00020	0.0040		75.1	75	125				

Sample ID: **2112G62-003BMS**	Client ID: **LLB-SW-L02-121121**					Units: **mg/L**	Prep Date: **12/15/2021**		Run No: **472661**	
SampleType: **MS**	TestCode: **Total Mercury** **E245.1**					BatchID: **327327**			Seq No: **10888081**	
						Analysis Date / Time: **Dec 15 2021 2:13PM**				
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327327

Sample ID: **2112G62-003BMS**	Client ID: **LLB-SW-L02-121121**	Units: **mg/L**	Prep Date: **12/15/2021**	Run No: **472661**
SampleType: **MS**	TestCode: **Total Mercury E245.1**	BatchID: **327327**		Seq No: **10888081**
		Analysis Date / Time: **Dec 15 2021 2:13PM**		

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003005	0.00014	0.00020	0.0040		75.1	70	130				

Sample ID: **2112G62-012BMS**	Client ID: **LLB-FB-121321**	Units: **mg/L**	Prep Date: **12/15/2021**	Run No: **472659**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**	BatchID: **327327**		Seq No: **10887772**
		Analysis Date / Time: **Dec 15 2021 2:25PM**		

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004023	0.00014	0.00020	0.0040		101	75	125				

Sample ID: **2112G62-012BMS**	Client ID: **LLB-FB-121321**	Units: **mg/L**	Prep Date: **12/15/2021**	Run No: **472661**
SampleType: **MS**	TestCode: **Total Mercury E245.1**	BatchID: **327327**		Seq No: **10888086**
		Analysis Date / Time: **Dec 15 2021 2:25PM**		

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004023	0.00014	0.00020	0.0040		101	70	130				

Sample ID: **2112G62-003BMSD**	Client ID: **LLB-SW-L02-121121**	Units: **mg/L**	Prep Date: **12/15/2021**	Run No: **472659**
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**	BatchID: **327327**		Seq No: **10887768**
		Analysis Date / Time: **Dec 15 2021 2:17PM**		

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.002888	0.00014	0.00020	0.0040		72.2	75	125	0.003005	3.97	20	S

Sample ID: **2112G62-003BMSD**	Client ID: **LLB-SW-L02-121121**	Units: **mg/L**	Prep Date: **12/15/2021**	Run No: **472661**
SampleType: **MSD**	TestCode: **Total Mercury E245.1**	BatchID: **327327**		Seq No: **10888082**
		Analysis Date / Time: **Dec 15 2021 2:17PM**		

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.002888	0.00014	0.00020	0.0040		72.2	70	130	0.003005	3.97	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327330

Sample ID: **MB-327330** Client ID:
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260D**
Units: **ug/Kg** Prep Date: **12/14/2021** Run No: **472530**
BatchID: **327330** Seq No: **10883361**
Analysis Date / Time: **Dec 14 2021 10:32AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	3.6	5.0									
1,1,2,2-Tetrachloroethane	BRL	1.8	5.0									
1,1,2-Trichloroethane	BRL	1.8	5.0									
1,1-Dichloroethane	BRL	2.2	5.0									
1,1-Dichloroethene	BRL	2.4	5.0									
1,2,4-Trichlorobenzene	BRL	1.7	5.0									
1,2-Dibromo-3-chloropropane	BRL	3.0	5.0									
1,2-Dibromoethane	BRL	1.4	5.0									
1,2-Dichlorobenzene	BRL	1.9	5.0									
1,2-Dichloroethane	BRL	2.2	5.0									
1,2-Dichloropropane	BRL	2.0	5.0									
1,3-Dichlorobenzene	BRL	1.6	5.0									
1,4-Dichlorobenzene	BRL	1.6	5.0									
2-Butanone	BRL	4.8	50									
2-Hexanone	BRL	3.7	10									
4-Methyl-2-pentanone	BRL	2.8	10									
Acetone	BRL	18	100									
Benzene	BRL	2.1	5.0									
Bromodichloromethane	BRL	2.3	5.0									
Bromoform	BRL	2.0	5.0									
Bromomethane	BRL	4.0	5.0									
Carbon disulfide	BRL	4.6	10									
Carbon tetrachloride	BRL	2.4	5.0									
Chlorobenzene	BRL	1.8	5.0									
Chloroethane	BRL	3.1	10									
Chloroform	BRL	3.2	5.0									
Chloromethane	BRL	2.7	10									
cis-1,2-Dichloroethene	BRL	2.7	5.0									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327330

Sample ID: **MB-327330** Client ID:
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260D**
Units: **ug/Kg** Prep Date: **12/14/2021** Run No: **472530**
BatchID: **327330** Seq No: **10883361**
Analysis Date / Time: **Dec 14 2021 10:32AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,3-Dichloropropene	BRL	2.2	5.0									
Cyclohexane	BRL	3.4	5.0									
Dibromochloromethane	BRL	1.8	5.0									
Dichlorodifluoromethane	BRL	2.2	10									
Ethylbenzene	BRL	2.0	5.0									
Freon-113	BRL	1.9	10									
Isopropylbenzene	BRL	2.2	5.0									
m,p-Xylene	BRL	4.0	5.0									
Methyl acetate	BRL	3.2	5.0									
Methyl tert-butyl ether	BRL	2.2	5.0									
Methylcyclohexane	BRL	2.0	5.0									
Methylene chloride	BRL	3.2	20									
o-Xylene	BRL	2.0	5.0									
Styrene	BRL	1.9	5.0									
Tetrachloroethene	BRL	2.3	5.0									
Toluene	BRL	2.1	5.0									
trans-1,2-Dichloroethene	BRL	2.9	5.0									
trans-1,3-Dichloropropene	BRL	2.4	5.0									
Trichloroethene	BRL	2.2	5.0									
Trichlorofluoromethane	BRL	2.0	5.0									
Vinyl chloride	BRL	2.5	10									
Surr: 4-Bromofluorobenzene	44.05	0	0	50.00		88.1	65	124				
Surr: Dibromofluoromethane	50.90	0	0	50.00		102	74.8	123				
Surr: Toluene-d8	49.61	0	0	50.00		99.2	69.2	128				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327330

Sample ID: **LCS-327330** Client ID: Units: **ug/Kg** Prep Date: **12/14/2021** Run No: **472530**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327330** Seq No: **10883372**
Analysis Date / Time: **Dec 14 2021 9:26AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	53.98	3.6	5.0	0		0	67.6	135				
1,1,2,2-Tetrachloroethane	46.16	1.8	5.0	0		0	68.3	124				
1,1,2-Trichloroethane	51.90	1.8	5.0	0		0	70	130				
1,1-Dichloroethane	54.69	2.2	5.0	0		0	71.3	129				
1,1-Dichloroethene	59.71	2.4	5.0	50.00		119	64	137				
1,2,4-Trichlorobenzene	51.41	1.7	5.0	0		0	67.5	133				
1,2-Dibromo-3-chloropropane	39.40	3.0	5.0	0		0	67	128				
1,2-Dibromoethane	49.44	1.4	5.0	0		0	70	130				
1,2-Dichlorobenzene	52.40	1.9	5.0	0		0	74.7	123				
1,2-Dichloroethane	52.12	2.2	5.0	0		0	73.4	130				
1,2-Dichloropropane	53.97	2.0	5.0	0		0	70	130				
1,3-Dichlorobenzene	51.75	1.6	5.0	0		0	70	130				
1,4-Dichlorobenzene	53.17	1.6	5.0	0		0	70	130				
2-Butanone	98.31	4.8	50	0		0	0	0				
2-Hexanone	99.11	3.7	10	0		0	0	0				
4-Methyl-2-pentanone	92.45	2.8	10	0		0	0	0				
Acetone	115.8	18	100	0		0	0	0				
Benzene	56.61	2.1	5.0	50.00		113	70	130				
Bromodichloromethane	53.11	2.3	5.0	0		0	70	130				
Bromoform	52.42	2.0	5.0	0		0	68.4	132				
Bromomethane	54.97	4.0	5.0	0		0	0	0				
Carbon disulfide	125.9	4.6	10	0		0	0	0				
Carbon tetrachloride	53.17	2.4	5.0	0		0	70.9	133				
Chlorobenzene	53.88	1.8	5.0	50.00		108	70	130				
Chloroethane	45.34	3.1	10	0		0	0	0				
Chloroform	53.77	3.2	5.0	0		0	71.6	128				
Chloromethane	60.88	2.7	10	0		0	0	0				
cis-1,2-Dichloroethene	57.37	2.7	5.0	0		0	73.9	128				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327330

Sample ID: **LCS-327330** Client ID: Units: **ug/Kg** Prep Date: **12/14/2021** Run No: **472530**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327330** Seq No: **10883372**
Analysis Date / Time: **Dec 14 2021 9:26AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,3-Dichloropropene	56.90	2.2	5.0	0		0	70	130				
Cyclohexane	56.70	3.4	5.0	0		0	0	0				
Dibromochloromethane	51.46	1.8	5.0	0		0	73.4	127				
Dichlorodifluoromethane	78.27	2.2	10	0		0	0	0				
Ethylbenzene	55.05	2.0	5.0	0		0	70	130				
Freon-113	58.96	1.9	10	0		0	0	0				
Isopropylbenzene	51.80	2.2	5.0	0		0	70.6	131				
m,p-Xylene	113.8	4.0	5.0	0		0	70	130				
Methyl acetate	49.20	3.2	5.0	0		0	0	0				
Methyl tert-butyl ether	61.23	2.2	5.0	0		0	68.8	123				
Methylcyclohexane	55.34	2.0	5.0	0		0	0	0				
Methylene chloride	56.83	3.2	20	0		0	68.5	126				
o-Xylene	48.79	2.0	5.0	0		0	70	130				
Styrene	50.11	1.9	5.0	0		0	70	130				
Tetrachloroethene	49.89	2.3	5.0	0		0	73.6	128				
Toluene	57.06	2.1	5.0	50.00		114	70	130				
trans-1,2-Dichloroethene	58.94	2.9	5.0	0		0	70.3	132				
trans-1,3-Dichloropropene	54.32	2.4	5.0	0		0	74.4	128				
Trichloroethene	53.85	2.2	5.0	50.00		108	75.4	129				
Trichlorofluoromethane	53.79	2.0	5.0	0		0	0	0				
Vinyl chloride	58.18	2.5	10	0		0	68.7	134				
Surr: 4-Bromofluorobenzene	53.25	0	0	50.00		106	65	124				
Surr: Dibromofluoromethane	49.55	0	0	50.00		99.1	74.8	123				
Surr: Toluene-d8	49.78	0	0	50.00		99.6	69.2	128				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327330

Sample ID: **2112G62-006AMS** Client ID: **LLB-SS-L02-121121** Units: **ug/Kg-dry** Prep Date: **12/14/2021** Run No: **472530**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327330** Seq No: **10884759**
Analysis Date / Time: **Dec 14 2021 7:00PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	80.47	6.6	9.3	0		0	61.3	136				
1,1,2,2-Tetrachloroethane	91.78	3.4	9.3	0		0	60.2	132				
1,1,2-Trichloroethane	82.98	3.4	9.3	0		0	64.1	133				
1,1-Dichloroethane	91.95	4.1	9.3	0		0	60.8	137				
1,1-Dichloroethene	90.01	4.4	9.3	93.07		96.7	60	138				
1,2,4-Trichlorobenzene	36.43	3.2	9.3	0		0	53.8	138				
1,2-Dibromo-3-chloropropane	65.87	5.5	9.3	0		0	51	135				
1,2-Dibromoethane	85.73	2.7	9.3	0		0	60.1	136				
1,2-Dichlorobenzene	67.25	3.5	9.3	0		0	63.9	130				
1,2-Dichloroethane	88.15	4.1	9.3	0		0	61.9	139				
1,2-Dichloropropane	81.51	3.6	9.3	0		0	64.1	136				
1,3-Dichlorobenzene	69.07	3.0	9.3	0		0	60.6	133				
1,4-Dichlorobenzene	71.40	2.9	9.3	0		0	63.4	130				
2-Butanone	180.0	9.0	93	0		0	0	0				
2-Hexanone	185.4	7.0	19	0		0	0	0				
4-Methyl-2-pentanone	171.1	5.3	19	0		0	0	0				
Acetone	187.1	33	190	0		0	0	0				
Benzene	87.33	4.0	9.3	93.07		93.8	63.5	137				
Bromodichloromethane	83.76	4.2	9.3	0		0	62.7	134				
Bromoform	78.03	3.6	9.3	0		0	56.1	132				
Bromomethane	91.80	7.5	9.3	0		0	0	0				
Carbon disulfide	183.3	8.5	19	0		0	0	0				
Carbon tetrachloride	73.45	4.4	9.3	0		0	62.3	139				
Chlorobenzene	75.46	3.3	9.3	93.07		81.1	64.7	133				
Chloroethane	71.38	5.8	19	0		0	0	0				
Chloroform	88.41	5.9	9.3	0		0	64.3	132				
Chloromethane	92.03	5.0	19	0		0	0	0				
cis-1,2-Dichloroethene	90.20	5.0	9.3	0		0	63.4	138				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327330

Sample ID: **2112G62-006AMS** Client ID: **LLB-SS-L02-121121** Units: **ug/Kg-dry** Prep Date: **12/14/2021** Run No: **472530**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327330** Seq No: **10884759**
Analysis Date / Time: **Dec 14 2021 7:00PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,3-Dichloropropene	86.24	4.1	9.3	0		0	61.2	134				
Cyclohexane	70.53	6.3	9.3	0		0	0	0				
Dibromochloromethane	81.81	3.4	9.3	0		0	58	137				
Dichlorodifluoromethane	116.8	4.1	19	0		0	0	0				
Ethylbenzene	75.07	3.7	9.3	0		0	61.8	137				
Freon-113	82.38	3.5	19	0		0	0	0				
Isopropylbenzene	81.25	4.1	9.3	0		0	62	137				
m,p-Xylene	144.7	7.4	9.3	0		0	61.6	137				
Methyl acetate	88.60	6.0	9.3	0		0	0	0				
Methyl tert-butyl ether	108.7	4.0	9.3	0		0	63.7	122				
Methylcyclohexane	48.49	3.8	9.3	0		0	0	0				
Methylene chloride	94.76	6.0	37	0		0	61.7	134				
o-Xylene	65.80	3.7	9.3	0		0	63.3	137				
Styrene	87.19	3.5	9.3	0		0	60.2	135				
Tetrachloroethene	64.20	4.3	9.3	0		0	63	137				
Toluene	83.74	3.9	9.3	93.07		90.0	61.8	137				
trans-1,2-Dichloroethene	88.47	5.4	9.3	0		0	62	136				
trans-1,3-Dichloropropene	86.78	4.4	9.3	0		0	61.3	132				
Trichloroethene	75.03	4.1	9.3	93.07		80.6	62.1	138				
Trichlorofluoromethane	122.2	3.8	9.3	0		0	0	0				
Vinyl chloride	85.40	4.7	19	0		0	60.8	137				
Surr: 4-Bromofluorobenzene	88.90	0	0	93.07		95.5	65	124				
Surr: Dibromofluoromethane	95.25	0	0	93.07		102	74.8	123				
Surr: Toluene-d8	93.51	0	0	93.07		100	69.2	128				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327330

Sample ID: **2112G62-006AMSD** Client ID: **LLB-SS-L02-121121** Units: **ug/Kg-dry** Prep Date: **12/14/2021** Run No: **472530**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327330** Seq No: **10884760**
Analysis Date / Time: **Dec 14 2021 7:25PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	65.19	5.4	7.6	76.30		85.4	61.3	136	80.47	21.0	18.1	R
1,1,2,2-Tetrachloroethane	79.46	2.8	7.6	0		0	60.2	132	91.78	14.4	19.5	
1,1,2-Trichloroethane	62.14	2.8	7.6	76.30		81.4	64.1	133	82.98	28.7	20	R
1,1-Dichloroethane	70.92	3.4	7.6	76.30		92.9	60.8	137	91.95	25.8	20	R
1,1-Dichloroethene	71.45	3.6	7.6	76.30		93.6	60	138	90.01	23.0	25.1	
1,2,4-Trichlorobenzene	30.76	2.6	7.6	0		0	53.8	138	36.43	16.9	25.2	
1,2-Dibromo-3-chloropropane	48.15	4.5	7.6	76.30		63.1	51	135	65.87	31.1	24.4	R
1,2-Dibromoethane	70.76	2.2	7.6	0		0	60.1	136	85.73	19.1	20	
1,2-Dichlorobenzene	57.06	2.9	7.6	0		0	63.9	130	67.25	16.4	20	
1,2-Dichloroethane	68.52	3.4	7.6	76.30		89.8	61.9	139	88.15	25.1	20	R
1,2-Dichloropropane	68.95	3.0	7.6	0		0	64.1	136	81.51	16.7	20	
1,3-Dichlorobenzene	58.80	2.5	7.6	0		0	60.6	133	69.07	16.1	20	
1,4-Dichlorobenzene	60.37	2.4	7.6	0		0	63.4	130	71.40	16.7	20	
2-Butanone	152.0	7.4	76	0		0	0	0	180.0	16.8	0	
2-Hexanone	154.6	5.7	15	0		0	0	0	185.4	18.1	0	
4-Methyl-2-pentanone	134.1	4.3	15	0		0	0	0	171.1	24.3	0	
Acetone	155.2	27	150	0		0	0	0	187.1	18.7	0	
Benzene	68.43	3.3	7.6	76.30		89.7	63.5	137	87.33	24.3	20	R
Bromodichloromethane	65.74	3.5	7.6	76.30		86.2	62.7	134	83.76	24.1	20	R
Bromoform	59.76	3.0	7.6	76.30		78.3	56.1	132	78.03	26.5	20	R
Bromomethane	68.40	6.1	7.6	0		0	0	0	91.80	29.2	0	
Carbon disulfide	145.4	7.0	15	0		0	0	0	183.3	23.1	0	
Carbon tetrachloride	61.74	3.6	7.6	0		0	62.3	139	73.45	17.3	20	
Chlorobenzene	65.09	2.7	7.6	76.30		85.3	64.7	133	75.46	14.8	20	
Chloroethane	56.42	4.8	15	0		0	0	0	71.38	23.4	0	
Chloroform	67.70	4.8	7.6	76.30		88.7	64.3	132	88.41	26.5	20	R
Chloromethane	81.11	4.1	15	0		0	0	0	92.03	12.6	0	
cis-1,2-Dichloroethene	71.57	4.1	7.6	76.30		93.8	63.4	138	90.20	23.0	17.6	R

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327330

Sample ID: **2112G62-006AMSD** Client ID: **LLB-SS-L02-121121** Units: **ug/Kg-dry** Prep Date: **12/14/2021** Run No: **472530**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327330** Seq No: **10884760**
Analysis Date / Time: **Dec 14 2021 7:25PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,3-Dichloropropene	66.61	3.4	7.6	76.30		87.3	61.2	134	86.24	25.7	20	R
Cyclohexane	57.71	5.2	7.6	0		0	0	0	70.53	20.0	0	
Dibromochloromethane	70.52	2.8	7.6	0		0	58	137	81.81	14.8	20	
Dichlorodifluoromethane	101.3	3.3	15	0		0	0	0	116.8	14.3	0	
Ethylbenzene	62.87	3.1	7.6	0		0	61.8	137	75.07	17.7	20	
Freon-113	66.44	2.9	15	0		0	0	0	82.38	21.4	0	
Isopropylbenzene	75.65	3.3	7.6	0		0	62	137	81.25	7.14	20.2	
m,p-Xylene	125.3	6.1	7.6	0		0	61.6	137	144.7	14.4	20	
Methyl acetate	67.25	5.0	7.6	0		0	0	0	88.60	27.4	0	
Methyl tert-butyl ether	86.47	3.3	7.6	76.30		113	63.7	122	108.7	22.8	18	R
Methylcyclohexane	39.59	3.1	7.6	0		0	0	0	48.49	20.2	0	
Methylene chloride	77.71	4.9	31	0		0	61.7	134	94.76	19.8	21.1	
o-Xylene	56.37	3.0	7.6	0		0	63.3	137	65.80	15.4	20	
Styrene	56.66	2.9	7.6	76.30		74.3	60.2	135	87.19	42.4	20	R
Tetrachloroethene	56.37	3.5	7.6	0		0	63	137	64.20	13.0	20	
Toluene	65.13	3.2	7.6	76.30		85.4	61.8	137	83.74	25.0	20	R
trans-1,2-Dichloroethene	69.22	4.4	7.6	76.30		90.7	62	136	88.47	24.4	19.1	R
trans-1,3-Dichloropropene	66.54	3.6	7.6	76.30		87.2	61.3	132	86.78	26.4	20	R
Trichloroethene	59.78	3.4	7.6	76.30		78.3	62.1	138	75.03	22.6	20	R
Trichlorofluoromethane	73.08	3.1	7.6	0		0	0	0	122.2	50.3	0	
Vinyl chloride	70.23	3.8	15	0		0	60.8	137	85.40	19.5	26.8	
Surr: 4-Bromofluorobenzene	66.95	0	0	76.30		87.7	65	124	88.90	0	0	
Surr: Dibromofluoromethane	76.39	0	0	76.30		100	74.8	123	95.25	0	0	
Surr: Toluene-d8	73.16	0	0	76.30		95.9	69.2	128	93.51	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327330

Sample ID: **2112G62-006AMS** Client ID: **LLB-SS-L02-121121** Units: **ug/Kg** Prep Date: **12/14/2021** Run No: **472530**
SampleType: **MS1** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327330** Seq No: **10884761**
Analysis Date / Time: **Dec 14 2021 7:00PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	60.89	5.0	7.0	70.42	0	86.5	70	135	0	0	0	
1,1,2,2-Tetrachloroethane	69.45	2.6	7.0	70.42	0	98.6	70.2	126	0	0	0	
1,1,2-Trichloroethane	62.79	2.5	7.0	70.42	0	89.2	72.3	130	0	0	0	
1,1-Dichloroethane	69.58	3.1	7.0	70.42	0	98.8	60.8	140	0	0	0	
1,1-Dichloroethene	68.11	3.4	7.0	70.42	0	96.7	56.6	151	0	0	0	
1,2,4-Trichlorobenzene	27.56	2.4	7.0	70.42	0	39.1	62.2	135	0	0	0	S
1,2-Dibromo-3-chloropropane	49.85	4.2	7.0	70.42	0	70.8	60.6	126	0	0	0	
1,2-Dibromoethane	64.87	2.0	7.0	70.42	0	92.1	74.1	123	0	0	0	
1,2-Dichlorobenzene	50.89	2.7	7.0	70.42	0	72.3	70.4	130	0	0	0	
1,2-Dichloroethane	66.70	3.1	7.0	70.42	0	94.7	70.2	129	0	0	0	
1,2-Dichloropropane	61.68	2.8	7.0	70.42	0	87.6	70.1	129	0	0	0	
1,3-Dichlorobenzene	52.27	2.3	7.0	70.42	0	74.2	70.7	130	0	0	0	
1,4-Dichlorobenzene	54.03	2.2	7.0	70.42	0	76.7	70.6	130	0	0	0	
2-Butanone	136.2	6.8	70	140.8	0	96.7	50	150	0	0	0	
2-Hexanone	140.3	5.3	14	140.8	0	99.6	50	150	0	0	0	
4-Methyl-2-pentanone	129.5	4.0	14	140.8	0	91.9	50	150	0	0	0	
Acetone	141.6	25	140	140.8	0	101	50	150	0	0	0	
Benzene	66.08	3.0	7.0	70.42	0	93.8	70.4	130	0	0	0	
Bromodichloromethane	63.38	3.2	7.0	70.42	0	90.0	70	125	0	0	0	
Bromoform	59.04	2.7	7.0	70.42	0	83.8	65.2	122	0	0	0	
Bromomethane	69.46	5.6	7.0	70.42	0	98.6	14	186	0	0	0	
Carbon disulfide	138.7	6.4	14	140.8	0	98.5	50	150	0	0	0	
Carbon tetrachloride	55.58	3.3	7.0	70.42	0	78.9	64.3	138	0	0	0	
Chlorobenzene	57.10	2.5	7.0	70.42	0	81.1	67.5	132	0	0	0	
Chloroethane	54.01	4.4	14	70.42	0	76.7	38	162	0	0	0	
Chloroform	66.90	4.5	7.0	70.42	0	95.0	73.9	130	0	0	0	
Chloromethane	69.63	3.8	14	70.42	0	98.9	1	204	0	0	0	
cis-1,2-Dichloroethene	68.25	3.8	7.0	70.42	0	96.9	70.9	139	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327330

Sample ID: **2112G62-006AMS** Client ID: **LLB-SS-L02-121121** Units: **ug/Kg** Prep Date: **12/14/2021** Run No: **472530**
SampleType: **MS1** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327330** Seq No: **10884761**
Analysis Date / Time: **Dec 14 2021 7:00PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,3-Dichloropropene	65.25	3.1	7.0	70.42	0	92.7	60.4	120	0	0	0	
Cyclohexane	53.37	4.8	7.0	70.42	0	75.8	50	150	0	0	0	
Dibromochloromethane	61.90	2.6	7.0	70.42	0	87.9	65.1	121	0	0	0	
Dichlorodifluoromethane	88.41	3.1	14	70.42	0	126	50	150	0	0	0	
Ethylbenzene	56.80	2.8	7.0	70.42	0	80.7	64.9	136	0	0	0	
Freon-113	62.34	2.6	14	70.42	0	88.5	50	150	0	0	0	
Isopropylbenzene	61.48	3.1	7.0	70.42	0	87.3	70.2	129	0	0	0	
m,p-Xylene	109.5	5.6	7.0	140.8	0	77.7	60.2	138	0	0	0	
Methyl acetate	67.04	4.6	7.0	70.42	0	95.2	50	150	0	0	0	
Methyl tert-butyl ether	82.24	3.1	7.0	70.42	0	117	60.1	129	0	0	0	
Methylcyclohexane	36.69	2.9	7.0	70.42	0	52.1	50	150	0	0	0	
Methylene chloride	71.70	4.5	28	70.42	0	102	64.5	158	0	0	0	
o-Xylene	49.79	2.8	7.0	70.42	0	70.7	61.5	134	0	0	0	
Styrene	65.97	2.7	7.0	70.42	0	93.7	72.9	130	0	0	0	
Tetrachloroethene	48.58	3.2	7.0	70.42	0	69.0	70.1	134	0	0	0	S
Toluene	63.37	2.9	7.0	70.42	0	90.0	70.4	130	0	0	0	
trans-1,2-Dichloroethene	66.94	4.1	7.0	70.42	0	95.1	60.4	158	0	0	0	
trans-1,3-Dichloropropene	65.66	3.3	7.0	70.42	0	93.2	60.1	117	0	0	0	
Trichloroethene	56.77	3.1	7.0	70.42	0	80.6	70.1	137	0	0	0	
Trichlorofluoromethane	92.48	2.9	7.0	70.42	0	131	48	152	0	0	0	
Vinyl chloride	64.62	3.5	14	70.42	0	91.8	60	128	0	0	0	
Surr: 4-Bromofluorobenzene	67.27	0	0	70.42	0	95.5	70	128	0	0	0	
Surr: Dibromofluoromethane	72.07	0	0	70.42	0	102	78.2	128	0	0	0	
Surr: Toluene-d8	70.76	0	0	70.42	0	100	76.5	116	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327330

Sample ID: **2112G62-006AMSD** Client ID: **LLB-SS-L02-121121** Units: **ug/Kg** Prep Date: **12/14/2021** Run No: **472530**
SampleType: **MSD1** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327330** Seq No: **10884762**
Analysis Date / Time: **Dec 14 2021 7:25PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.33	4.1	5.8	57.74	0	85.4	70	135	80.47	48.0	18.7	R
1,1,2,2-Tetrachloroethane	60.13	2.1	5.8	57.74	0	104	70.2	126	91.78	41.7	15	R
1,1,2-Trichloroethane	47.02	2.1	5.8	57.74	0	81.4	72.3	130	82.98	55.3	14.1	R
1,1-Dichloroethane	53.66	2.5	5.8	57.74	0	92.9	60.8	140	91.95	52.6	14.1	R
1,1-Dichloroethene	54.06	2.8	5.8	57.74	0	93.6	56.6	151	90.01	49.9	20.4	R
1,2,4-Trichlorobenzene	23.28	2.0	5.8	57.74	0	40.3	62.2	135	36.43	44.0	23.9	SR
1,2-Dibromo-3-chloropropane	36.43	3.4	5.8	57.74	0	63.1	60.6	126	65.87	57.6	15.2	R
1,2-Dibromoethane	53.54	1.7	5.8	57.74	0	92.7	74.1	123	85.73	46.2	14.4	R
1,2-Dichlorobenzene	43.18	2.2	5.8	57.74	0	74.8	70.4	130	67.25	43.6	15	R
1,2-Dichloroethane	51.85	2.6	5.8	57.74	0	89.8	70.2	129	88.15	51.9	15	R
1,2-Dichloropropane	52.17	2.3	5.8	57.74	0	90.4	70.1	129	81.51	43.9	15.1	R
1,3-Dichlorobenzene	44.49	1.9	5.8	57.74	0	77.1	70.7	130	69.07	43.3	15.2	R
1,4-Dichlorobenzene	45.68	1.8	5.8	57.74	0	79.1	70.6	130	71.40	43.9	14.5	R
2-Butanone	115.0	5.6	58	115.5	0	99.6	50	150	180.0	44.0	30	R
2-Hexanone	117.0	4.3	12	115.5	0	101	50	150	185.4	45.2	30	R
4-Methyl-2-pentanone	101.5	3.3	12	115.5	0	87.9	50	150	171.1	51.1	30	R
Acetone	117.4	21	120	115.5	0	102	50	150	187.1	45.8	30	R
Benzene	51.78	2.5	5.8	57.74	0	89.7	70.4	130	87.33	51.1	16.9	R
Bromodichloromethane	49.75	2.6	5.8	57.74	0	86.2	70	125	83.76	51.0	15	R
Bromoform	45.22	2.3	5.8	57.74	0	78.3	65.2	122	78.03	53.2	15.1	R
Bromomethane	51.76	4.6	5.8	57.74	0	89.6	14	186	91.80	55.8	89.5	
Carbon disulfide	110.0	5.3	12	115.5	0	95.3	50	150	183.3	50.0	30	R
Carbon tetrachloride	46.72	2.7	5.8	57.74	0	80.9	64.3	138	73.45	44.5	25.2	R
Chlorobenzene	49.25	2.0	5.8	57.74	0	85.3	67.5	132	75.46	42.0	14.6	R
Chloroethane	42.69	3.6	12	57.74	0	73.9	38	162	71.38	50.3	57	
Chloroform	51.22	3.6	5.8	57.74	0	88.7	73.9	130	88.41	53.3	15	R
Chloromethane	61.37	3.1	12	57.74	0	106	1	204	92.03	40.0	99	
cis-1,2-Dichloroethene	54.16	3.1	5.8	57.74	0	93.8	70.9	139	90.20	49.9	15	R

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327330

Sample ID: **2112G62-006AMSD** Client ID: **LLB-SS-L02-121121** Units: **ug/Kg** Prep Date: **12/14/2021** Run No: **472530**
SampleType: **MSD1** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327330** Seq No: **10884762**
Analysis Date / Time: **Dec 14 2021 7:25PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,3-Dichloropropene	50.40	2.6	5.8	57.74	0	87.3	60.4	120	86.24	52.4	15.6	R
Cyclohexane	43.67	3.9	5.8	57.74	0	75.6	50	150	70.53	47.0	30	R
Dibromochloromethane	53.36	2.1	5.8	57.74	0	92.4	65.1	121	81.81	42.1	16.3	R
Dichlorodifluoromethane	76.62	2.5	12	57.74	0	133	50	150	116.8	41.6	30	R
Ethylbenzene	47.58	2.3	5.8	57.74	0	82.4	64.9	136	75.07	44.8	16.3	R
Freon-113	50.28	2.2	12	57.74	0	87.1	50	150	82.38	48.4	30	R
Isopropylbenzene	57.24	2.5	5.8	57.74	0	99.1	70.2	129	81.25	34.7	18.8	R
m,p-Xylene	94.80	4.6	5.8	115.5	0	82.1	60.2	138	144.7	41.7	16.3	R
Methyl acetate	50.89	3.8	5.8	57.74	0	88.1	50	150	88.60	54.1	30	R
Methyl tert-butyl ether	65.43	2.5	5.8	57.74	0	113	60.1	129	108.7	49.7	18.6	R
Methylcyclohexane	29.95	2.4	5.8	57.74	0	51.9	50	150	48.49	47.3	30	R
Methylene chloride	58.80	3.7	23	57.74	0	102	64.5	158	94.76	46.8	23.7	R
o-Xylene	42.66	2.3	5.8	57.74	0	73.9	61.5	134	65.80	42.7	16.1	R
Styrene	42.88	2.2	5.8	57.74	0	74.3	72.9	130	87.19	68.1	15	R
Tetrachloroethene	42.66	2.6	5.8	57.74	0	73.9	70.1	134	64.20	40.3	19.3	R
Toluene	49.28	2.4	5.8	57.74	0	85.4	70.4	130	83.74	51.8	16.6	R
trans-1,2-Dichloroethene	52.38	3.3	5.8	57.74	0	90.7	60.4	158	88.47	51.2	54.5	
trans-1,3-Dichloropropene	50.35	2.7	5.8	57.74	0	87.2	60.1	117	86.78	53.1	15	R
Trichloroethene	45.23	2.5	5.8	57.74	0	78.3	70.1	137	75.03	49.6	17	R
Trichlorofluoromethane	55.30	2.3	5.8	57.74	0	95.8	48	152	122.2	75.4	50	R
Vinyl chloride	53.14	2.9	12	57.74	0	92.0	60	128	85.40	46.6	31.4	R
Surr: 4-Bromofluorobenzene	50.66	0	0	57.74	0	87.7	70	128	88.90	0	0	
Surr: Dibromofluoromethane	57.81	0	0	57.74	0	100	78.2	128	95.25	0	0	
Surr: Toluene-d8	55.36	0	0	57.74	0	95.9	76.5	116	93.51	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327330

Sample ID: **LCS-327330** Client ID: Units: **ug/Kg** Prep Date: **12/14/2021** Run No: **472530**
SampleType: **LCS1** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327330** Seq No: **10883399**
Analysis Date / Time: **Dec 14 2021 9:26AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	53.98	3.6	5.0	50.00	0	108	75.4	143	0	0	0	
1,1,2,2-Tetrachloroethane	46.16	1.8	5.0	50.00	0	92.3	67.2	129	0	0	0	
1,1,2-Trichloroethane	51.90	1.8	5.0	50.00	0	104	78.7	127	0	0	0	
1,1-Dichloroethane	54.69	2.2	5.0	50.00	0	109	74.1	135	0	0	0	
1,1-Dichloroethene	59.71	2.4	5.0	50.00	0	119	69.9	145	0	0	0	
1,2,4-Trichlorobenzene	51.41	1.7	5.0	50.00	0	103	52.4	143	0	0	0	
1,2-Dibromo-3-chloropropane	39.40	3.0	5.0	50.00	0	78.8	53	135	0	0	0	
1,2-Dibromoethane	49.44	1.4	5.0	50.00	0	98.9	75.9	123	0	0	0	
1,2-Dichlorobenzene	52.40	1.9	5.0	50.00	0	105	67.3	134	0	0	0	
1,2-Dichloroethane	52.12	2.2	5.0	50.00	0	104	74.2	127	0	0	0	
1,2-Dichloropropane	53.97	2.0	5.0	50.00	0	108	75.4	123	0	0	0	
1,3-Dichlorobenzene	51.75	1.6	5.0	50.00	0	104	68.4	136	0	0	0	
1,4-Dichlorobenzene	53.17	1.6	5.0	50.00	0	106	70.2	134	0	0	0	
2-Butanone	98.31	4.8	50	100.0	0	98.3	50	150	0	0	0	
2-Hexanone	99.11	3.7	10	100.0	0	99.1	50	150	0	0	0	
4-Methyl-2-pentanone	92.45	2.8	10	100.0	0	92.4	50	150	0	0	0	
Acetone	115.8	18	100	100.0	0	116	50	150	0	0	0	
Benzene	56.61	2.1	5.0	50.00	0	113	72.3	130	0	0	0	
Bromodichloromethane	53.11	2.3	5.0	50.00	0	106	50	150	0	0	0	
Bromoform	52.42	2.0	5.0	50.00	0	105	63.1	126	0	0	0	
Bromomethane	54.97	4.0	5.0	50.00	0	110	14	186	0	0	0	
Carbon disulfide	125.9	4.6	10	100.0	0	126	50	150	0	0	0	
Carbon tetrachloride	53.17	2.4	5.0	50.00	0	106	67.8	143	0	0	0	
Chlorobenzene	53.88	1.8	5.0	50.00	0	108	69	130	0	0	0	
Chloroethane	45.34	3.1	10	50.00	0	90.7	38	162	0	0	0	
Chloroform	53.77	3.2	5.0	50.00	0	108	76.9	137	0	0	0	
Chloromethane	60.88	2.7	10	50.00	0	122	1	204	0	0	0	
cis-1,2-Dichloroethene	57.37	2.7	5.0	50.00	0	115	77.6	141	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327330

Sample ID: **LCS-327330** Client ID: Units: **ug/Kg** Prep Date: **12/14/2021** Run No: **472530**
SampleType: **LCS1** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327330** Seq No: **10883399**
Analysis Date / Time: **Dec 14 2021 9:26AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,3-Dichloropropene	56.90	2.2	5.0	50.00	0	114	62.9	119	0	0	0	
Cyclohexane	56.70	3.4	5.0	50.00	0	113	50	150	0	0	0	
Dibromochloromethane	51.46	1.8	5.0	50.00	0	103	70.6	118	0	0	0	
Dichlorodifluoromethane	78.27	2.2	10	50.00	0	157	50	150	0	0	0	S
Ethylbenzene	55.05	2.0	5.0	50.00	0	110	70.4	130	0	0	0	
Freon-113	58.96	1.9	10	50.00	0	118	50	150	0	0	0	
Isopropylbenzene	51.80	2.2	5.0	50.00	0	104	68.8	131	0	0	0	
m,p-Xylene	113.8	4.0	5.0	100.0	0	114	70.1	130	0	0	0	
Methyl acetate	49.20	3.2	5.0	50.00	0	98.4	50	150	0	0	0	
Methyl tert-butyl ether	61.23	2.2	5.0	50.00	0	122	70	127	0	0	0	
Methylcyclohexane	55.34	2.0	5.0	50.00	0	111	50	150	0	0	0	
Methylene chloride	56.83	3.2	20	50.00	0	114	67.2	155	0	0	0	
o-Xylene	48.79	2.0	5.0	50.00	0	97.6	70.1	128	0	0	0	
Styrene	50.11	1.9	5.0	50.00	0	100	79.4	126	0	0	0	
Tetrachloroethene	49.89	2.3	5.0	50.00	0	99.8	74.5	136	0	0	0	
Toluene	57.06	2.1	5.0	50.00	0	114	71.1	130	0	0	0	
trans-1,2-Dichloroethene	58.94	2.9	5.0	50.00	0	118	67.7	157	0	0	0	
trans-1,3-Dichloropropene	54.32	2.4	5.0	50.00	0	109	66.7	111	0	0	0	
Trichloroethene	53.85	2.2	5.0	50.00	0	108	71.7	136	0	0	0	
Trichlorofluoromethane	53.79	2.0	5.0	50.00	0	108	48	152	0	0	0	
Vinyl chloride	58.18	2.5	10	50.00	0	116	54	145	0	0	0	
Surr: 4-Bromofluorobenzene	53.25	0	0	50.00	0	106	70	128	0	0	0	
Surr: Dibromofluoromethane	49.55	0	0	50.00	0	99.1	78.2	128	0	0	0	
Surr: Toluene-d8	49.78	0	0	50.00	0	99.6	76.5	116	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327367

Sample ID: **MB-327367** Client ID: Units: **ug/L** Prep Date: **12/14/2021** Run No: **472542**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327367** Seq No: **10884397**
Analysis Date / Time: **Dec 14 2021 11:36AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	0.26	5.0									
1,1,2,2-Tetrachloroethane	BRL	0.25	5.0									
1,1,2-Trichloroethane	BRL	0.23	5.0									
1,1-Dichloroethane	BRL	0.29	5.0									
1,1-Dichloroethene	BRL	0.32	5.0									
1,2,4-Trichlorobenzene	BRL	0.68	5.0									
1,2-Dibromo-3-chloropropane	BRL	0.61	5.0									
1,2-Dibromoethane	BRL	0.20	5.0									
1,2-Dichlorobenzene	BRL	0.22	5.0									
1,2-Dichloroethane	BRL	0.19	5.0									
1,2-Dichloropropane	BRL	0.23	5.0									
1,3-Dichlorobenzene	BRL	0.23	5.0									
1,4-Dichlorobenzene	BRL	0.57	5.0									
2-Butanone	BRL	5.0	50									
2-Hexanone	BRL	2.7	10									
4-Methyl-2-pentanone	BRL	2.7	10									
Acetone	BRL	8.3	50									
Benzene	BRL	0.24	5.0									
Bromodichloromethane	BRL	0.26	5.0									
Bromoform	BRL	0.48	5.0									
Bromomethane	BRL	0.73	5.0									
Carbon disulfide	BRL	0.98	5.0									
Carbon tetrachloride	BRL	0.28	5.0									
Chlorobenzene	BRL	0.47	5.0									
Chloroethane	BRL	0.45	10									
Chloroform	BRL	0.23	5.0									
Chloromethane	BRL	0.44	10									
cis-1,2-Dichloroethene	BRL	0.50	5.0									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327367

Sample ID: **MB-327367** Client ID:
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260D**
Units: **ug/L** Prep Date: **12/14/2021** Run No: **472542**
BatchID: **327367** Seq No: **10884397**
Analysis Date / Time: **Dec 14 2021 11:36AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,3-Dichloropropene	BRL	0.30	5.0									
Cyclohexane	BRL	1.00	5.0									
Dibromochloromethane	BRL	0.40	5.0									
Dichlorodifluoromethane	BRL	0.47	10									
Ethylbenzene	BRL	0.24	5.0									
Freon-113	BRL	0.33	10									
Isopropylbenzene	BRL	0.29	5.0									
m,p-Xylene	BRL	0.51	5.0									
Methyl acetate	BRL	0.57	5.0									
Methyl tert-butyl ether	BRL	0.24	5.0									
Methylcyclohexane	BRL	0.24	5.0									
Methylene chloride	BRL	4.8	5.0									
o-Xylene	BRL	0.27	5.0									
Styrene	BRL	0.29	5.0									
Tetrachloroethene	BRL	0.30	5.0									
Toluene	BRL	0.66	5.0									
trans-1,2-Dichloroethene	BRL	0.29	5.0									
trans-1,3-Dichloropropene	BRL	0.81	5.0									
Trichloroethene	BRL	0.21	5.0									
Trichlorofluoromethane	BRL	0.43	5.0									
Vinyl chloride	BRL	0.44	2.0									
Surr: 4-Bromofluorobenzene	47.50	0	0	50.00		95.0	74.9	127				
Surr: Dibromofluoromethane	47.07	0	0	50.00		94.1	78.9	121				
Surr: Toluene-d8	49.18	0	0	50.00		98.4	81.5	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327367

Sample ID: **LCS-327367** Client ID: Units: **ug/L** Prep Date: **12/14/2021** Run No: **472542**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327367** Seq No: **10884409**
Analysis Date / Time: **Dec 14 2021 9:48AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	22.01	0.26	5.0	0		0	69	133				
1,1,2,2-Tetrachloroethane	23.16	0.25	5.0	0		0	69.9	132				
1,1,2-Trichloroethane	22.77	0.23	5.0	0		0	74.5	127				
1,1-Dichloroethane	20.63	0.29	5.0	0		0	64	128				
1,1-Dichloroethene	22.33	0.32	5.0	20.00		112	67.3	134				
1,2,4-Trichlorobenzene	18.88	0.68	5.0	0		0	66.7	133				
1,2-Dibromo-3-chloropropane	18.87	0.61	5.0	0		0	70.1	131				
1,2-Dibromoethane	22.38	0.20	5.0	0		0	77.1	130				
1,2-Dichlorobenzene	22.37	0.22	5.0	0		0	67.2	127				
1,2-Dichloroethane	21.15	0.19	5.0	0		0	67.3	135				
1,2-Dichloropropane	22.37	0.23	5.0	0		0	70.4	124				
1,3-Dichlorobenzene	22.51	0.23	5.0	0		0	70	123				
1,4-Dichlorobenzene	22.41	0.57	5.0	0		0	73.5	121				
2-Butanone	36.93	5.0	50	0		0	0	0				J
2-Hexanone	40.55	2.7	10	0		0	0	0				
4-Methyl-2-pentanone	40.97	2.7	10	0		0	0	0				
Acetone	26.26	8.3	50	0		0	0	0				J
Benzene	23.04	0.24	5.0	20.00		115	78.6	124				
Bromodichloromethane	20.97	0.26	5.0	0		0	69.9	131				
Bromoform	16.19	0.48	5.0	0		0	64.3	137				
Bromomethane	19.47	0.73	5.0	0		0	0	0				
Carbon disulfide	40.55	0.98	5.0	0		0	0	0				
Carbon tetrachloride	23.95	0.28	5.0	0		0	71.9	140				
Chlorobenzene	22.77	0.47	5.0	20.00		114	78.9	127				
Chloroethane	21.90	0.45	10	0		0	0	0				
Chloroform	20.90	0.23	5.0	0		0	67.7	131				
Chloromethane	15.39	0.44	10	0		0	0	0				
cis-1,2-Dichloroethene	21.66	0.50	5.0	0		0	65	129				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327367

Sample ID: **LCS-327367** Client ID: Units: **ug/L** Prep Date: **12/14/2021** Run No: **472542**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327367** Seq No: **10884409**
Analysis Date / Time: **Dec 14 2021 9:48AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,3-Dichloropropene	21.52	0.30	5.0	0		0	64.5	136				
Cyclohexane	22.05	1.00	5.0	0		0	0	0				
Dibromochloromethane	20.40	0.40	5.0	0		0	64.4	138				
Dichlorodifluoromethane	21.97	0.47	10	0		0	0	0				
Ethylbenzene	22.67	0.24	5.0	0		0	78.6	125				
Freon-113	23.79	0.33	10	0		0	0	0				
Isopropylbenzene	24.15	0.29	5.0	0		0	65.1	129				
m,p-Xylene	45.37	0.51	5.0	0		0	78	126				
Methyl acetate	13.95	0.57	5.0	0		0	0	0				
Methyl tert-butyl ether	19.85	0.24	5.0	0		0	71.1	131				
Methylcyclohexane	26.00	0.24	5.0	0		0	0	0				
Methylene chloride	20.54	4.8	5.0	0		0	65.7	133				
o-Xylene	22.39	0.27	5.0	0		0	77.1	124				
Styrene	22.19	0.29	5.0	0		0	76.5	135				
Tetrachloroethene	24.70	0.30	5.0	0		0	69.3	135				
Toluene	23.36	0.66	5.0	20.00		117	77.7	125				
trans-1,2-Dichloroethene	22.09	0.29	5.0	0		0	66.4	130				
trans-1,3-Dichloropropene	20.92	0.81	5.0	0		0	67.9	133				
Trichloroethene	24.33	0.21	5.0	20.00		122	77	130				
Trichlorofluoromethane	22.30	0.43	5.0	0		0	0	0				
Vinyl chloride	17.89	0.44	2.0	0		0	68	143				
Surr: 4-Bromofluorobenzene	47.85	0	0	50.00		95.7	74.9	127				
Surr: Dibromofluoromethane	48.76	0	0	50.00		97.5	78.9	121				
Surr: Toluene-d8	49.71	0	0	50.00		99.4	81.5	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327367

Sample ID: **2112G62-003AMS** Client ID: **LLB-SW-L02-121121** Units: **ug/L** Prep Date: **12/14/2021** Run No: **472542**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327367** Seq No: **10884403**
Analysis Date / Time: **Dec 14 2021 2:06PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	22.07	0.26	5.0	0		0	71	140				
1,1,2,2-Tetrachloroethane	23.18	0.25	5.0	0		0	68.4	135				
1,1,2-Trichloroethane	23.03	0.23	5.0	0		0	72.8	134				
1,1-Dichloroethane	22.02	0.29	5.0	0		0	68	137				
1,1-Dichloroethene	23.98	0.32	5.0	20.00		120	67.6	143				
1,2,4-Trichlorobenzene	22.24	0.68	5.0	0		0	60	138				
1,2-Dibromo-3-chloropropane	20.63	0.61	5.0	0		0	56.5	134				
1,2-Dibromoethane	22.43	0.20	5.0	0		0	74.7	132				
1,2-Dichlorobenzene	21.65	0.22	5.0	0		0	73.2	134				
1,2-Dichloroethane	21.29	0.19	5.0	0		0	72.1	135				
1,2-Dichloropropane	23.04	0.23	5.0	0		0	72	135				
1,3-Dichlorobenzene	21.85	0.23	5.0	0		0	73	134				
1,4-Dichlorobenzene	21.93	0.57	5.0	0		0	73	133				
2-Butanone	55.48	5.0	50	0		0	0	0				
2-Hexanone	48.10	2.7	10	0		0	0	0				
4-Methyl-2-pentanone	48.47	2.7	10	0		0	0	0				
Acetone	74.57	8.3	50	0	22.90	0	0	0				
Benzene	24.04	0.24	5.0	20.00		120	70.5	136				
Bromodichloromethane	20.64	0.26	5.0	0		0	71.8	135				
Bromoform	15.09	0.48	5.0	0		0	57.2	136				
Bromomethane	25.99	0.73	5.0	0		0	0	0				
Carbon disulfide	43.89	0.98	5.0	0		0	0	0				
Carbon tetrachloride	23.32	0.28	5.0	0		0	72.4	144				
Chlorobenzene	23.27	0.47	5.0	20.00		116	77.1	133				
Chloroethane	24.59	0.45	10	0		0	0	0				
Chloroform	22.12	0.23	5.0	0		0	71.7	134				
Chloromethane	19.45	0.44	10	0		0	0	0				
cis-1,2-Dichloroethene	22.69	0.50	5.0	0		0	71.4	136				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327367

Sample ID: **2112G62-003AMS** Client ID: **LLB-SW-L02-121121** Units: **ug/L** Prep Date: **12/14/2021** Run No: **472542**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327367** Seq No: **10884403**
Analysis Date / Time: **Dec 14 2021 2:06PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,3-Dichloropropene	21.07	0.30	5.0	0		0	68.3	131				
Cyclohexane	21.97	1.00	5.0	0		0	0	0				
Dibromochloromethane	19.31	0.40	5.0	0		0	67.5	136				
Dichlorodifluoromethane	24.25	0.47	10	0		0	0	0				
Ethylbenzene	23.00	0.24	5.0	0		0	70	134				
Freon-113	25.66	0.33	10	0		0	0	0				
Isopropylbenzene	21.30	0.29	5.0	0		0	72.3	136				
m,p-Xylene	45.80	0.51	5.0	0		0	66.3	138				
Methyl acetate	21.26	0.57	5.0	0		0	0	0				
Methyl tert-butyl ether	19.09	0.24	5.0	0		0	65.7	136				
Methylcyclohexane	22.62	0.24	5.0	0		0	0	0				
Methylene chloride	21.07	4.8	5.0	0		0	65.4	132				
o-Xylene	22.10	0.27	5.0	0		0	67.1	136				
Styrene	24.73	0.29	5.0	0	1.490	0	77.3	134				
Tetrachloroethene	24.28	0.30	5.0	0		0	72.9	141				
Toluene	24.05	0.66	5.0	20.00		120	66.4	140				
trans-1,2-Dichloroethene	23.53	0.29	5.0	0		0	69.7	138				
trans-1,3-Dichloropropene	20.34	0.81	5.0	0		0	65.2	130				
Trichloroethene	25.39	0.21	5.0	20.00		127	75.1	140				
Trichlorofluoromethane	23.99	0.43	5.0	0		0	0	0				
Vinyl chloride	21.20	0.44	2.0	0		0	60.7	145				
Surr: 4-Bromofluorobenzene	48.92	0	0	50.00		97.8	74.9	127				
Surr: Dibromofluoromethane	48.42	0	0	50.00		96.8	78.9	121				
Surr: Toluene-d8	50.05	0	0	50.00		100	81.5	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327367

Sample ID: **2112G62-003AMSD** Client ID: **LLB-SW-L02-121121** Units: **ug/L** Prep Date: **12/14/2021** Run No: **472542**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327367** Seq No: **10884404**
Analysis Date / Time: **Dec 14 2021 2:27PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	22.05	0.26	5.0	0		0	71	140	22.07	0.091	20	
1,1,2,2-Tetrachloroethane	22.42	0.25	5.0	0		0	68.4	135	23.18	3.33	20	
1,1,2-Trichloroethane	22.11	0.23	5.0	0		0	72.8	134	23.03	4.08	20	
1,1-Dichloroethane	21.39	0.29	5.0	0		0	68	137	22.02	2.90	20	
1,1-Dichloroethene	23.20	0.32	5.0	20.00		116	67.6	143	23.98	3.31	19.6	
1,2,4-Trichlorobenzene	24.25	0.68	5.0	0		0	60	138	22.24	8.65	21.7	
1,2-Dibromo-3-chloropropane	20.43	0.61	5.0	0		0	56.5	134	20.63	0.974	20	
1,2-Dibromoethane	21.42	0.20	5.0	0		0	74.7	132	22.43	4.61	20	
1,2-Dichlorobenzene	21.15	0.22	5.0	0		0	73.2	134	21.65	2.34	20	
1,2-Dichloroethane	20.47	0.19	5.0	0		0	72.1	135	21.29	3.93	20	
1,2-Dichloropropane	22.14	0.23	5.0	0		0	72	135	23.04	3.98	20	
1,3-Dichlorobenzene	21.15	0.23	5.0	0		0	73	134	21.85	3.26	20	
1,4-Dichlorobenzene	21.15	0.57	5.0	0		0	73	133	21.93	3.62	20	
2-Butanone	55.35	5.0	50	0		0	0	0	55.48	0.235	0	
2-Hexanone	47.15	2.7	10	0		0	0	0	48.10	1.99	0	
4-Methyl-2-pentanone	47.40	2.7	10	0		0	0	0	48.47	2.23	0	
Acetone	72.64	8.3	50	0	22.90	0	0	0	74.57	2.62	0	
Benzene	23.14	0.24	5.0	20.00		116	70.5	136	24.04	3.82	20	
Bromodichloromethane	19.97	0.26	5.0	0		0	71.8	135	20.64	3.30	20	
Bromoform	14.55	0.48	5.0	0		0	57.2	136	15.09	3.64	20	
Bromomethane	20.92	0.73	5.0	0		0	0	0	25.99	21.6	0	
Carbon disulfide	42.97	0.98	5.0	0		0	0	0	43.89	2.12	0	
Carbon tetrachloride	23.49	0.28	5.0	0		0	72.4	144	23.32	0.726	20	
Chlorobenzene	22.35	0.47	5.0	20.00		112	77.1	133	23.27	4.03	20	
Chloroethane	24.16	0.45	10	0		0	0	0	24.59	1.76	0	
Chloroform	21.13	0.23	5.0	0		0	71.7	134	22.12	4.58	20	
Chloromethane	17.14	0.44	10	0		0	0	0	19.45	12.6	0	
cis-1,2-Dichloroethene	21.82	0.50	5.0	0		0	71.4	136	22.69	3.91	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327367

Sample ID: **2112G62-003AMSD** Client ID: **LLB-SW-L02-121121** Units: **ug/L** Prep Date: **12/14/2021** Run No: **472542**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327367** Seq No: **10884404**
Analysis Date / Time: **Dec 14 2021 2:27PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,3-Dichloropropene	20.26	0.30	5.0	0		0	68.3	131	21.07	3.92	20	
Cyclohexane	21.58	1.00	5.0	0		0	0	0	21.97	1.79	0	
Dibromochloromethane	18.65	0.40	5.0	0		0	67.5	136	19.31	3.48	20	
Dichlorodifluoromethane	22.85	0.47	10	0		0	0	0	24.25	5.94	0	
Ethylbenzene	22.40	0.24	5.0	0		0	70	134	23.00	2.64	20	
Freon-113	24.36	0.33	10	0		0	0	0	25.66	5.20	0	
Isopropylbenzene	20.75	0.29	5.0	0		0	72.3	136	21.30	2.62	20	
m,p-Xylene	44.50	0.51	5.0	0		0	66.3	138	45.80	2.88	20	
Methyl acetate	20.07	0.57	5.0	0		0	0	0	21.26	5.76	0	
Methyl tert-butyl ether	18.86	0.24	5.0	0		0	65.7	136	19.09	1.21	17.3	
Methylcyclohexane	22.83	0.24	5.0	0		0	0	0	22.62	0.924	0	
Methylene chloride	20.34	4.8	5.0	0		0	65.4	132	21.07	3.53	20	
o-Xylene	21.81	0.27	5.0	0		0	67.1	136	22.10	1.32	20	
Styrene	23.88	0.29	5.0	0	1.490	0	77.3	134	24.73	3.50	20	
Tetrachloroethene	23.34	0.30	5.0	0		0	72.9	141	24.28	3.95	20	
Toluene	23.22	0.66	5.0	20.00		116	66.4	140	24.05	3.51	20	
trans-1,2-Dichloroethene	22.73	0.29	5.0	0		0	69.7	138	23.53	3.46	20	
trans-1,3-Dichloropropene	19.85	0.81	5.0	0		0	65.2	130	20.34	2.44	20	
Trichloroethene	24.49	0.21	5.0	20.00		122	75.1	140	25.39	3.61	20	
Trichlorofluoromethane	22.60	0.43	5.0	0		0	0	0	23.99	5.97	0	
Vinyl chloride	18.53	0.44	2.0	0		0	60.7	145	21.20	13.4	21.1	
Surr: 4-Bromofluorobenzene	49.82	0	0	50.00		99.6	74.9	127	48.92	0	0	
Surr: Dibromofluoromethane	48.50	0	0	50.00		97.0	78.9	121	48.42	0	0	
Surr: Toluene-d8	49.92	0	0	50.00		99.8	81.5	120	50.05	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327367

Sample ID: **2112G62-003AMS** Client ID: **LLB-SW-L02-121121** Units: **ug/L** Prep Date: **12/14/2021** Run No: **472542**
SampleType: **MS1** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327367** Seq No: **10910949**
Analysis Date / Time: **Dec 14 2021 2:06PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	22.07	0.26	5.0	20.00	0	110	64.1	145	0	0	0	
1,1,2,2-Tetrachloroethane	23.18	0.25	5.0	20.00	0	116	63.6	133	0	0	0	
1,1,2-Trichloroethane	23.03	0.23	5.0	20.00	0	115	71.9	136	0	0	0	
1,1-Dichloroethane	22.02	0.29	5.0	20.00	0	110	67.7	138	0	0	0	
1,1-Dichloroethene	23.98	0.32	5.0	20.00	0	120	60.5	156	0	0	0	
1,2,4-Trichlorobenzene	22.24	0.68	5.0	20.00	0	111	60	130	0	0	0	
1,2-Dibromo-3-chloropropane	20.63	0.61	5.0	20.00	0	103	60.6	128	0	0	0	
1,2-Dibromoethane	22.43	0.20	5.0	20.00	0	112	75	133	0	0	0	
1,2-Dichlorobenzene	21.65	0.22	5.0	20.00	0	108	71.7	127	0	0	0	
1,2-Dichloroethane	21.29	0.19	5.0	20.00	0	106	71.7	134	0	0	0	
1,2-Dichloropropane	23.04	0.23	5.0	20.00	0	115	69.6	137	0	0	0	
1,3-Dichlorobenzene	21.85	0.23	5.0	20.00	0	109	71.4	130	0	0	0	
1,4-Dichlorobenzene	21.93	0.57	5.0	20.00	0	110	72.7	123	0	0	0	
2-Butanone	55.48	5.0	50	40.00	0	139	50	150	0	0	0	
2-Hexanone	48.10	2.7	10	40.00	0	120	50	150	0	0	0	
4-Methyl-2-pentanone	48.47	2.7	10	40.00	0	121	50	150	0	0	0	
Acetone	74.57	8.3	50	40.00	22.90	129	50	150	0	0	0	
Benzene	24.04	0.24	5.0	20.00	0	120	70	135	0	0	0	
Bromodichloromethane	20.64	0.26	5.0	20.00	0	103	60.3	142	0	0	0	
Bromoform	15.09	0.48	5.0	20.00	0	75.4	50.2	139	0	0	0	
Bromomethane	25.99	0.73	5.0	20.00	0	130	14	186	0	0	0	
Carbon disulfide	43.89	0.98	5.0	40.00	0	110	50	150	0	0	0	
Carbon tetrachloride	23.32	0.28	5.0	20.00	0	117	64.4	146	0	0	0	
Chlorobenzene	23.27	0.47	5.0	20.00	0	116	70.5	132	0	0	0	
Chloroethane	24.59	0.45	10	20.00	0	123	38	162	0	0	0	
Chloroform	22.12	0.23	5.0	20.00	0	111	70.1	141	0	0	0	
Chloromethane	19.45	0.44	10	20.00	0	97.2	1	204	0	0	0	
cis-1,2-Dichloroethene	22.69	0.50	5.0	20.00	0	113	70.7	138	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327367

Sample ID: **2112G62-003AMS** Client ID: **LLB-SW-L02-121121** Units: **ug/L** Prep Date: **12/14/2021** Run No: **472542**
SampleType: **MS1** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327367** Seq No: **10910949**
Analysis Date / Time: **Dec 14 2021 2:06PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,3-Dichloropropene	21.07	0.30	5.0	20.00	0	105	58.7	137	0	0	0	
Cyclohexane	21.97	1.00	5.0	20.00	0	110	50	150	0	0	0	
Dibromochloromethane	19.31	0.40	5.0	20.00	0	96.6	63.2	130	0	0	0	
Dichlorodifluoromethane	24.25	0.47	10	20.00	0	121	50	150	0	0	0	
Ethylbenzene	23.00	0.24	5.0	20.00	0	115	73.7	135	0	0	0	
Freon-113	25.66	0.33	10	20.00	0	128	50	150	0	0	0	
Isopropylbenzene	21.30	0.29	5.0	20.00	0	106	66.2	129	0	0	0	
m,p-Xylene	45.80	0.51	5.0	40.00	0	114	70.7	136	0	0	0	
Methyl acetate	21.26	0.57	5.0	20.00	0	106	50	150	0	0	0	
Methyl tert-butyl ether	19.09	0.24	5.0	20.00	0	95.4	61.5	132	0	0	0	
Methylcyclohexane	22.62	0.24	5.0	20.00	0	113	50	150	0	0	0	
Methylene chloride	21.07	4.8	5.0	20.00	0	105	70.1	132	0	0	0	
o-Xylene	22.10	0.27	5.0	20.00	0	110	71.3	137	0	0	0	
Styrene	24.73	0.29	5.0	20.00	1.490	116	72	135	0	0	0	
Tetrachloroethene	24.28	0.30	5.0	20.00	0	121	71.4	139	0	0	0	
Toluene	24.05	0.66	5.0	20.00	0	120	70.5	137	0	0	0	
trans-1,2-Dichloroethene	23.53	0.29	5.0	20.00	0	118	68.3	142	0	0	0	
trans-1,3-Dichloropropene	20.34	0.81	5.0	20.00	0	102	60.2	124	0	0	0	
Trichloroethene	25.39	0.21	5.0	20.00	0	127	71.8	139	0	0	0	
Trichlorofluoromethane	23.99	0.43	5.0	20.00	0	120	48	152	0	0	0	
Vinyl chloride	21.20	0.44	2.0	20.00	0	106	70	132	0	0	0	
Surr: 4-Bromofluorobenzene	48.92	0	0	50.00	0	97.8	66.2	120	0	0	0	
Surr: Dibromofluoromethane	48.42	0	0	50.00	0	96.8	79.5	121	0	0	0	
Surr: Toluene-d8	50.05	0	0	50.00	0	100	77	117	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327367

Sample ID: **2112G62-003AMSD** Client ID: **LLB-SW-L02-121121** Units: **ug/L** Prep Date: **12/14/2021** Run No: **472542**
SampleType: **MSD1** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327367** Seq No: **10910950**
Analysis Date / Time: **Dec 14 2021 2:27PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	22.05	0.26	5.0	20.00	0	110	64.1	145	22.07	0.091	20	
1,1,2,2-Tetrachloroethane	22.42	0.25	5.0	20.00	0	112	63.6	133	23.18	3.33	20	
1,1,2-Trichloroethane	22.11	0.23	5.0	20.00	0	111	71.9	136	23.03	4.08	20	
1,1-Dichloroethane	21.39	0.29	5.0	20.00	0	107	67.7	138	22.02	2.90	20	
1,1-Dichloroethene	23.20	0.32	5.0	20.00	0	116	60.5	156	23.98	3.31	20	
1,2,4-Trichlorobenzene	24.25	0.68	5.0	20.00	0	121	60	130	22.24	8.65	26.5	
1,2-Dibromo-3-chloropropane	20.43	0.61	5.0	20.00	0	102	60.6	128	20.63	0.974	20.4	
1,2-Dibromoethane	21.42	0.20	5.0	20.00	0	107	75	133	22.43	4.61	20	
1,2-Dichlorobenzene	21.15	0.22	5.0	20.00	0	106	71.7	127	21.65	2.34	20	
1,2-Dichloroethane	20.47	0.19	5.0	20.00	0	102	71.7	134	21.29	3.93	30	
1,2-Dichloropropane	22.14	0.23	5.0	20.00	0	111	69.6	137	23.04	3.98	20	
1,3-Dichlorobenzene	21.15	0.23	5.0	20.00	0	106	71.4	130	21.85	3.26	20	
1,4-Dichlorobenzene	21.15	0.57	5.0	20.00	0	106	72.7	123	21.93	3.62	20	
2-Butanone	55.35	5.0	50	40.00	0	138	50	150	55.48	0.235	30	
2-Hexanone	47.15	2.7	10	40.00	0	118	50	150	48.10	1.99	30	
4-Methyl-2-pentanone	47.40	2.7	10	40.00	0	118	50	150	48.47	2.23	30	
Acetone	72.64	8.3	50	40.00	22.90	124	50	150	74.57	2.62	30	
Benzene	23.14	0.24	5.0	20.00	0	116	70	135	24.04	3.82	20	
Bromodichloromethane	19.97	0.26	5.0	20.00	0	99.8	60.3	142	20.64	3.30	20	
Bromoform	14.55	0.48	5.0	20.00	0	72.8	50.2	139	15.09	3.64	20	
Bromomethane	20.92	0.73	5.0	20.00	0	105	14	186	25.99	21.6	89.5	
Carbon disulfide	42.97	0.98	5.0	40.00	0	107	50	150	43.89	2.12	30	
Carbon tetrachloride	23.49	0.28	5.0	20.00	0	117	64.4	146	23.32	0.726	19.3	
Chlorobenzene	22.35	0.47	5.0	20.00	0	112	70.5	132	23.27	4.03	20	
Chloroethane	24.16	0.45	10	20.00	0	121	38	162	24.59	1.76	57	
Chloroform	21.13	0.23	5.0	20.00	0	106	70.1	141	22.12	4.58	20	
Chloromethane	17.14	0.44	10	20.00	0	85.7	1	204	19.45	12.6	99	
cis-1,2-Dichloroethene	21.82	0.50	5.0	20.00	0	109	70.7	138	22.69	3.91	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327367

Sample ID: **2112G62-003AMSD** Client ID: **LLB-SW-L02-121121** Units: **ug/L** Prep Date: **12/14/2021** Run No: **472542**
SampleType: **MSD1** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327367** Seq No: **10910950**
Analysis Date / Time: **Dec 14 2021 2:27PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,3-Dichloropropene	20.26	0.30	5.0	20.00	0	101	58.7	137	21.07	3.92	20	
Cyclohexane	21.58	1.00	5.0	20.00	0	108	50	150	21.97	1.79	30	
Dibromochloromethane	18.65	0.40	5.0	20.00	0	93.2	63.2	130	19.31	3.48	20	
Dichlorodifluoromethane	22.85	0.47	10	20.00	0	114	50	150	24.25	5.94	30	
Ethylbenzene	22.40	0.24	5.0	20.00	0	112	73.7	135	23.00	2.64	20	
Freon-113	24.36	0.33	10	20.00	0	122	50	150	25.66	5.20	30	
Isopropylbenzene	20.75	0.29	5.0	20.00	0	104	66.2	129	21.30	2.62	20	
m,p-Xylene	44.50	0.51	5.0	40.00	0	111	70.7	136	45.80	2.88	20	
Methyl acetate	20.07	0.57	5.0	20.00	0	100	50	150	21.26	5.76	30	
Methyl tert-butyl ether	18.86	0.24	5.0	20.00	0	94.3	61.5	132	19.09	1.21	20	
Methylcyclohexane	22.83	0.24	5.0	20.00	0	114	50	150	22.62	0.924	30	
Methylene chloride	20.34	4.8	5.0	20.00	0	102	70.1	132	21.07	3.53	20	
o-Xylene	21.81	0.27	5.0	20.00	0	109	71.3	137	22.10	1.32	20	
Styrene	23.88	0.29	5.0	20.00	1.490	112	72	135	24.73	3.50	20	
Tetrachloroethene	23.34	0.30	5.0	20.00	0	117	71.4	139	24.28	3.95	20	
Toluene	23.22	0.66	5.0	20.00	0	116	70.5	137	24.05	3.51	20	
trans-1,2-Dichloroethene	22.73	0.29	5.0	20.00	0	114	68.3	142	23.53	3.46	20	
trans-1,3-Dichloropropene	19.85	0.81	5.0	20.00	0	99.2	60.2	124	20.34	2.44	20	
Trichloroethene	24.49	0.21	5.0	20.00	0	122	71.8	139	25.39	3.61	20	
Trichlorofluoromethane	22.60	0.43	5.0	20.00	0	113	48	152	23.99	5.97	50	
Vinyl chloride	18.53	0.44	2.0	20.00	0	92.6	70	132	21.20	13.4	20	
Surr: 4-Bromofluorobenzene	49.82	0	0	50.00	0	99.6	66.2	120	48.92	0	0	
Surr: Dibromofluoromethane	48.50	0	0	50.00	0	97.0	79.5	121	48.42	0	0	
Surr: Toluene-d8	49.92	0	0	50.00	0	99.8	77	117	50.05	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327367

Sample ID: **LCS-327367** Client ID: Units: **ug/L** Prep Date: **12/14/2021** Run No: **472542**
SampleType: **LCS1** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327367** Seq No: **10910948**
Analysis Date / Time: **Dec 14 2021 9:48AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	22.01	0.26	5.0	20.00	0	110	68.1	138	0	0	0	
1,1,2,2-Tetrachloroethane	23.16	0.25	5.0	20.00	0	116	65.7	128	0	0	0	
1,1,2-Trichloroethane	22.77	0.23	5.0	20.00	0	114	75.6	127	0	0	0	
1,1-Dichloroethane	20.63	0.29	5.0	20.00	0	103	66.1	126	0	0	0	
1,1-Dichloroethene	22.33	0.32	5.0	20.00	0	112	64.2	137	0	0	0	
1,2,4-Trichlorobenzene	18.88	0.68	5.0	20.00	0	94.4	65.3	129	0	0	0	
1,2-Dibromo-3-chloropropane	18.87	0.61	5.0	20.00	0	94.4	60.3	127	0	0	0	
1,2-Dibromoethane	22.38	0.20	5.0	20.00	0	112	81.2	125	0	0	0	
1,2-Dichlorobenzene	22.37	0.22	5.0	20.00	0	112	76.2	125	0	0	0	
1,2-Dichloroethane	21.15	0.19	5.0	20.00	0	106	71.1	131	0	0	0	
1,2-Dichloropropane	22.37	0.23	5.0	20.00	0	112	73.8	128	0	0	0	
1,3-Dichlorobenzene	22.51	0.23	5.0	20.00	0	113	75.1	128	0	0	0	
1,4-Dichlorobenzene	22.41	0.57	5.0	20.00	0	112	76.6	120	0	0	0	
2-Butanone	36.93	5.0	50	40.00	0	92.3	50	150	0	0	0	
2-Hexanone	40.55	2.7	10	40.00	0	101	50	150	0	0	0	
4-Methyl-2-pentanone	40.97	2.7	10	40.00	0	102	50	150	0	0	0	
Acetone	40.24	8.3	50	40.00	0	101	50	150	0	0	0	
Benzene	23.04	0.24	5.0	20.00	0	115	72.8	128	0	0	0	
Bromodichloromethane	20.97	0.26	5.0	20.00	0	105	70.7	129	0	0	0	
Bromoform	16.19	0.48	5.0	20.00	0	81.0	50	136	0	0	0	
Bromomethane	19.47	0.73	5.0	20.00	0	97.4	14	186	0	0	0	
Carbon disulfide	40.55	0.98	5.0	40.00	0	101	50	150	0	0	0	
Carbon tetrachloride	23.95	0.28	5.0	20.00	0	120	60.7	143	0	0	0	
Chlorobenzene	22.77	0.47	5.0	20.00	0	114	72.3	126	0	0	0	
Chloroethane	21.90	0.45	10	20.00	0	110	38	162	0	0	0	
Chloroform	20.90	0.23	5.0	20.00	0	104	71.3	127	0	0	0	
Chloromethane	16.27	0.44	10	20.00	0	81.4	1	204	0	0	0	
cis-1,2-Dichloroethene	21.66	0.50	5.0	20.00	0	108	73	130	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327367

Sample ID: **LCS-327367** Client ID: Units: **ug/L** Prep Date: **12/14/2021** Run No: **472542**
SampleType: **LCS1** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **327367** Seq No: **10910948**
Analysis Date / Time: **Dec 14 2021 9:48AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,3-Dichloropropene	21.52	0.30	5.0	20.00	0	108	65.3	129	0	0	0	
Cyclohexane	22.05	1.00	5.0	20.00	0	110	50	150	0	0	0	
Dibromochloromethane	20.40	0.40	5.0	20.00	0	102	66.3	127	0	0	0	
Dichlorodifluoromethane	21.97	0.47	10	20.00	0	110	50	150	0	0	0	
Ethylbenzene	22.67	0.24	5.0	20.00	0	113	77	130	0	0	0	
Freon-113	23.79	0.33	10	20.00	0	119	50	150	0	0	0	
Isopropylbenzene	24.15	0.29	5.0	20.00	0	121	67.9	128	0	0	0	
m,p-Xylene	45.37	0.51	5.0	40.00	0	113	75.8	132	0	0	0	
Methyl acetate	18.75	0.57	5.0	20.00	0	93.8	50	150	0	0	0	
Methyl tert-butyl ether	19.85	0.24	5.0	20.00	0	99.2	69.2	127	0	0	0	
Methylcyclohexane	26.00	0.24	5.0	20.00	0	130	50	150	0	0	0	
Methylene chloride	20.54	4.8	5.0	20.00	0	103	58.3	135	0	0	0	
o-Xylene	22.39	0.27	5.0	20.00	0	112	76.1	130	0	0	0	
Styrene	22.19	0.29	5.0	20.00	0	111	74.9	127	0	0	0	
Tetrachloroethene	24.70	0.30	5.0	20.00	0	124	71.1	136	0	0	0	
Toluene	23.36	0.66	5.0	20.00	0	117	74.9	127	0	0	0	
trans-1,2-Dichloroethene	22.09	0.29	5.0	20.00	0	110	66.6	136	0	0	0	
trans-1,3-Dichloropropene	20.92	0.81	5.0	20.00	0	105	62.3	119	0	0	0	
Trichloroethene	24.33	0.21	5.0	20.00	0	122	70.5	134	0	0	0	
Trichlorofluoromethane	22.30	0.43	5.0	20.00	0	112	48	152	0	0	0	
Vinyl chloride	17.89	0.44	2.0	20.00	0	89.4	54.2	134	0	0	0	
Surr: 4-Bromofluorobenzene	47.85	0	0	50.00	0	95.7	66.2	120	0	0	0	
Surr: Dibromofluoromethane	48.76	0	0	50.00	0	97.5	79.5	121	0	0	0	
Surr: Toluene-d8	49.71	0	0	50.00	0	99.4	77	117	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327387

Sample ID: **MB-327387**	Client ID:					Units: **mg/L**	Prep Date: **12/15/2021**		Run No: **472660**		
SampleType: **MBLK**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **327387**			Seq No: **10888053**		
						Analysis Date / Time: **Dec 15 2021 3:48PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0	0.000480	0.00400									

Sample ID: **LCS-327387**	Client ID:					Units: **mg/L**	Prep Date: **12/15/2021**		Run No: **472660**		
SampleType: **LCS**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **327387**			Seq No: **10888054**		
						Analysis Date / Time: **Dec 15 2021 4:03PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.04076	0.000480	0.00400	0.0400		102	80	120				

Sample ID: **2112G62-010BMS**	Client ID: **LLB-SS-L06-121321**					Units: **mg/L**	Prep Date: **12/15/2021**		Run No: **472660**		
SampleType: **MS**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **327387**			Seq No: **10888898**		
						Analysis Date / Time: **Dec 15 2021 7:46PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.03961	0.000480	0.00400	0.0400		99.0	80	120				

Sample ID: **2112G62-010BMSD**	Client ID: **LLB-SS-L06-121321**					Units: **mg/L**	Prep Date: **12/15/2021**		Run No: **472660**		
SampleType: **MSD**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **327387**			Seq No: **10888899**		
						Analysis Date / Time: **Dec 15 2021 7:50PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.04054	0.000480	0.00400	0.0400		101	80	120	0.03961	2.32	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327403

Sample ID: **MB-327403** Client ID: Units: **mg/L** Prep Date: **12/15/2021** Run No: **472657**
SampleType: **MBLK** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **327403** Seq No: **10887161**
Analysis Date / Time: **Dec 15 2021 2:43PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0	0.0520	0.250									
Barium	0	0.0242	0.500									
Cadmium	0	0.00785	0.0250									
Chromium	0	0.0336	0.0500									
Lead	0	0.0195	0.0500									
Selenium	0	0.0447	0.100									
Silver	0	0.00895	0.0250									

Sample ID: **LCS-327403** Client ID: Units: **mg/L** Prep Date: **12/15/2021** Run No: **472657**
SampleType: **LCS** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **327403** Seq No: **10887162**
Analysis Date / Time: **Dec 15 2021 2:45PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	4.745	0.0520	0.250	5.000		94.9	80	120				
Barium	4.807	0.0242	0.500	5.000		96.1	80	120				
Cadmium	5.035	0.00785	0.0250	5.000		101	80	120				
Chromium	4.741	0.0336	0.0500	5.000		94.8	80	120				
Lead	4.759	0.0195	0.0500	5.000		95.2	80	120				
Selenium	5.041	0.0447	0.100	5.000		101	80	120				
Silver	0.4880	0.00895	0.0250	0.5000		97.6	80	120				

Sample ID: **2112H10-002CMS** Client ID: Units: **mg/L** Prep Date: **12/15/2021** Run No: **472657**
SampleType: **MS** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **327403** Seq No: **10887164**
Analysis Date / Time: **Dec 15 2021 2:51PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	4.895	0.0520	0.250	5.000		97.9	50	150				
Barium	5.246	0.0242	0.500	5.000	0.1612	102	50	150				
Cadmium	5.172	0.00785	0.0250	5.000		103	50	150				
Chromium	4.994	0.0336	0.0500	5.000		99.9	50	150				
Lead	5.020	0.0195	0.0500	5.000		100	50	150				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: 327403

Sample ID: **2112H10-002CMS** Client ID:
SampleType: **MS** TestCode: **ICP METALS, TCLP SW1311/6010D**
Units: **mg/L** Prep Date: **12/15/2021** Run No: **472657**
BatchID: **327403** Seq No: **10887164**
Analysis Date / Time: **Dec 15 2021 2:51PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Selenium	5.242	0.0447	0.100	5.000	0.05430	104	50	150				
Silver	0.5038	0.00895	0.0250	0.5000		101	50	150				

Sample ID: **2112H10-002CMSD** Client ID:
SampleType: **MSD** TestCode: **ICP METALS, TCLP SW1311/6010D**
Units: **mg/L** Prep Date: **12/15/2021** Run No: **472657**
BatchID: **327403** Seq No: **10887165**
Analysis Date / Time: **Dec 15 2021 2:54PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	4.892	0.0520	0.250	5.000		97.8	50	150	4.895	0.066	30	
Barium	5.246	0.0242	0.500	5.000	0.1612	102	50	150	5.246	0.003	30	
Cadmium	5.188	0.00785	0.0250	5.000		104	50	150	5.172	0.303	30	
Chromium	4.989	0.0336	0.0500	5.000		99.8	50	150	4.994	0.086	30	
Lead	5.037	0.0195	0.0500	5.000		101	50	150	5.020	0.344	30	
Selenium	5.283	0.0447	0.100	5.000	0.05430	105	50	150	5.242	0.776	30	
Silver	0.5032	0.00895	0.0250	0.5000		101	50	150	0.5038	0.139	30	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472521

Sample ID: **CCB** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **CCB** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472521** Seq No: **10886368**
Analysis Date / Time: **Dec 14 2021 4:59PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	BRL	7.75	50.0	0	0	0	0	0	0	0	0	
Antimony	BRL	0.382	2.50	0	0	0	0	0	0	0	0	
Arsenic	BRL	0.492	2.50	0	0	0	0	0	0	0	0	
Barium	BRL	0.171	5.00	0	0	0	0	0	0	0	0	
Beryllium	BRL	0.167	2.50	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.104	2.50	0	0	0	0	0	0	0	0	
Calcium	BRL	5.19	50.0	0	0	0	0	0	0	0	0	
Chromium	BRL	0.174	2.50	0	0	0	0	0	0	0	0	
Cobalt	BRL	0.131	2.50	0	0	0	0	0	0	0	0	
Copper	BRL	0.156	2.50	0	0	0	0	0	0	0	0	
Iron	BRL	8.42	50.0	0	0	0	0	0	0	0	0	
Lead	BRL	0.449	5.00	0	0	0	0	0	0	0	0	
Magnesium	BRL	4.83	50.0	0	0	0	0	0	0	0	0	
Manganese	BRL	0.159	5.00	0	0	0	0	0	0	0	0	
Nickel	BRL	0.233	5.00	0	0	0	0	0	0	0	0	
Potassium	BRL	10.3	100	0	0	0	0	0	0	0	0	
Selenium	BRL	0.405	3.50	0	0	0	0	0	0	0	0	
Silver	BRL	0.0180	2.50	0	0	0	0	0	0	0	0	
Sodium	BRL	19.0	100	0	0	0	0	0	0	0	0	
Thallium	BRL	0.449	1.00	0	0	0	0	0	0	0	0	
Vanadium	BRL	0.156	5.00	0	0	0	0	0	0	0	0	
Zinc	BRL	0.775	5.00	0	0	0	0	0	0	0	0	

Sample ID: **CCB** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **CCB** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472521** Seq No: **10886380**
Analysis Date / Time: **Dec 14 2021 6:01PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	BRL	7.75	50.0	0	0	0	0	0	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472521

Sample ID: **CCB** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **CCB** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472521** Seq No: **10886380**
Analysis Date / Time: **Dec 14 2021 6:01PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.382	2.50	0	0	0	0	0	0	0	0	
Arsenic	BRL	0.492	2.50	0	0	0	0	0	0	0	0	
Barium	BRL	0.171	5.00	0	0	0	0	0	0	0	0	
Beryllium	BRL	0.167	2.50	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.104	2.50	0	0	0	0	0	0	0	0	
Calcium	BRL	5.19	50.0	0	0	0	0	0	0	0	0	
Chromium	BRL	0.174	2.50	0	0	0	0	0	0	0	0	
Cobalt	BRL	0.131	2.50	0	0	0	0	0	0	0	0	
Copper	BRL	0.156	2.50	0	0	0	0	0	0	0	0	
Iron	BRL	8.42	50.0	0	0	0	0	0	0	0	0	
Lead	BRL	0.449	5.00	0	0	0	0	0	0	0	0	
Magnesium	BRL	4.83	50.0	0	0	0	0	0	0	0	0	
Manganese	BRL	0.159	5.00	0	0	0	0	0	0	0	0	
Nickel	BRL	0.233	5.00	0	0	0	0	0	0	0	0	
Potassium	BRL	10.3	100	0	0	0	0	0	0	0	0	
Selenium	BRL	0.405	3.50	0	0	0	0	0	0	0	0	
Silver	BRL	0.0180	2.50	0	0	0	0	0	0	0	0	
Sodium	BRL	19.0	100	0	0	0	0	0	0	0	0	
Thallium	BRL	0.449	1.00	0	0	0	0	0	0	0	0	
Vanadium	BRL	0.156	5.00	0	0	0	0	0	0	0	0	
Zinc	BRL	0.775	5.00	0	0	0	0	0	0	0	0	

Sample ID: **CCB** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **CCB** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472521** Seq No: **10886392**
Analysis Date / Time: **Dec 14 2021 6:40PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	BRL	7.75	50.0	0	0	0	0	0	0	0	0	
Antimony	BRL	0.382	2.50	0	0	0	0	0	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472521

Sample ID: **CCB** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **CCB** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472521** Seq No: **10886392**
Analysis Date / Time: **Dec 14 2021 6:40PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.492	2.50	0	0	0	0	0	0	0	0	
Barium	BRL	0.171	5.00	0	0	0	0	0	0	0	0	
Beryllium	BRL	0.167	2.50	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.104	2.50	0	0	0	0	0	0	0	0	
Calcium	BRL	5.19	50.0	0	0	0	0	0	0	0	0	
Chromium	BRL	0.174	2.50	0	0	0	0	0	0	0	0	
Cobalt	BRL	0.131	2.50	0	0	0	0	0	0	0	0	
Copper	BRL	0.156	2.50	0	0	0	0	0	0	0	0	
Iron	BRL	8.42	50.0	0	0	0	0	0	0	0	0	
Lead	BRL	0.449	5.00	0	0	0	0	0	0	0	0	
Magnesium	BRL	4.83	50.0	0	0	0	0	0	0	0	0	
Manganese	BRL	0.159	5.00	0	0	0	0	0	0	0	0	
Nickel	BRL	0.233	5.00	0	0	0	0	0	0	0	0	
Potassium	BRL	10.3	100	0	0	0	0	0	0	0	0	
Selenium	BRL	0.405	3.50	0	0	0	0	0	0	0	0	
Silver	BRL	0.0180	2.50	0	0	0	0	0	0	0	0	
Sodium	BRL	19.0	100	0	0	0	0	0	0	0	0	
Thallium	BRL	0.449	1.00	0	0	0	0	0	0	0	0	
Vanadium	BRL	0.156	5.00	0	0	0	0	0	0	0	0	
Zinc	BRL	0.775	5.00	0	0	0	0	0	0	0	0	

Sample ID: **CCV** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **CCV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472521** Seq No: **10886367**
Analysis Date / Time: **Dec 14 2021 4:56PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	9.621	7.75	50.0	10.00	0	96.2	90	110	0	0	0	
Antimony	0.9838	0.382	2.50	1.000	0	98.4	90	110	0	0	0	
Arsenic	0.9865	0.492	2.50	1.000	0	98.6	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472521

Sample ID: **CCV** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **CCV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472521** Seq No: **10886367**
Analysis Date / Time: **Dec 14 2021 4:56PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Barium	0.9799	0.171	5.00	1.000	0	98.0	90	110	0	0	0	
Beryllium	0.9872	0.167	2.50	1.000	0	98.7	90	110	0	0	0	
Cadmium	0.9694	0.104	2.50	1.000	0	96.9	90	110	0	0	0	
Calcium	9.734	5.19	50.0	10.00	0	97.3	90	110	0	0	0	
Chromium	0.9807	0.174	2.50	1.000	0	98.1	90	110	0	0	0	
Cobalt	0.9830	0.131	2.50	1.000	0	98.3	90	110	0	0	0	
Copper	0.9588	0.156	2.50	1.000	0	95.9	90	110	0	0	0	
Iron	9.989	8.42	50.0	10.00	0	99.9	90	110	0	0	0	
Lead	0.9768	0.449	5.00	1.000	0	97.7	90	110	0	0	0	
Magnesium	9.748	4.83	50.0	10.00	0	97.5	90	110	0	0	0	
Manganese	0.9749	0.159	5.00	1.000	0	97.5	90	110	0	0	0	
Nickel	0.9808	0.233	5.00	1.000	0	98.1	90	110	0	0	0	
Potassium	BRL	10.3	100	10.00	0	94.7	90	110	0	0	0	
Selenium	0.9888	0.405	3.50	1.000	0	98.9	90	110	0	0	0	
Silver	0.09645	0.0180	2.50	0.1000	0	96.4	90	110	0	0	0	
Sodium	BRL	19.0	100	10.00	0	95.4	90	110	0	0	0	
Thallium	0.9664	0.449	1.00	1.000	0	96.6	90	110	0	0	0	
Vanadium	0.9629	0.156	5.00	1.000	0	96.3	90	110	0	0	0	
Zinc	0.9924	0.775	5.00	1.000	0	99.2	90	110	0	0	0	

Sample ID: **CCV** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **CCV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472521** Seq No: **10886379**
Analysis Date / Time: **Dec 14 2021 5:58PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	9.886	7.75	50.0	10.00	0	98.9	90	110	0	0	0	
Antimony	1.006	0.382	2.50	1.000	0	101	90	110	0	0	0	
Arsenic	1.024	0.492	2.50	1.000	0	102	90	110	0	0	0	
Barium	0.9962	0.171	5.00	1.000	0	99.6	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472521

Sample ID: **CCV** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **CCV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472521** Seq No: **10886379**
Analysis Date / Time: **Dec 14 2021 5:58PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Beryllium	1.007	0.167	2.50	1.000	0	101	90	110	0	0	0	
Cadmium	0.9936	0.104	2.50	1.000	0	99.4	90	110	0	0	0	
Calcium	9.941	5.19	50.0	10.00	0	99.4	90	110	0	0	0	
Chromium	1.008	0.174	2.50	1.000	0	101	90	110	0	0	0	
Cobalt	1.002	0.131	2.50	1.000	0	100	90	110	0	0	0	
Copper	0.9896	0.156	2.50	1.000	0	99.0	90	110	0	0	0	
Iron	10.45	8.42	50.0	10.00	0	104	90	110	0	0	0	
Lead	0.9934	0.449	5.00	1.000	0	99.3	90	110	0	0	0	
Magnesium	9.959	4.83	50.0	10.00	0	99.6	90	110	0	0	0	
Manganese	0.9951	0.159	5.00	1.000	0	99.5	90	110	0	0	0	
Nickel	1.002	0.233	5.00	1.000	0	100	90	110	0	0	0	
Potassium	BRL	10.3	100	10.00	0	97.1	90	110	0	0	0	
Selenium	1.005	0.405	3.50	1.000	0	101	90	110	0	0	0	
Silver	0.09849	0.0180	2.50	0.1000	0	98.5	90	110	0	0	0	
Sodium	BRL	19.0	100	10.00	0	98.2	90	110	0	0	0	
Thallium	0.9980	0.449	1.00	1.000	0	99.8	90	110	0	0	0	
Vanadium	0.9842	0.156	5.00	1.000	0	98.4	90	110	0	0	0	
Zinc	1.003	0.775	5.00	1.000	0	100	90	110	0	0	0	

Sample ID: **CCV** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **CCV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472521** Seq No: **10886391**
Analysis Date / Time: **Dec 14 2021 6:36PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	9.829	7.75	50.0	10.00	0	98.3	90	110	0	0	0	
Antimony	1.009	0.382	2.50	1.000	0	101	90	110	0	0	0	
Arsenic	1.023	0.492	2.50	1.000	0	102	90	110	0	0	0	
Barium	0.9911	0.171	5.00	1.000	0	99.1	90	110	0	0	0	
Beryllium	0.9959	0.167	2.50	1.000	0	99.6	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472521

Sample ID: **CCV** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **CCV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472521** Seq No: **10886391**
Analysis Date / Time: **Dec 14 2021 6:36PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cadmium	0.9808	0.104	2.50	1.000	0	98.1	90	110	0	0	0	
Calcium	9.854	5.19	50.0	10.00	0	98.5	90	110	0	0	0	
Chromium	1.002	0.174	2.50	1.000	0	100	90	110	0	0	0	
Cobalt	0.9937	0.131	2.50	1.000	0	99.4	90	110	0	0	0	
Copper	0.9809	0.156	2.50	1.000	0	98.1	90	110	0	0	0	
Iron	10.39	8.42	50.0	10.00	0	104	90	110	0	0	0	
Lead	0.9866	0.449	5.00	1.000	0	98.7	90	110	0	0	0	
Magnesium	9.882	4.83	50.0	10.00	0	98.8	90	110	0	0	0	
Manganese	0.9866	0.159	5.00	1.000	0	98.7	90	110	0	0	0	
Nickel	0.9875	0.233	5.00	1.000	0	98.8	90	110	0	0	0	
Potassium	BRL	10.3	100	10.00	0	96.4	90	110	0	0	0	
Selenium	1.004	0.405	3.50	1.000	0	100	90	110	0	0	0	
Silver	0.09786	0.0180	2.50	0.1000	0	97.9	90	110	0	0	0	
Sodium	BRL	19.0	100	10.00	0	97.9	90	110	0	0	0	
Thallium	0.9970	0.449	1.00	1.000	0	99.7	90	110	0	0	0	
Vanadium	0.9771	0.156	5.00	1.000	0	97.7	90	110	0	0	0	
Zinc	0.9980	0.775	5.00	1.000	0	99.8	90	110	0	0	0	

Sample ID: **CRI** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **CRI** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472521** Seq No: **10886357**
Analysis Date / Time: **Dec 14 2021 3:59PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	BRL	7.75	50.0	0.2000	0	91.8	80	120	0	0	0	
Antimony	BRL	0.382	2.50	0.0200	0	100	80	120	0	0	0	
Arsenic	BRL	0.492	2.50	0.0500	0	104	80	120	0	0	0	
Barium	BRL	0.171	5.00	0.0100	0	110	80	120	0	0	0	
Beryllium	BRL	0.167	2.50	0.0050	0	97.2	80	120	0	0	0	
Cadmium	BRL	0.104	2.50	0.0050	0	108	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472521

Sample ID: **CRI** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **CRI** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472521** Seq No: **10886357**
Analysis Date / Time: **Dec 14 2021 3:59PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Calcium	BRL	5.19	50.0	0.1000	0	95.1	80	120	0	0	0	
Chromium	BRL	0.174	2.50	0.0100	0	97.9	80	120	0	0	0	
Cobalt	BRL	0.131	2.50	0.0100	0	102	80	120	0	0	0	
Copper	BRL	0.156	2.50	0.0100	0	97.0	80	120	0	0	0	
Iron	BRL	8.42	50.0	0.1000	0	104	80	120	0	0	0	
Lead	BRL	0.449	5.00	0.0100	0	115	80	120	0	0	0	
Magnesium	BRL	4.83	50.0	0.1000	0	100	80	120	0	0	0	
Manganese	BRL	0.159	5.00	0.0050	0	103	80	120	0	0	0	
Nickel	BRL	0.233	5.00	0.0200	0	111	80	120	0	0	0	
Potassium	BRL	10.3	100	0.5000	0	94.0	80	120	0	0	0	
Selenium	BRL	0.405	3.50	0.0200	0	80.2	80	120	0	0	0	
Silver	BRL	0.0180	2.50	0.0050	0	92.6	80	120	0	0	0	
Sodium	BRL	19.0	100	1.000	0	82.0	80	120	0	0	0	
Thallium	BRL	0.449	1.00	0.0200	0	108	80	120	0	0	0	
Vanadium	BRL	0.156	5.00	0.0100	0	87.6	80	120	0	0	0	
Zinc	BRL	0.775	5.00	0.0200	0	94.6	80	120	0	0	0	

Sample ID: **CRI-MIDLEVEL** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **CCV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472521** Seq No: **10886360**
Analysis Date / Time: **Dec 14 2021 4:17PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	9.681	7.75	50.0	10.00	0	96.8	90	110	0	0	0	
Antimony	0.9856	0.382	2.50	1.000	0	98.6	90	110	0	0	0	
Arsenic	0.9904	0.492	2.50	1.000	0	99.0	90	110	0	0	0	
Barium	0.9755	0.171	5.00	1.000	0	97.5	90	110	0	0	0	
Beryllium	0.9782	0.167	2.50	1.000	0	97.8	90	110	0	0	0	
Cadmium	0.9725	0.104	2.50	1.000	0	97.2	90	110	0	0	0	
Calcium	9.720	5.19	50.0	10.00	0	97.2	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472521

Sample ID: **CRI-MIDLEVEL** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **CCV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472521** Seq No: **10886360**
Analysis Date / Time: **Dec 14 2021 4:17PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	0.9816	0.174	2.50	1.000	0	98.2	90	110	0	0	0	
Cobalt	0.9810	0.131	2.50	1.000	0	98.1	90	110	0	0	0	
Copper	0.9671	0.156	2.50	1.000	0	96.7	90	110	0	0	0	
Iron	9.991	8.42	50.0	10.00	0	99.9	90	110	0	0	0	
Lead	0.9771	0.449	5.00	1.000	0	97.7	90	110	0	0	0	
Magnesium	9.730	4.83	50.0	10.00	0	97.3	90	110	0	0	0	
Manganese	0.9739	0.159	5.00	1.000	0	97.4	90	110	0	0	0	
Nickel	0.9788	0.233	5.00	1.000	0	97.9	90	110	0	0	0	
Potassium	BRL	10.3	100	10.00	0	95.1	90	110	0	0	0	
Selenium	0.9837	0.405	3.50	1.000	0	98.4	90	110	0	0	0	
Silver	0.09664	0.0180	2.50	0.1000	0	96.6	90	110	0	0	0	
Sodium	BRL	19.0	100	10.00	0	96.4	90	110	0	0	0	
Thallium	0.9800	0.449	1.00	1.000	0	98.0	90	110	0	0	0	
Vanadium	0.9642	0.156	5.00	1.000	0	96.4	90	110	0	0	0	
Zinc	0.9824	0.775	5.00	1.000	0	98.2	90	110	0	0	0	

Sample ID: **ICB** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **ICB** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472521** Seq No: **10886353**
Analysis Date / Time: **Dec 14 2021 3:26PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	BRL	7.75	50.0	0	0	0	0	0	0	0	0	
Antimony	BRL	0.382	2.50	0	0	0	0	0	0	0	0	
Arsenic	BRL	0.492	2.50	0	0	0	0	0	0	0	0	
Barium	BRL	0.171	5.00	0	0	0	0	0	0	0	0	
Beryllium	BRL	0.167	2.50	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.104	2.50	0	0	0	0	0	0	0	0	
Calcium	BRL	5.19	50.0	0	0	0	0	0	0	0	0	
Chromium	BRL	0.174	2.50	0	0	0	0	0	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472521

Sample ID: **ICB** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **ICB** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R472521** Seq No: **10886353**
Analysis Date / Time: **Dec 14 2021 3:26PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cobalt	BRL	0.131	2.50	0	0	0	0	0	0	0	0	
Copper	BRL	0.156	2.50	0	0	0	0	0	0	0	0	
Iron	BRL	8.42	50.0	0	0	0	0	0	0	0	0	
Lead	BRL	0.449	5.00	0	0	0	0	0	0	0	0	
Magnesium	BRL	4.83	50.0	0	0	0	0	0	0	0	0	
Manganese	BRL	0.159	5.00	0	0	0	0	0	0	0	0	
Nickel	BRL	0.233	5.00	0	0	0	0	0	0	0	0	
Potassium	BRL	10.3	100	0	0	0	0	0	0	0	0	
Selenium	BRL	0.405	3.50	0	0	0	0	0	0	0	0	
Silver	BRL	0.0180	2.50	0	0	0	0	0	0	0	0	
Sodium	BRL	19.0	100	0	0	0	0	0	0	0	0	
Thallium	BRL	0.449	1.00	0	0	0	0	0	0	0	0	
Vanadium	BRL	0.156	5.00	0	0	0	0	0	0	0	0	
Zinc	BRL	0.775	5.00	0	0	0	0	0	0	0	0	

Sample ID: **ICSA** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **ICSA** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R472521** Seq No: **10886355**
Analysis Date / Time: **Dec 14 2021 3:46PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	242.5	7.75	50.0	250.0	0	97.0	80	120	0	0	0	
Antimony	BRL	0.382	2.50	0	0	0	80	120	0	0	0	
Arsenic	BRL	0.492	2.50	0	0	0	80	120	0	0	0	
Barium	BRL	0.171	5.00	0	0	0	80	120	0	0	0	
Beryllium	BRL	0.167	2.50	0	0	0	80	120	0	0	0	
Cadmium	BRL	0.104	2.50	0	0	0	80	120	0	0	0	
Calcium	225.2	5.19	50.0	250.0	0	90.1	80	120	0	0	0	E
Chromium	BRL	0.174	2.50	0	0	0	80	120	0	0	0	
Cobalt	BRL	0.131	2.50	0	0	0	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472521

Sample ID: **ICSA** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **ICSA** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472521** Seq No: **10886355**
Analysis Date / Time: **Dec 14 2021 3:46PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	BRL	0.156	2.50	0	0	0	80	120	0	0	0	
Iron	84.33	8.42	50.0	100.0	0	84.3	80	120	0	0	0	
Lead	BRL	0.449	5.00	0	0	0	80	120	0	0	0	
Magnesium	239.5	4.83	50.0	250.0	0	95.8	80	120	0	0	0	
Manganese	BRL	0.159	5.00	0	0	0	80	120	0	0	0	
Nickel	BRL	0.233	5.00	0	0	0	80	120	0	0	0	
Potassium	BRL	10.3	100	0	0	0	80	120	0	0	0	
Selenium	BRL	0.405	3.50	0	0	0	80	120	0	0	0	
Silver	BRL	0.0180	2.50	0	0	0	80	120	0	0	0	
Sodium	BRL	19.0	100	0	0	0	80	120	0	0	0	
Thallium	BRL	0.449	1.00	0	0	0	80	120	0	0	0	
Vanadium	BRL	0.156	5.00	0	0	0	80	120	0	0	0	
Zinc	BRL	0.775	5.00	0	0	0	80	120	0	0	0	

Sample ID: **ICSAB** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **ICSAB** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472521** Seq No: **10886356**
Analysis Date / Time: **Dec 14 2021 3:50PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	266.9	7.75	50.0	255.0	0	105	80	120	0	0	0	
Antimony	0.4939	0.382	2.50	0.5000	0	98.8	80	120	0	0	0	
Arsenic	BRL	0.492	2.50	0.5000	0	98.1	80	120	0	0	0	
Barium	0.4923	0.171	5.00	0.5000	0	98.5	80	120	0	0	0	
Beryllium	0.5022	0.167	2.50	0.5000	0	100	80	120	0	0	0	
Cadmium	0.5242	0.104	2.50	0.5000	0	105	80	120	0	0	0	
Calcium	247.7	5.19	50.0	255.0	0	97.1	80	120	0	0	0	E
Chromium	0.4896	0.174	2.50	0.5000	0	97.9	80	120	0	0	0	
Cobalt	0.4743	0.131	2.50	0.5000	0	94.9	80	120	0	0	0	
Copper	0.5431	0.156	2.50	0.5000	0	109	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472521

Sample ID: **ICSAB** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **ICSAB** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472521** Seq No: **10886356**
Analysis Date / Time: **Dec 14 2021 3:50PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	94.34	8.42	50.0	105.0	0	89.8	80	120	0	0	0	
Lead	0.4928	0.449	5.00	0.5000	0	98.6	80	120	0	0	0	
Magnesium	262.9	4.83	50.0	255.0	0	103	80	120	0	0	0	
Manganese	0.4925	0.159	5.00	0.5000	0	98.5	80	120	0	0	0	
Nickel	0.4772	0.233	5.00	0.5000	0	95.4	80	120	0	0	0	
Potassium	BRL	10.3	100	0	0	0	0	0	0	0	0	
Selenium	0.5013	0.405	3.50	0.5000	0	100	80	120	0	0	0	
Silver	0.05290	0.0180	2.50	0.0500	0	106	80	120	0	0	0	
Sodium	BRL	19.0	100	5.000	0	110	80	120	0	0	0	
Thallium	0.5457	0.449	1.00	0.5000	0	109	80	120	0	0	0	
Vanadium	0.4987	0.156	5.00	0.5000	0	99.7	80	120	0	0	0	
Zinc	BRL	0.775	5.00	0.5000	0	97.2	80	120	0	0	0	

Sample ID: **ICV** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **ICV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472521** Seq No: **10886352**
Analysis Date / Time: **Dec 14 2021 3:19PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	BRL	7.75	50.0	5.000	0	101	90	110	0	0	0	
Antimony	0.5244	0.382	2.50	0.5000	0	105	90	110	0	0	0	
Arsenic	0.5127	0.492	2.50	0.5000	0	103	90	110	0	0	0	
Barium	0.5206	0.171	5.00	0.5000	0	104	90	110	0	0	0	
Beryllium	0.5238	0.167	2.50	0.5000	0	105	90	110	0	0	0	
Cadmium	0.5117	0.104	2.50	0.5000	0	102	90	110	0	0	0	
Calcium	BRL	5.19	50.0	5.000	0	104	90	110	0	0	0	
Chromium	0.5209	0.174	2.50	0.5000	0	104	90	110	0	0	0	
Cobalt	0.5233	0.131	2.50	0.5000	0	105	90	110	0	0	0	
Copper	0.5124	0.156	2.50	0.5000	0	102	90	110	0	0	0	
Iron	BRL	8.42	50.0	5.000	0	107	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472521

Sample ID: **ICV** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **ICV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472521** Seq No: **10886352**
Analysis Date / Time: **Dec 14 2021 3:19PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	0.5169	0.449	5.00	0.5000	0	103	90	110	0	0	0	
Magnesium	5.154	4.83	50.0	5.000	0	103	90	110	0	0	0	
Manganese	0.5211	0.159	5.00	0.5000	0	104	90	110	0	0	0	
Nickel	0.5207	0.233	5.00	0.5000	0	104	90	110	0	0	0	
Potassium	BRL	10.3	100	5.000	0	100	90	110	0	0	0	
Selenium	0.5023	0.405	3.50	0.5000	0	100	90	110	0	0	0	
Silver	0.05078	0.0180	2.50	0.0500	0	102	90	110	0	0	0	
Sodium	BRL	19.0	100	5.000	0	103	90	110	0	0	0	
Thallium	0.5041	0.449	1.00	0.5000	0	101	90	110	0	0	0	
Vanadium	0.5069	0.156	5.00	0.5000	0	101	90	110	0	0	0	
Zinc	BRL	0.775	5.00	0.5000	0	105	90	110	0	0	0	

Sample ID: **LCR 1** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **CCV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472521** Seq No: **10886361**
Analysis Date / Time: **Dec 14 2021 4:21PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	197.9	7.75	50.0	200.0	0	98.9	90	110	0	0	0	
Antimony	19.08	0.382	2.50	20.00	0	95.4	90	110	0	0	0	
Arsenic	18.92	0.492	2.50	20.00	0	94.6	90	110	0	0	0	
Cadmium	18.58	0.104	2.50	20.00	0	92.9	90	110	0	0	0	
Calcium	180.0	5.19	50.0	200.0	0	90.0	90	110	0	0	0	
Copper	20.36	0.156	2.50	20.00	0	102	90	110	0	0	0	
Magnesium	186.5	4.83	50.0	200.0	0	93.3	90	110	0	0	0	
Potassium	201.9	10.3	100	200.0	0	101	90	110	0	0	0	
Selenium	18.47	0.405	3.50	20.00	0	92.4	90	110	0	0	0	
Silver	2.039	0.0180	2.50	2.000	0	102	90	110	0	0	0	
Sodium	191.9	19.0	100	200.0	0	96.0	90	110	0	0	0	
Thallium	20.44	0.449	1.00	20.00	0	102	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472521

Sample ID: **LCR 1** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **CCV** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R472521** Seq No: **10886361**
Analysis Date / Time: **Dec 14 2021 4:21PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Vanadium	18.52	0.156	5.00	20.00	0	92.6	90	110	0	0	0	

Sample ID: **LCR 2** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **CCV** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R472521** Seq No: **10886362**
Analysis Date / Time: **Dec 14 2021 4:28PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Barium	9.301	0.171	5.00	10.00	0	93.0	90	110	0	0	0	
Chromium	9.311	0.174	2.50	10.00	0	93.1	90	110	0	0	0	
Cobalt	9.260	0.131	2.50	10.00	0	92.6	90	110	0	0	0	
Manganese	9.171	0.159	5.00	10.00	0	91.7	90	110	0	0	0	
Nickel	9.247	0.233	5.00	10.00	0	92.5	90	110	0	0	0	
Zinc	9.202	0.775	5.00	10.00	0	92.0	90	110	0	0	0	

Sample ID: **LCR 3** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **CCV** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R472521** Seq No: **10886363**
Analysis Date / Time: **Dec 14 2021 4:35PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Beryllium	4.555	0.167	2.50	5.000	0	91.1	90	110	0	0	0	
Iron	45.04	8.42	50.0	50.00	0	90.1	90	110	0	0	0	

Sample ID: **LCR-Pb-Inhouse** Client ID: Units: **mg/Kg** Prep Date: Run No: **472521**
SampleType: **CCV** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R472521** Seq No: **10886364**
Analysis Date / Time: **Dec 14 2021 4:43PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	194.5	0.449	5.00	200.0	0	97.2	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472525

Sample ID: **bna60** Client ID: Units: **ug/L** Prep Date: Run No: **472525**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R472525** Seq No: **10883241**
Analysis Date / Time: **Dec 14 2021 10:53AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1´-Biphenyl	59.08	4.1	10	60.00	0	98.5	80	120	0	0	0	
2,4,5-Trichlorophenol	45.44	3.9	25	60.00	0	75.7	80	120	0	0	0	S
2,4,6-Trichlorophenol	49.91	3.4	10	60.00	0	83.2	80	120	0	0	0	
2,4-Dichlorophenol	57.84	3.6	10	60.00	0	96.4	80	120	0	0	0	
2,4-Dimethylphenol	55.64	3.8	10	60.00	0	92.7	80	120	0	0	0	
2,4-Dinitrophenol	38.47	8.8	25	60.00	0	64.1	80	120	0	0	0	S
2,4-Dinitrotoluene	59.27	6.0	10	60.00	0	98.8	80	120	0	0	0	
2,6-Dinitrotoluene	60.68	5.3	10	60.00	0	101	80	120	0	0	0	
2-Chloronaphthalene	57.91	3.0	10	60.00	0	96.5	80	120	0	0	0	
2-Chlorophenol	60.40	2.0	10	60.00	0	101	80	120	0	0	0	
2-Methylnaphthalene	58.75	3.0	10	60.00	0	97.9	80	120	0	0	0	
2-Methylphenol	57.55	3.1	10	60.00	0	95.9	80	120	0	0	0	
2-Nitroaniline	46.00	3.6	25	60.00	0	76.7	80	120	0	0	0	S
2-Nitrophenol	58.84	2.5	10	60.00	0	98.1	80	120	0	0	0	
3,3´-Dichlorobenzidine	53.10	3.7	10	60.00	0	88.5	80	120	0	0	0	
3-Nitroaniline	51.12	4.3	25	60.00	0	85.2	80	120	0	0	0	
4,6-Dinitro-2-methylphenol	35.73	14	25	60.00	0	59.6	80	120	0	0	0	S
4-Bromophenyl phenyl ether	55.73	3.9	10	60.00	0	92.9	80	120	0	0	0	
4-Chloro-3-methylphenol	54.54	4.0	10	60.00	0	90.9	80	120	0	0	0	
4-Chloroaniline	50.58	4.9	10	60.00	0	84.3	80	120	0	0	0	
4-Chlorophenyl phenyl ether	58.85	3.0	10	60.00	0	98.1	80	120	0	0	0	
4-Methylphenol	117.0	3.3	10	120.0	0	97.5	80	120	0	0	0	
4-Nitroaniline	51.95	5.1	25	60.00	0	86.6	80	120	0	0	0	
4-Nitrophenol	40.50	5.8	25	60.00	0	67.5	80	120	0	0	0	S
Acenaphthene	60.84	2.5	10	60.00	0	101	80	120	0	0	0	
Acenaphthylene	57.49	2.7	10	60.00	0	95.8	80	120	0	0	0	
Acetophenone	112.7	4.0	10	120.0	0	93.9	80	120	0	0	0	
Anthracene	56.23	2.9	10	60.00	0	93.7	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472525

Sample ID: **bna60** Client ID: Units: **ug/L** Prep Date: Run No: **472525**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R472525** Seq No: **10883241**
Analysis Date / Time: **Dec 14 2021 10:53AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Atrazine	49.73	5.8	10	60.00	0	82.9	80	120	0	0	0	
Benz(a)anthracene	56.91	2.8	10	60.00	0	94.8	80	120	0	0	0	
Benzaldehyde	59.53	6.8	10	60.00	0	99.2	80	120	0	0	0	
Benzo(a)pyrene	60.54	3.5	10	60.00	0	101	80	120	0	0	0	
Benzo(b)fluoranthene	50.81	3.8	10	60.00	0	84.7	80	120	0	0	0	
Benzo(g,h,i)perylene	58.54	4.2	10	60.00	0	97.6	80	120	0	0	0	
Benzo(k)fluoranthene	65.57	3.6	10	60.00	0	109	80	120	0	0	0	
Bis(2-chloroethoxy)methane	55.18	2.6	10	60.00	0	92.0	80	120	0	0	0	
Bis(2-chloroethyl)ether	54.87	2.4	10	60.00	0	91.4	80	120	0	0	0	
Bis(2-chloroisopropyl)ether	42.88	3.0	10	60.00	0	71.5	80	120	0	0	0	S
Bis(2-ethylhexyl)phthalate	59.05	4.4	10	60.00	0	98.4	80	120	0	0	0	
Butyl benzyl phthalate	59.18	3.4	10	60.00	0	98.6	80	120	0	0	0	
Caprolactam	62.20	5.0	10	60.00	0	104	80	120	0	0	0	
Carbazole	59.57	3.3	10	60.00	0	99.3	80	120	0	0	0	
Chrysene	57.12	2.7	10	60.00	0	95.2	80	120	0	0	0	
Di-n-butyl phthalate	59.80	3.3	10	60.00	0	99.7	80	120	0	0	0	
Di-n-octyl phthalate	60.58	9.3	10	60.00	0	101	80	120	0	0	0	
Dibenz(a,h)anthracene	60.37	4.5	10	60.00	0	101	80	120	0	0	0	
Dibenzofuran	58.84	2.7	10	60.00	0	98.1	80	120	0	0	0	
Diethyl phthalate	60.00	3.3	10	60.00	0	100	80	120	0	0	0	
Dimethyl phthalate	60.45	2.8	10	60.00	0	101	80	120	0	0	0	
Fluoranthene	58.26	3.0	10	60.00	0	97.1	80	120	0	0	0	
Fluorene	59.28	2.7	10	60.00	0	98.8	80	120	0	0	0	
Hexachlorobenzene	58.39	3.9	10	60.00	0	97.3	80	120	0	0	0	
Hexachlorobutadiene	56.58	4.2	10	60.00	0	94.3	80	120	0	0	0	
Hexachlorocyclopentadiene	51.10	8.4	10	60.00	0	85.2	80	120	0	0	0	
Hexachloroethane	56.77	3.1	10	60.00	0	94.6	80	120	0	0	0	
Indeno(1,2,3-cd)pyrene	58.48	4.2	10	60.00	0	97.5	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472525

Sample ID: **bna60** Client ID: Units: **ug/L** Prep Date: Run No: **472525**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R472525** Seq No: **10883241**
Analysis Date / Time: **Dec 14 2021 10:53AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Isophorone	54.89	3.5	10	60.00	0	91.5	80	120	0	0	0	
N-Nitrosodi-n-propylamine	55.71	2.5	10	60.00	0	92.8	80	120	0	0	0	
N-Nitrosodiphenylamine	56.04	2.4	10	60.00	0	93.4	80	120	0	0	0	
Naphthalene	59.70	2.1	10	60.00	0	99.5	80	120	0	0	0	
Nitrobenzene	56.42	2.5	10	60.00	0	94.0	80	120	0	0	0	
Pentachlorophenol	34.12	6.4	25	60.00	0	56.9	80	120	0	0	0	S
Phenanthrene	56.36	2.9	10	60.00	0	93.9	80	120	0	0	0	
Phenol	52.35	2.9	10	60.00	0	87.2	80	120	0	0	0	
Pyrene	57.55	2.9	10	60.00	0	95.9	80	120	0	0	0	
Surr: 2,4,6-Tribromophenol	50.35	0	0	60.00	0	83.9	80	120	0	0	0	
Surr: 2-Fluorobiphenyl	59.30	0	0	60.00	0	98.8	80	120	0	0	0	
Surr: 2-Fluorophenol	52.33	0	0	60.00	0	87.2	80	120	0	0	0	
Surr: 4-Terphenyl-d14	56.31	0	0	60.00	0	93.8	80	120	0	0	0	
Surr: Nitrobenzene-d5	54.35	0	0	60.00	0	90.6	80	120	0	0	0	
Surr: Phenol-d5	58.58	0	0	60.00	0	97.6	80	120	0	0	0	

Sample ID: **bna60** Client ID: Units: **ug/L** Prep Date: Run No: **472525**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R472525** Seq No: **10885198**
Analysis Date / Time: **Dec 14 2021 4:54PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1´-Biphenyl	57.90	4.1	10	60.00	0	96.5	80	120	0	0	0	
2,4,5-Trichlorophenol	52.93	3.9	25	60.00	0	88.2	80	120	0	0	0	
2,4,6-Trichlorophenol	51.66	3.4	10	60.00	0	86.1	80	120	0	0	0	
2,4-Dichlorophenol	55.93	3.6	10	60.00	0	93.2	80	120	0	0	0	
2,4-Dimethylphenol	55.60	3.8	10	60.00	0	92.7	80	120	0	0	0	
2,4-Dinitrophenol	48.36	8.8	25	60.00	0	80.6	80	120	0	0	0	
2,4-Dinitrotoluene	59.88	6.0	10	60.00	0	99.8	80	120	0	0	0	
2,6-Dinitrotoluene	59.87	5.3	10	60.00	0	99.8	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472525

Sample ID: **bna60** Client ID: Units: **ug/L** Prep Date: Run No: **472525**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R472525** Seq No: **10885198**
Analysis Date / Time: **Dec 14 2021 4:54PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2-Chloronaphthalene	57.63	3.0	10	60.00	0	96.0	80	120	0	0	0	
2-Chlorophenol	60.05	2.0	10	60.00	0	100	80	120	0	0	0	
2-Methylnaphthalene	59.81	3.0	10	60.00	0	99.7	80	120	0	0	0	
2-Methylphenol	57.72	3.1	10	60.00	0	96.2	80	120	0	0	0	
2-Nitroaniline	48.09	3.6	25	60.00	0	80.2	80	120	0	0	0	
2-Nitrophenol	58.14	2.5	10	60.00	0	96.9	80	120	0	0	0	
3,3´-Dichlorobenzidine	56.33	3.7	10	60.00	0	93.9	80	120	0	0	0	
3-Nitroaniline	50.40	4.3	25	60.00	0	84.0	80	120	0	0	0	
4,6-Dinitro-2-methylphenol	38.71	14	25	60.00	0	64.5	80	120	0	0	0	S
4-Bromophenyl phenyl ether	54.90	3.9	10	60.00	0	91.5	80	120	0	0	0	
4-Chloro-3-methylphenol	52.54	4.0	10	60.00	0	87.6	80	120	0	0	0	
4-Chloroaniline	49.60	4.9	10	60.00	0	82.7	80	120	0	0	0	
4-Chlorophenyl phenyl ether	57.95	3.0	10	60.00	0	96.6	80	120	0	0	0	
4-Methylphenol	115.1	3.3	10	120.0	0	96.0	80	120	0	0	0	
4-Nitroaniline	52.54	5.1	25	60.00	0	87.6	80	120	0	0	0	
4-Nitrophenol	42.68	5.8	25	60.00	0	71.1	80	120	0	0	0	S
Acenaphthene	57.83	2.5	10	60.00	0	96.4	80	120	0	0	0	
Acenaphthylene	56.81	2.7	10	60.00	0	94.7	80	120	0	0	0	
Acetophenone	112.3	4.0	10	120.0	0	93.6	80	120	0	0	0	
Anthracene	55.35	2.9	10	60.00	0	92.2	80	120	0	0	0	
Atrazine	50.06	5.8	10	60.00	0	83.4	80	120	0	0	0	
Benz(a)anthracene	58.16	2.8	10	60.00	0	96.9	80	120	0	0	0	
Benzaldehyde	62.07	6.8	10	60.00	0	103	80	120	0	0	0	
Benzo(a)pyrene	58.99	3.5	10	60.00	0	98.3	80	120	0	0	0	
Benzo(b)fluoranthene	50.41	3.8	10	60.00	0	84.0	80	120	0	0	0	
Benzo(g,h,i)perylene	56.41	4.2	10	60.00	0	94.0	80	120	0	0	0	
Benzo(k)fluoranthene	62.37	3.6	10	60.00	0	104	80	120	0	0	0	
Bis(2-chloroethoxy)methane	52.55	2.6	10	60.00	0	87.6	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472525

Sample ID: **bna60** Client ID: Units: **ug/L** Prep Date: Run No: **472525**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R472525** Seq No: **10885198**
Analysis Date / Time: **Dec 14 2021 4:54PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bis(2-chloroethyl)ether	54.11	2.4	10	60.00	0	90.2	80	120	0	0	0	
Bis(2-chloroisopropyl)ether	43.59	3.0	10	60.00	0	72.6	80	120	0	0	0	S
Bis(2-ethylhexyl)phthalate	61.73	4.4	10	60.00	0	103	80	120	0	0	0	
Butyl benzyl phthalate	60.95	3.4	10	60.00	0	102	80	120	0	0	0	
Caprolactam	63.30	5.0	10	60.00	0	106	80	120	0	0	0	
Carbazole	60.86	3.3	10	60.00	0	101	80	120	0	0	0	
Chrysene	56.43	2.7	10	60.00	0	94.0	80	120	0	0	0	
Di-n-butyl phthalate	59.13	3.3	10	60.00	0	98.6	80	120	0	0	0	
Di-n-octyl phthalate	63.12	9.3	10	60.00	0	105	80	120	0	0	0	
Dibenz(a,h)anthracene	59.47	4.5	10	60.00	0	99.1	80	120	0	0	0	
Dibenzofuran	57.73	2.7	10	60.00	0	96.2	80	120	0	0	0	
Diethyl phthalate	58.68	3.3	10	60.00	0	97.8	80	120	0	0	0	
Dimethyl phthalate	58.59	2.8	10	60.00	0	97.6	80	120	0	0	0	
Fluoranthene	58.33	3.0	10	60.00	0	97.2	80	120	0	0	0	
Fluorene	58.61	2.7	10	60.00	0	97.7	80	120	0	0	0	
Hexachlorobenzene	58.03	3.9	10	60.00	0	96.7	80	120	0	0	0	
Hexachlorobutadiene	56.00	4.2	10	60.00	0	93.3	80	120	0	0	0	
Hexachlorocyclopentadiene	30.34	8.4	10	60.00	0	50.6	80	120	0	0	0	S
Hexachloroethane	54.98	3.1	10	60.00	0	91.6	80	120	0	0	0	
Indeno(1,2,3-cd)pyrene	58.20	4.2	10	60.00	0	97.0	80	120	0	0	0	
Isophorone	55.34	3.5	10	60.00	0	92.2	80	120	0	0	0	
N-Nitrosodi-n-propylamine	55.33	2.5	10	60.00	0	92.2	80	120	0	0	0	
N-Nitrosodiphenylamine	55.33	2.4	10	60.00	0	92.2	80	120	0	0	0	
Naphthalene	59.65	2.1	10	60.00	0	99.4	80	120	0	0	0	
Nitrobenzene	57.09	2.5	10	60.00	0	95.2	80	120	0	0	0	
Pentachlorophenol	30.48	6.4	25	60.00	0	50.8	80	120	0	0	0	S
Phenanthrene	55.32	2.9	10	60.00	0	92.2	80	120	0	0	0	
Phenol	50.66	2.9	10	60.00	0	84.4	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472525

Sample ID: **bna60** Client ID: Units: **ug/L** Prep Date: Run No: **472525**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R472525** Seq No: **10885198**
Analysis Date / Time: **Dec 14 2021 4:54PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Pyrene	60.05	2.9	10	60.00	0	100	80	120	0	0	0	
Surr: 2,4,6-Tribromophenol	49.80	0	0	60.00	0	83.0	80	120	0	0	0	
Surr: 2-Fluorobiphenyl	57.73	0	0	60.00	0	96.2	80	120	0	0	0	
Surr: 2-Fluorophenol	54.38	0	0	60.00	0	90.6	80	120	0	0	0	
Surr: 4-Terphenyl-d14	56.52	0	0	60.00	0	94.2	80	120	0	0	0	
Surr: Nitrobenzene-d5	54.97	0	0	60.00	0	91.6	80	120	0	0	0	
Surr: Phenol-d5	58.23	0	0	60.00	0	97.0	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472526

Sample ID: **bna60** Client ID: Units: **ug/Kg** Prep Date: Run No: **472526**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R472526** Seq No: **10883245**
Analysis Date / Time: **Dec 14 2021 10:53AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1´-Biphenyl	BRL	120	330	60.00	0	98.5	80	120	0	0	0	
2,4,5-Trichlorophenol	BRL	71	1700	60.00	0	75.7	80	120	0	0	0	S
2,4,6-Trichlorophenol	BRL	70	330	60.00	0	83.2	80	120	0	0	0	
2,4-Dichlorophenol	BRL	74	330	60.00	0	96.4	80	120	0	0	0	
2,4-Dimethylphenol	BRL	80	330	60.00	0	92.7	80	120	0	0	0	
2,4-Dinitrophenol	BRL	940	1700	60.00	0	64.1	80	120	0	0	0	S
2,4-Dinitrotoluene	BRL	220	330	60.00	0	98.8	80	120	0	0	0	
2,6-Dinitrotoluene	BRL	170	330	60.00	0	101	80	120	0	0	0	
2-Chloronaphthalene	BRL	86	330	60.00	0	96.5	80	120	0	0	0	
2-Chlorophenol	60.40	57	330	60.00	0	101	80	120	0	0	0	
2-Methylnaphthalene	BRL	60	330	60.00	0	97.9	80	120	0	0	0	
2-Methylphenol	BRL	63	330	60.00	0	95.9	80	120	0	0	0	
2-Nitroaniline	BRL	98	1700	60.00	0	76.7	80	120	0	0	0	S
2-Nitrophenol	BRL	91	330	60.00	0	98.1	80	120	0	0	0	
3,3´-Dichlorobenzidine	BRL	97	670	60.00	0	88.5	80	120	0	0	0	
3-Nitroaniline	BRL	76	1700	60.00	0	85.2	80	120	0	0	0	
4,6-Dinitro-2-methylphenol	BRL	830	1700	60.00	0	59.6	80	120	0	0	0	S
4-Bromophenyl phenyl ether	BRL	82	330	60.00	0	92.9	80	120	0	0	0	
4-Chloro-3-methylphenol	BRL	70	330	60.00	0	90.9	80	120	0	0	0	
4-Chloroaniline	BRL	96	330	60.00	0	84.3	80	120	0	0	0	
4-Chlorophenyl phenyl ether	BRL	72	330	60.00	0	98.1	80	120	0	0	0	
4-Methylphenol	117.0	83	330	120.0	0	97.5	80	120	0	0	0	
4-Nitroaniline	BRL	100	1700	60.00	0	86.6	80	120	0	0	0	
4-Nitrophenol	BRL	180	1700	60.00	0	67.5	80	120	0	0	0	S
Acenaphthene	60.84	48	330	60.00	0	101	80	120	0	0	0	
Acenaphthylene	BRL	250	330	60.00	0	95.8	80	120	0	0	0	
Acetophenone	BRL	160	330	120.0	0	93.9	80	120	0	0	0	
Anthracene	BRL	130	330	60.00	0	93.7	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472526

Sample ID: **bna60** Client ID: Units: **ug/Kg** Prep Date: Run No: **472526**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R472526** Seq No: **10883245**
Analysis Date / Time: **Dec 14 2021 10:53AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Atrazine	BRL	200	330	60.00	0	82.9	80	120	0	0	0	
Benz(a)anthracene	BRL	62	330	60.00	0	94.8	80	120	0	0	0	
Benzaldehyde	BRL	230	330	60.00	0	99.2	80	120	0	0	0	
Benzo(a)pyrene	BRL	100	330	60.00	0	101	80	120	0	0	0	
Benzo(b)fluoranthene	BRL	110	330	60.00	0	84.7	80	120	0	0	0	
Benzo(g,h,i)perylene	BRL	310	330	60.00	0	97.6	80	120	0	0	0	
Benzo(k)fluoranthene	BRL	130	330	60.00	0	109	80	120	0	0	0	
Bis(2-chloroethoxy)methane	BRL	70	330	60.00	0	92.0	80	120	0	0	0	
Bis(2-chloroethyl)ether	BRL	78	330	60.00	0	91.4	80	120	0	0	0	
Bis(2-chloroisopropyl)ether	BRL	98	330	60.00	0	71.5	80	120	0	0	0	S
Bis(2-ethylhexyl)phthalate	BRL	72	330	60.00	0	98.4	80	120	0	0	0	
Butyl benzyl phthalate	BRL	62	330	60.00	0	98.6	80	120	0	0	0	
Caprolactam	BRL	130	330	60.00	0	104	80	120	0	0	0	
Carbazole	BRL	150	330	60.00	0	99.3	80	120	0	0	0	
Chrysene	BRL	68	330	60.00	0	95.2	80	120	0	0	0	
Di-n-butyl phthalate	BRL	270	330	60.00	0	99.7	80	120	0	0	0	
Di-n-octyl phthalate	BRL	280	330	60.00	0	101	80	120	0	0	0	
Dibenz(a,h)anthracene	BRL	120	330	60.00	0	101	80	120	0	0	0	
Dibenzofuran	BRL	59	330	60.00	0	98.1	80	120	0	0	0	
Diethyl phthalate	60.00	59	330	60.00	0	100	80	120	0	0	0	
Dimethyl phthalate	60.45	48	330	60.00	0	101	80	120	0	0	0	
Fluoranthene	BRL	73	330	60.00	0	97.1	80	120	0	0	0	
Fluorene	BRL	95	330	60.00	0	98.8	80	120	0	0	0	
Hexachlorobenzene	BRL	94	330	60.00	0	97.3	80	120	0	0	0	
Hexachlorobutadiene	BRL	89	330	60.00	0	94.3	80	120	0	0	0	
Hexachlorocyclopentadiene	BRL	630	660	60.00	0	85.2	80	120	0	0	0	
Hexachloroethane	BRL	87	330	60.00	0	94.6	80	120	0	0	0	
Indeno(1,2,3-cd)pyrene	BRL	140	330	60.00	0	97.5	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472526

Sample ID: **bna60** Client ID: Units: **ug/Kg** Prep Date: Run No: **472526**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R472526** Seq No: **10883245**
Analysis Date / Time: **Dec 14 2021 10:53AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Isophorone	BRL	110	330	60.00	0	91.5	80	120	0	0	0	
N-Nitrosodi-n-propylamine	BRL	73	330	60.00	0	92.8	80	120	0	0	0	
N-Nitrosodiphenylamine	56.04	47	330	60.00	0	93.4	80	120	0	0	0	
Naphthalene	59.70	53	330	60.00	0	99.5	80	120	0	0	0	
Nitrobenzene	BRL	64	330	60.00	0	94.0	80	120	0	0	0	
Pentachlorophenol	BRL	200	1700	60.00	0	56.9	80	120	0	0	0	S
Phenanthrene	BRL	63	330	60.00	0	93.9	80	120	0	0	0	
Phenol	BRL	60	330	60.00	0	87.2	80	120	0	0	0	
Pyrene	BRL	130	330	60.00	0	95.9	80	120	0	0	0	
Surr: 2,4,6-Tribromophenol	50.35	0	0	60.00	0	83.9	80	120	0	0	0	
Surr: 2-Fluorobiphenyl	59.30	0	0	60.00	0	98.8	80	120	0	0	0	
Surr: 2-Fluorophenol	52.33	0	0	60.00	0	87.2	80	120	0	0	0	
Surr: 4-Terphenyl-d14	56.31	0	0	60.00	0	93.8	80	120	0	0	0	
Surr: Nitrobenzene-d5	54.35	0	0	60.00	0	90.6	80	120	0	0	0	
Surr: Phenol-d5	58.58	0	0	60.00	0	97.6	80	120	0	0	0	

Sample ID: **bna60** Client ID: Units: **ug/Kg** Prep Date: Run No: **472526**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R472526** Seq No: **10886206**
Analysis Date / Time: **Dec 14 2021 4:54PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1´-Biphenyl	BRL	120	330	60.00	0	96.5	80	120	0	0	0	
2,4,5-Trichlorophenol	BRL	71	1700	60.00	0	88.2	80	120	0	0	0	
2,4,6-Trichlorophenol	BRL	70	330	60.00	0	86.1	80	120	0	0	0	
2,4-Dichlorophenol	BRL	74	330	60.00	0	93.2	80	120	0	0	0	
2,4-Dimethylphenol	BRL	80	330	60.00	0	92.7	80	120	0	0	0	
2,4-Dinitrophenol	BRL	940	1700	60.00	0	80.6	80	120	0	0	0	
2,4-Dinitrotoluene	BRL	220	330	60.00	0	99.8	80	120	0	0	0	
2,6-Dinitrotoluene	BRL	170	330	60.00	0	99.8	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472526

Sample ID: **bna60** Client ID: Units: **ug/Kg** Prep Date: Run No: **472526**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R472526** Seq No: **10886206**
Analysis Date / Time: **Dec 14 2021 4:54PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2-Chloronaphthalene	BRL	86	330	60.00	0	96.0	80	120	0	0	0	
2-Chlorophenol	60.05	57	330	60.00	0	100	80	120	0	0	0	
2-Methylnaphthalene	BRL	60	330	60.00	0	99.7	80	120	0	0	0	
2-Methylphenol	BRL	63	330	60.00	0	96.2	80	120	0	0	0	
2-Nitroaniline	BRL	98	1700	60.00	0	80.2	80	120	0	0	0	
2-Nitrophenol	BRL	91	330	60.00	0	96.9	80	120	0	0	0	
3,3´-Dichlorobenzidine	BRL	97	670	60.00	0	93.9	80	120	0	0	0	
3-Nitroaniline	BRL	76	1700	60.00	0	84.0	80	120	0	0	0	
4,6-Dinitro-2-methylphenol	BRL	830	1700	60.00	0	64.5	80	120	0	0	0	S
4-Bromophenyl phenyl ether	BRL	82	330	60.00	0	91.5	80	120	0	0	0	
4-Chloro-3-methylphenol	BRL	70	330	60.00	0	87.6	80	120	0	0	0	
4-Chloroaniline	BRL	96	330	60.00	0	82.7	80	120	0	0	0	
4-Chlorophenyl phenyl ether	BRL	72	330	60.00	0	96.6	80	120	0	0	0	
4-Methylphenol	115.1	83	330	120.0	0	96.0	80	120	0	0	0	
4-Nitroaniline	BRL	100	1700	60.00	0	87.6	80	120	0	0	0	
4-Nitrophenol	BRL	180	1700	60.00	0	71.1	80	120	0	0	0	S
Acenaphthene	57.83	48	330	60.00	0	96.4	80	120	0	0	0	
Acenaphthylene	BRL	250	330	60.00	0	94.7	80	120	0	0	0	
Acetophenone	BRL	160	330	120.0	0	93.6	80	120	0	0	0	
Anthracene	BRL	130	330	60.00	0	92.2	80	120	0	0	0	
Atrazine	BRL	200	330	60.00	0	83.4	80	120	0	0	0	
Benz(a)anthracene	BRL	62	330	60.00	0	96.9	80	120	0	0	0	
Benzaldehyde	BRL	230	330	60.00	0	103	80	120	0	0	0	
Benzo(a)pyrene	BRL	100	330	60.00	0	98.3	80	120	0	0	0	
Benzo(b)fluoranthene	BRL	110	330	60.00	0	84.0	80	120	0	0	0	
Benzo(g,h,i)perylene	BRL	310	330	60.00	0	94.0	80	120	0	0	0	
Benzo(k)fluoranthene	BRL	130	330	60.00	0	104	80	120	0	0	0	
Bis(2-chloroethoxy)methane	BRL	70	330	60.00	0	87.6	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472526

Sample ID: **bna60** Client ID: Units: **ug/Kg** Prep Date: Run No: **472526**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R472526** Seq No: **10886206**
Analysis Date / Time: **Dec 14 2021 4:54PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bis(2-chloroethyl)ether	BRL	78	330	60.00	0	90.2	80	120	0	0	0	
Bis(2-chloroisopropyl)ether	BRL	98	330	60.00	0	72.6	80	120	0	0	0	S
Bis(2-ethylhexyl)phthalate	BRL	72	330	60.00	0	103	80	120	0	0	0	
Butyl benzyl phthalate	BRL	62	330	60.00	0	102	80	120	0	0	0	
Caprolactam	BRL	130	330	60.00	0	106	80	120	0	0	0	
Carbazole	BRL	150	330	60.00	0	101	80	120	0	0	0	
Chrysene	BRL	68	330	60.00	0	94.0	80	120	0	0	0	
Di-n-butyl phthalate	BRL	270	330	60.00	0	98.6	80	120	0	0	0	
Di-n-octyl phthalate	BRL	280	330	60.00	0	105	80	120	0	0	0	
Dibenz(a,h)anthracene	BRL	120	330	60.00	0	99.1	80	120	0	0	0	
Dibenzofuran	BRL	59	330	60.00	0	96.2	80	120	0	0	0	
Diethyl phthalate	58.68	59	330	60.00	0	97.8	80	120	0	0	0	
Dimethyl phthalate	58.59	48	330	60.00	0	97.6	80	120	0	0	0	
Fluoranthene	BRL	73	330	60.00	0	97.2	80	120	0	0	0	
Fluorene	BRL	95	330	60.00	0	97.7	80	120	0	0	0	
Hexachlorobenzene	BRL	94	330	60.00	0	96.7	80	120	0	0	0	
Hexachlorobutadiene	BRL	89	330	60.00	0	93.3	80	120	0	0	0	
Hexachlorocyclopentadiene	BRL	630	660	60.00	0	50.6	80	120	0	0	0	S
Hexachloroethane	BRL	87	330	60.00	0	91.6	80	120	0	0	0	
Indeno(1,2,3-cd)pyrene	BRL	140	330	60.00	0	97.0	80	120	0	0	0	
Isophorone	BRL	110	330	60.00	0	92.2	80	120	0	0	0	
N-Nitrosodi-n-propylamine	BRL	73	330	60.00	0	92.2	80	120	0	0	0	
N-Nitrosodiphenylamine	55.33	47	330	60.00	0	92.2	80	120	0	0	0	
Naphthalene	59.65	53	330	60.00	0	99.4	80	120	0	0	0	
Nitrobenzene	BRL	64	330	60.00	0	95.2	80	120	0	0	0	
Pentachlorophenol	BRL	200	1700	60.00	0	50.8	80	120	0	0	0	S
Phenanthrene	BRL	63	330	60.00	0	92.2	80	120	0	0	0	
Phenol	BRL	60	330	60.00	0	84.4	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472526

Sample ID: **bna60** Client ID: Units: **ug/Kg** Prep Date: Run No: **472526**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R472526** Seq No: **10886206**
Analysis Date / Time: **Dec 14 2021 4:54PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Pyrene	BRL	130	330	60.00	0	100	80	120	0	0	0	
Surr: 2,4,6-Tribromophenol	49.80	0	0	60.00	0	83.0	80	120	0	0	0	
Surr: 2-Fluorobiphenyl	57.73	0	0	60.00	0	96.2	80	120	0	0	0	
Surr: 2-Fluorophenol	54.38	0	0	60.00	0	90.6	80	120	0	0	0	
Surr: 4-Terphenyl-d14	56.52	0	0	60.00	0	94.2	80	120	0	0	0	
Surr: Nitrobenzene-d5	54.97	0	0	60.00	0	91.6	80	120	0	0	0	
Surr: Phenol-d5	58.23	0	0	60.00	0	97.0	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472534

Sample ID: **BNA60** Client ID: Units: **ug/L** Prep Date: Run No: **472534**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R472534** Seq No: **10883679**
Analysis Date / Time: **Dec 14 2021 9:52AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1´-Biphenyl	64.94	4.1	10	60.00	0	108	80	120	0	0	0	
2,4,5-Trichlorophenol	60.31	3.9	25	60.00	0	101	80	120	0	0	0	
2,4,6-Trichlorophenol	59.56	3.4	10	60.00	0	99.3	80	120	0	0	0	
2,4-Dichlorophenol	64.77	3.6	10	60.00	0	108	80	120	0	0	0	
2,4-Dimethylphenol	65.85	3.8	10	60.00	0	110	80	120	0	0	0	
2,4-Dinitrophenol	33.51	8.8	25	60.00	0	55.8	80	120	0	0	0	S
2,4-Dinitrotoluene	71.84	6.0	10	60.00	0	120	80	120	0	0	0	
2,6-Dinitrotoluene	72.50	5.3	10	60.00	0	121	80	120	0	0	0	S
2-Chloronaphthalene	63.29	3.0	10	60.00	0	105	80	120	0	0	0	
2-Chlorophenol	66.65	2.0	10	60.00	0	111	80	120	0	0	0	
2-Methylnaphthalene	66.14	3.0	10	60.00	0	110	80	120	0	0	0	
2-Methylphenol	69.51	3.1	10	60.00	0	116	80	120	0	0	0	
2-Nitroaniline	77.36	3.6	25	60.00	0	129	80	120	0	0	0	S
2-Nitrophenol	76.79	2.5	10	60.00	0	128	80	120	0	0	0	S
3,3´-Dichlorobenzidine	64.81	3.7	10	60.00	0	108	80	120	0	0	0	
3-Nitroaniline	69.74	4.3	25	60.00	0	116	80	120	0	0	0	
4,6-Dinitro-2-methylphenol	62.88	14	25	60.00	0	105	80	120	0	0	0	
4-Bromophenyl phenyl ether	63.80	3.9	10	60.00	0	106	80	120	0	0	0	
4-Chloro-3-methylphenol	66.92	4.0	10	60.00	0	112	80	120	0	0	0	
4-Chloroaniline	64.61	4.9	10	60.00	0	108	80	120	0	0	0	
4-Chlorophenyl phenyl ether	64.50	3.0	10	60.00	0	108	80	120	0	0	0	
4-Methylphenol	137.2	3.3	10	120.0	0	114	80	120	0	0	0	
4-Nitroaniline	68.40	5.1	25	60.00	0	114	80	120	0	0	0	
4-Nitrophenol	53.92	5.8	25	60.00	0	89.9	80	120	0	0	0	
Acenaphthene	63.37	2.5	10	60.00	0	106	80	120	0	0	0	
Acenaphthylene	62.61	2.7	10	60.00	0	104	80	120	0	0	0	
Acetophenone	131.8	4.0	10	120.0	0	110	80	120	0	0	0	
Anthracene	64.85	2.9	10	60.00	0	108	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472534

Sample ID: **BNA60** Client ID: Units: **ug/L** Prep Date: Run No: **472534**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R472534** Seq No: **10883679**
Analysis Date / Time: **Dec 14 2021 9:52AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Atrazine	67.33	5.8	10	60.00	0	112	80	120	0	0	0	
Benz(a)anthracene	60.80	2.8	10	60.00	0	101	80	120	0	0	0	
Benzaldehyde	64.74	6.8	10	60.00	0	108	80	120	0	0	0	
Benzo(a)pyrene	57.28	3.5	10	60.00	0	95.5	80	120	0	0	0	
Benzo(b)fluoranthene	53.48	3.8	10	60.00	0	89.1	80	120	0	0	0	
Benzo(g,h,i)perylene	57.19	4.2	10	60.00	0	95.3	80	120	0	0	0	
Benzo(k)fluoranthene	56.86	3.6	10	60.00	0	94.8	80	120	0	0	0	
Bis(2-chloroethoxy)methane	65.57	2.6	10	60.00	0	109	80	120	0	0	0	
Bis(2-chloroethyl)ether	63.85	2.4	10	60.00	0	106	80	120	0	0	0	
Bis(2-chloroisopropyl)ether	73.18	3.0	10	60.00	0	122	80	120	0	0	0	S
Bis(2-ethylhexyl)phthalate	71.54	4.4	10	60.00	0	119	80	120	0	0	0	
Butyl benzyl phthalate	65.99	3.4	10	60.00	0	110	80	120	0	0	0	
Caprolactam	66.70	5.0	10	60.00	0	111	80	120	0	0	0	
Carbazole	69.20	3.3	10	60.00	0	115	80	120	0	0	0	
Chrysene	58.35	2.7	10	60.00	0	97.2	80	120	0	0	0	
Di-n-butyl phthalate	68.59	3.3	10	60.00	0	114	80	120	0	0	0	
Di-n-octyl phthalate	75.35	9.3	10	60.00	0	126	80	120	0	0	0	S
Dibenz(a,h)anthracene	58.32	4.5	10	60.00	0	97.2	80	120	0	0	0	
Dibenzofuran	63.17	2.7	10	60.00	0	105	80	120	0	0	0	
Diethyl phthalate	65.37	3.3	10	60.00	0	109	80	120	0	0	0	
Dimethyl phthalate	63.64	2.8	10	60.00	0	106	80	120	0	0	0	
Fluoranthene	65.45	3.0	10	60.00	0	109	80	120	0	0	0	
Fluorene	63.75	2.7	10	60.00	0	106	80	120	0	0	0	
Hexachlorobenzene	64.88	3.9	10	60.00	0	108	80	120	0	0	0	
Hexachlorobutadiene	64.75	4.2	10	60.00	0	108	80	120	0	0	0	
Hexachlorocyclopentadiene	44.47	8.4	10	60.00	0	74.1	80	120	0	0	0	S
Hexachloroethane	69.03	3.1	10	60.00	0	115	80	120	0	0	0	
Indeno(1,2,3-cd)pyrene	62.34	4.2	10	60.00	0	104	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472534

Sample ID: **BNA60** Client ID: Units: **ug/L** Prep Date: Run No: **472534**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R472534** Seq No: **10883679**
Analysis Date / Time: **Dec 14 2021 9:52AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Isophorone	64.86	3.5	10	60.00	0	108	80	120	0	0	0	
N-Nitrosodi-n-propylamine	72.16	2.5	10	60.00	0	120	80	120	0	0	0	S
N-Nitrosodiphenylamine	61.11	2.4	10	60.00	0	102	80	120	0	0	0	
Naphthalene	62.94	2.1	10	60.00	0	105	80	120	0	0	0	
Nitrobenzene	66.20	2.5	10	60.00	0	110	80	120	0	0	0	
Pentachlorophenol	53.52	6.4	25	60.00	0	89.2	80	120	0	0	0	
Phenanthrene	63.48	2.9	10	60.00	0	106	80	120	0	0	0	
Phenol	61.49	2.9	10	60.00	0	102	80	120	0	0	0	
Pyrene	58.80	2.9	10	60.00	0	98.0	80	120	0	0	0	
Surr: 2,4,6-Tribromophenol	74.69	0	0	60.00	0	124	80	120	0	0	0	S
Surr: 2-Fluorobiphenyl	62.88	0	0	60.00	0	105	80	120	0	0	0	
Surr: 2-Fluorophenol	67.18	0	0	60.00	0	112	80	120	0	0	0	
Surr: 4-Terphenyl-d14	62.41	0	0	60.00	0	104	80	120	0	0	0	
Surr: Nitrobenzene-d5	69.39	0	0	60.00	0	116	80	120	0	0	0	
Surr: Phenol-d5	70.98	0	0	60.00	0	118	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472535

Sample ID: **BNA60** Client ID: Units: **ug/Kg** Prep Date: Run No: **472535**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R472535** Seq No: **10883687**
Analysis Date / Time: **Dec 14 2021 9:52AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1´-Biphenyl	BRL	120	330	60.00	0	108	80	120	0	0	0	
2,4,5-Trichlorophenol	BRL	71	1700	60.00	0	101	80	120	0	0	0	
2,4,6-Trichlorophenol	BRL	70	330	60.00	0	99.3	80	120	0	0	0	
2,4-Dichlorophenol	BRL	74	330	60.00	0	108	80	120	0	0	0	
2,4-Dimethylphenol	BRL	80	330	60.00	0	110	80	120	0	0	0	
2,4-Dinitrophenol	BRL	940	1700	60.00	0	55.8	80	120	0	0	0	S
2,4-Dinitrotoluene	BRL	220	330	60.00	0	120	80	120	0	0	0	
2,6-Dinitrotoluene	BRL	170	330	60.00	0	121	80	120	0	0	0	S
2-Chloronaphthalene	BRL	86	330	60.00	0	105	80	120	0	0	0	
2-Chlorophenol	66.65	57	330	60.00	0	111	80	120	0	0	0	
2-Methylnaphthalene	66.14	60	330	60.00	0	110	80	120	0	0	0	
2-Methylphenol	69.51	63	330	60.00	0	116	80	120	0	0	0	
2-Nitroaniline	BRL	98	1700	60.00	0	129	80	120	0	0	0	S
2-Nitrophenol	BRL	91	330	60.00	0	128	80	120	0	0	0	S
3,3´-Dichlorobenzidine	BRL	97	670	60.00	0	108	80	120	0	0	0	
3-Nitroaniline	BRL	76	1700	60.00	0	116	80	120	0	0	0	
4,6-Dinitro-2-methylphenol	BRL	830	1700	60.00	0	105	80	120	0	0	0	
4-Bromophenyl phenyl ether	BRL	82	330	60.00	0	106	80	120	0	0	0	
4-Chloro-3-methylphenol	BRL	70	330	60.00	0	112	80	120	0	0	0	
4-Chloroaniline	BRL	96	330	60.00	0	108	80	120	0	0	0	
4-Chlorophenyl phenyl ether	BRL	72	330	60.00	0	108	80	120	0	0	0	
4-Methylphenol	137.2	83	330	120.0	0	114	80	120	0	0	0	
4-Nitroaniline	BRL	100	1700	60.00	0	114	80	120	0	0	0	
4-Nitrophenol	BRL	180	1700	60.00	0	89.9	80	120	0	0	0	
Acenaphthene	63.37	48	330	60.00	0	106	80	120	0	0	0	
Acenaphthylene	BRL	250	330	60.00	0	104	80	120	0	0	0	
Acetophenone	BRL	160	330	120.0	0	110	80	120	0	0	0	
Anthracene	BRL	130	330	60.00	0	108	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472535

Sample ID: **BNA60** Client ID: Units: **ug/Kg** Prep Date: Run No: **472535**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R472535** Seq No: **10883687**
Analysis Date / Time: **Dec 14 2021 9:52AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Atrazine	BRL	200	330	60.00	0	112	80	120	0	0	0	
Benz(a)anthracene	BRL	62	330	60.00	0	101	80	120	0	0	0	
Benzaldehyde	BRL	230	330	60.00	0	108	80	120	0	0	0	
Benzo(a)pyrene	BRL	100	330	60.00	0	95.5	80	120	0	0	0	
Benzo(b)fluoranthene	BRL	110	330	60.00	0	89.1	80	120	0	0	0	
Benzo(g,h,i)perylene	BRL	310	330	60.00	0	95.3	80	120	0	0	0	
Benzo(k)fluoranthene	BRL	130	330	60.00	0	94.8	80	120	0	0	0	
Bis(2-chloroethoxy)methane	BRL	70	330	60.00	0	109	80	120	0	0	0	
Bis(2-chloroethyl)ether	BRL	78	330	60.00	0	106	80	120	0	0	0	
Bis(2-chloroisopropyl)ether	BRL	98	330	60.00	0	122	80	120	0	0	0	S
Bis(2-ethylhexyl)phthalate	BRL	72	330	60.00	0	119	80	120	0	0	0	
Butyl benzyl phthalate	65.99	62	330	60.00	0	110	80	120	0	0	0	
Caprolactam	BRL	130	330	60.00	0	111	80	120	0	0	0	
Carbazole	BRL	150	330	60.00	0	115	80	120	0	0	0	
Chrysene	BRL	68	330	60.00	0	97.2	80	120	0	0	0	
Di-n-butyl phthalate	BRL	270	330	60.00	0	114	80	120	0	0	0	
Di-n-octyl phthalate	BRL	280	330	60.00	0	126	80	120	0	0	0	S
Dibenz(a,h)anthracene	BRL	120	330	60.00	0	97.2	80	120	0	0	0	
Dibenzofuran	63.17	59	330	60.00	0	105	80	120	0	0	0	
Diethyl phthalate	65.37	59	330	60.00	0	109	80	120	0	0	0	
Dimethyl phthalate	63.64	48	330	60.00	0	106	80	120	0	0	0	
Fluoranthene	BRL	73	330	60.00	0	109	80	120	0	0	0	
Fluorene	BRL	95	330	60.00	0	106	80	120	0	0	0	
Hexachlorobenzene	BRL	94	330	60.00	0	108	80	120	0	0	0	
Hexachlorobutadiene	BRL	89	330	60.00	0	108	80	120	0	0	0	
Hexachlorocyclopentadiene	BRL	630	660	60.00	0	74.1	80	120	0	0	0	S
Hexachloroethane	BRL	87	330	60.00	0	115	80	120	0	0	0	
Indeno(1,2,3-cd)pyrene	BRL	140	330	60.00	0	104	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472535

Sample ID: **BNA60** Client ID: Units: **ug/Kg** Prep Date: Run No: **472535**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R472535** Seq No: **10883687**
Analysis Date / Time: **Dec 14 2021 9:52AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Isophorone	BRL	110	330	60.00	0	108	80	120	0	0	0	
N-Nitrosodi-n-propylamine	BRL	73	330	60.00	0	120	80	120	0	0	0	S
N-Nitrosodiphenylamine	61.11	47	330	60.00	0	102	80	120	0	0	0	
Naphthalene	62.94	53	330	60.00	0	105	80	120	0	0	0	
Nitrobenzene	66.20	64	330	60.00	0	110	80	120	0	0	0	
Pentachlorophenol	BRL	200	1700	60.00	0	89.2	80	120	0	0	0	
Phenanthrene	63.48	63	330	60.00	0	106	80	120	0	0	0	
Phenol	61.49	60	330	60.00	0	102	80	120	0	0	0	
Pyrene	BRL	130	330	60.00	0	98.0	80	120	0	0	0	
Surr: 2,4,6-Tribromophenol	74.69	0	0	60.00	0	124	80	120	0	0	0	S
Surr: 2-Fluorobiphenyl	62.88	0	0	60.00	0	105	80	120	0	0	0	
Surr: 2-Fluorophenol	67.18	0	0	60.00	0	112	80	120	0	0	0	
Surr: 4-Terphenyl-d14	62.41	0	0	60.00	0	104	80	120	0	0	0	
Surr: Nitrobenzene-d5	69.39	0	0	60.00	0	116	80	120	0	0	0	
Surr: Phenol-d5	70.98	0	0	60.00	0	118	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472544

Sample ID: **CCB** Client ID: Units: **mg/Kg** Prep Date: Run No: **472544**
SampleType: **CCB** TestCode: **Total Mercury by SW7473** BatchID: **R472544** Seq No: **10883950**
Analysis Date / Time: **Dec 14 2021 11:44AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.0384	0.100	0	0	0	0	0	0	0	0	

Sample ID: **CCB** Client ID: Units: **mg/Kg** Prep Date: Run No: **472544**
SampleType: **CCB** TestCode: **Total Mercury by SW7473** BatchID: **R472544** Seq No: **10883968**
Analysis Date / Time: **Dec 14 2021 2:47PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.0384	0.100	0	0	0	0	0	0	0	0	

Sample ID: **CCB** Client ID: Units: **mg/Kg** Prep Date: Run No: **472544**
SampleType: **CCB** TestCode: **Total Mercury by SW7473** BatchID: **R472544** Seq No: **10883976**
Analysis Date / Time: **Dec 14 2021 4:40PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.0384	0.100	0	0	0	0	0	0	0	0	

Sample ID: **CCV** Client ID: Units: **mg/Kg** Prep Date: Run No: **472544**
SampleType: **CCV** TestCode: **Total Mercury by SW7473** BatchID: **R472544** Seq No: **10883952**
Analysis Date / Time: **Dec 14 2021 11:51AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.5518	0.0384	0.100	0.5000	0	110	80	120	0	0	0	

Sample ID: **CCV** Client ID: Units: **mg/Kg** Prep Date: Run No: **472544**
SampleType: **CCV** TestCode: **Total Mercury by SW7473** BatchID: **R472544** Seq No: **10883969**
Analysis Date / Time: **Dec 14 2021 3:42PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.4502	0.0384	0.100	0.5000	0	90.0	80	120	0	0	0	

Sample ID: **CCV** Client ID: Units: **mg/Kg** Prep Date: Run No: **472544**
SampleType: **CCV** TestCode: **Total Mercury by SW7473** BatchID: **R472544** Seq No: **10883975**
Analysis Date / Time: **Dec 14 2021 4:33PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472544

Sample ID: **CCV** Client ID: Units: **mg/Kg** Prep Date: Run No: **472544**
SampleType: **CCV** TestCode: **Total Mercury by SW7473** BatchID: **R472544** Seq No: **10883975**
Analysis Date / Time: **Dec 14 2021 4:33PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.5275	0.0384	0.100	0.5000	0	106	80	120	0	0	0	

Sample ID: **ICB** Client ID: Units: **mg/Kg** Prep Date: Run No: **472544**
SampleType: **ICB** TestCode: **Total Mercury by SW7473** BatchID: **R472544** Seq No: **10883927**
Analysis Date / Time: **Dec 14 2021 9:21AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.0384	0.100	0	0	0	0	0	0	0	0	

Sample ID: **ICV** Client ID: Units: **mg/Kg** Prep Date: Run No: **472544**
SampleType: **ICV** TestCode: **Total Mercury by SW7473** BatchID: **R472544** Seq No: **10883929**
Analysis Date / Time: **Dec 14 2021 9:27AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.5461	0.0384	0.100	0.5000	0	109	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472631

Sample ID: **CCB** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **CCB** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886408**
Analysis Date / Time: **Dec 14 2021 6:40PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	-0.03638	0.0581	0.200	0	0	0	0	0	0	0	10	
Antimony	0.004710	0.0125	0.0200	0	0	0	0	0	0	0	10	
Arsenic	0.007800	0.0104	0.0500	0	0	0	0	0	0	0	10	
Barium	-0.000840	0.0048	0.0200	0	0	0	0	0	0	0	10	
Beryllium	0.000010	0.0019	0.0100	0	0	0	0	0	0	0	10	
Cadmium	-0.000070	0.0016	0.0050	0	0	0	0	0	0	0	10	
Calcium	-0.004600	0.0513	0.100	0	0	0	0	0	0	0	10	
Chromium	-0.000700	0.0067	0.0100	0	0	0	0	0	0	0	10	
Cobalt	0.000300	0.0019	0.0200	0	0	0	0	0	0	0	10	
Copper	-0.000190	0.0024	0.0100	0	0	0	0	0	0	0	10	
Iron	-0.005130	0.0362	0.100	0	0	0	0	0	0	0	10	
Lead	0.000360	0.0039	0.0100	0	0	0	0	0	0	0	10	
Magnesium	0.000360	0.0295	0.100	0	0	0	0	0	0	0	10	
Manganese	0.000040	0.0101	0.0150	0	0	0	0	0	0	0	10	
Nickel	-0.000430	0.0104	0.0200	0	0	0	0	0	0	0	10	
Potassium	0.07161	0.167	0.500	0	0	0	0	0	0	0	10	
Selenium	0.001920	0.0089	0.0200	0	0	0	0	0	0	0	10	
Silver	0.000010	0.0018	0.0100	0	0	0	0	0	0	0	10	
Sodium	0.002830	0.391	1.00	0	0	0	0	0	0	0	10	
Thallium	0.001690	0.0086	0.0200	0	0	0	0	0	0	0	10	
Vanadium	-0.000020	0.0012	0.0100	0	0	0	0	0	0	0	10	
Zinc	0.000140	0.0160	0.0200	0	0	0	0	0	0	0	10	

Sample ID: **CCB** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **CCB** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886436**
Analysis Date / Time: **Dec 14 2021 7:20PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	-0.04415	0.0581	0.200	0	0	0	0	0	0	0	10	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472631

Sample ID: **CCB** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **CCB** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886436**
Analysis Date / Time: **Dec 14 2021 7:20PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.002630	0.0125	0.0200	0	0	0	0	0	0	0	10	
Arsenic	0.01027	0.0104	0.0500	0	0	0	0	0	0	0	10	
Barium	0.001530	0.0048	0.0200	0	0	0	0	0	0	0	10	
Beryllium	0.000010	0.0019	0.0100	0	0	0	0	0	0	0	10	
Cadmium	0.000060	0.0016	0.0050	0	0	0	0	0	0	0	10	
Calcium	-0.004770	0.0513	0.100	0	0	0	0	0	0	0	10	
Chromium	-0.000890	0.0067	0.0100	0	0	0	0	0	0	0	10	
Cobalt	-0.000170	0.0019	0.0200	0	0	0	0	0	0	0	10	
Copper	-0.000240	0.0024	0.0100	0	0	0	0	0	0	0	10	
Iron	-0.004630	0.0362	0.100	0	0	0	0	0	0	0	10	
Lead	-0.000220	0.0039	0.0100	0	0	0	0	0	0	0	10	
Magnesium	0.000150	0.0295	0.100	0	0	0	0	0	0	0	10	
Manganese	0.000060	0.0101	0.0150	0	0	0	0	0	0	0	10	
Nickel	0.000220	0.0104	0.0200	0	0	0	0	0	0	0	10	
Potassium	0.02843	0.167	0.500	0	0	0	0	0	0	0	10	
Selenium	0.005510	0.0089	0.0200	0	0	0	0	0	0	0	10	
Silver	0.000230	0.0018	0.0100	0	0	0	0	0	0	0	10	
Sodium	0.000260	0.391	1.00	0	0	0	0	0	0	0	10	
Thallium	-0.002280	0.0086	0.0200	0	0	0	0	0	0	0	10	
Vanadium	-0.000040	0.0012	0.0100	0	0	0	0	0	0	0	10	
Zinc	-0.000740	0.0160	0.0200	0	0	0	0	0	0	0	10	

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **CCV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886407**
Analysis Date / Time: **Dec 14 2021 6:36PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	9.829	0.0581	0.200	10.00	0	98.3	90	110	0	0	0	
Antimony	1.009	0.0125	0.0200	1.000	0	101	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472631

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **CCV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886407**
Analysis Date / Time: **Dec 14 2021 6:36PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.023	0.0104	0.0500	1.000	0	102	90	110	0	0	0	
Barium	0.9911	0.0048	0.0200	1.000	0	99.1	90	110	0	0	0	
Beryllium	0.9959	0.0019	0.0100	1.000	0	99.6	90	110	0	0	0	
Cadmium	0.9808	0.0016	0.0050	1.000	0	98.1	90	110	0	0	0	
Calcium	9.854	0.0513	0.100	10.00	0	98.5	90	110	0	0	0	
Chromium	1.002	0.0067	0.0100	1.000	0	100	90	110	0	0	0	
Cobalt	0.9937	0.0019	0.0200	1.000	0	99.4	90	110	0	0	0	
Copper	0.9809	0.0024	0.0100	1.000	0	98.1	90	110	0	0	0	
Iron	10.39	0.0362	0.100	10.00	0	104	90	110	0	0	0	
Lead	0.9866	0.0039	0.0100	1.000	0	98.7	90	110	0	0	0	
Magnesium	9.882	0.0295	0.100	10.00	0	98.8	90	110	0	0	0	
Manganese	0.9866	0.0101	0.0150	1.000	0	98.7	90	110	0	0	0	
Nickel	0.9875	0.0104	0.0200	1.000	0	98.8	90	110	0	0	0	
Potassium	9.636	0.167	0.500	10.00	0	96.4	90	110	0	0	0	
Selenium	1.004	0.0089	0.0200	1.000	0	100	90	110	0	0	0	
Silver	0.09786	0.0018	0.0100	0.1000	0	97.9	90	110	0	0	0	
Sodium	9.793	0.391	1.00	10.00	0	97.9	90	110	0	0	0	
Thallium	0.9970	0.0086	0.0200	1.000	0	99.7	90	110	0	0	0	
Vanadium	0.9771	0.0012	0.0100	1.000	0	97.7	90	110	0	0	0	
Zinc	0.9980	0.0160	0.0200	1.000	0	99.8	90	110	0	0	0	

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **CCV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886435**
Analysis Date / Time: **Dec 14 2021 7:17PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	9.846	0.0581	0.200	10.00	0	98.5	90	110	0	0	0	
Antimony	1.005	0.0125	0.0200	1.000	0	100	90	110	0	0	0	
Arsenic	1.026	0.0104	0.0500	1.000	0	103	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472631

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **CCV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886435**
Analysis Date / Time: **Dec 14 2021 7:17PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Barium	0.9951	0.0048	0.0200	1.000	0	99.5	90	110	0	0	0	
Beryllium	0.9924	0.0019	0.0100	1.000	0	99.2	90	110	0	0	0	
Cadmium	0.9797	0.0016	0.0050	1.000	0	98.0	90	110	0	0	0	
Calcium	9.871	0.0513	0.100	10.00	0	98.7	90	110	0	0	0	
Chromium	1.003	0.0067	0.0100	1.000	0	100	90	110	0	0	0	
Cobalt	0.9969	0.0019	0.0200	1.000	0	99.7	90	110	0	0	0	
Copper	0.9814	0.0024	0.0100	1.000	0	98.1	90	110	0	0	0	
Iron	10.37	0.0362	0.100	10.00	0	104	90	110	0	0	0	
Lead	0.9900	0.0039	0.0100	1.000	0	99.0	90	110	0	0	0	
Magnesium	9.885	0.0295	0.100	10.00	0	98.8	90	110	0	0	0	
Manganese	0.9891	0.0101	0.0150	1.000	0	98.9	90	110	0	0	0	
Nickel	0.9955	0.0104	0.0200	1.000	0	99.6	90	110	0	0	0	
Potassium	9.649	0.167	0.500	10.00	0	96.5	90	110	0	0	0	
Selenium	1.009	0.0089	0.0200	1.000	0	101	90	110	0	0	0	
Silver	0.09844	0.0018	0.0100	0.1000	0	98.4	90	110	0	0	0	
Sodium	9.783	0.391	1.00	10.00	0	97.8	90	110	0	0	0	
Thallium	0.9964	0.0086	0.0200	1.000	0	99.6	90	110	0	0	0	
Vanadium	0.9787	0.0012	0.0100	1.000	0	97.9	90	110	0	0	0	
Zinc	1.001	0.0160	0.0200	1.000	0	100	90	110	0	0	0	

Sample ID: **CRI** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **CRI** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886399**
Analysis Date / Time: **Dec 14 2021 3:59PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	0.1837	0.0581	0.200	0.2000	0	91.8	80	120	0	0	0	
Antimony	0.02000	0.0125	0.0200	0.0200	0	100	80	120	0	0	0	
Arsenic	0.05203	0.0104	0.0500	0.0500	0	104	80	120	0	0	0	
Barium	0.01095	0.0048	0.0200	0.0100	0	110	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472631

Sample ID: **CRI** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **CRI** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886399**
Analysis Date / Time: **Dec 14 2021 3:59PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Beryllium	0.004860	0.0019	0.0100	0.0050	0	97.2	80	120	0	0	0	
Cadmium	0.005390	0.0016	0.0050	0.0050	0	108	80	120	0	0	0	
Calcium	0.09513	0.0513	0.100	0.1000	0	95.1	80	120	0	0	0	
Chromium	0.009790	0.0067	0.0100	0.0100	0	97.9	80	120	0	0	0	
Cobalt	0.01016	0.0019	0.0200	0.0100	0	102	80	120	0	0	0	
Copper	0.009700	0.0024	0.0100	0.0100	0	97.0	80	120	0	0	0	
Iron	0.1037	0.0362	0.100	0.1000	0	104	80	120	0	0	0	
Lead	0.01150	0.0039	0.0100	0.0100	0	115	80	120	0	0	0	
Magnesium	0.1000	0.0295	0.100	0.1000	0	100	80	120	0	0	0	
Manganese	0.005130	0.0101	0.0150	0.0050	0	103	80	120	0	0	0	
Nickel	0.02217	0.0104	0.0200	0.0200	0	111	80	120	0	0	0	
Potassium	0.4699	0.167	0.500	0.5000	0	94.0	80	120	0	0	0	
Selenium	0.01605	0.0089	0.0200	0.0200	0	80.2	80	120	0	0	0	
Silver	0.004630	0.0018	0.0100	0.0050	0	92.6	80	120	0	0	0	
Sodium	0.8202	0.391	1.00	1.000	0	82.0	80	120	0	0	0	
Thallium	0.02156	0.0086	0.0200	0.0200	0	108	80	120	0	0	0	
Vanadium	0.008760	0.0012	0.0100	0.0100	0	87.6	80	120	0	0	0	
Zinc	0.01892	0.0160	0.0200	0.0200	0	94.6	80	120	0	0	0	

Sample ID: **CRI-MIDLEVEL** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **CCV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886402**
Analysis Date / Time: **Dec 14 2021 4:17PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	9.681	0.0581	0.200	10.00	0	96.8	90	110	0	0	0	
Antimony	0.9856	0.0125	0.0200	1.000	0	98.6	90	110	0	0	0	
Arsenic	0.9904	0.0104	0.0500	1.000	0	99.0	90	110	0	0	0	
Barium	0.9755	0.0048	0.0200	1.000	0	97.5	90	110	0	0	0	
Beryllium	0.9782	0.0019	0.0100	1.000	0	97.8	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472631

Sample ID: **CRI-MIDLEVEL** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **CCV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886402**
Analysis Date / Time: **Dec 14 2021 4:17PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cadmium	0.9725	0.0016	0.0050	1.000	0	97.2	90	110	0	0	0	
Calcium	9.720	0.0513	0.100	10.00	0	97.2	90	110	0	0	0	
Chromium	0.9816	0.0067	0.0100	1.000	0	98.2	90	110	0	0	0	
Cobalt	0.9810	0.0019	0.0200	1.000	0	98.1	90	110	0	0	0	
Copper	0.9671	0.0024	0.0100	1.000	0	96.7	90	110	0	0	0	
Iron	9.991	0.0362	0.100	10.00	0	99.9	90	110	0	0	0	
Lead	0.9771	0.0039	0.0100	1.000	0	97.7	90	110	0	0	0	
Magnesium	9.730	0.0295	0.100	10.00	0	97.3	90	110	0	0	0	
Manganese	0.9739	0.0101	0.0150	1.000	0	97.4	90	110	0	0	0	
Nickel	0.9788	0.0104	0.0200	1.000	0	97.9	90	110	0	0	0	
Potassium	9.508	0.167	0.500	10.00	0	95.1	90	110	0	0	0	
Selenium	0.9837	0.0089	0.0200	1.000	0	98.4	90	110	0	0	0	
Silver	0.09664	0.0018	0.0100	0.1000	0	96.6	90	110	0	0	0	
Sodium	9.637	0.391	1.00	10.00	0	96.4	90	110	0	0	0	
Thallium	0.9800	0.0086	0.0200	1.000	0	98.0	90	110	0	0	0	
Vanadium	0.9642	0.0012	0.0100	1.000	0	96.4	90	110	0	0	0	
Zinc	0.9824	0.0160	0.0200	1.000	0	98.2	90	110	0	0	0	

Sample ID: **ICB** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **ICB** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886395**
Analysis Date / Time: **Dec 14 2021 3:26PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	0.006000	0.0581	0.200	0	0	0	0	0	0	0	0	
Antimony	0.003510	0.0125	0.0200	0	0	0	0	0	0	0	0	
Arsenic	0.007950	0.0104	0.0500	0	0	0	0	0	0	0	0	
Barium	0.000560	0.0048	0.0200	0	0	0	0	0	0	0	0	
Beryllium	0	0.0019	0.0100	0	0	0	0	0	0	0	0	
Cadmium	-0.000030	0.0016	0.0050	0	0	0	0	0	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472631

Sample ID: **ICB** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **ICB** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886395**
Analysis Date / Time: **Dec 14 2021 3:26PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Calcium	-0.001930	0.0513	0.100	0	0	0	0	0	0	0	0	
Chromium	-0.000760	0.0067	0.0100	0	0	0	0	0	0	0	0	
Cobalt	-0.000170	0.0019	0.0200	0	0	0	0	0	0	0	0	
Copper	-0.000160	0.0024	0.0100	0	0	0	0	0	0	0	0	
Iron	-0.004430	0.0362	0.100	0	0	0	0	0	0	0	0	
Lead	0.000240	0.0039	0.0100	0	0	0	0	0	0	0	0	
Magnesium	0.002490	0.0295	0.100	0	0	0	0	0	0	0	0	
Manganese	0.000020	0.0101	0.0150	0	0	0	0	0	0	0	0	
Nickel	0.000620	0.0104	0.0200	0	0	0	0	0	0	0	0	
Potassium	0.02130	0.167	0.500	0	0	0	0	0	0	0	0	
Selenium	-0.000460	0.0089	0.0200	0	0	0	0	0	0	0	0	
Silver	-0.000010	0.0018	0.0100	0	0	0	0	0	0	0	0	
Sodium	0.001330	0.391	1.00	0	0	0	0	0	0	0	0	
Thallium	0.006830	0.0086	0.0200	0	0	0	0	0	0	0	0	
Vanadium	-0.000070	0.0012	0.0100	0	0	0	0	0	0	0	0	
Zinc	-0.000150	0.0160	0.0200	0	0	0	0	0	0	0	0	

Sample ID: **ICSA** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **ICSA** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886397**
Analysis Date / Time: **Dec 14 2021 3:46PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	242.5	0.0581	0.200	250.0	0	97.0	80	120	0	0	0	
Antimony	0.001070	0.0125	0.0200	0	0	0	80	120	0	0	0	
Arsenic	-0.000910	0.0104	0.0500	0	0	0	80	120	0	0	0	
Barium	0.000140	0.0048	0.0200	0	0	0	80	120	0	0	0	
Beryllium	0.000020	0.0019	0.0100	0	0	0	80	120	0	0	0	
Cadmium	0.000100	0.0016	0.0050	0	0	0	80	120	0	0	0	
Calcium	225.2	0.0513	0.100	250.0	0	90.1	80	120	0	0	0	E

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472631

Sample ID: **ICSA** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **ICSA** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886397**
Analysis Date / Time: **Dec 14 2021 3:46PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	-0.001210	0.0067	0.0100	0	0	0	80	120	0	0	0	
Cobalt	-0.000630	0.0019	0.0200	0	0	0	80	120	0	0	0	
Copper	0.000130	0.0024	0.0100	0	0	0	80	120	0	0	0	
Iron	84.33	0.0362	0.100	100.0	0	84.3	80	120	0	0	0	
Lead	-0.007800	0.0039	0.0100	0	0	0	80	120	0	0	0	
Magnesium	239.5	0.0295	0.100	250.0	0	95.8	80	120	0	0	0	
Manganese	0.000770	0.0101	0.0150	0	0	0	80	120	0	0	0	
Nickel	0.003790	0.0104	0.0200	0	0	0	80	120	0	0	0	
Potassium	0.03733	0.167	0.500	0	0	0	80	120	0	0	0	
Selenium	-0.001310	0.0089	0.0200	0	0	0	80	120	0	0	0	
Silver	0.000390	0.0018	0.0100	0	0	0	80	120	0	0	0	
Sodium	0.002500	0.391	1.00	0	0	0	80	120	0	0	0	
Thallium	-0.009300	0.0086	0.0200	0	0	0	80	120	0	0	0	
Vanadium	0.000520	0.0012	0.0100	0	0	0	80	120	0	0	0	
Zinc	0.008780	0.0160	0.0200	0	0	0	80	120	0	0	0	

Sample ID: **ICSAB** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **ICSAB** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886398**
Analysis Date / Time: **Dec 14 2021 3:50PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	266.9	0.0581	0.200	255.0	0	105	80	120	0	0	0	
Antimony	0.4939	0.0125	0.0200	0.5000	0	98.8	80	120	0	0	0	
Arsenic	0.4906	0.0104	0.0500	0.5000	0	98.1	80	120	0	0	0	
Barium	0.4923	0.0048	0.0200	0.5000	0	98.5	80	120	0	0	0	
Beryllium	0.5022	0.0019	0.0100	0.5000	0	100	80	120	0	0	0	
Cadmium	0.5242	0.0016	0.0050	0.5000	0	105	80	120	0	0	0	
Calcium	247.7	0.0513	0.100	255.0	0	97.1	80	120	0	0	0	E
Chromium	0.4896	0.0067	0.0100	0.5000	0	97.9	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472631

Sample ID: **ICSAB** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **ICSAB** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886398**
Analysis Date / Time: **Dec 14 2021 3:50PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cobalt	0.4743	0.0019	0.0200	0.5000	0	94.9	80	120	0	0	0	
Copper	0.5431	0.0024	0.0100	0.5000	0	109	80	120	0	0	0	
Iron	94.34	0.0362	0.100	105.0	0	89.8	80	120	0	0	0	
Lead	0.4928	0.0039	0.0100	0.5000	0	98.6	80	120	0	0	0	
Magnesium	262.9	0.0295	0.100	255.0	0	103	80	120	0	0	0	
Manganese	0.4925	0.0101	0.0150	0.5000	0	98.5	80	120	0	0	0	
Nickel	0.4772	0.0104	0.0200	0.5000	0	95.4	80	120	0	0	0	
Potassium	5.539	0.167	0.500	0	0	0	0	0	0	0	0	
Selenium	0.5013	0.0089	0.0200	0.5000	0	100	80	120	0	0	0	
Silver	0.05290	0.0018	0.0100	0.0500	0	106	80	120	0	0	0	
Sodium	5.500	0.391	1.00	5.000	0	110	80	120	0	0	0	
Thallium	0.5457	0.0086	0.0200	0.5000	0	109	80	120	0	0	0	
Vanadium	0.4987	0.0012	0.0100	0.5000	0	99.7	80	120	0	0	0	
Zinc	0.4862	0.0160	0.0200	0.5000	0	97.2	80	120	0	0	0	

Sample ID: **ICV** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **ICV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886394**
Analysis Date / Time: **Dec 14 2021 3:19PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	5.057	0.0581	0.200	5.000	0	101	90	110	0	0	0	
Antimony	0.5244	0.0125	0.0200	0.5000	0	105	90	110	0	0	0	
Arsenic	0.5127	0.0104	0.0500	0.5000	0	103	90	110	0	0	0	
Barium	0.5206	0.0048	0.0200	0.5000	0	104	90	110	0	0	0	
Beryllium	0.5238	0.0019	0.0100	0.5000	0	105	90	110	0	0	0	
Cadmium	0.5117	0.0016	0.0050	0.5000	0	102	90	110	0	0	0	
Calcium	5.180	0.0513	0.100	5.000	0	104	90	110	0	0	0	
Chromium	0.5209	0.0067	0.0100	0.5000	0	104	90	110	0	0	0	
Cobalt	0.5233	0.0019	0.0200	0.5000	0	105	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472631

Sample ID: **ICV** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **ICV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886394**
Analysis Date / Time: **Dec 14 2021 3:19PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.5124	0.0024	0.0100	0.5000	0	102	90	110	0	0	0	
Iron	5.331	0.0362	0.100	5.000	0	107	90	110	0	0	0	
Lead	0.5169	0.0039	0.0100	0.5000	0	103	90	110	0	0	0	
Magnesium	5.154	0.0295	0.100	5.000	0	103	90	110	0	0	0	
Manganese	0.5211	0.0101	0.0150	0.5000	0	104	90	110	0	0	0	
Nickel	0.5207	0.0104	0.0200	0.5000	0	104	90	110	0	0	0	
Potassium	5.013	0.167	0.500	5.000	0	100	90	110	0	0	0	
Selenium	0.5023	0.0089	0.0200	0.5000	0	100	90	110	0	0	0	
Silver	0.05078	0.0018	0.0100	0.0500	0	102	90	110	0	0	0	
Sodium	5.141	0.391	1.00	5.000	0	103	90	110	0	0	0	
Thallium	0.5041	0.0086	0.0200	0.5000	0	101	90	110	0	0	0	
Vanadium	0.5069	0.0012	0.0100	0.5000	0	101	90	110	0	0	0	
Zinc	0.5248	0.0160	0.0200	0.5000	0	105	90	110	0	0	0	

Sample ID: **LCR 1** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **CCV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886403**
Analysis Date / Time: **Dec 14 2021 4:21PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Aluminum	197.9	0.0581	0.200	200.0	0	98.9	90	110	0	0	0	
Antimony	19.08	0.0125	0.0200	20.00	0	95.4	90	110	0	0	0	
Arsenic	18.92	0.0104	0.0500	20.00	0	94.6	90	110	0	0	0	
Cadmium	18.58	0.0016	0.0050	20.00	0	92.9	90	110	0	0	0	
Calcium	180.0	0.0513	0.100	200.0	0	90.0	90	110	0	0	0	
Copper	20.36	0.0024	0.0100	20.00	0	102	90	110	0	0	0	
Magnesium	186.5	0.0295	0.100	200.0	0	93.3	90	110	0	0	0	
Potassium	201.9	0.167	0.500	200.0	0	101	90	110	0	0	0	
Selenium	18.47	0.0089	0.0200	20.00	0	92.4	90	110	0	0	0	
Silver	2.039	0.0018	0.0100	2.000	0	102	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472631

Sample ID: **LCR 1** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **CCV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886403**
Analysis Date / Time: **Dec 14 2021 4:21PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sodium	191.9	0.391	1.00	200.0	0	96.0	90	110	0	0	0	
Thallium	20.44	0.0086	0.0200	20.00	0	102	90	110	0	0	0	
Vanadium	18.52	0.0012	0.0100	20.00	0	92.6	90	110	0	0	0	

Sample ID: **LCR 2** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **CCV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886404**
Analysis Date / Time: **Dec 14 2021 4:28PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Barium	9.301	0.0048	0.0200	10.00	0	93.0	90	110	0	0	0	
Chromium	9.311	0.0067	0.0100	10.00	0	93.1	90	110	0	0	0	
Cobalt	9.260	0.0019	0.0200	10.00	0	92.6	90	110	0	0	0	
Manganese	9.171	0.0101	0.0150	10.00	0	91.7	90	110	0	0	0	
Nickel	9.247	0.0104	0.0200	10.00	0	92.5	90	110	0	0	0	
Zinc	9.202	0.0160	0.0200	10.00	0	92.0	90	110	0	0	0	

Sample ID: **LCR 3** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **CCV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886405**
Analysis Date / Time: **Dec 14 2021 4:35PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Beryllium	4.555	0.0019	0.0100	5.000	0	91.1	90	110	0	0	0	
Iron	45.04	0.0362	0.100	50.00	0	90.1	90	110	0	0	0	

Sample ID: **LCR-Pb-Inhouse** Client ID: Units: **mg/L** Prep Date: Run No: **472631**
SampleType: **CCV** TestCode: **METALS, TOTAL SW6010D** BatchID: **R472631** Seq No: **10886406**
Analysis Date / Time: **Dec 14 2021 4:43PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	194.5	0.0039	0.0100	200.0	0	97.2	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472641

Sample ID: **bna60** Client ID: Units: **ug/Kg** Prep Date: Run No: **472641**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R472641** Seq No: **10886474**
Analysis Date / Time: **Dec 15 2021 11:58AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1´-Biphenyl	BRL	120	330	60.00	0	96.7	80	120	0	0	0	
2,4,5-Trichlorophenol	BRL	71	1700	60.00	0	89.6	80	120	0	0	0	
2,4,6-Trichlorophenol	BRL	70	330	60.00	0	87.3	80	120	0	0	0	
2,4-Dichlorophenol	BRL	74	330	60.00	0	83.6	80	120	0	0	0	
2,4-Dimethylphenol	BRL	80	330	60.00	0	89.9	80	120	0	0	0	
2,4-Dinitrophenol	BRL	940	1700	60.00	0	117	80	120	0	0	0	
2,4-Dinitrotoluene	BRL	220	330	60.00	0	103	80	120	0	0	0	
2,6-Dinitrotoluene	BRL	170	330	60.00	0	100	80	120	0	0	0	
2-Chloronaphthalene	BRL	86	330	60.00	0	97.7	80	120	0	0	0	
2-Chlorophenol	60.54	57	330	60.00	0	101	80	120	0	0	0	
2-Methylnaphthalene	BRL	60	330	60.00	0	97.1	80	120	0	0	0	
2-Methylphenol	BRL	63	330	60.00	0	96.7	80	120	0	0	0	
2-Nitroaniline	BRL	98	1700	60.00	0	80.3	80	120	0	0	0	
2-Nitrophenol	BRL	91	330	60.00	0	94.6	80	120	0	0	0	
3,3´-Dichlorobenzidine	BRL	97	670	60.00	0	88.4	80	120	0	0	0	
3-Nitroaniline	BRL	76	1700	60.00	0	82.9	80	120	0	0	0	
4,6-Dinitro-2-methylphenol	BRL	830	1700	60.00	0	64.4	80	120	0	0	0	S
4-Bromophenyl phenyl ether	BRL	82	330	60.00	0	91.8	80	120	0	0	0	
4-Chloro-3-methylphenol	BRL	70	330	60.00	0	95.1	80	120	0	0	0	
4-Chloroaniline	BRL	96	330	60.00	0	88.0	80	120	0	0	0	
4-Chlorophenyl phenyl ether	BRL	72	330	60.00	0	97.5	80	120	0	0	0	
4-Methylphenol	119.2	83	330	120.0	0	99.3	80	120	0	0	0	
4-Nitroaniline	BRL	100	1700	60.00	0	86.8	80	120	0	0	0	
4-Nitrophenol	BRL	180	1700	60.00	0	66.3	80	120	0	0	0	S
Acenaphthene	59.12	48	330	60.00	0	98.5	80	120	0	0	0	
Acenaphthylene	BRL	250	330	60.00	0	96.2	80	120	0	0	0	
Acetophenone	BRL	160	330	120.0	0	93.8	80	120	0	0	0	
Anthracene	BRL	130	330	60.00	0	92.9	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472641

Sample ID: **bna60** Client ID: Units: **ug/Kg** Prep Date: Run No: **472641**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R472641** Seq No: **10886474**
Analysis Date / Time: **Dec 15 2021 11:58AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Atrazine	BRL	200	330	60.00	0	81.8	80	120	0	0	0	
Benz(a)anthracene	BRL	62	330	60.00	0	92.4	80	120	0	0	0	
Benzaldehyde	BRL	230	330	60.00	0	101	80	120	0	0	0	
Benzo(a)pyrene	BRL	100	330	60.00	0	98.9	80	120	0	0	0	
Benzo(b)fluoranthene	BRL	110	330	60.00	0	89.2	80	120	0	0	0	
Benzo(g,h,i)perylene	BRL	310	330	60.00	0	98.9	80	120	0	0	0	
Benzo(k)fluoranthene	BRL	130	330	60.00	0	104	80	120	0	0	0	
Bis(2-chloroethoxy)methane	BRL	70	330	60.00	0	88.8	80	120	0	0	0	
Bis(2-chloroethyl)ether	BRL	78	330	60.00	0	92.0	80	120	0	0	0	
Bis(2-chloroisopropyl)ether	BRL	98	330	60.00	0	71.3	80	120	0	0	0	S
Bis(2-ethylhexyl)phthalate	BRL	72	330	60.00	0	94.7	80	120	0	0	0	
Butyl benzyl phthalate	BRL	62	330	60.00	0	93.9	80	120	0	0	0	
Caprolactam	BRL	130	330	60.00	0	104	80	120	0	0	0	
Carbazole	BRL	150	330	60.00	0	99.4	80	120	0	0	0	
Chrysene	BRL	68	330	60.00	0	92.3	80	120	0	0	0	
Di-n-butyl phthalate	BRL	270	330	60.00	0	97.2	80	120	0	0	0	
Di-n-octyl phthalate	BRL	280	330	60.00	0	98.4	80	120	0	0	0	
Dibenz(a,h)anthracene	BRL	120	330	60.00	0	98.9	80	120	0	0	0	
Dibenzofuran	BRL	59	330	60.00	0	98.9	80	120	0	0	0	
Diethyl phthalate	59.70	59	330	60.00	0	99.5	80	120	0	0	0	
Dimethyl phthalate	58.95	48	330	60.00	0	98.2	80	120	0	0	0	
Fluoranthene	BRL	73	330	60.00	0	97.8	80	120	0	0	0	
Fluorene	BRL	95	330	60.00	0	99.2	80	120	0	0	0	
Hexachlorobenzene	BRL	94	330	60.00	0	95.3	80	120	0	0	0	
Hexachlorobutadiene	BRL	89	330	60.00	0	93.4	80	120	0	0	0	
Hexachlorocyclopentadiene	BRL	630	660	60.00	0	109	80	120	0	0	0	
Hexachloroethane	BRL	87	330	60.00	0	95.6	80	120	0	0	0	
Indeno(1,2,3-cd)pyrene	BRL	140	330	60.00	0	97.4	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472641

Sample ID: **bna60** Client ID: Units: **ug/Kg** Prep Date: Run No: **472641**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R472641** Seq No: **10886474**
Analysis Date / Time: **Dec 15 2021 11:58AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Isophorone	BRL	110	330	60.00	0	90.4	80	120	0	0	0	
N-Nitrosodi-n-propylamine	BRL	73	330	60.00	0	93.8	80	120	0	0	0	
N-Nitrosodiphenylamine	55.13	47	330	60.00	0	91.9	80	120	0	0	0	
Naphthalene	59.26	53	330	60.00	0	98.8	80	120	0	0	0	
Nitrobenzene	BRL	64	330	60.00	0	95.1	80	120	0	0	0	
Pentachlorophenol	BRL	200	1700	60.00	0	92.6	80	120	0	0	0	
Phenanthrene	BRL	63	330	60.00	0	93.8	80	120	0	0	0	
Phenol	BRL	60	330	60.00	0	87.0	80	120	0	0	0	
Pyrene	BRL	130	330	60.00	0	91.9	80	120	0	0	0	
Surr: 2,4,6-Tribromophenol	49.87	0	0	60.00	0	83.1	80	120	0	0	0	
Surr: 2-Fluorobiphenyl	58.50	0	0	60.00	0	97.5	80	120	0	0	0	
Surr: 2-Fluorophenol	55.06	0	0	60.00	0	91.8	80	120	0	0	0	
Surr: 4-Terphenyl-d14	53.28	0	0	60.00	0	88.8	80	120	0	0	0	
Surr: Nitrobenzene-d5	54.19	0	0	60.00	0	90.3	80	120	0	0	0	
Surr: Phenol-d5	56.69	0	0	60.00	0	94.5	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472657

Sample ID: **CCB** Client ID: Units: **mg/L** Prep Date: Run No: **472657**
SampleType: **CCB** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R472657** Seq No: **10887160**
Analysis Date / Time: **Dec 15 2021 2:27PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.002240	0.0104	0.0500	0	0	0	0	0	0	0	0	
Barium	0.000990	0.0048	0.100	0	0	0	0	0	0	0	0	
Cadmium	-0.000030	0.0016	0.0050	0	0	0	0	0	0	0	0	
Chromium	0.000090	0.0067	0.0100	0	0	0	0	0	0	0	0	
Lead	-0.002170	0.0039	0.0100	0	0	0	0	0	0	0	0	
Selenium	0.01103	0.0089	0.0200	0	0	0	0	0	0	0	0	
Silver	0.000410	0.0018	0.0050	0	0	0	0	0	0	0	0	

Sample ID: **CCB** Client ID: Units: **mg/L** Prep Date: Run No: **472657**
SampleType: **CCB** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R472657** Seq No: **10887169**
Analysis Date / Time: **Dec 15 2021 3:07PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.002550	0.0104	0.0500	0	0	0	0	0	0	0	0	
Barium	0.000550	0.0048	0.100	0	0	0	0	0	0	0	0	
Cadmium	0.000010	0.0016	0.0050	0	0	0	0	0	0	0	0	
Chromium	0.000330	0.0067	0.0100	0	0	0	0	0	0	0	0	
Lead	0.000730	0.0039	0.0100	0	0	0	0	0	0	0	0	
Selenium	0.007050	0.0089	0.0200	0	0	0	0	0	0	0	0	
Silver	0.000490	0.0018	0.0050	0	0	0	0	0	0	0	0	

Sample ID: **CCB** Client ID: Units: **mg/L** Prep Date: Run No: **472657**
SampleType: **CCB** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R472657** Seq No: **10887181**
Analysis Date / Time: **Dec 15 2021 3:41PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.002310	0.0104	0.0500	0	0	0	0	0	0	0	0	
Barium	0.000910	0.0048	0.100	0	0	0	0	0	0	0	0	
Cadmium	-0.000210	0.0016	0.0050	0	0	0	0	0	0	0	0	
Chromium	0.000360	0.0067	0.0100	0	0	0	0	0	0	0	0	
Lead	0.000140	0.0039	0.0100	0	0	0	0	0	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472657

Sample ID: **CCB** Client ID: Units: **mg/L** Prep Date: Run No: **472657**
SampleType: **CCB** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R472657** Seq No: **10887181**
Analysis Date / Time: **Dec 15 2021 3:41PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Selenium	0.007960	0.0089	0.0200	0	0	0	0	0	0	0	0	
Silver	0.000170	0.0018	0.0050	0	0	0	0	0	0	0	0	

Sample ID: **CCB** Client ID: Units: **mg/L** Prep Date: Run No: **472657**
SampleType: **CCB** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R472657** Seq No: **10887185**
Analysis Date / Time: **Dec 15 2021 3:58PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.000620	0.0104	0.0500	0	0	0	0	0	0	0	0	
Barium	0.000020	0.0048	0.100	0	0	0	0	0	0	0	0	
Cadmium	-0.000080	0.0016	0.0050	0	0	0	0	0	0	0	0	
Chromium	0.000280	0.0067	0.0100	0	0	0	0	0	0	0	0	
Lead	-0.000740	0.0039	0.0100	0	0	0	0	0	0	0	0	
Selenium	0.009610	0.0089	0.0200	0	0	0	0	0	0	0	0	
Silver	0.000230	0.0018	0.0050	0	0	0	0	0	0	0	0	

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **472657**
SampleType: **CCV** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R472657** Seq No: **10887159**
Analysis Date / Time: **Dec 15 2021 2:24PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9672	0.0104	0.0500	1.000	0	96.7	90	110	0	0	0	
Barium	1.058	0.0048	0.100	1.000	0	106	90	110	0	0	0	
Cadmium	1.028	0.0016	0.0050	1.000	0	103	90	110	0	0	0	
Chromium	1.015	0.0067	0.0100	1.000	0	102	90	110	0	0	0	
Lead	1.031	0.0039	0.0100	1.000	0	103	90	110	0	0	0	
Selenium	1.032	0.0089	0.0200	1.000	0	103	90	110	0	0	0	
Silver	0.1011	0.0018	0.0050	0.1000	0	101	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472657

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **472657**
SampleType: **CCV** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R472657** Seq No: **10887168**
Analysis Date / Time: **Dec 15 2021 3:04PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9778	0.0104	0.0500	1.000	0	97.8	90	110	0	0	0	
Barium	1.064	0.0048	0.100	1.000	0	106	90	110	0	0	0	
Cadmium	1.034	0.0016	0.0050	1.000	0	103	90	110	0	0	0	
Chromium	1.024	0.0067	0.0100	1.000	0	102	90	110	0	0	0	
Lead	1.040	0.0039	0.0100	1.000	0	104	90	110	0	0	0	
Selenium	1.044	0.0089	0.0200	1.000	0	104	90	110	0	0	0	
Silver	0.1018	0.0018	0.0050	0.1000	0	102	90	110	0	0	0	

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **472657**
SampleType: **CCV** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R472657** Seq No: **10887180**
Analysis Date / Time: **Dec 15 2021 3:38PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9712	0.0104	0.0500	1.000	0	97.1	90	110	0	0	0	
Barium	1.060	0.0048	0.100	1.000	0	106	90	110	0	0	0	
Cadmium	1.027	0.0016	0.0050	1.000	0	103	90	110	0	0	0	
Chromium	1.016	0.0067	0.0100	1.000	0	102	90	110	0	0	0	
Lead	1.032	0.0039	0.0100	1.000	0	103	90	110	0	0	0	
Selenium	1.027	0.0089	0.0200	1.000	0	103	90	110	0	0	0	
Silver	0.1011	0.0018	0.0050	0.1000	0	101	90	110	0	0	0	

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **472657**
SampleType: **CCV** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R472657** Seq No: **10887184**
Analysis Date / Time: **Dec 15 2021 3:55PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9842	0.0104	0.0500	1.000	0	98.4	90	110	0	0	0	
Barium	1.069	0.0048	0.100	1.000	0	107	90	110	0	0	0	
Cadmium	1.032	0.0016	0.0050	1.000	0	103	90	110	0	0	0	
Chromium	1.026	0.0067	0.0100	1.000	0	103	90	110	0	0	0	
Lead	1.044	0.0039	0.0100	1.000	0	104	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472657

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **472657**
SampleType: **CCV** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R472657** Seq No: **10887184**
Analysis Date / Time: **Dec 15 2021 3:55PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Selenium	1.036	0.0089	0.0200	1.000	0	104	90	110	0	0	0	
Silver	0.1024	0.0018	0.0050	0.1000	0	102	90	110	0	0	0	

Sample ID: **CRI** Client ID: Units: **mg/L** Prep Date: Run No: **472657**
SampleType: **CRI** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R472657** Seq No: **10887148**
Analysis Date / Time: **Dec 15 2021 9:45AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.04358	0.0104	0.0500	0.0500	0	87.2	70	130	0	0	0	
Barium	0.01091	0.0048	0.100	0.0100	0	109	70	130	0	0	0	
Cadmium	0.005400	0.0016	0.0050	0.0050	0	108	70	130	0	0	0	
Chromium	0.01097	0.0067	0.0100	0.0100	0	110	70	130	0	0	0	
Lead	0.01143	0.0039	0.0100	0.0100	0	114	70	130	0	0	0	
Selenium	0.02351	0.0089	0.0200	0.0200	0	118	70	130	0	0	0	
Silver	0.005070	0.0018	0.0050	0.0050	0	101	70	130	0	0	0	

Sample ID: **CRI-MIDLEVEL** Client ID: Units: **mg/L** Prep Date: Run No: **472657**
SampleType: **CCV** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R472657** Seq No: **10887154**
Analysis Date / Time: **Dec 15 2021 10:06AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.015	0.0104	0.0500	1.000	0	102	90	110	0	0	0	
Barium	1.056	0.0048	0.100	1.000	0	106	90	110	0	0	0	
Cadmium	1.038	0.0016	0.0050	1.000	0	104	90	110	0	0	0	
Chromium	1.049	0.0067	0.0100	1.000	0	105	90	110	0	0	0	
Lead	1.057	0.0039	0.0100	1.000	0	106	90	110	0	0	0	
Selenium	1.041	0.0089	0.0200	1.000	0	104	90	110	0	0	0	
Silver	0.1039	0.0018	0.0050	0.1000	0	104	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472657

Sample ID: **ICB** Client ID: Units: **mg/L** Prep Date: Run No: **472657**
SampleType: **ICB** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R472657** Seq No: **10887147**
Analysis Date / Time: **Dec 15 2021 9:43AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	-0.001760	0.0104	0.0500	0	0	0	0	0	0	0	0	
Barium	0.000900	0.0048	0.100	0	0	0	0	0	0	0	0	
Cadmium	-0.000090	0.0016	0.0050	0	0	0	0	0	0	0	0	
Chromium	-0.000270	0.0067	0.0100	0	0	0	0	0	0	0	0	
Lead	-0.000270	0.0039	0.0100	0	0	0	0	0	0	0	0	
Selenium	0.007250	0.0089	0.0200	0	0	0	0	0	0	0	0	
Silver	0.000010	0.0018	0.0050	0	0	0	0	0	0	0	0	

Sample ID: **ICSA** Client ID: Units: **mg/L** Prep Date: Run No: **472657**
SampleType: **ICSA** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R472657** Seq No: **10887149**
Analysis Date / Time: **Dec 15 2021 9:51AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.003010	0.0104	0.0500	0	0	0	80	120	0	0	0	
Barium	0.002270	0.0048	0.100	0	0	0	80	120	0	0	0	
Cadmium	0.000890	0.0016	0.0050	0	0	0	80	120	0	0	0	
Chromium	0.001860	0.0067	0.0100	0	0	0	80	120	0	0	0	
Lead	-0.008420	0.0039	0.0100	0	0	0	80	120	0	0	0	
Selenium	0.002010	0.0089	0.0200	0	0	0	80	120	0	0	0	
Silver	0.000040	0.0018	0.0050	0	0	0	80	120	0	0	0	

Sample ID: **ICSAB** Client ID: Units: **mg/L** Prep Date: Run No: **472657**
SampleType: **ICSAB** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R472657** Seq No: **10887150**
Analysis Date / Time: **Dec 15 2021 9:54AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.4714	0.0104	0.0500	0.5000	0	94.3	80	120	0	0	0	
Barium	0.4970	0.0048	0.100	0.5000	0	99.4	80	120	0	0	0	
Cadmium	0.5149	0.0016	0.0050	0.5000	0	103	80	120	0	0	0	
Chromium	0.4951	0.0067	0.0100	0.5000	0	99.0	80	120	0	0	0	
Lead	0.4866	0.0039	0.0100	0.5000	0	97.3	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472657

Sample ID: **ICSAB** Client ID: Units: **mg/L** Prep Date: Run No: **472657**
SampleType: **ICSAB** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R472657** Seq No: **10887150**
Analysis Date / Time: **Dec 15 2021 9:54AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Selenium	0.4786	0.0089	0.0200	0.5000	0	95.7	80	120	0	0	0	
Silver	0.05248	0.0018	0.0050	0.0500	0	105	80	120	0	0	0	

Sample ID: **ICV** Client ID: Units: **mg/L** Prep Date: Run No: **472657**
SampleType: **ICV** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R472657** Seq No: **10887146**
Analysis Date / Time: **Dec 15 2021 9:36AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.4925	0.0104	0.0500	0.5000	0	98.5	90	110	0	0	0	
Barium	0.5096	0.0048	0.100	0.5000	0	102	90	110	0	0	0	
Cadmium	0.4982	0.0016	0.0050	0.5000	0	99.6	90	110	0	0	0	
Chromium	0.5074	0.0067	0.0100	0.5000	0	101	90	110	0	0	0	
Lead	0.5073	0.0039	0.0100	0.5000	0	101	90	110	0	0	0	
Selenium	0.5193	0.0089	0.0200	0.5000	0	104	90	110	0	0	0	
Silver	0.05020	0.0018	0.0050	0.0500	0	100	90	110	0	0	0	

Sample ID: **LCR 1** Client ID: Units: **mg/L** Prep Date: Run No: **472657**
SampleType: **CCV** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R472657** Seq No: **10887155**
Analysis Date / Time: **Dec 15 2021 10:09AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	19.39	0.0104	0.0500	20.00	0	97.0	90	110	0	0	0	
Barium	18.82	0.00483	0.100	20.00	0	94.1	90	110	0	0	0	
Cadmium	19.61	0.0016	0.0050	20.00	0	98.0	90	110	0	0	0	
Chromium	18.82	0.00673	0.0100	20.00	0	94.1	90	110	0	0	0	
Selenium	19.20	0.0089	0.0200	20.00	0	96.0	90	110	0	0	0	

Sample ID: **LCR 2** Client ID: Units: **mg/L** Prep Date: Run No: **472657**
SampleType: **CCV** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R472657** Seq No: **10887156**
Analysis Date / Time: **Dec 15 2021 10:12AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472657

Sample ID: **LCR 2** Client ID: Units: **mg/L** Prep Date: Run No: **472657**
SampleType: **CCV** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R472657** Seq No: **10887156**
Analysis Date / Time: **Dec 15 2021 10:12AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Silver	1.012	0.00179	0.00500	1.000	0	101	90	110	0	0	0	

Sample ID: **LCR-Pb-Inhouse** Client ID: Units: **mg/L** Prep Date: Run No: **472657**
SampleType: **CCV** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R472657** Seq No: **10887158**
Analysis Date / Time: **Dec 15 2021 10:18AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	211.7	0.0039	0.0100	200.0	0	106	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472659

Sample ID: **CCB**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **472659**
SampleType: **CCB**	TestCode: **Mercury, Total** **SW7470A**					BatchID: **R472659**					Seq No: **10887788**
						Analysis Date / Time: **Dec 15 2021 3:08PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Mercury	0	0.000142	0.000200	0	0	0	0	0	0	0	10

Sample ID: **CCB**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **472659**
SampleType: **CCB**	TestCode: **Mercury, Total** **SW7470A**					BatchID: **R472659**					Seq No: **10887797**
						Analysis Date / Time: **Dec 15 2021 3:44PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Mercury	0.000016	0.000142	0.000200	0	0	0	0	0	0	0	10

Sample ID: **CCV**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **472659**
SampleType: **CCV**	TestCode: **Mercury, Total** **SW7470A**					BatchID: **R472659**					Seq No: **10887784**
						Analysis Date / Time: **Dec 15 2021 3:05PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Mercury	0.001983	0.000142	0.000200	0.0020	0	99.2	90	110	0	0	0

Sample ID: **CCV**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **472659**
SampleType: **CCV**	TestCode: **Mercury, Total** **SW7470A**					BatchID: **R472659**					Seq No: **10887796**
						Analysis Date / Time: **Dec 15 2021 3:39PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Mercury	0.001861	0.000142	0.000200	0.0020	0	93.0	90	110	0	0	0

Sample ID: **CRA 0.16**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **472659**
SampleType: **CRA**	TestCode: **Mercury, Total** **SW7470A**					BatchID: **R472659**					Seq No: **10887759**
						Analysis Date / Time: **Dec 15 2021 1:57PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Mercury	0.000152	0.00014	0.00020	0.0002	0	95.0	70	130	0	0	0

Sample ID: **ICB**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **472659**
SampleType: **ICB**	TestCode: **Mercury, Total** **SW7470A**					BatchID: **R472659**					Seq No: **10887755**
						Analysis Date / Time: **Dec 15 2021 1:45PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472659

Sample ID: **ICB**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **472659**	
SampleType: **ICB**	TestCode: **Mercury, Total** **SW7470A**					BatchID: **R472659**				Seq No: **10887755**	
						Analysis Date / Time: **Dec 15 2021 1:45PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.000012	0.000142	0.000200	0	0	0	0	0	0	0	0	

Sample ID: **ICV**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **472659**	
SampleType: **ICV**	TestCode: **Mercury, Total** **SW7470A**					BatchID: **R472659**				Seq No: **10887757**	
						Analysis Date / Time: **Dec 15 2021 1:49PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.001995	0.000142	0.000200	0.0020	0	99.8	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472660

Sample ID: **CCB**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **472660**
SampleType: **CCB**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **R472660**					Seq No: **10888052**
						Analysis Date / Time: **Dec 15 2021 3:44PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Mercury	0.000016	0.0000600	0.000500	0	0	0	0	0	0	0	0

Sample ID: **CCB**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **472660**
SampleType: **CCB**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **R472660**					Seq No: **10888059**
						Analysis Date / Time: **Dec 15 2021 4:33PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Mercury	0.000012	0.0000600	0.000500	0	0	0	0	0	0	0	0

Sample ID: **CCB**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **472660**
SampleType: **CCB**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **R472660**					Seq No: **10888897**
						Analysis Date / Time: **Dec 15 2021 7:42PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Mercury	0.000036	0.0000600	0.000500	0	0	0	0	0	0	0	0

Sample ID: **CCB**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **472660**
SampleType: **CCB**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **R472660**					Seq No: **10888902**
						Analysis Date / Time: **Dec 15 2021 8:06PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Mercury	0.000036	0.0000600	0.000500	0	0	0	0	0	0	0	0

Sample ID: **CCV**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **472660**
SampleType: **CCV**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **R472660**					Seq No: **10888051**
						Analysis Date / Time: **Dec 15 2021 3:39PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Mercury	0.001861	0.0000600	0.000500	0.0020	0	93.0	90	110	0	0	0

Sample ID: **CCV**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **472660**
SampleType: **CCV**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **R472660**					Seq No: **10888058**
						Analysis Date / Time: **Dec 15 2021 4:25PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472660

Sample ID: **CCV**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **472660**	
SampleType: **CCV**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **R472660**				Seq No: **10888058**	
						Analysis Date / Time: **Dec 15 2021 4:25PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.001930	0.0000600	0.000500	0.0020	0	96.5	90	110	0	0	0	

Sample ID: **CCV**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **472660**	
SampleType: **CCV**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **R472660**				Seq No: **10888896**	
						Analysis Date / Time: **Dec 15 2021 7:34PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.002046	0.0000600	0.000500	0.0020	0	102	90	110	0	0	0	

Sample ID: **CCV**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **472660**	
SampleType: **CCV**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **R472660**				Seq No: **10888901**	
						Analysis Date / Time: **Dec 15 2021 7:58PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.001965	0.0000600	0.000500	0.0020	0	98.2	90	110	0	0	0	

Sample ID: **CRA 0.16**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **472660**	
SampleType: **CRA**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **R472660**				Seq No: **10888050**	
						Analysis Date / Time: **Dec 15 2021 1:57PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.000152	0.00006	0.00050	0.0002	0	95.0	70	130	0	0	0	

Sample ID: **ICB**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **472660**	
SampleType: **ICB**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **R472660**				Seq No: **10888048**	
						Analysis Date / Time: **Dec 15 2021 1:45PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.000012	0.0000600	0.000500	0	0	0	0	0	0	0	0	

Sample ID: **ICV**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **472660**	
SampleType: **ICV**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **R472660**				Seq No: **10888049**	
						Analysis Date / Time: **Dec 15 2021 1:49PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name Lawrenceville Lithium Battery Fire
Workorder: 2112G62

ANALYTICAL QC SUMMARY REPORT

BatchID: R472660

Sample ID: **ICV** Client ID: Units: **mg/L** Prep Date: Run No: **472660**
SampleType: **ICV** TestCode: **MERCURY, TCLP SW1311/7470A** BatchID: **R472660** Seq No: **10888049**
Analysis Date / Time: **Dec 15 2021 1:49PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.001995	0.0000600	0.000500	0.0020	0	99.8	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

End of Report

Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **12/15/2021 10:25:0**
Prep End Date: **12/16/2021 10:24:0**

Prep Batch **327327** Prep Code: **7470A_W_P** Technician: **Galina Ruth**

Prep Factor Units: **mL / mL**

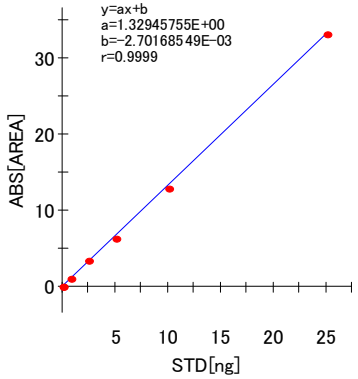
Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2112A10-001B	Aqueous		5	0	0	5	1.000	12/15/2021	12/16/2021
2112A57-007A	Aqueous		5	0	0	5	1.000	12/15/2021	12/16/2021
2112A58-007A	Aqueous		5	0	0	5	1.000	12/15/2021	12/16/2021
2112A59-007A	Aqueous		5	0	0	5	1.000	12/15/2021	12/16/2021
2112A60-007A	Aqueous		5	0	0	5	1.000	12/15/2021	12/16/2021
2112C45-005B	Groundwater		5	0	0	5	1.000	12/15/2021	12/16/2021
2112C45-006B	Groundwater		1	0	0	5	5.000	12/15/2021	12/16/2021
2112G62-001B	Surface Water		5	0	0	5	1.000	12/15/2021	12/16/2021
2112G62-002B	Surface Water		5	0	0	5	1.000	12/15/2021	12/16/2021
2112G62-003B	Surface Water		5	0	0	5	1.000	12/15/2021	12/16/2021
2112G62-003BMS	Surface Water		5	0	0	5	1.000	12/15/2021	12/16/2021
2112G62-003BMSD	Surface Water		5	0	0	5	1.000	12/15/2021	12/16/2021
2112G62-011B	Surface Water		5	0	0	5	1.000	12/15/2021	12/16/2021
2112G62-012B	Surface Water		5	0	0	5	1.000	12/15/2021	12/16/2021
2112G62-012BMS	Surface Water		5	0	0	5	1.000	12/15/2021	12/16/2021
LCS-327327			5	0	0	5	1.000	12/15/2021	12/16/2021
MB-327327			5	0	0	5	1.000	12/15/2021	12/16/2021

Title : 245.1/7470 by RA-4500
Date : 12/15/2021
Name : GR
Memo : Samples prepped at loaded by GR and checked NM

Method

```
SemiAutoDigest(Pretreatment:with)
Waiting time          : 0min
Color check1 try num  : Disable
Heating temp          : 95degC
Heating time          : 120min
Cooling time          : 45min
Color check2          : Enable
1% HONH3Cl            : 3.0mL
10w/v% SnCl2          : 0.3mL
Measurement Time(sec) : 120sec
Since measurement conditions are changed
 correspond with a measurement result.
```

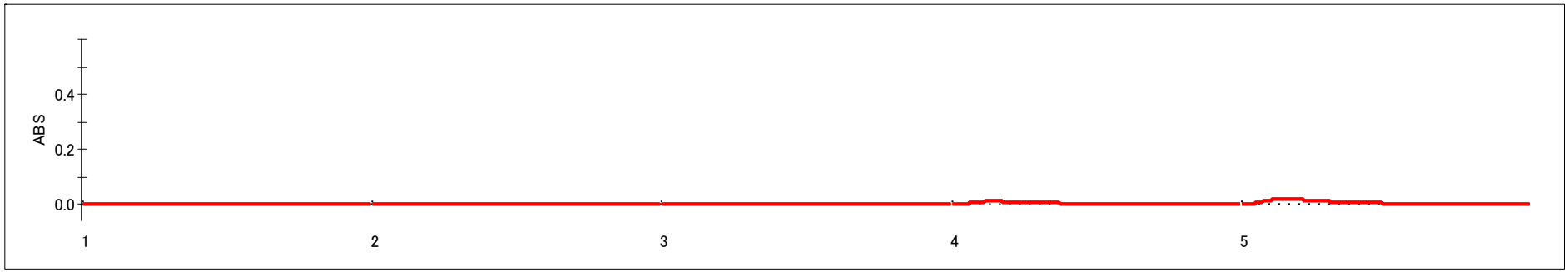
Calib

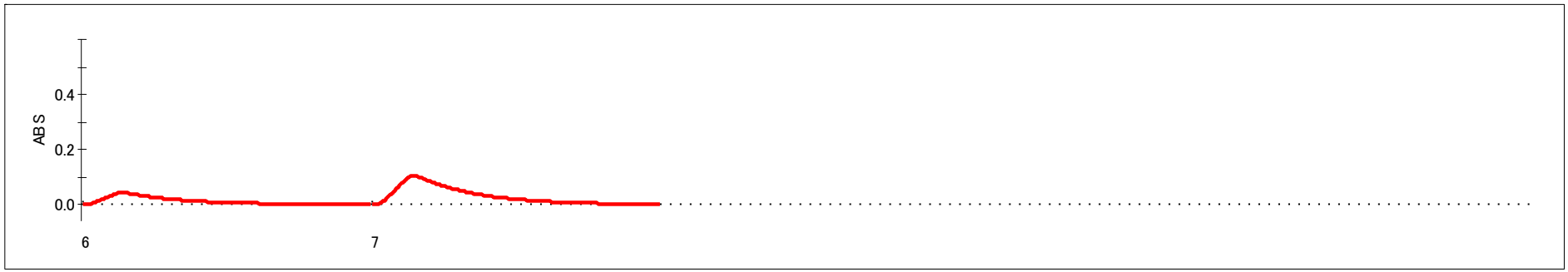


STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	Color		TIME			Note
									[1]	[2]	Pre-t.	M.START	M.END	
1	0.000	5.000	5.000	5.000	0.000	0.0830	0.0645	-	-	OK		13:16	13:18	
2	0.000	5.000	5.000	5.000	0.000	0.0711	0.0555	-	-	OK		13:20	13:22	
3	0.160	5.000	5.000	5.000	0.800	1.0333	0.7793	2.6	-	OK		13:24	13:26	
4	0.500	5.000	5.000	5.000	2.500	3.4206	2.5750	3.0	-	OK		13:28	13:30	
5	1.000	5.000	5.000	5.000	5.000	6.5138	4.9016	2.0	-	OK		13:32	13:34	
6	2.000	5.000	5.000	5.000	10.000	13.0954	9.8522	1.5	-	OK		13:35	13:38	
7	5.000	5.000	5.000	5.000	25.000	33.3294	25.0720	0.3	-	OK		13:39	13:41	

NIPPON INSTRUMENTS CORPORATION





SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Color		TIME			Note
								[1]	[2]	Pre-t.	M.STAR1	M.END	
1	ICB	5.000	5.000	5.000	0.0797	0.0620	0.012	-	OK		13:43	13:45	
2	ICV	5.000	5.000	5.000	13.2559	9.9729	1.995	-	OK		13:47	13:49	
3	IPC 2.0	5.000	5.000	5.000	13.1249	9.8744	1.975	-	OK		13:51	13:53	
4	CRA 0.16	5.000	5.000	5.000	1.0106	0.7622	0.152	-	OK		13:55	13:57	
5	MB-327327	5.000	5.000	5.000	0.0732	0.0571	0.011	-	OK		13:59	14:01	
6	LCS-327327	5.000	5.000	5.000	25.7540	19.3738	3.875	-	OK		14:03	14:05	
7	2112G62-003B	5.000	5.000	5.000	0.0948	0.0733	0.015	-	OK		14:07	14:09	
8	2112G62-003BMS	5.000	5.000	5.000	19.9738	15.0261	3.005	-	OK		14:11	14:13	
9	2112G62-003MSD	5.000	5.000	5.000	19.1931	14.4388	2.888	-	OK		14:15	14:17	
10	2112G62-012B	5.000	5.000	5.000	0.0703	0.0549	0.011	-	OK		14:19	14:21	
11	2112G62-012BMS	5.000	5.000	5.000	26.7388	20.1146	4.023	-	OK		14:23	14:25	
12	2112G62-001B	5.000	5.000	5.000	0.1008	0.0779	0.016	-	OK		14:27	14:29	

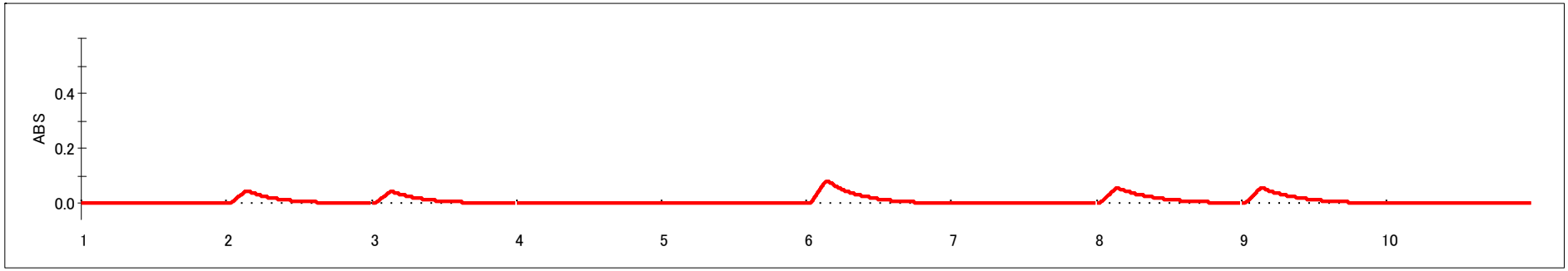
NIPPON INSTRUMENTS CORPORATION

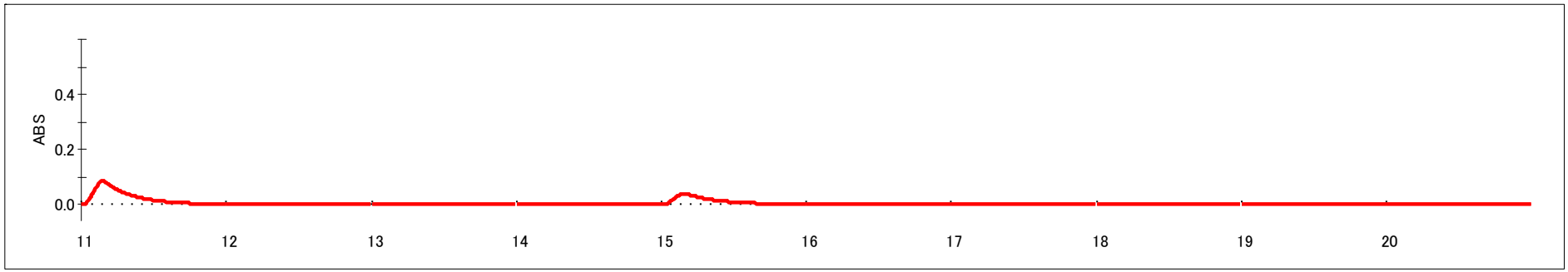
No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Color		TIME			Note
								[1]	[2]	Pre-t.	M.START	M.END	
13	2112G62-002B	5.000	5.000	5.000	0.1018	0.0786	0.016	-	OK		14:31	14:33	
14	2112G62-011B	5.000	5.000	5.000	0.0726	0.0566	0.011	-	OK		14:35	14:37	
15	CCV	5.000	5.000	5.000	13.1778	9.9142	1.983	-	-		15:03	15:05	
16	CCB	5.000	5.000	5.000	-0.0009	0.0014	0.000	-	-		15:06	15:08	
17	2112A10-001B	5.000	5.000	5.000	0.0793	0.0617	0.012	-	OK		14:50	14:52	
18	2112A57-007A	5.000	5.000	5.000	0.1177	0.0906	0.018	-	OK		15:11	15:13	
19	2112A58-007A	5.000	5.000	5.000	0.0988	0.0763	0.015	-	OK		15:15	15:17	
20	2112A59-007A	5.000	5.000	5.000	0.1507	0.1154	0.023	-	OK		15:19	15:21	
21	2112A60-007A	5.000	5.000	5.000	0.0981	0.0758	0.015	-	OK		15:23	15:25	
22	2112C45-005B	5.000	5.000	5.000	0.2108	0.1606	0.032	-	OK		15:27	15:29	
23	2112C45-006B/5X	5.000	5.000	5.000	0.9274	0.6996	0.140	-	OK		15:31	15:33	
24	CCV	5.000	5.000	5.000	12.3666	9.3040	1.861	-	OK		15:37	15:39	
25	CCB	5.000	5.000	5.000	0.1059	0.0817	0.016	-	OK		15:42	15:44	
26	MB-327387	5.000	5.000	5.000	0.0947	0.0733	0.015	-	OK		15:46	15:48	
27	LCS-327387	5.000	5.000	5.000	27.0889	20.3779	4.076	-	-		16:01	16:03	
28	2112G62-010B	5.000	5.000	5.000	0.0713	0.0557	0.011	-	OK		15:54	15:56	
29	2112H10-001C	5.000	5.000	5.000	0.0951	0.0736	0.015	-	OK		16:15	16:17	
30	2112H10-002C	5.000	5.000	5.000	0.0776	0.0604	0.012	-	OK		16:19	16:21	
31	CCV	5.000	5.000	5.000	12.8265	9.6500	1.930	-	OK		16:23	16:25	
32	CCB	5.000	5.000	5.000	0.0778	0.0606	0.012	-	OK		16:31	16:33	
33	CCV	5.000	5.000	5.000	13.5973	10.2297	2.046	-	OK		19:32	19:34	
34	CCB	5.000	5.000	5.000	0.2361	0.1796	0.036	-	OK		19:40	19:42	
35	2112G62-010BMS	5.000	5.000	5.000	26.3266	19.8045	3.961	-	OK		19:44	19:46	
36	2112G62-010BMSD	5.000	5.000	5.000	26.9460	20.2704	4.054	-	OK		19:48	19:50	
37	2112A75-001A	5.000	5.000	5.000	0.2510	0.1908	0.038	-	OK		19:52	19:54	
38	CCV	5.000	5.000	5.000	13.0577	9.8239	1.965	-	OK		19:56	19:58	
39	CCB	5.000	5.000	5.000	0.2344	0.1783	0.036	-	OK		20:04	20:06	

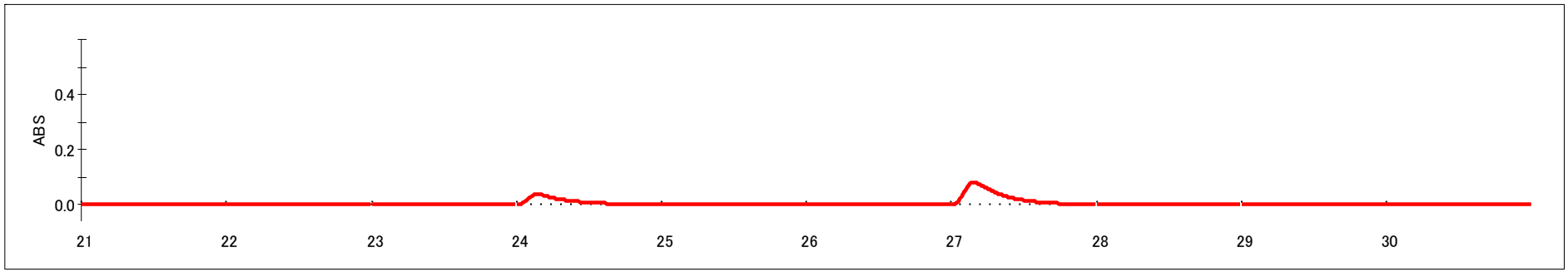
Statistics

No.	NAME	TRY	AV [ug/L]	SD [ug/L]	Cv [%]
1	CCV	5	1.9570	0.068202	3.49

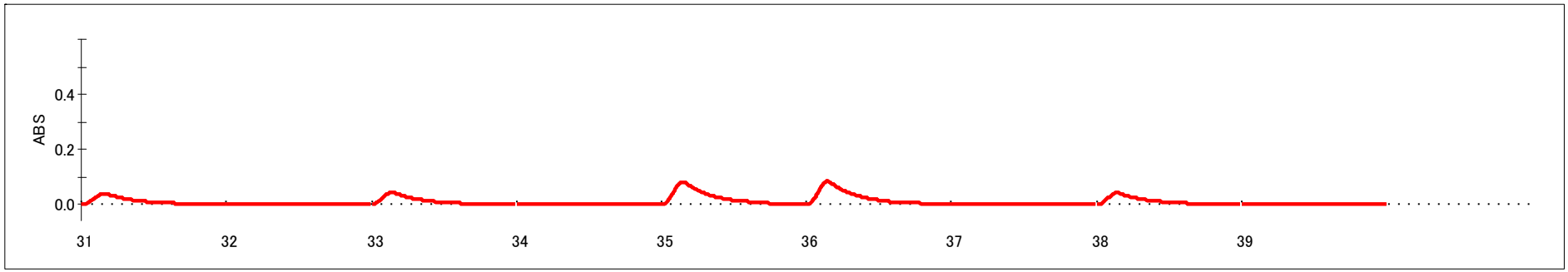
No.	NAME	TRY	AV [ug/L]	SD [ug/L]	Cv [%]
2	CCB	5	0.0200	0.015748	78.74







NIPPON INSTRUMENTS CORPORATION



Self Check

Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **12/14/2021 11:21:0**
Prep End Date: **12/15/2021 11:20:0**

Prep Batch **327295** Prep Code: **3010A** Technician: **Svetlana Alikova**

Prep Factor Units: **mL / mL**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2112G62-001B	Surface Water		50	0	0	50	1.000	12/14/2021	12/15/2021
2112G62-002B	Surface Water		50	0	0	50	1.000	12/14/2021	12/15/2021
2112G62-003B	Surface Water		50	0	0	50	1.000	12/14/2021	12/15/2021
2112G62-003BMS	Surface Water		50	0	0	50	1.000	12/14/2021	12/15/2021
2112G62-003BMSD	Surface Water		50	0	0	50	1.000	12/14/2021	12/15/2021
2112G62-003BPDS	Surface Water		50	0	0	50	1.000	12/14/2021	12/15/2021
2112G62-011B	Surface Water		50	0	0	50	1.000	12/14/2021	12/15/2021
2112G62-012B	Surface Water		50	0	0	50	1.000	12/14/2021	12/15/2021
LCS-327295			50	0	0	50	1.000	12/14/2021	12/15/2021
MB-327295			50	0	0	50	1.000	12/14/2021	12/15/2021

211214A.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Calibration Correlation Coefficient Limit: 0.998

Pump Speed (rpm): 12

Sample introduction: ASX-520

Sample Uptake Time (s): 35

Sample uptake fast pump: On

SVS 1 delay (s): N/A

Rinse time (s): 30

Rinse time fast pump: On

Oxygen Injection Mode: Off

Standard addition: Off

Reagent Blank: Off

QC Active: On

Reslope: Off
Condition Set 1

Element	Wavelength(nm)	Label	Type	Background Correction	Points Per Peak	Calibration Fit
Ag	328.068	Ag	Analyte	Fitted	2	Linear Through Blank
Al	308.215	Al	Analyte	Fitted	2	Weighted Linear Through Blank
As	193.696	As	Analyte	Fitted	2	Linear Weighted
Ba	413.064	Ba	Analyte	Fitted	2	Linear Through Blank
Be	313.042	Be	Analyte	Fitted	2	Linear Through Blank
Ca	373.690	Ca	Analyte	Off-Peak Left+Right	2	Weighted Linear Through Blank
Cd	228.802	Cd	Analyte	Fitted	2	Weighted Linear Through Blank
Co	230.786	Co	Analyte	Fitted	2	Linear Through Blank
Cr	267.716	Cr	Analyte	Fitted	2	Linear Weighted
Cu	327.395	Cu	Analyte	Fitted	2	Linear Through Blank
Fe	238.204	Fe	Analyte	Off-Peak Right	2	Linear Weighted
K	766.491	K	Analyte	Fitted	2	Weighted Linear Through Blank
Mg	279.800	Mg	Analyte	Fitted	2	Weighted Linear Through Blank
Mn	257.610	Mn	Analyte	Fitted	2	Linear Through Blank
Mo	204.598	Mo	Analyte	Fitted	2	Weighted Linear Through Blank
Na	589.592	Na	Analyte	Fitted	2	Linear Through Blank
Ni	221.648	Ni	Analyte	Fitted	2	Weighted Linear Through Blank
Pb	220.353	Pb	Analyte	Off-Peak Left+Right	2	Weighted Linear Through Blank
Sb	217.582	Sb	Analyte	Fitted	2	Weighted Linear Through Blank
Se	196.026	Se	Analyte	Off-Peak Left	2	Linear Through Blank
Sn	189.925	Sn	Analyte	Fitted	2	Linear Through Blank
Ti	337.280	Ti	Analyte	Fitted	2	Linear Through Blank
Tl	351.923	Tl	Analyte	Off-Peak Left	2	Linear Weighted

211214A.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Element	Wavelength(nm)	Label	Type	Background Correction	Points Per Peak	Calibration Fit
V	311.837	V	Analyte	Fitted	2	Linear Through Blank
Zn	206.200	Zn	Analyte	Fitted	2	Weighted Linear Through Blank
B	249.772	B	Analyte	Fitted	2	Weighted Linear Through Blank
Sr	407.771	Sr	Analyte	Fitted	2	Weighted Linear Through Blank
S	181.972	S	Analyte	Off-Peak Right	2	Weighted Linear Through Blank
P	213.618	P	Analyte	Off-Peak Left+Right	2	Weighted Linear Through Blank

Read time (s): 30

RF power (kW): 1.2

Stabilization time (s): 20

Viewing mode: SVDV

Viewing height (mm): 8

Nebulizer flow(L/min): 0.75

Plasma flow(L/min): 12

Aux flow(L/min): 1

Make up flow(L/min): 0

Oxygen %: 0

Calibration parameters:

Label (Wavelength nm)	Minimum Concentration	Maximum Concentration	Calibration Error
Ag (328.068)	0 mg/L	5 mg/L	20 %
Al (308.215)	0 mg/L	500 mg/L	20 %
As (193.696)	0 mg/L	50 mg/L	20 %
Ba (413.064)	0 mg/L	50 mg/L	20 %
Be (313.042)	0 mg/L	10 mg/L	20 %
Ca (373.690)	0 mg/L	100 mg/L	20 %
Cd (228.802)	0 mg/L	20 mg/L	20 %
Co (230.786)	0 mg/L	50 mg/L	20 %
Cr (267.716)	0 mg/L	50 mg/L	20 %
Cu (327.395)	0 mg/L	50 mg/L	20 %
Fe (238.204)	0 mg/L	100 mg/L	20 %
K (766.491)	0 mg/L	200 mg/L	20 %
Mg (279.800)	0 mg/L	100 mg/L	20 %
Mn (257.610)	0 mg/L	20 mg/L	20 %
Mo (204.598)	0 mg/L	100 mg/L	20 %
Na (589.592)	0 mg/L	200 mg/L	20 %
Ni (221.648)	0 mg/L	50 mg/L	20 %

211214A.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Label (Wavelength nm)	Minimum Concentration	Maximum Concentration	Calibration Error
Pb (220.353)	0 mg/L	50 mg/L	20 %
Sb (217.582)	0 mg/L	100 mg/L	20 %
Se (196.026)	0 mg/L	50 mg/L	20 %
Sn (189.925)	0 mg/L	100 mg/L	20 %
Ti (337.280)	0 mg/L	50 mg/L	20 %
Tl (351.923)	0 mg/L	50 mg/L	20 %
V (311.837)	0 mg/L	50 mg/L	20 %
Zn (206.200)	0 mg/L	50 mg/L	20 %
B (249.772)	0 mg/L	50 mg/L	20 %
Sr (407.771)	0 mg/L	50 mg/L	20 %
S (181.972)	0 mg/L	50 mg/L	50 %
P (213.618)	0 mg/L	50 mg/L	20 %

211214A.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Sequence table:

Rack:Tube	Sample Label	Weight (g)	Volume (mL)	Dilution
4:1	Blank	1.0	1.0	1.0
4:2	ICAL 1	1.0	1.0	1.0
4:3	ICAL 2	1.0	1.0	1.0
4:4	ICAL 3	1.0	1.0	1.0
4:4	Lab Control Sample	1.0	1.0	1.0
4:5	Initial Calib Verif	1.0	1.0	1.0
4:1	Initial Calib Blank	1.0	1.0	1.0
4:2	CRI	1.0	1.0	1.0
4:6	Interf Check A	1.0	1.0	1.0
4:7	Interf Check AB	1.0	1.0	1.0
4:2	CRI	1.0	1.0	1.0
1:1	CRI-2	1.0	1.0	1.0
1:2	CRI-5	1.0	1.0	1.0
1:3	CRI-MIDLEVEL	1.0	1.0	1.0
1:4	LCR 1	1.0	1.0	1.0
1:5	LCR 2	1.0	1.0	1.0
1:6	LCR 3	1.0	1.0	1.0
1:7	LCR-Pb-Inhouse	1.0	1.0	1.0
1:8	MB-327304	1.0	1.0	1.0
1:9	LCS-327304	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
1:10	2112G62-006E	1.0	1.0	1.0
1:11	2112G62-006EMS	1.0	1.0	1.0
1:12	2112G62-006EMSD	1.0	1.0	1.0
1:13	2112G62-006EPDS	1.0	1.0	1.0
1:14	2112G62-004D	1.0	1.0	1.0
1:15	2112G62-005D	1.0	1.0	1.0
1:16	2112G62-007C	1.0	1.0	1.0
1:17	2112G62-008D	1.0	1.0	1.0
1:18	2112G62-009B	1.0	1.0	1.0
1:19	2112G62-010A	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
1:20	2112G62-006E/20x	1.0	1.0	1.0
1:21	2112G62-006EMS/20x	1.0	1.0	1.0
1:22	2112G62-006EMSD/20x	1.0	1.0	1.0
1:23	2112G62-006EPDS/40x	1.0	1.0	1.0
1:24	2112G62-004D/20x	1.0	1.0	1.0
1:25	2112G62-005D/20x	1.0	1.0	1.0
1:26	2112G62-007C/20x	1.0	1.0	1.0
1:27	2112G62-008D/20x	1.0	1.0	1.0
1:28	2112G62-009B/20x	1.0	1.0	1.0
1:29	2112G62-010A/20x	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0

211214A.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Rack:Tube	Sample Label	Weight (g)	Volume (mL)	Dilution
4:1	Cont Calib Blank	1.0	1.0	1.0
1:30	MB-327295	1.0	1.0	1.0
1:31	LCS-327295	1.0	1.0	1.0
1:32	2112G62-003B	1.0	1.0	1.0
1:33	2112G62-003BMS	1.0	1.0	1.0
1:34	2112G62-003BMSD	1.0	1.0	1.0
1:35	2112G62-003BPDS	1.0	1.0	1.0
1:36	2112G62-001B	1.0	1.0	1.0
1:37	2112G62-002B	1.0	1.0	1.0
1:38	2112G62-011B	1.0	1.0	1.0
1:39	2112G62-012B	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
1:40	CRA-326673	1.0	1.0	1.0
1:41	MB-326673	1.0	1.0	1.0
1:42	RB-326673	1.0	1.0	1.0
1:43	LCS-326673	1.0	1.0	1.0
1:44	LCSD-326673	1.0	1.0	1.0
1:45	2111U58-021A	1.0	1.0	1.0
1:46	2111U58-022A	1.0	1.0	1.0
1:47	2111U58-023A	1.0	1.0	1.0
1:48	2111U58-024A	1.0	1.0	1.0
1:49	2111U58-025A	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
1:50	2111U59-021A	1.0	1.0	1.0
1:51	2111U59-022A	1.0	1.0	1.0
1:52	2111U59-023A	1.0	1.0	1.0
1:53	2111U59-024A	1.0	1.0	1.0
1:54	2111U59-025A	1.0	1.0	1.0
1:55	2111U60-021A	1.0	1.0	1.0
1:56	2111U60-022A	1.0	1.0	1.0
1:57	2111U60-023A	1.0	1.0	1.0
1:58	2111U60-024A	1.0	1.0	1.0
1:59	2111U60-025A	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
1:60	CRA-326670	1.0	1.0	1.0
2:1	MB-326670	1.0	1.0	1.0
2:2	RB-326670	1.0	1.0	1.0
2:3	LCS-326670	1.0	1.0	1.0
2:4	LCSD-326670	1.0	1.0	1.0
2:5	2111U58-001A	1.0	1.0	1.0
2:6	2111U58-002A	1.0	1.0	1.0
2:7	2111U58-003A	1.0	1.0	1.0
2:8	2111U58-004A	1.0	1.0	1.0
2:9	2111U58-005A	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0

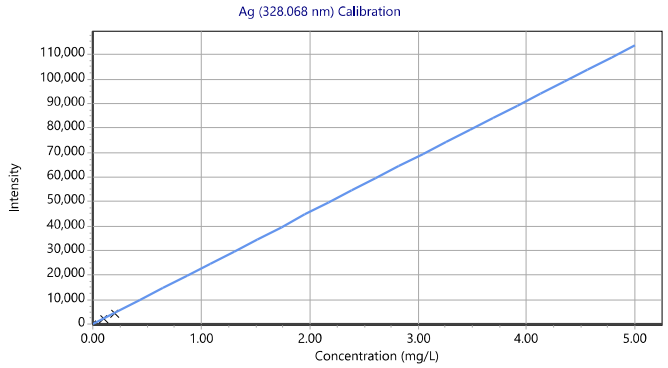
211214A.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Rack:Tube	Sample Label	Weight (g)	Volume (mL)	Dilution
4:1	Cont Calib Blank	1.0	1.0	1.0
2:10	2111U58-006A	1.0	1.0	1.0
2:11	2111U58-007A	1.0	1.0	1.0
2:12	2111U58-008A	1.0	1.0	1.0
2:13	2111U58-009A	1.0	1.0	1.0
4:3	CCV	1.0	1.0	1.0
4:1	CCB	1.0	1.0	1.0
2:14	2111U58-010A	1.0	1.0	1.0
2:15	2111U58-011A	1.0	1.0	1.0
2:16	2111U58-012A	1.0	1.0	1.0
2:17	2111U58-013A	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
2:18	2111U58-014A	1.0	1.0	1.0
2:19	2111U58-015A	1.0	1.0	1.0
2:20	2111U58-016A	1.0	1.0	1.0
2:21	2111U58-017A	1.0	1.0	1.0
2:22	2111U58-018A	1.0	1.0	1.0
2:23	2111U58-019A	1.0	1.0	1.0
2:24	2111U58-020A	1.0	1.0	1.0
4:6	Interf Check A	1.0	1.0	1.0
4:7	Interf Check AB	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0

Calibration Curves:



Ag (328.068 nm)
Intensity = 22772.97345927 * Concentration + 0.67952638
Correlation coefficient: 0.99994

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	0.67953	0.00000	0.00000	N/A
ICAL 1	112.77511	0.00500	0.00492	1.55384

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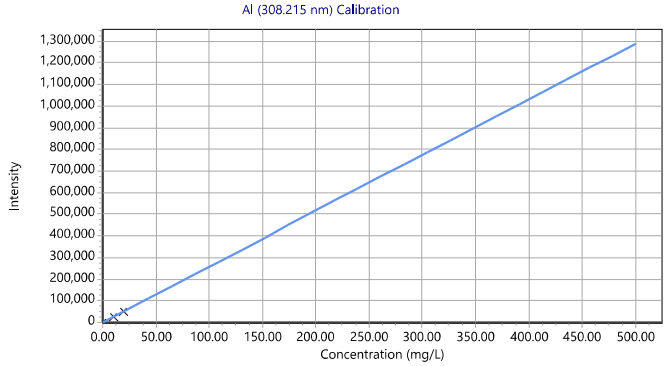
Instrument used: MY1500001

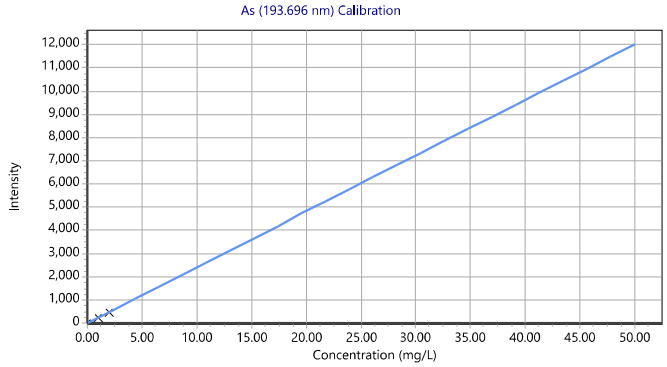
Instrument Name: OES-2
Methods: 200.7 and 6010D

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
ICAL 2	2238.92974	0.10000	0.09829	1.71463
ICAL 3	4574.84202	0.20000	0.20086	0.42963



Al (308.215 nm)
Intensity = 2578.07443975 * Concentration + 471.36335401
Correlation coefficient: 0.99987

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	471.36335	0.00000	0.00000	N/A
ICAL 1	984.44773	0.20000	0.19902	0.49077
ICAL 2	25684.95445	10.00000	9.78001	2.19991
ICAL 3	52499.07981	20.00000	20.18084	0.90422



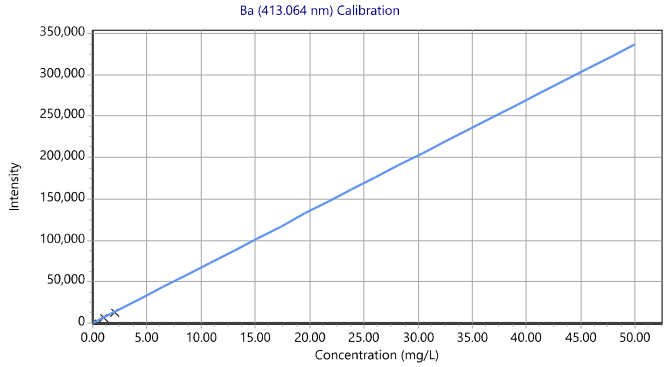
As (193.696 nm)
Intensity = 240.44021592 * Concentration + 2.76430953
Correlation coefficient: 0.99998

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.76487	0.00000	0.00416	N/A
ICAL 1	15.83923	0.05000	0.05438	8.75816
ICAL 2	241.90807	1.00000	0.99461	0.53920
ICAL 3	485.30576	2.00000	2.00691	0.34541

211214A.esws

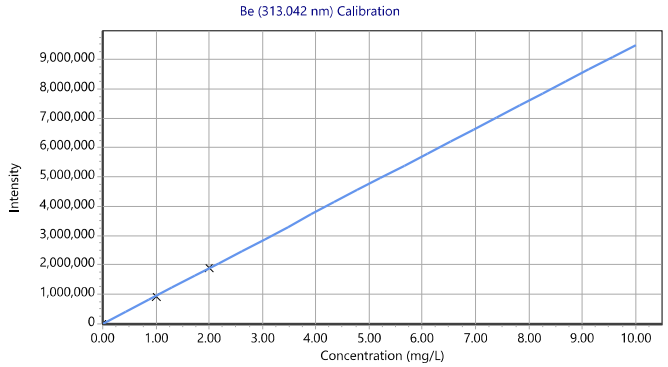
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Ba (413.064 nm)
Intensity = 6739.86962061 * Concentration + 65.60069582
Correlation coefficient: 0.99997

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	65.60070	0.00000	0.00000	N/A
ICAL 1	127.34148	0.01000	0.00916	8.39470
ICAL 2	6721.49730	1.00000	0.98754	1.24591
ICAL 3	13587.35474	2.00000	2.00623	0.31169



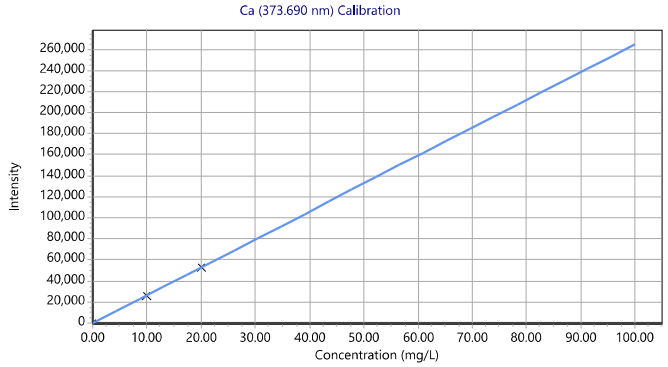
Be (313.042 nm)
Intensity = 949415.01767316 * Concentration + 149.68087125
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	149.68087	0.00000	0.00000	N/A
ICAL 1	4947.54619	0.00500	0.00505	1.06993
ICAL 2	942223.64825	1.00000	0.99227	0.77322
ICAL 3	1902650.11439	2.00000	2.00387	0.19330

211214A.esws

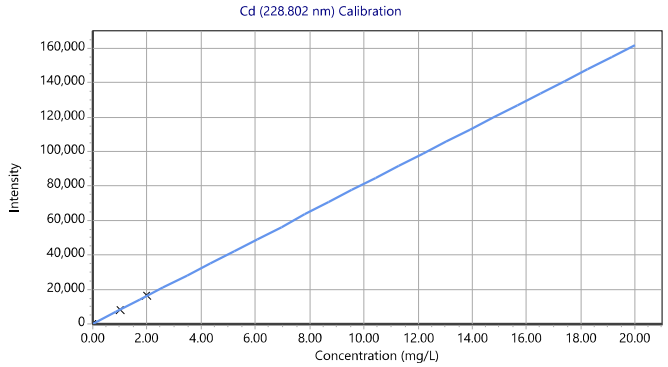
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Ca (373.690 nm)
Intensity = 2650.82291088 * Concentration - 70.83625836
Correlation coefficient: 0.99997

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-70.83626	0.00000	0.00000	N/A
ICAL 1	214.66495	0.10000	0.10770	7.70286
ICAL 2	26119.41496	10.00000	9.88005	1.19954
ICAL 3	53064.50225	20.00000	20.04485	0.22423



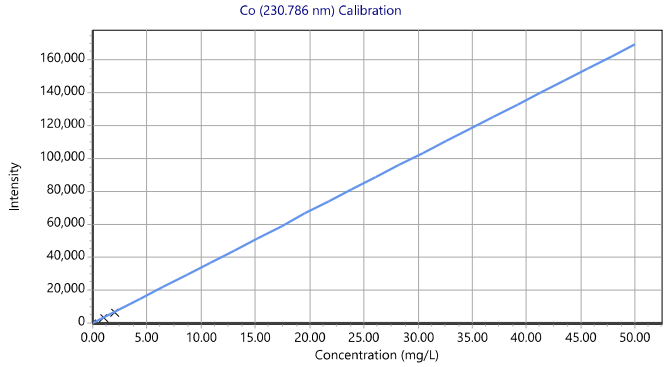
Cd (228.802 nm)
Intensity = 8099.47581842 * Concentration + 11.11314689
Correlation coefficient: 0.99995

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	11.11315	0.00000	0.00000	N/A
ICAL 1	54.39823	0.00500	0.00534	6.88367
ICAL 2	7974.58444	1.00000	0.98321	1.67918
ICAL 3	16265.61516	2.00000	2.00686	0.34293

211214A.esws

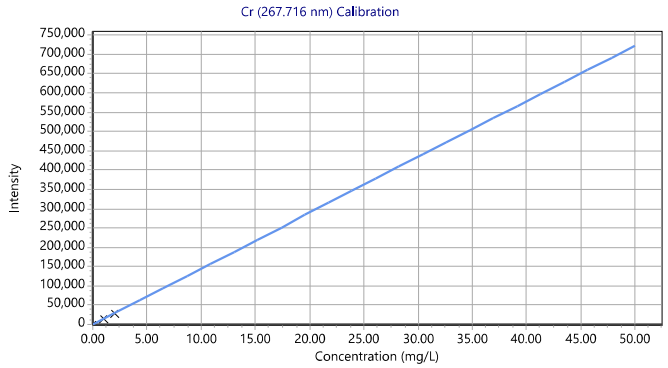
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Co (230.786 nm)
Intensity = 3385.12204634 * Concentration + 1.22194292
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1.22194	0.00000	0.00000	N/A
ICAL 1	37.46163	0.01000	0.01071	7.05579
ICAL 2	3367.59118	1.00000	0.99446	0.55398
ICAL 3	6780.83050	2.00000	2.00277	0.13832



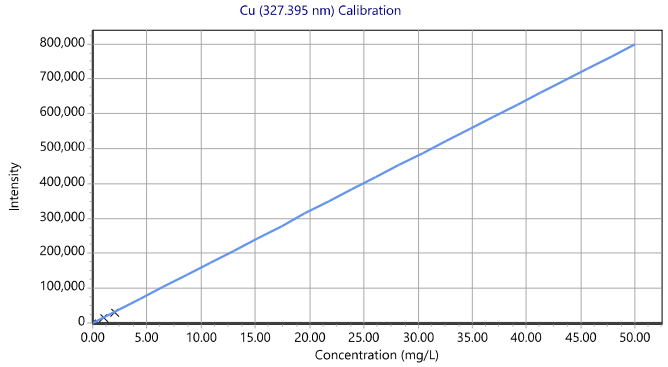
Cr (267.716 nm)
Intensity = 14464.25928008 * Concentration + 24.94359461
Correlation coefficient: 0.99998

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	13.64336	0.00000	-0.00078	N/A
ICAL 1	170.26334	0.01000	0.01005	0.46816
ICAL 2	14332.19307	1.00000	0.98914	1.08550
ICAL 3	29032.90880	2.00000	2.00549	0.27463

211214A.esws

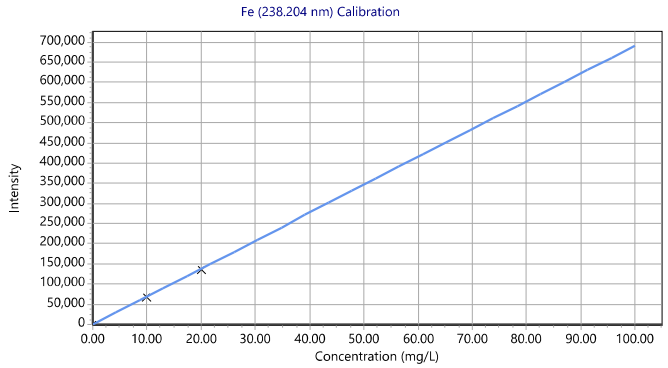
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Cu (327.395 nm)
Intensity = 15992.26553110 * Concentration + 10.34747080
Correlation coefficient: 0.99990

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	10.34747	0.00000	0.00000	N/A
ICAL 1	172.88536	0.01000	0.01016	1.63531
ICAL 2	15644.28590	1.00000	0.97759	2.24063
ICAL 3	32174.02901	2.00000	2.01120	0.56012



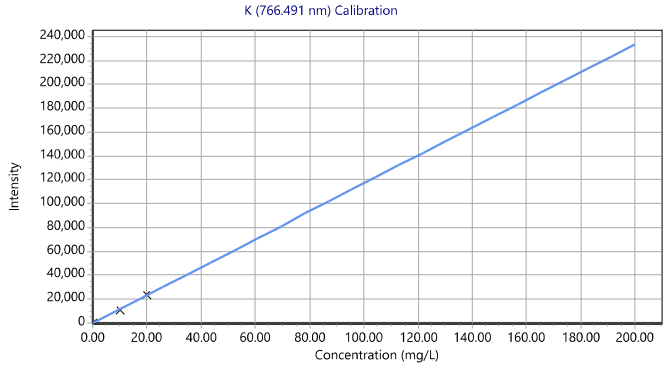
Fe (238.204 nm)
Intensity = 6914.77335024 * Concentration + 71.22773731
Correlation coefficient: 1.00000

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	47.25371	0.00000	-0.00347	N/A
ICAL 1	844.83925	0.10000	0.11188	11.87807
ICAL 2	68613.93512	10.00000	9.91250	0.87498
ICAL 3	137175.02466	20.00000	19.82766	0.86168

211214A.esws

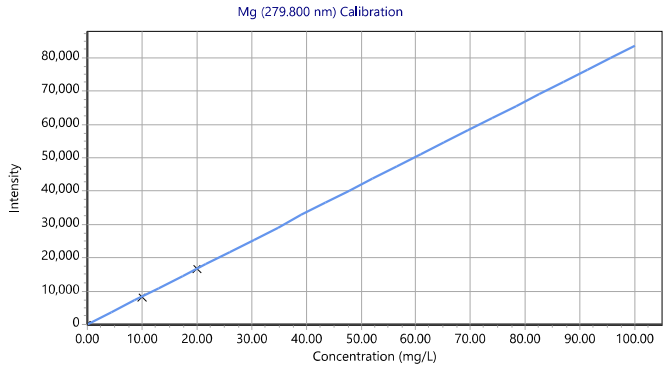
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



K (766.491 nm)
Intensity = 1168.12327758 * Concentration + 68.97273220
Correlation coefficient: 0.99979

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	68.97273	0.00000	0.00000	N/A
ICAL 1	623.71362	0.50000	0.47490	5.02015
ICAL 2	11377.16665	10.00000	9.68065	3.19349
ICAL 3	23626.72076	20.00000	20.16718	0.83588



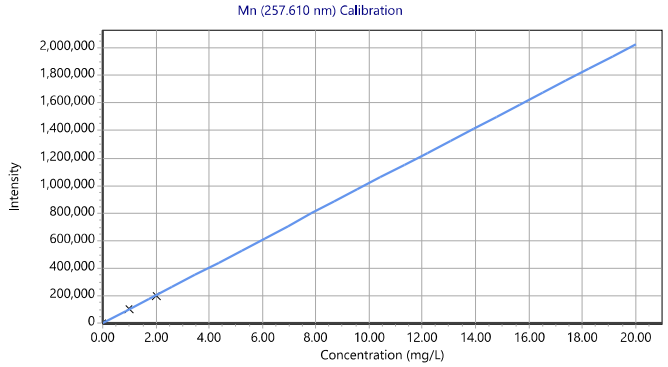
Mg (279.800 nm)
Intensity = 836.43010322 * Concentration + 5.31314376
Correlation coefficient: 0.99995

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	5.31314	0.00000	0.00000	N/A
ICAL 1	93.66722	0.10000	0.10563	5.63234
ICAL 2	8228.96283	10.00000	9.83184	1.68157
ICAL 3	16778.37474	20.00000	20.05315	0.26577

211214A.esws

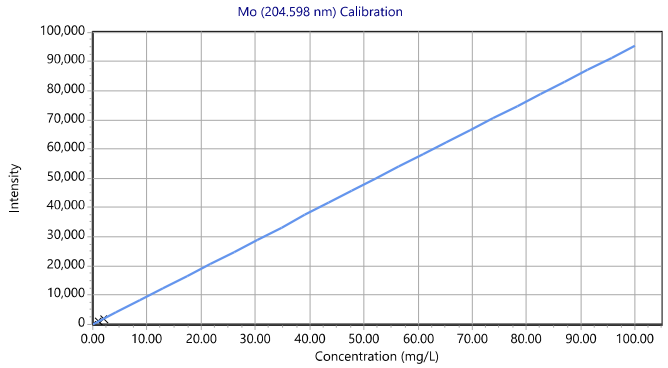
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Mn (257.610 nm)
Intensity = 101378.55810314 * Concentration + 23.88102927
Correlation coefficient: 0.99998

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	23.88103	0.00000	0.00000	N/A
ICAL 1	604.81323	0.00500	0.00573	14.60652
ICAL 2	100340.73843	1.00000	0.98953	1.04726
ICAL 3	203311.66249	2.00000	2.00523	0.26172



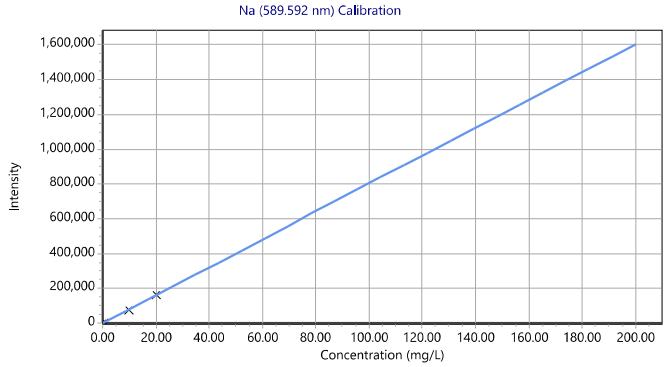
Mo (204.598 nm)
Intensity = 954.43675631 * Concentration + 2.62619332
Correlation coefficient: 0.99992

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	2.62619	0.00000	0.00000	N/A
ICAL 1	48.84433	0.05000	0.04842	3.15097
ICAL 2	940.21296	1.00000	0.98235	1.76544
ICAL 3	1925.07908	2.00000	2.01423	0.71138

211214A.esws

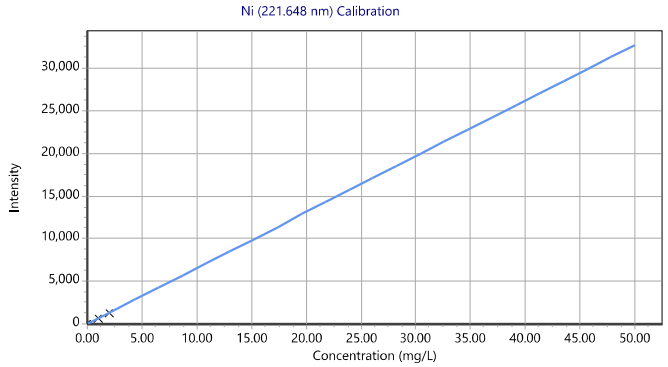
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Na (589.592 nm)
Intensity = 8021.73139285 * Concentration + 423.07241950
Correlation coefficient: 0.99988

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	423.07242	0.00000	0.00000	N/A
ICAL 1	7171.60117	1.00000	0.84128	15.87192
ICAL 2	78690.45443	10.00000	9.75692	2.43081
ICAL 3	161896.32637	20.00000	20.12948	0.64738



Ni (221.648 nm)
Intensity = 656.12423103 * Concentration + 1.91760946
Correlation coefficient: 0.99998

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1.91761	0.00000	0.00000	N/A
ICAL 1	17.16909	0.02000	0.02324	16.22401
ICAL 2	650.67737	1.00000	0.98878	1.12242
ICAL 3	1314.06548	2.00000	1.99985	0.00767

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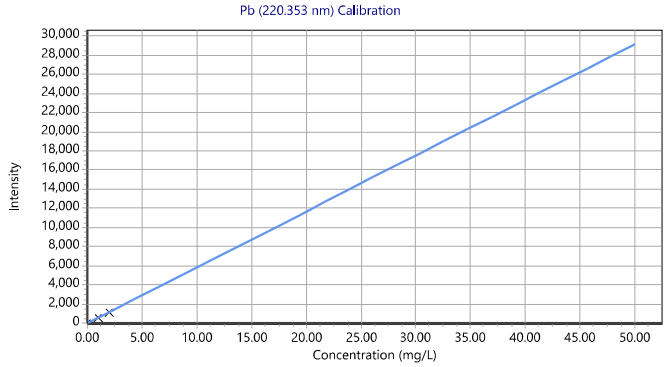
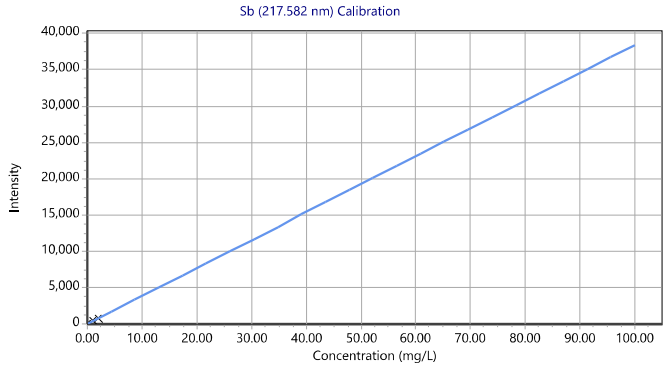
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Pb (220.353 nm)
Intensity = 583.16644009 * Concentration - 0.86902266
Correlation coefficient: 0.99997

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-0.86902	0.00000	0.00000	N/A
ICAL 1	5.05646	0.01000	0.01016	1.60880
ICAL 2	573.42246	1.00000	0.98478	1.52186
ICAL 3	1165.74490	2.00000	2.00048	0.02410



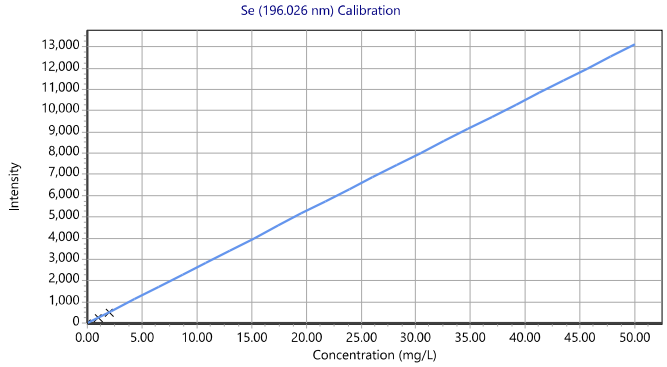
Sb (217.582 nm)
Intensity = 384.43450802 * Concentration + 0.42775670
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	0.42776	0.00000	0.00000	N/A
ICAL 1	7.44249	0.02000	0.01825	8.76560
ICAL 2	382.71449	1.00000	0.99441	0.55868
ICAL 3	772.58103	2.00000	2.00854	0.42715

211214A.esws

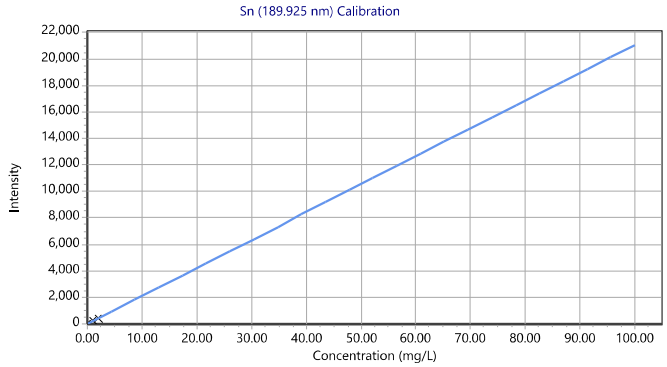
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Se (196.026 nm)
Intensity = 262.48205698 * Concentration + 7.69906288
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	7.69906	0.00000	0.00000	N/A
ICAL 1	11.96324	0.02000	0.01625	18.77206
ICAL 2	267.89927	1.00000	0.99131	0.86934
ICAL 3	533.81396	2.00000	2.00438	0.21921



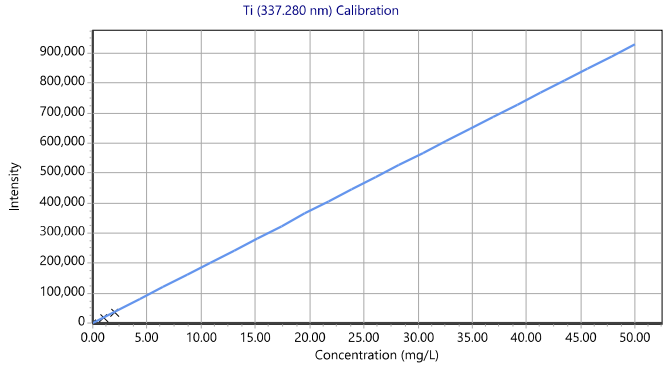
Sn (189.925 nm)
Intensity = 210.58293069 * Concentration + 1.39462632
Correlation coefficient: 0.99996

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1.39463	0.00000	0.00000	N/A
ICAL 1	12.17953	0.05000	0.05121	2.42907
ICAL 2	209.14014	1.00000	0.98653	1.34741
ICAL 3	423.97280	2.00000	2.00671	0.33533

211214A.esws

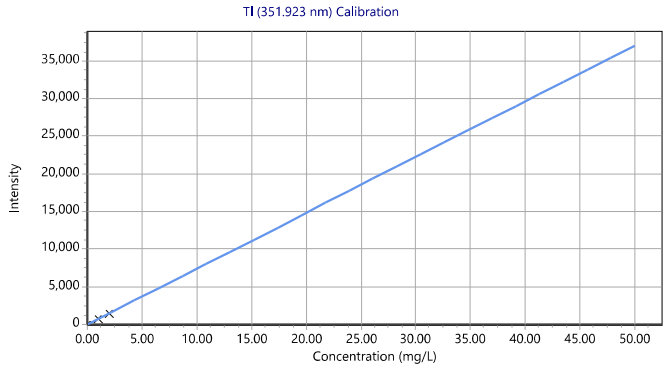
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Ti (337.280 nm)
Intensity = 18591.29870602 * Concentration + 24.65846003
Correlation coefficient: 0.99996

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	24.65846	0.00000	0.00000	N/A
ICAL 1	976.26728	0.05000	0.05119	2.37142
ICAL 2	18378.60157	1.00000	0.98723	1.27670
ICAL 3	37325.38257	2.00000	2.00635	0.31769



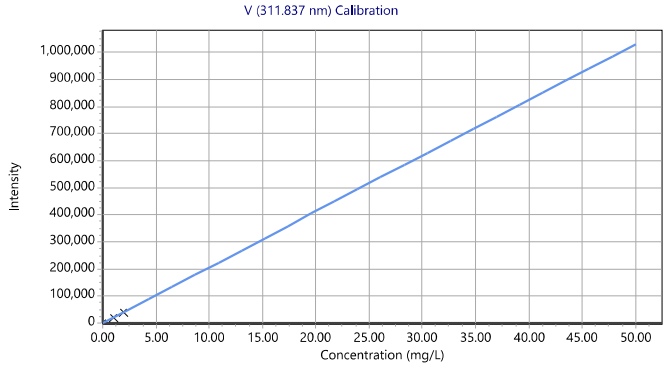
Tl (351.923 nm)
Intensity = 741.03018051 * Concentration - 6.85773631
Correlation coefficient: 0.99994

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-6.75166	0.00000	0.00014	N/A
ICAL 1	10.63604	0.02000	0.02361	18.03689
ICAL 2	722.91672	1.00000	0.98481	1.51893
ICAL 3	1483.37296	2.00000	2.01103	0.55128

211214A.esws

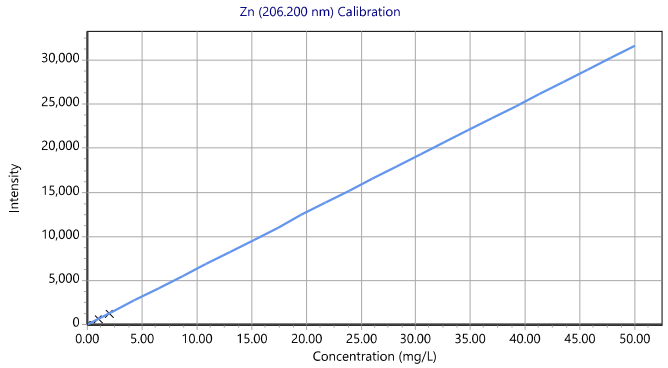
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



V (311.837 nm)
Intensity = 20628.11980065 * Concentration + 5.84263036
Correlation coefficient: 0.99993

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	5.84263	0.00000	0.00000	N/A
ICAL 1	188.84066	0.01000	0.00887	11.28710
ICAL 2	20254.85093	1.00000	0.98162	1.83784
ICAL 3	41451.75440	2.00000	2.00919	0.45974



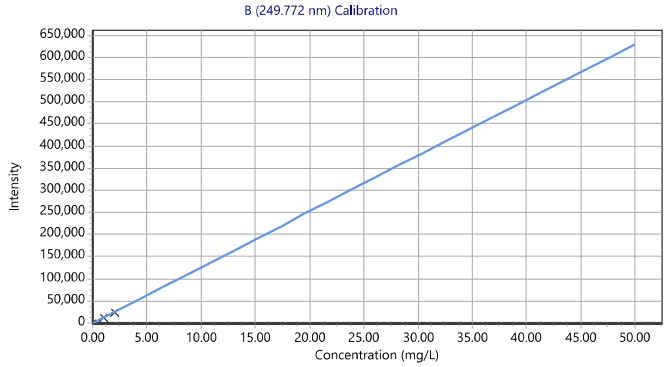
Zn (206.200 nm)
Intensity = 633.38798026 * Concentration + 3.27279792
Correlation coefficient: 0.99997

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.27280	0.00000	0.00000	N/A
ICAL 1	16.88435	0.02000	0.02149	7.45037
ICAL 2	632.46483	1.00000	0.99338	0.66246
ICAL 3	1279.80476	2.00000	2.01540	0.77014

211214A.esws

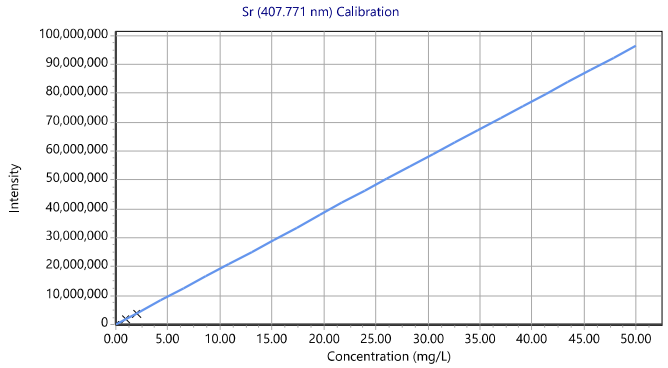
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



B (249.772 nm)
Intensity = 12605.04049299 * Concentration + 60.41434187
Correlation coefficient: 0.99986

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	60.41434	0.00000	0.00000	N/A
ICAL 1	769.30213	0.05000	0.05624	12.47688
ICAL 2	12084.77066	1.00000	0.95393	4.60676
ICAL 3	24854.03887	2.00000	1.96696	1.65194



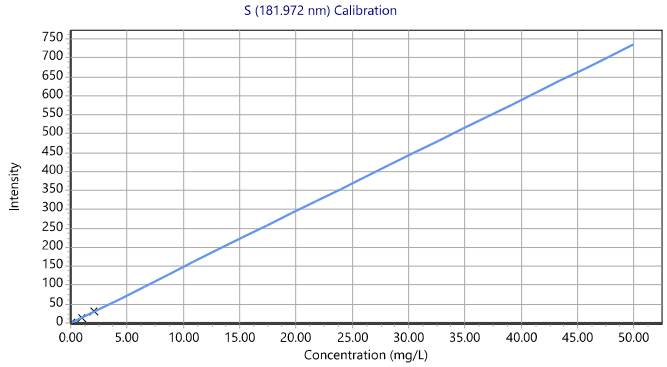
Sr (407.771 nm)
Intensity = 1931508.12192434 * Concentration + 263.82583992
Correlation coefficient: 0.99977

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	263.82584	0.00000	0.00000	N/A
ICAL 1	114597.63416	0.05000	0.05919	18.38812
ICAL 2	1839070.07176	1.00000	0.95201	4.79946
ICAL 3	3820097.86881	2.00000	1.97764	1.11784

211214A.esws

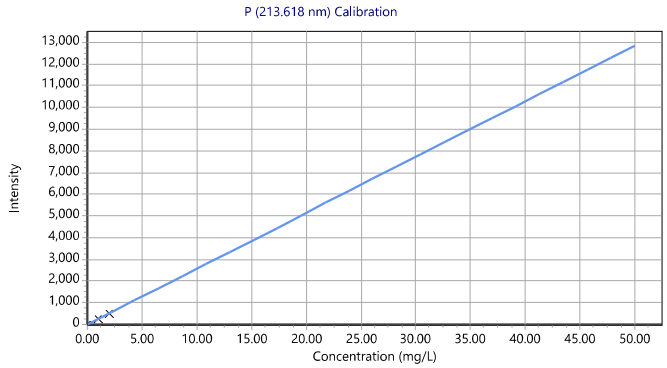
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



S (181.972 nm)
Intensity = 14.71505649 * Concentration + 0.95162158
Correlation coefficient: 0.99906

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	0.95162	0.00000	0.00000	N/A
ICAL 1	1.95180	0.05000	0.06797	35.93973
ICAL 2	15.48226	1.00000	0.98747	1.25329
ICAL 3	32.47192	2.00000	2.14204	7.10222



P (213.618 nm)
Intensity = 257.19096462 * Concentration - 2.68780828
Correlation coefficient: 0.99995

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-2.68781	0.00000	0.00000	N/A
ICAL 1	11.29869	0.05000	0.05438	8.76355
ICAL 2	250.63380	1.00000	0.98496	1.50447
ICAL 3	513.37500	2.00000	2.00654	0.32678

Detailed Results

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 14:59:57	Blank	Ag (328.068 nm)	N/A	0.00000 (mg/L)	0.67953	> 100.00
12/14/2021 14:59:57	Blank	Al (308.215 nm)	N/A	0.00000 (mg/L)	471.36335	0.66
12/14/2021 14:59:57	Blank	As (193.696 nm)	N/A	0.00000 (mg/L)	3.76487	46.15

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 14:59:57	Blank	B (249.772 nm)	N/A	0.00000 (mg/L)	60.41434	6.26
12/14/2021 14:59:57	Blank	Ba (413.064 nm)	N/A	0.00000 (mg/L)	65.60070	1.95
12/14/2021 14:59:57	Blank	Be (313.042 nm)	N/A	0.00000 (mg/L)	149.68087	7.59
12/14/2021 14:59:57	Blank	Ca (373.690 nm)	N/A	0.00000 (mg/L)	-70.83626	6.00
12/14/2021 14:59:57	Blank	Cd (228.802 nm)	N/A	0.00000 (mg/L)	11.11315	26.37
12/14/2021 14:59:57	Blank	Co (230.786 nm)	N/A	0.00000 (mg/L)	1.22194	12.64
12/14/2021 14:59:57	Blank	Cr (267.716 nm)	N/A	0.00000 (mg/L)	13.64336	21.66
12/14/2021 14:59:57	Blank	Cu (327.395 nm)	N/A	0.00000 (mg/L)	10.34747	53.10
12/14/2021 14:59:57	Blank	Fe (238.204 nm)	N/A	0.00000 (mg/L)	47.25371	3.32
12/14/2021 14:59:57	Blank	K (766.491 nm)	N/A	0.00000 (mg/L)	68.97273	26.04
12/14/2021 14:59:57	Blank	Mg (279.800 nm)	N/A	0.00000 (mg/L)	5.31314	40.73
12/14/2021 14:59:57	Blank	Mn (257.610 nm)	N/A	0.00000 (mg/L)	23.88103	8.10
12/14/2021 14:59:57	Blank	Mo (204.598 nm)	N/A	0.00000 (mg/L)	2.62619	13.86
12/14/2021 14:59:57	Blank	Na (589.592 nm)	N/A	0.00000 (mg/L)	423.07242	1.80
12/14/2021 14:59:57	Blank	Ni (221.648 nm)	N/A	0.00000 (mg/L)	1.91761	18.10
12/14/2021 14:59:57	Blank	P (213.618 nm)	N/A	0.00000 (mg/L)	-2.68781	51.89
12/14/2021 14:59:57	Blank	Pb (220.353 nm)	N/A	0.00000 (mg/L)	-0.86902	> 100.00
12/14/2021 14:59:57	Blank	S (181.972 nm)	N/A	0.00000 (mg/L)	0.95162	> 100.00
12/14/2021 14:59:57	Blank	Sb (217.582 nm)	N/A	0.00000 (mg/L)	0.42776	61.78
12/14/2021 14:59:57	Blank	Se (196.026 nm)	N/A	0.00000 (mg/L)	7.69906	12.00
12/14/2021 14:59:57	Blank	Sn (189.925 nm)	N/A	0.00000 (mg/L)	1.39463	54.42
12/14/2021 14:59:57	Blank	Sr (407.771 nm)	N/A	0.00000 (mg/L)	263.82584	2.76
12/14/2021 14:59:57	Blank	Ti (337.280 nm)	N/A	0.00000 (mg/L)	24.65846	2.91
12/14/2021 14:59:57	Blank	Tl (351.923 nm)	N/A	0.00000 (mg/L)	-6.75166	62.33
12/14/2021 14:59:57	Blank	V (311.837 nm)	N/A	0.00000 (mg/L)	5.84263	80.93
12/14/2021 14:59:57	Blank	Zn (206.200 nm)	N/A	0.00000 (mg/L)	3.27280	22.42
12/14/2021 15:03:10	ICAL 1	Ag (328.068 nm)	N/A	0.00500 (mg/L)	112.77511	5.67
12/14/2021 15:03:10	ICAL 1	Al (308.215 nm)	N/A	0.20000 (mg/L)	984.44773	0.42
12/14/2021 15:03:10	ICAL 1	As (193.696 nm)	N/A	0.05000 (mg/L)	15.83923	18.83
12/14/2021 15:03:10	ICAL 1	B (249.772 nm)	N/A	0.05000 (mg/L)	769.30213	0.29
12/14/2021 15:03:10	ICAL 1	Ba (413.064 nm)	N/A	0.01000 (mg/L)	127.34148	3.29
12/14/2021 15:03:10	ICAL 1	Be (313.042 nm)	N/A	0.00500 (mg/L)	4947.54619	0.18
12/14/2021 15:03:10	ICAL 1	Ca (373.690 nm)	N/A	0.10000 (mg/L)	214.66495	2.47
12/14/2021 15:03:10	ICAL 1	Cd (228.802 nm)	N/A	0.00500 (mg/L)	54.39823	2.74
12/14/2021 15:03:10	ICAL 1	Co (230.786 nm)	N/A	0.01000 (mg/L)	37.46163	3.35
12/14/2021 15:03:10	ICAL 1	Cr (267.716 nm)	N/A	0.01000 (mg/L)	170.26334	0.42
12/14/2021 15:03:10	ICAL 1	Cu (327.395 nm)	N/A	0.01000 (mg/L)	172.88536	1.58
12/14/2021 15:03:10	ICAL 1	Fe (238.204 nm)	N/A	0.10000 (mg/L)	844.83925	0.34
12/14/2021 15:03:10	ICAL 1	K (766.491 nm)	N/A	0.50000 (mg/L)	623.71362	2.20
12/14/2021 15:03:10	ICAL 1	Mg (279.800 nm)	N/A	0.10000 (mg/L)	93.66722	2.80
12/14/2021 15:03:10	ICAL 1	Mn (257.610 nm)	N/A	0.00500 (mg/L)	604.81323	0.90
12/14/2021 15:03:10	ICAL 1	Mo (204.598 nm)	N/A	0.05000 (mg/L)	48.84433	0.71
12/14/2021 15:03:10	ICAL 1	Na (589.592 nm)	N/A	1.00000 (mg/L)	7171.60117	0.46
12/14/2021 15:03:10	ICAL 1	Ni (221.648 nm)	N/A	0.02000 (mg/L)	17.16909	2.26
12/14/2021 15:03:10	ICAL 1	P (213.618 nm)	N/A	0.05000 (mg/L)	11.29869	17.20
12/14/2021 15:03:10	ICAL 1	Pb (220.353 nm)	N/A	0.01000 (mg/L)	5.05646	12.42
12/14/2021 15:03:10	ICAL 1	S (181.972 nm)	N/A	0.05000 (mg/L)	1.95180	41.16
12/14/2021 15:03:10	ICAL 1	Sb (217.582 nm)	N/A	0.02000 (mg/L)	7.44249	43.48

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 15:03:10	ICAL 1	Se (196.026 nm)	N/A	0.02000 (mg/L)	11.96324	24.20
12/14/2021 15:03:10	ICAL 1	Sn (189.925 nm)	N/A	0.05000 (mg/L)	12.17953	11.55
12/14/2021 15:03:10	ICAL 1	Sr (407.771 nm)	N/A	0.05000 (mg/L)	114597.63416	0.50
12/14/2021 15:03:10	ICAL 1	Ti (337.280 nm)	N/A	0.05000 (mg/L)	976.26728	0.55
12/14/2021 15:03:10	ICAL 1	Tl (351.923 nm)	N/A	0.02000 (mg/L)	10.63604	45.54
12/14/2021 15:03:10	ICAL 1	V (311.837 nm)	N/A	0.01000 (mg/L)	188.84066	3.50
12/14/2021 15:03:10	ICAL 1	Zn (206.200 nm)	N/A	0.02000 (mg/L)	16.88435	10.00
12/14/2021 15:06:23	ICAL 2	Ag (328.068 nm)	N/A	0.10000 (mg/L)	2238.92974	0.42
12/14/2021 15:06:23	ICAL 2	Al (308.215 nm)	N/A	10.00000 (mg/L)	25684.95445	0.24
12/14/2021 15:06:23	ICAL 2	As (193.696 nm)	N/A	1.00000 (mg/L)	241.90807	0.50
12/14/2021 15:06:23	ICAL 2	B (249.772 nm)	N/A	1.00000 (mg/L)	12084.77066	0.30
12/14/2021 15:06:23	ICAL 2	Ba (413.064 nm)	N/A	1.00000 (mg/L)	6721.49730	0.22
12/14/2021 15:06:23	ICAL 2	Be (313.042 nm)	N/A	1.00000 (mg/L)	942223.64825	0.53
12/14/2021 15:06:23	ICAL 2	Ca (373.690 nm)	N/A	10.00000 (mg/L)	26119.41496	0.45
12/14/2021 15:06:23	ICAL 2	Cd (228.802 nm)	N/A	1.00000 (mg/L)	7974.58444	0.57
12/14/2021 15:06:23	ICAL 2	Co (230.786 nm)	N/A	1.00000 (mg/L)	3367.59118	0.15
12/14/2021 15:06:23	ICAL 2	Cr (267.716 nm)	N/A	1.00000 (mg/L)	14332.19307	0.32
12/14/2021 15:06:23	ICAL 2	Cu (327.395 nm)	N/A	1.00000 (mg/L)	15644.28590	0.62
12/14/2021 15:06:23	ICAL 2	Fe (238.204 nm)	N/A	10.00000 (mg/L)	68613.93512	0.44
12/14/2021 15:06:23	ICAL 2	K (766.491 nm)	N/A	10.00000 (mg/L)	11377.16665	0.49
12/14/2021 15:06:23	ICAL 2	Mg (279.800 nm)	N/A	10.00000 (mg/L)	8228.96283	0.38
12/14/2021 15:06:23	ICAL 2	Mn (257.610 nm)	N/A	1.00000 (mg/L)	100340.73843	0.27
12/14/2021 15:06:23	ICAL 2	Mo (204.598 nm)	N/A	1.00000 (mg/L)	940.21296	0.59
12/14/2021 15:06:23	ICAL 2	Na (589.592 nm)	N/A	10.00000 (mg/L)	78690.45443	0.28
12/14/2021 15:06:23	ICAL 2	Ni (221.648 nm)	N/A	1.00000 (mg/L)	650.67737	0.82
12/14/2021 15:06:23	ICAL 2	P (213.618 nm)	N/A	1.00000 (mg/L)	250.63380	0.76
12/14/2021 15:06:23	ICAL 2	Pb (220.353 nm)	N/A	1.00000 (mg/L)	573.42246	0.80
12/14/2021 15:06:23	ICAL 2	S (181.972 nm)	N/A	1.00000 (mg/L)	15.48226	2.40
12/14/2021 15:06:23	ICAL 2	Sb (217.582 nm)	N/A	1.00000 (mg/L)	382.71449	0.33
12/14/2021 15:06:23	ICAL 2	Se (196.026 nm)	N/A	1.00000 (mg/L)	267.89927	0.99
12/14/2021 15:06:23	ICAL 2	Sn (189.925 nm)	N/A	1.00000 (mg/L)	209.14014	1.27
12/14/2021 15:06:23	ICAL 2	Sr (407.771 nm)	N/A	1.00000 (mg/L)	1839070.07176	0.33
12/14/2021 15:06:23	ICAL 2	Ti (337.280 nm)	N/A	1.00000 (mg/L)	18378.60157	0.30
12/14/2021 15:06:23	ICAL 2	Tl (351.923 nm)	N/A	1.00000 (mg/L)	722.91672	0.95
12/14/2021 15:06:23	ICAL 2	V (311.837 nm)	N/A	1.00000 (mg/L)	20254.85093	0.27
12/14/2021 15:06:23	ICAL 2	Zn (206.200 nm)	N/A	1.00000 (mg/L)	632.46483	0.43
12/14/2021 15:09:36	ICAL 3	Ag (328.068 nm)	N/A	0.20000 (mg/L)	4574.84202	0.07
12/14/2021 15:09:36	ICAL 3	Al (308.215 nm)	N/A	20.00000 (mg/L)	52499.07981	0.15
12/14/2021 15:09:36	ICAL 3	As (193.696 nm)	N/A	2.00000 (mg/L)	485.30576	0.40
12/14/2021 15:09:36	ICAL 3	B (249.772 nm)	N/A	2.00000 (mg/L)	24854.03887	0.20
12/14/2021 15:09:36	ICAL 3	Ba (413.064 nm)	N/A	2.00000 (mg/L)	13587.35474	0.16
12/14/2021 15:09:36	ICAL 3	Be (313.042 nm)	N/A	2.00000 (mg/L)	1902650.11439	0.23
12/14/2021 15:09:36	ICAL 3	Ca (373.690 nm)	N/A	20.00000 (mg/L)	53064.50225	0.24
12/14/2021 15:09:36	ICAL 3	Cd (228.802 nm)	N/A	2.00000 (mg/L)	16265.61516	0.26
12/14/2021 15:09:36	ICAL 3	Co (230.786 nm)	N/A	2.00000 (mg/L)	6780.83050	0.27
12/14/2021 15:09:36	ICAL 3	Cr (267.716 nm)	N/A	2.00000 (mg/L)	29032.90880	0.17
12/14/2021 15:09:36	ICAL 3	Cu (327.395 nm)	N/A	2.00000 (mg/L)	32174.02901	0.22
12/14/2021 15:09:36	ICAL 3	Fe (238.204 nm)	N/A	20.00000 (mg/L)	137175.02466	0.12

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 15:09:36	ICAL 3	K (766.491 nm)	N/A	20.00000 (mg/L)	23626.72076	0.23
12/14/2021 15:09:36	ICAL 3	Mg (279.800 nm)	N/A	20.00000 (mg/L)	16778.37474	0.15
12/14/2021 15:09:36	ICAL 3	Mn (257.610 nm)	N/A	2.00000 (mg/L)	203311.66249	0.17
12/14/2021 15:09:36	ICAL 3	Mo (204.598 nm)	N/A	2.00000 (mg/L)	1925.07908	0.25
12/14/2021 15:09:36	ICAL 3	Na (589.592 nm)	N/A	20.00000 (mg/L)	161896.32637	0.09
12/14/2021 15:09:36	ICAL 3	Ni (221.648 nm)	N/A	2.00000 (mg/L)	1314.06548	0.23
12/14/2021 15:09:36	ICAL 3	P (213.618 nm)	N/A	2.00000 (mg/L)	513.37500	0.35
12/14/2021 15:09:36	ICAL 3	Pb (220.353 nm)	N/A	2.00000 (mg/L)	1165.74490	0.10
12/14/2021 15:09:36	ICAL 3	S (181.972 nm)	N/A	2.00000 (mg/L)	32.47192	5.49
12/14/2021 15:09:36	ICAL 3	Sb (217.582 nm)	N/A	2.00000 (mg/L)	772.58103	0.29
12/14/2021 15:09:36	ICAL 3	Se (196.026 nm)	N/A	2.00000 (mg/L)	533.81396	0.68
12/14/2021 15:09:36	ICAL 3	Sn (189.925 nm)	N/A	2.00000 (mg/L)	423.97280	0.43
12/14/2021 15:09:36	ICAL 3	Sr (407.771 nm)	N/A	2.00000 (mg/L)	3820097.86881	0.66
12/14/2021 15:09:36	ICAL 3	Ti (337.280 nm)	N/A	2.00000 (mg/L)	37325.38257	0.05
12/14/2021 15:09:36	ICAL 3	Tl (351.923 nm)	N/A	2.00000 (mg/L)	1483.37296	0.56
12/14/2021 15:09:36	ICAL 3	V (311.837 nm)	N/A	2.00000 (mg/L)	41451.75440	0.12
12/14/2021 15:09:36	ICAL 3	Zn (206.200 nm)	N/A	2.00000 (mg/L)	1279.80476	0.46
12/14/2021 15:12:48	Lab Control Sample	Ag (328.068 nm)	0.20	0.20120 (mg/L)	4582.61934	0.20
12/14/2021 15:12:48	Lab Control Sample	Al (308.215 nm)	0.47	20.20463 (mg/L)	52560.39971	0.46
12/14/2021 15:12:48	Lab Control Sample	As (193.696 nm)	0.62	2.02441 (mg/L)	489.51473	0.62
12/14/2021 15:12:48	Lab Control Sample	B (249.772 nm)	0.38	1.97261 (mg/L)	24925.24672	0.38
12/14/2021 15:12:48	Lab Control Sample	Ba (413.064 nm)	0.31	2.00448 (mg/L)	13575.55341	0.31
12/14/2021 15:12:48	Lab Control Sample	Be (313.042 nm)	0.14	2.01703 (mg/L)	1915152.92696	0.14
12/14/2021 15:12:48	Lab Control Sample	Ca (373.690 nm)	0.23	20.06582 (mg/L)	53120.10223	0.23
12/14/2021 15:12:48	Lab Control Sample	Cd (228.802 nm)	0.34	2.00935 (mg/L)	16285.80106	0.34
12/14/2021 15:12:48	Lab Control Sample	Co (230.786 nm)	0.26	2.00097 (mg/L)	6774.75353	0.26
12/14/2021 15:12:48	Lab Control Sample	Cr (267.716 nm)	0.24	2.00844 (mg/L)	29075.48363	0.24
12/14/2021 15:12:48	Lab Control Sample	Cu (327.395 nm)	0.33	2.03612 (mg/L)	32572.45019	0.33
12/14/2021 15:12:48	Lab Control Sample	Fe (238.204 nm)	0.61	19.89607 (mg/L)	137648.01727	0.61
12/14/2021 15:12:48	Lab Control Sample	K (766.491 nm)	0.26	20.16479 (mg/L)	23623.93572	0.26
12/14/2021 15:12:48	Lab Control Sample	Mg (279.800 nm)	0.34	20.07810 (mg/L)	16799.23855	0.34
12/14/2021 15:12:48	Lab Control Sample	Mn (257.610 nm)	0.28	2.00407 (mg/L)	203193.75635	0.28
12/14/2021 15:12:48	Lab Control Sample	Mo (204.598 nm)	0.30	2.01082 (mg/L)	1921.82489	0.30
12/14/2021 15:12:48	Lab Control Sample	Na (589.592 nm)	0.35	20.15751 (mg/L)	162121.21662	0.35
12/14/2021 15:12:48	Lab Control Sample	Ni (221.648 nm)	0.45	1.99553 (mg/L)	1311.23142	0.45
12/14/2021 15:12:48	Lab Control Sample	P (213.618 nm)	0.14	2.00427 (mg/L)	512.79216	0.14
12/14/2021 15:12:48	Lab Control Sample	Pb (220.353 nm)	0.48	2.00328 (mg/L)	1167.37710	0.48
12/14/2021 15:12:48	Lab Control Sample	S (181.972 nm)	6.07	2.17662 (mg/L)	32.98072	5.90
12/14/2021 15:12:48	Lab Control Sample	Sb (217.582 nm)	0.28	2.02243 (mg/L)	777.91881	0.28
12/14/2021 15:12:48	Lab Control Sample	Se (196.026 nm)	0.34	1.99718 (mg/L)	531.92237	0.33
12/14/2021 15:12:48	Lab Control Sample	Sn (189.925 nm)	0.98	2.00529 (mg/L)	423.67435	0.98
12/14/2021 15:12:48	Lab Control Sample	Sr (407.771 nm)	0.15	1.99068 (mg/L)	3845276.37456	0.15
12/14/2021 15:12:48	Lab Control Sample	Ti (337.280 nm)	0.44	2.00902 (mg/L)	37374.95501	0.44
12/14/2021 15:12:48	Lab Control Sample	Tl (351.923 nm)	0.43	2.02086 (mg/L)	1490.65910	0.44
12/14/2021 15:12:48	Lab Control Sample	V (311.837 nm)	0.27	2.00670 (mg/L)	41400.36682	0.27
12/14/2021 15:12:48	Lab Control Sample	Zn (206.200 nm)	0.81	2.00747 (mg/L)	1274.78150	0.81
12/14/2021 15:19:15	Initial Calib Verif	Ag (328.068 nm)	0.31	0.05078 (mg/L)	1157.16281	0.31
12/14/2021 15:19:15	Initial Calib Verif	Al (308.215 nm)	0.17	5.05720 (mg/L)	13509.20385	0.16

211214A.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 15:19:15	Initial Calib Verif	As (193.696 nm)	0.31	0.51267 (mg/L)	126.03111	0.30
12/14/2021 15:19:15	Initial Calib Verif	B (249.772 nm)	0.16	0.52055 (mg/L)	6621.96459	0.16
12/14/2021 15:19:15	Initial Calib Verif	Ba (413.064 nm)	0.27	0.52064 (mg/L)	3574.65046	0.26
12/14/2021 15:19:15	Initial Calib Verif	Be (313.042 nm)	0.43	0.52383 (mg/L)	497482.03500	0.43
12/14/2021 15:19:15	Initial Calib Verif	Ca (373.690 nm)	0.11	5.17978 (mg/L)	13659.83156	0.11
12/14/2021 15:19:15	Initial Calib Verif	Cd (228.802 nm)	0.41	0.51168 (mg/L)	4155.41467	0.41
12/14/2021 15:19:15	Initial Calib Verif	Co (230.786 nm)	0.20	0.52330 (mg/L)	1772.64893	0.20
12/14/2021 15:19:15	Initial Calib Verif	Cr (267.716 nm)	0.15	0.52094 (mg/L)	7559.97925	0.15
12/14/2021 15:19:15	Initial Calib Verif	Cu (327.395 nm)	0.27	0.51235 (mg/L)	8204.02670	0.27
12/14/2021 15:19:15	Initial Calib Verif	Fe (238.204 nm)	0.39	5.33058 (mg/L)	36930.95248	0.39
12/14/2021 15:19:15	Initial Calib Verif	K (766.491 nm)	0.51	5.01316 (mg/L)	5924.96636	0.51
12/14/2021 15:19:15	Initial Calib Verif	Mg (279.800 nm)	0.23	5.15365 (mg/L)	4315.98520	0.23
12/14/2021 15:19:15	Initial Calib Verif	Mn (257.610 nm)	0.25	0.52113 (mg/L)	52855.64412	0.25
12/14/2021 15:19:15	Initial Calib Verif	Mo (204.598 nm)	0.98	0.51857 (mg/L)	497.56577	0.98
12/14/2021 15:19:15	Initial Calib Verif	Na (589.592 nm)	0.16	5.14147 (mg/L)	41666.55197	0.16
12/14/2021 15:19:15	Initial Calib Verif	Ni (221.648 nm)	0.42	0.52070 (mg/L)	343.56427	0.41
12/14/2021 15:19:15	Initial Calib Verif	P (213.618 nm)	1.61	0.51257 (mg/L)	129.13940	1.64
12/14/2021 15:19:15	Initial Calib Verif	Pb (220.353 nm)	0.54	0.51687 (mg/L)	300.55148	0.54
12/14/2021 15:19:15	Initial Calib Verif	S (181.972 nm)	2.18	0.64000 Q (mg/L)	10.36920 Q	1.98
12/14/2021 15:19:15	Initial Calib Verif	Sb (217.582 nm)	1.40	0.52437 (mg/L)	202.01281	1.39
12/14/2021 15:19:15	Initial Calib Verif	Se (196.026 nm)	1.78	0.50230 (mg/L)	139.54262	1.68
12/14/2021 15:19:15	Initial Calib Verif	Sn (189.925 nm)	1.64	0.52165 (mg/L)	111.24446	1.62
12/14/2021 15:19:15	Initial Calib Verif	Sr (407.771 nm)	0.32	0.51101 (mg/L)	987274.90294	0.32
12/14/2021 15:19:15	Initial Calib Verif	Ti (337.280 nm)	0.15	0.52178 (mg/L)	9725.25507	0.15
12/14/2021 15:19:15	Initial Calib Verif	Tl (351.923 nm)	0.86	0.50413 (mg/L)	366.71639	0.88
12/14/2021 15:19:15	Initial Calib Verif	V (311.837 nm)	0.29	0.50694 (mg/L)	10463.01953	0.29
12/14/2021 15:19:15	Initial Calib Verif	Zn (206.200 nm)	0.46	0.52485 (mg/L)	335.70666	0.46
12/14/2021 15:26:05	Initial Calib Blank	Ag (328.068 nm)	> 100.00	-0.00001 u (mg/L)	0.39026	> 100.00
12/14/2021 15:26:05	Initial Calib Blank	Al (308.215 nm)	24.83	0.00600 (mg/L)	486.81919	0.79
12/14/2021 15:26:05	Initial Calib Blank	As (193.696 nm)	> 100.00	0.00795 u (mg/L)	4.67573	78.99
12/14/2021 15:26:05	Initial Calib Blank	B (249.772 nm)	> 100.00	0.00041 u (mg/L)	65.62311	8.02
12/14/2021 15:26:05	Initial Calib Blank	Ba (413.064 nm)	> 100.00	0.00056 u (mg/L)	69.39857	6.81
12/14/2021 15:26:05	Initial Calib Blank	Be (313.042 nm)	> 100.00	0.00000 u (mg/L)	153.14615	5.09
12/14/2021 15:26:05	Initial Calib Blank	Ca (373.690 nm)	> 100.00	-0.00193 u (mg/L)	-75.94785	7.28
12/14/2021 15:26:05	Initial Calib Blank	Cd (228.802 nm)	> 100.00	-0.00003 u (mg/L)	10.84869	16.00
12/14/2021 15:26:05	Initial Calib Blank	Co (230.786 nm)	> 100.00	-0.00017 u (mg/L)	0.64665	> 100.00
12/14/2021 15:26:05	Initial Calib Blank	Cr (267.716 nm)	26.62	-0.00076 u (mg/L)	14.02225	20.73
12/14/2021 15:26:05	Initial Calib Blank	Cu (327.395 nm)	> 100.00	-0.00016 u (mg/L)	7.73827	65.55
12/14/2021 15:26:05	Initial Calib Blank	Fe (238.204 nm)	5.62	-0.00443 u (mg/L)	40.60464	4.24
12/14/2021 15:26:05	Initial Calib Blank	K (766.491 nm)	21.19	0.02130 (mg/L)	93.85175	5.62
12/14/2021 15:26:05	Initial Calib Blank	Mg (279.800 nm)	33.82	0.00249 (mg/L)	7.39663	9.53
12/14/2021 15:26:05	Initial Calib Blank	Mn (257.610 nm)	> 100.00	0.00002 u (mg/L)	25.92088	23.15
12/14/2021 15:26:05	Initial Calib Blank	Mo (204.598 nm)	67.58	-0.00088 u (mg/L)	1.78995	31.57
12/14/2021 15:26:05	Initial Calib Blank	Na (589.592 nm)	> 100.00	0.00133 u (mg/L)	433.76309	4.57
12/14/2021 15:26:05	Initial Calib Blank	Ni (221.648 nm)	> 100.00	0.00062 u (mg/L)	2.32716	56.29
12/14/2021 15:26:05	Initial Calib Blank	P (213.618 nm)	> 100.00	-0.00520 u (mg/L)	-4.02516	62.85
12/14/2021 15:26:05	Initial Calib Blank	Pb (220.353 nm)	> 100.00	0.00024 u (mg/L)	-0.72955	> 100.00
12/14/2021 15:26:05	Initial Calib Blank	S (181.972 nm)	83.30	-0.04572 u (mg/L)	0.27891	> 100.00

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 15:26:05	Initial Calib Blank	Sb (217.582 nm)	> 100.00	0.00351 u (mg/L)	1.77626	> 100.00
12/14/2021 15:26:05	Initial Calib Blank	Se (196.026 nm)	> 100.00	-0.00046 u (mg/L)	7.57707	10.02
12/14/2021 15:26:05	Initial Calib Blank	Sn (189.925 nm)	59.56	-0.00396 u (mg/L)	0.56117	88.46
12/14/2021 15:26:05	Initial Calib Blank	Sr (407.771 nm)	> 100.00	0.00001 (mg/L)	286.12315	12.64
12/14/2021 15:26:05	Initial Calib Blank	Ti (337.280 nm)	> 100.00	0.00011 u (mg/L)	26.67926	13.85
12/14/2021 15:26:05	Initial Calib Blank	Tl (351.923 nm)	42.28	0.00683 (mg/L)	-1.79502	> 100.00
12/14/2021 15:26:05	Initial Calib Blank	V (311.837 nm)	> 100.00	-0.00007 u (mg/L)	4.29766	70.02
12/14/2021 15:26:05	Initial Calib Blank	Zn (206.200 nm)	> 100.00	-0.00015 u (mg/L)	3.17838	40.35
12/14/2021 15:29:17	CRI	Ag (328.068 nm)	2.79	0.00489 (mg/L)	111.95313	2.77
12/14/2021 15:29:17	CRI	Al (308.215 nm)	1.59	0.19445 (mg/L)	972.66994	0.82
12/14/2021 15:29:17	CRI	As (193.696 nm)	28.26	0.05356 (mg/L)	15.64279	23.27
12/14/2021 15:29:17	CRI	B (249.772 nm)	0.08	0.05580 (mg/L)	763.80206	0.07
12/14/2021 15:29:17	CRI	Ba (413.064 nm)	7.46	0.01095 (mg/L)	139.39725	3.95
12/14/2021 15:29:17	CRI	Be (313.042 nm)	0.10	0.00493 (mg/L)	4827.69415	0.10
12/14/2021 15:29:17	CRI	Ca (373.690 nm)	1.78	0.10667 (mg/L)	211.93797	2.38
12/14/2021 15:29:17	CRI	Cd (228.802 nm)	5.78	0.00534 (mg/L)	54.37355	4.60
12/14/2021 15:29:17	CRI	Co (230.786 nm)	7.33	0.00996 (mg/L)	34.95417	7.07
12/14/2021 15:29:17	CRI	Cr (267.716 nm)	1.91	0.01139 (mg/L)	189.68748	1.66
12/14/2021 15:29:17	CRI	Cu (327.395 nm)	1.37	0.00986 (mg/L)	167.95553	1.29
12/14/2021 15:29:17	CRI	Fe (238.204 nm)	0.66	0.12810 R (mg/L)	957.01794 R	0.61
12/14/2021 15:29:17	CRI	K (766.491 nm)	5.03	0.48600 (mg/L)	636.68581	4.48
12/14/2021 15:29:17	CRI	Mg (279.800 nm)	0.73	0.10687 (mg/L)	94.70315	0.69
12/14/2021 15:29:17	CRI	Mn (257.610 nm)	1.01	0.00579 (mg/L)	611.17698	0.97
12/14/2021 15:29:17	CRI	Mo (204.598 nm)	6.25	0.04840 (mg/L)	48.82395	5.91
12/14/2021 15:29:17	CRI	Na (589.592 nm)	0.22	0.82624 (mg/L)	7050.96477	0.21
12/14/2021 15:29:17	CRI	Ni (221.648 nm)	9.38	0.02259 (mg/L)	16.73758	8.31
12/14/2021 15:29:17	CRI	P (213.618 nm)	7.04	0.05331 (mg/L)	11.02409	8.76
12/14/2021 15:29:17	CRI	Pb (220.353 nm)	12.88	0.00910 (mg/L)	4.43805	15.40
12/14/2021 15:29:17	CRI	S (181.972 nm)	14.23	0.09505 R (mg/L)	2.35023 R	8.47
12/14/2021 15:29:17	CRI	Sb (217.582 nm)	12.00	0.01790 (mg/L)	7.30767	11.30
12/14/2021 15:29:17	CRI	Se (196.026 nm)	31.78	0.02274 (mg/L)	13.66912	13.88
12/14/2021 15:29:17	CRI	Sn (189.925 nm)	12.21	0.05221 (mg/L)	12.38928	10.84
12/14/2021 15:29:17	CRI	Sr (407.771 nm)	0.47	0.05934 (mg/L)	114873.32680	0.46
12/14/2021 15:29:17	CRI	Ti (337.280 nm)	0.44	0.05058 (mg/L)	965.09133	0.43
12/14/2021 15:29:17	CRI	Tl (351.923 nm)	70.17	0.01640 (mg/L)	5.29261	> 100.00
12/14/2021 15:29:17	CRI	V (311.837 nm)	1.35	0.00865 (mg/L)	184.37078	1.31
12/14/2021 15:29:17	CRI	Zn (206.200 nm)	10.67	0.02199 (mg/L)	17.19840	8.64
12/14/2021 15:46:57	Interf Check A	Ag (328.068 nm)	40.71	0.00039 (mg/L)	9.66719	37.85
12/14/2021 15:46:57	Interf Check A	Al (308.215 nm)	0.17	242.50942 (mg/L)	625678.70628	0.17
12/14/2021 15:46:57	Interf Check A	As (193.696 nm)	> 100.00	-0.00091 u (mg/L)	2.54431	30.07
12/14/2021 15:46:57	Interf Check A	B (249.772 nm)	1.33	0.04667 (mg/L)	648.69430	1.21
12/14/2021 15:46:57	Interf Check A	Ba (413.064 nm)	> 100.00	0.00014 u (mg/L)	66.55115	2.32
12/14/2021 15:46:57	Interf Check A	Be (313.042 nm)	11.81	0.00002 (mg/L)	169.84136	1.40
12/14/2021 15:46:57	Interf Check A	Ca (373.690 nm)	0.40	225.22086 o (mg/L)	596949.79099	0.40
12/14/2021 15:46:57	Interf Check A	Cd (228.802 nm)	> 100.00	0.00010 u (mg/L)	11.95105	23.34
12/14/2021 15:46:57	Interf Check A	Co (230.786 nm)	55.32	-0.00063 u (mg/L)	-0.92726	> 100.00
12/14/2021 15:46:57	Interf Check A	Cr (267.716 nm)	16.96	-0.00121 u (mg/L)	7.48032	39.60
12/14/2021 15:46:57	Interf Check A	Cu (327.395 nm)	> 100.00	0.00013 u (mg/L)	12.43395	35.01

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 15:46:57	Interf Check A	Fe (238.204 nm)	0.12	84.33290 (mg/L)	583214.13223	0.12
12/14/2021 15:46:57	Interf Check A	K (766.491 nm)	50.70	0.03733 (mg/L)	112.57953	19.64
12/14/2021 15:46:57	Interf Check A	Mg (279.800 nm)	0.22	239.46200 o (mg/L)	200298.53807	0.22
12/14/2021 15:46:57	Interf Check A	Mn (257.610 nm)	7.35	0.00077 (mg/L)	101.50292	5.62
12/14/2021 15:46:57	Interf Check A	Mo (204.598 nm)	8.48	0.00395 (mg/L)	6.40002	5.00
12/14/2021 15:46:57	Interf Check A	Na (589.592 nm)	51.10	0.00250 (mg/L)	443.11343	2.31
12/14/2021 15:46:57	Interf Check A	Ni (221.648 nm)	53.65	0.00379 (mg/L)	4.40263	30.28
12/14/2021 15:46:57	Interf Check A	P (213.618 nm)	> 100.00	0.00177 u (mg/L)	-2.23272	76.64
12/14/2021 15:46:57	Interf Check A	Pb (220.353 nm)	> 100.00	-0.00780 u (mg/L)	-5.41737	> 100.00
12/14/2021 15:46:57	Interf Check A	S (181.972 nm)	47.00	-0.06999 Ku (mg/L)	-0.07831 K	> 100.00
12/14/2021 15:46:57	Interf Check A	Sb (217.582 nm)	> 100.00	0.00107 u (mg/L)	0.83733	66.63
12/14/2021 15:46:57	Interf Check A	Se (196.026 nm)	> 100.00	-0.00131 u (mg/L)	7.35570	37.25
12/14/2021 15:46:57	Interf Check A	Sn (189.925 nm)	> 100.00	0.00302 u (mg/L)	2.03092	76.14
12/14/2021 15:46:57	Interf Check A	Sr (407.771 nm)	9.61	0.00033 (mg/L)	896.86155	6.78
12/14/2021 15:46:57	Interf Check A	Ti (337.280 nm)	> 100.00	-0.00006 u (mg/L)	23.57463	14.39
12/14/2021 15:46:57	Interf Check A	Tl (351.923 nm)	61.35	-0.00930 u (mg/L)	-13.74736	30.74
12/14/2021 15:46:57	Interf Check A	V (311.837 nm)	30.87	0.00052 (mg/L)	16.62064	20.02
12/14/2021 15:46:57	Interf Check A	Zn (206.200 nm)	14.27	0.00878 (mg/L)	8.83710	8.99
12/14/2021 15:50:09	Interf Check AB	Ag (328.068 nm)	0.14	0.05290 (mg/L)	1205.47234	0.14
12/14/2021 15:50:09	Interf Check AB	Al (308.215 nm)	0.37	266.87966 (mg/L)	688506.98405	0.37
12/14/2021 15:50:09	Interf Check AB	As (193.696 nm)	1.59	0.49055 (mg/L)	120.71315	1.56
12/14/2021 15:50:09	Interf Check AB	B (249.772 nm)	0.32	0.54076 (mg/L)	6876.72782	0.32
12/14/2021 15:50:09	Interf Check AB	Ba (413.064 nm)	0.15	0.49231 (mg/L)	3383.68071	0.14
12/14/2021 15:50:09	Interf Check AB	Be (313.042 nm)	0.43	0.50217 (mg/L)	476917.89542	0.43
12/14/2021 15:50:09	Interf Check AB	Ca (373.690 nm)	0.31	247.70778 o (mg/L)	656558.61486	0.31
12/14/2021 15:50:09	Interf Check AB	Cd (228.802 nm)	0.19	0.52418 (mg/L)	4256.67702	0.18
12/14/2021 15:50:09	Interf Check AB	Co (230.786 nm)	0.49	0.47427 (mg/L)	1606.68453	0.49
12/14/2021 15:50:09	Interf Check AB	Cr (267.716 nm)	0.33	0.48965 (mg/L)	7107.41318	0.33
12/14/2021 15:50:09	Interf Check AB	Cu (327.395 nm)	0.49	0.54314 (mg/L)	8696.31586	0.49
12/14/2021 15:50:09	Interf Check AB	Fe (238.204 nm)	0.37	94.33980 (mg/L)	652409.54935	0.37
12/14/2021 15:50:09	Interf Check AB	K (766.491 nm)	0.61	5.53893 (mg/L)	6539.12445	0.60
12/14/2021 15:50:09	Interf Check AB	Mg (279.800 nm)	0.24	262.85224 o (mg/L)	219862.83919	0.24
12/14/2021 15:50:09	Interf Check AB	Mn (257.610 nm)	0.27	0.49246 (mg/L)	49948.59037	0.27
12/14/2021 15:50:09	Interf Check AB	Mo (204.598 nm)	0.47	0.50368 (mg/L)	483.36057	0.46
12/14/2021 15:50:09	Interf Check AB	Na (589.592 nm)	0.30	5.50004 (mg/L)	44542.92404	0.30
12/14/2021 15:50:09	Interf Check AB	Ni (221.648 nm)	0.41	0.47717 (mg/L)	314.99862	0.41
12/14/2021 15:50:09	Interf Check AB	P (213.618 nm)	1.64	0.50290 (mg/L)	126.65320	1.68
12/14/2021 15:50:09	Interf Check AB	Pb (220.353 nm)	0.48	0.49276 (mg/L)	286.49388	0.48
12/14/2021 15:50:09	Interf Check AB	S (181.972 nm)	9.13	0.57207 (mg/L)	9.36963	8.20
12/14/2021 15:50:09	Interf Check AB	Sb (217.582 nm)	0.74	0.49388 (mg/L)	190.29333	0.74
12/14/2021 15:50:09	Interf Check AB	Se (196.026 nm)	1.61	0.50128 (mg/L)	139.27484	1.52
12/14/2021 15:50:09	Interf Check AB	Sn (189.925 nm)	3.10	0.49120 (mg/L)	104.83308	3.06
12/14/2021 15:50:09	Interf Check AB	Sr (407.771 nm)	0.56	0.48611 (mg/L)	939198.06552	0.56
12/14/2021 15:50:09	Interf Check AB	Ti (337.280 nm)	0.24	0.50567 (mg/L)	9425.67342	0.24
12/14/2021 15:50:09	Interf Check AB	Tl (351.923 nm)	1.04	0.54568 (mg/L)	397.50447	1.06
12/14/2021 15:50:09	Interf Check AB	V (311.837 nm)	0.14	0.49866 (mg/L)	10292.16486	0.14
12/14/2021 15:50:09	Interf Check AB	Zn (206.200 nm)	0.74	0.48618 (mg/L)	311.21565	0.73
12/14/2021 15:59:14	CRI	Ag (328.068 nm)	7.94	0.00463 (mg/L)	106.22309	7.89

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 15:59:14	CRI	Al (308.215 nm)	1.10	0.18369 (mg/L)	944.92370	0.55
12/14/2021 15:59:14	CRI	As (193.696 nm)	4.07	0.05203 (mg/L)	15.27536	3.34
12/14/2021 15:59:14	CRI	B (249.772 nm)	0.52	0.05436 (mg/L)	745.58908	0.48
12/14/2021 15:59:14	CRI	Ba (413.064 nm)	10.22	0.01095 (mg/L)	139.40877	5.41
12/14/2021 15:59:14	CRI	Be (313.042 nm)	0.50	0.00486 (mg/L)	4761.19908	0.49
12/14/2021 15:59:14	CRI	Ca (373.690 nm)	1.79	0.09513 (mg/L)	181.33766	2.50
12/14/2021 15:59:14	CRI	Cd (228.802 nm)	4.22	0.00539 (mg/L)	54.74886	3.36
12/14/2021 15:59:14	CRI	Co (230.786 nm)	0.75	0.01016 (mg/L)	35.61186	0.73
12/14/2021 15:59:14	CRI	Cr (267.716 nm)	4.41	0.00979 (mg/L)	166.49251	3.75
12/14/2021 15:59:14	CRI	Cu (327.395 nm)	1.86	0.00970 (mg/L)	165.39877	1.75
12/14/2021 15:59:14	CRI	Fe (238.204 nm)	0.63	0.10371 (mg/L)	788.35572	0.57
12/14/2021 15:59:14	CRI	K (766.491 nm)	2.05	0.46989 (mg/L)	617.86765	1.82
12/14/2021 15:59:14	CRI	Mg (279.800 nm)	3.01	0.10004 (mg/L)	88.99233	2.83
12/14/2021 15:59:14	CRI	Mn (257.610 nm)	0.24	0.00513 (mg/L)	544.07754	0.23
12/14/2021 15:59:14	CRI	Mo (204.598 nm)	4.67	0.04581 (mg/L)	46.34732	4.40
12/14/2021 15:59:14	CRI	Na (589.592 nm)	0.41	0.82015 (mg/L)	7002.07052	0.39
12/14/2021 15:59:14	CRI	Ni (221.648 nm)	6.18	0.02217 (mg/L)	16.46282	5.46
12/14/2021 15:59:14	CRI	P (213.618 nm)	3.71	0.05378 (mg/L)	11.14308	4.61
12/14/2021 15:59:14	CRI	Pb (220.353 nm)	11.90	0.01150 (mg/L)	5.83688	13.67
12/14/2021 15:59:14	CRI	S (181.972 nm)	> 100.00	0.04132 u (mg/L)	1.55969	54.83
12/14/2021 15:59:14	CRI	Sb (217.582 nm)	19.23	0.02000 (mg/L)	8.11653	18.21
12/14/2021 15:59:14	CRI	Se (196.026 nm)	18.90	0.01605 (mg/L)	11.91101	6.68
12/14/2021 15:59:14	CRI	Sn (189.925 nm)	8.36	0.05283 (mg/L)	12.51931	7.43
12/14/2021 15:59:14	CRI	Sr (407.771 nm)	0.58	0.05694 (mg/L)	110246.24439	0.58
12/14/2021 15:59:14	CRI	Ti (337.280 nm)	0.18	0.04997 (mg/L)	953.59151	0.17
12/14/2021 15:59:14	CRI	Tl (351.923 nm)	16.24	0.02156 (mg/L)	9.11841	28.46
12/14/2021 15:59:14	CRI	V (311.837 nm)	2.12	0.00876 (mg/L)	186.44732	2.06
12/14/2021 15:59:14	CRI	Zn (206.200 nm)	12.53	0.01892 (mg/L)	15.25953	9.84
12/14/2021 16:06:33	CRI-2	Ag (328.068 nm)	13.45	0.00229 (mg/L)	52.89689	13.28
12/14/2021 16:06:33	CRI-2	Al (308.215 nm)	1.68	0.09792 (mg/L)	723.82116	0.58
12/14/2021 16:06:33	CRI-2	As (193.696 nm)	6.02	0.03117 (mg/L)	10.25846	4.39
12/14/2021 16:06:33	CRI-2	B (249.772 nm)	0.47	0.02327 (mg/L)	353.70137	0.39
12/14/2021 16:06:33	CRI-2	Ba (413.064 nm)	11.56	0.00577 (mg/L)	104.47115	4.30
12/14/2021 16:06:33	CRI-2	Be (313.042 nm)	0.15	0.00254 (mg/L)	2560.81879	0.15
12/14/2021 16:06:33	CRI-2	Ca (373.690 nm)	3.49	0.08081 (mg/L)	143.38674	5.22
12/14/2021 16:06:33	CRI-2	Cd (228.802 nm)	3.39	0.00257 (mg/L)	31.95867	2.21
12/14/2021 16:06:33	CRI-2	Co (230.786 nm)	17.26	0.00552 (mg/L)	19.92237	16.20
12/14/2021 16:06:33	CRI-2	Cr (267.716 nm)	3.93	0.00455 (mg/L)	90.70898	2.85
12/14/2021 16:06:33	CRI-2	Cu (327.395 nm)	2.35	0.00497 (mg/L)	89.84904	2.08
12/14/2021 16:06:33	CRI-2	Fe (238.204 nm)	1.32	0.06115 (mg/L)	494.08593	1.13
12/14/2021 16:06:33	CRI-2	K (766.491 nm)	2.43	0.22977 (mg/L)	337.37478	1.93
12/14/2021 16:06:33	CRI-2	Mg (279.800 nm)	7.23	0.05076 (mg/L)	47.76884	6.43
12/14/2021 16:06:33	CRI-2	Mn (257.610 nm)	1.61	0.00273 (mg/L)	300.86612	1.48
12/14/2021 16:06:33	CRI-2	Mo (204.598 nm)	3.95	0.02258 (mg/L)	24.17357	3.52
12/14/2021 16:06:33	CRI-2	Na (589.592 nm)	0.39	0.37583 (mg/L)	3437.91369	0.34
12/14/2021 16:06:33	CRI-2	Ni (221.648 nm)	18.71	0.01139 (mg/L)	9.39275	14.89
12/14/2021 16:06:33	CRI-2	P (213.618 nm)	20.79	0.02443 (mg/L)	3.59417	36.34
12/14/2021 16:06:33	CRI-2	Pb (220.353 nm)	67.05	0.00607 (mg/L)	2.67152	88.86

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 16:06:33	CRI-2	S (181.972 nm)	> 100.00	0.03077 u (mg/L)	1.40439	48.31
12/14/2021 16:06:33	CRI-2	Sb (217.582 nm)	6.58	0.01135 (mg/L)	4.79188	5.99
12/14/2021 16:06:33	CRI-2	Se (196.026 nm)	11.09	0.00533 (mg/L)	9.09771	1.71
12/14/2021 16:06:33	CRI-2	Sn (189.925 nm)	43.32	0.02109 (mg/L)	5.83513	32.97
12/14/2021 16:06:33	CRI-2	Sr (407.771 nm)	0.40	0.02669 (mg/L)	51808.81359	0.40
12/14/2021 16:06:33	CRI-2	Ti (337.280 nm)	1.30	0.02512 (mg/L)	491.59304	1.23
12/14/2021 16:06:33	CRI-2	Tl (351.923 nm)	40.48	0.01490 (mg/L)	4.18399	> 100.00
12/14/2021 16:06:33	CRI-2	V (311.837 nm)	4.13	0.00358 (mg/L)	79.72034	3.83
12/14/2021 16:06:33	CRI-2	Zn (206.200 nm)	6.37	0.02226 (mg/L)	17.37117	5.17
12/14/2021 16:14:42	CRI-5	Ag (328.068 nm)	13.87	0.00078 (mg/L)	18.38432	13.35
12/14/2021 16:14:42	CRI-5	Al (308.215 nm)	5.98	0.02469 (mg/L)	535.00920	0.71
12/14/2021 16:14:42	CRI-5	As (193.696 nm)	1.23	0.01035 (mg/L)	5.25313	0.58
12/14/2021 16:14:42	CRI-5	B (249.772 nm)	2.53	0.00846 (mg/L)	167.09471	1.62
12/14/2021 16:14:42	CRI-5	Ba (413.064 nm)	65.25	0.00156 (mg/L)	76.12854	9.02
12/14/2021 16:14:42	CRI-5	Be (313.042 nm)	0.63	0.00088 (mg/L)	988.68021	0.53
12/14/2021 16:14:42	CRI-5	Ca (373.690 nm)	1.41	0.01896 (mg/L)	-20.58953	3.44
12/14/2021 16:14:42	CRI-5	Cd (228.802 nm)	23.04	0.00084 (mg/L)	17.90857	8.74
12/14/2021 16:14:42	CRI-5	Co (230.786 nm)	41.06	0.00225 (mg/L)	8.83167	35.38
12/14/2021 16:14:42	CRI-5	Cr (267.716 nm)	8.23	0.00113 (mg/L)	41.25449	3.26
12/14/2021 16:14:42	CRI-5	Cu (327.395 nm)	26.91	0.00159 (mg/L)	35.77984	19.13
12/14/2021 16:14:42	CRI-5	Fe (238.204 nm)	0.59	0.01646 (mg/L)	185.05308	0.36
12/14/2021 16:14:42	CRI-5	K (766.491 nm)	13.14	0.09337 (mg/L)	178.03666	8.05
12/14/2021 16:14:42	CRI-5	Mg (279.800 nm)	2.45	0.01957 (mg/L)	21.67841	1.85
12/14/2021 16:14:42	CRI-5	Mn (257.610 nm)	4.72	0.00095 (mg/L)	120.41419	3.79
12/14/2021 16:14:42	CRI-5	Mo (204.598 nm)	22.48	0.00741 (mg/L)	9.69658	16.39
12/14/2021 16:14:42	CRI-5	Na (589.592 nm)	0.82	0.14589 (mg/L)	1593.38956	0.60
12/14/2021 16:14:42	CRI-5	Ni (221.648 nm)	9.46	0.00433 (mg/L)	4.75965	5.65
12/14/2021 16:14:42	CRI-5	P (213.618 nm)	62.79	0.00925 (mg/L)	-0.30999	> 100.00
12/14/2021 16:14:42	CRI-5	Pb (220.353 nm)	> 100.00	0.00085 u (mg/L)	-0.37550	> 100.00
12/14/2021 16:14:42	CRI-5	S (181.972 nm)	> 100.00	0.01700 u (mg/L)	1.20179	> 100.00
12/14/2021 16:14:42	CRI-5	Sb (217.582 nm)	57.48	0.00502 (mg/L)	2.35623	47.05
12/14/2021 16:14:42	CRI-5	Se (196.026 nm)	> 100.00	-0.00115 u (mg/L)	7.39666	26.78
12/14/2021 16:14:42	CRI-5	Sn (189.925 nm)	42.51	0.00959 (mg/L)	3.41410	25.14
12/14/2021 16:14:42	CRI-5	Sr (407.771 nm)	0.89	0.00969 (mg/L)	18977.25092	0.88
12/14/2021 16:14:42	CRI-5	Ti (337.280 nm)	6.00	0.00923 (mg/L)	196.20463	5.25
12/14/2021 16:14:42	CRI-5	Tl (351.923 nm)	74.65	0.01121 (mg/L)	1.44708	> 100.00
12/14/2021 16:14:42	CRI-5	V (311.837 nm)	19.11	0.00092 (mg/L)	24.76519	14.60
12/14/2021 16:14:42	CRI-5	Zn (206.200 nm)	77.20	0.00443 (mg/L)	6.07699	35.62
12/14/2021 16:17:51	CRI-MIDLEVEL	Ag (328.068 nm)	0.12	0.09664 (mg/L)	2201.35871	0.12
12/14/2021 16:17:51	CRI-MIDLEVEL	Al (308.215 nm)	0.10	9.68060 (mg/L)	25428.65997	0.09
12/14/2021 16:17:51	CRI-MIDLEVEL	As (193.696 nm)	0.56	0.99042 (mg/L)	240.90153	0.55
12/14/2021 16:17:51	CRI-MIDLEVEL	B (249.772 nm)	0.11	0.94402 (mg/L)	11959.77272	0.11
12/14/2021 16:17:51	CRI-MIDLEVEL	Ba (413.064 nm)	0.05	0.97547 (mg/L)	6640.14765	0.05
12/14/2021 16:17:51	CRI-MIDLEVEL	Be (313.042 nm)	0.55	0.97819 (mg/L)	928853.37351	0.55
12/14/2021 16:17:51	CRI-MIDLEVEL	Ca (373.690 nm)	0.18	9.72028 (mg/L)	25695.90436	0.18
12/14/2021 16:17:51	CRI-MIDLEVEL	Cd (228.802 nm)	0.23	0.97249 (mg/L)	7887.80535	0.23
12/14/2021 16:17:51	CRI-MIDLEVEL	Co (230.786 nm)	0.12	0.98098 (mg/L)	3321.94296	0.12
12/14/2021 16:17:51	CRI-MIDLEVEL	Cr (267.716 nm)	0.14	0.98156 (mg/L)	14222.47873	0.14

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 16:17:51	CRI-MIDLEVEL	Cu (327.395 nm)	0.27	0.96706 (mg/L)	15475.83358	0.27
12/14/2021 16:17:51	CRI-MIDLEVEL	Fe (238.204 nm)	0.47	9.99057 (mg/L)	69153.76672	0.47
12/14/2021 16:17:51	CRI-MIDLEVEL	K (766.491 nm)	0.06	9.50842 (mg/L)	11175.97575	0.06
12/14/2021 16:17:51	CRI-MIDLEVEL	Mg (279.800 nm)	0.05	9.72993 (mg/L)	8143.72182	0.05
12/14/2021 16:17:51	CRI-MIDLEVEL	Mn (257.610 nm)	0.08	0.97393 (mg/L)	98759.77230	0.08
12/14/2021 16:17:51	CRI-MIDLEVEL	Mo (204.598 nm)	0.28	0.96886 (mg/L)	927.33905	0.28
12/14/2021 16:17:51	CRI-MIDLEVEL	Na (589.592 nm)	0.34	9.63675 (mg/L)	77726.47697	0.34
12/14/2021 16:17:51	CRI-MIDLEVEL	Ni (221.648 nm)	0.35	0.97877 (mg/L)	644.11428	0.35
12/14/2021 16:17:51	CRI-MIDLEVEL	P (213.618 nm)	0.83	0.97163 (mg/L)	247.20712	0.84
12/14/2021 16:17:51	CRI-MIDLEVEL	Pb (220.353 nm)	0.55	0.97714 (mg/L)	568.96494	0.55
12/14/2021 16:17:51	CRI-MIDLEVEL	S (181.972 nm)	3.17	1.08743 (mg/L)	16.95321	2.99
12/14/2021 16:17:51	CRI-MIDLEVEL	Sb (217.582 nm)	0.63	0.98556 (mg/L)	379.30975	0.62
12/14/2021 16:17:51	CRI-MIDLEVEL	Se (196.026 nm)	0.53	0.98368 (mg/L)	265.89627	0.51
12/14/2021 16:17:51	CRI-MIDLEVEL	Sn (189.925 nm)	0.96	0.98578 (mg/L)	208.98356	0.96
12/14/2021 16:17:51	CRI-MIDLEVEL	Sr (407.771 nm)	0.16	0.93166 (mg/L)	1799767.14866	0.16
12/14/2021 16:17:51	CRI-MIDLEVEL	Ti (337.280 nm)	0.12	0.97522 (mg/L)	18155.26883	0.12
12/14/2021 16:17:51	CRI-MIDLEVEL	Tl (351.923 nm)	0.93	0.98001 (mg/L)	719.36201	0.94
12/14/2021 16:17:51	CRI-MIDLEVEL	V (311.837 nm)	0.17	0.96417 (mg/L)	19894.83444	0.17
12/14/2021 16:17:51	CRI-MIDLEVEL	Zn (206.200 nm)	0.14	0.98236 (mg/L)	625.48977	0.14
12/14/2021 16:21:01	LCR 1	Ag (328.068 nm)	0.23	2.03853 (mg/L)	46424.08179	0.23
12/14/2021 16:21:01	LCR 1	Al (308.215 nm)	0.19	197.85190 (mg/L)	510548.29760	0.19
12/14/2021 16:21:01	LCR 1	As (193.696 nm)	0.08	18.91694 (mg/L)	4551.15783	0.08
12/14/2021 16:21:01	LCR 1	B (249.772 nm)	0.48	0.08854 (mg/L)	1176.42951	0.45
12/14/2021 16:21:01	LCR 1	Ba (413.064 nm)	0.18	17.56121 (mg/L)	118425.87069	0.18
12/14/2021 16:21:01	LCR 1	Be (313.042 nm)	0.56	16.14556 o (mg/L)	15328986.43284	0.56
12/14/2021 16:21:01	LCR 1	Ca (373.690 nm)	0.29	180.02648 o (mg/L)	477147.47463	0.29
12/14/2021 16:21:01	LCR 1	Cd (228.802 nm)	0.22	18.58219 (mg/L)	150517.13368	0.22
12/14/2021 16:21:01	LCR 1	Co (230.786 nm)	0.19	17.56919 (mg/L)	59475.07877	0.19
12/14/2021 16:21:01	LCR 1	Cr (267.716 nm)	0.32	17.77120 (mg/L)	257072.17960	0.32
12/14/2021 16:21:01	LCR 1	Cu (327.395 nm)	0.34	20.35874 (mg/L)	325592.70488	0.34
12/14/2021 16:21:01	LCR 1	Fe (238.204 nm)	0.58	154.43514 o (mg/L)	1067955.24287	0.58
12/14/2021 16:21:01	LCR 1	K (766.491 nm)	0.39	201.90712 o (mg/L)	235921.38390	0.39
12/14/2021 16:21:01	LCR 1	Mg (279.800 nm)	0.14	186.50557 o (mg/L)	156004.18652	0.14
12/14/2021 16:21:01	LCR 1	Mn (257.610 nm)	0.35	17.24714 (mg/L)	1748514.10099	0.35
12/14/2021 16:21:01	LCR 1	Mo (204.598 nm)	0.17	18.04496 (mg/L)	17225.39527	0.17
12/14/2021 16:21:01	LCR 1	Na (589.592 nm)	0.45	191.91156 (mg/L)	1539886.02606	0.45
12/14/2021 16:21:01	LCR 1	Ni (221.648 nm)	0.16	17.33708 (mg/L)	11377.19717	0.16
12/14/2021 16:21:01	LCR 1	P (213.618 nm)	4.33	-0.23044 u (mg/L)	-61.95608	4.14
12/14/2021 16:21:01	LCR 1	Pb (220.353 nm)	0.05	17.71459 (mg/L)	10329.68320	0.05
12/14/2021 16:21:01	LCR 1	S (181.972 nm)	89.26	0.09694 u (mg/L)	2.37812	53.54
12/14/2021 16:21:01	LCR 1	Sb (217.582 nm)	0.05	19.07790 (mg/L)	7334.63014	0.05
12/14/2021 16:21:01	LCR 1	Se (196.026 nm)	0.25	18.47411 (mg/L)	4856.82212	0.25
12/14/2021 16:21:01	LCR 1	Sn (189.925 nm)	0.03	17.84988 (mg/L)	3760.27368	0.03
12/14/2021 16:21:01	LCR 1	Sr (407.771 nm)	1.41	-0.00030 u (mg/L)	-316.68689	2.58
12/14/2021 16:21:01	LCR 1	Ti (337.280 nm)	0.27	18.07366 (mg/L)	336037.46934	0.27
12/14/2021 16:21:01	LCR 1	Tl (351.923 nm)	0.24	20.43904 (mg/L)	15139.08480	0.24
12/14/2021 16:21:01	LCR 1	V (311.837 nm)	0.40	18.52471 (mg/L)	382135.81317	0.40
12/14/2021 16:21:01	LCR 1	Zn (206.200 nm)	0.25	16.97743 (mg/L)	10756.57382	0.25

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 16:28:24	LCR 2	Ag (328.068 nm)	0.37	1.02256 (mg/L)	23287.34323	0.37
12/14/2021 16:28:24	LCR 2	Al (308.215 nm)	0.32	100.15045 (mg/L)	258666.68687	0.32
12/14/2021 16:28:24	LCR 2	As (193.696 nm)	0.69	9.76175 (mg/L)	2349.88203	0.69
12/14/2021 16:28:24	LCR 2	B (249.772 nm)	0.90	0.04983 (mg/L)	688.46863	0.82
12/14/2021 16:28:24	LCR 2	Ba (413.064 nm)	0.20	9.30102 (mg/L)	62753.23059	0.20
12/14/2021 16:28:24	LCR 2	Be (313.042 nm)	0.46	8.91307 (mg/L)	8462354.29616	0.46
12/14/2021 16:28:24	LCR 2	Ca (373.690 nm)	0.40	94.00502 (mg/L)	249119.81189	0.40
12/14/2021 16:28:24	LCR 2	Cd (228.802 nm)	0.78	9.65450 (mg/L)	78207.51971	0.78
12/14/2021 16:28:24	LCR 2	Co (230.786 nm)	0.30	9.26010 (mg/L)	31347.80446	0.30
12/14/2021 16:28:24	LCR 2	Cr (267.716 nm)	0.22	9.31055 (mg/L)	134695.21490	0.22
12/14/2021 16:28:24	LCR 2	Cu (327.395 nm)	0.53	10.07987 (mg/L)	161210.35123	0.53
12/14/2021 16:28:24	LCR 2	Fe (238.204 nm)	0.57	87.44965 (mg/L)	604765.76758	0.57
12/14/2021 16:28:24	LCR 2	K (766.491 nm)	0.44	101.29955 (mg/L)	118399.33875	0.44
12/14/2021 16:28:24	LCR 2	Mg (279.800 nm)	0.26	96.01354 (mg/L)	80313.93062	0.26
12/14/2021 16:28:24	LCR 2	Mn (257.610 nm)	0.18	9.17134 (mg/L)	929801.26172	0.18
12/14/2021 16:28:24	LCR 2	Mo (204.598 nm)	0.49	9.43038 (mg/L)	9003.32734	0.49
12/14/2021 16:28:24	LCR 2	Na (589.592 nm)	0.31	97.33082 (mg/L)	781184.74851	0.31
12/14/2021 16:28:24	LCR 2	Ni (221.648 nm)	0.40	9.24682 (mg/L)	6068.97988	0.40
12/14/2021 16:28:24	LCR 2	P (213.618 nm)	4.85	-0.10911 u (mg/L)	-30.75090	4.43
12/14/2021 16:28:24	LCR 2	Pb (220.353 nm)	0.28	9.35345 (mg/L)	5453.74660	0.28
12/14/2021 16:28:24	LCR 2	S (181.972 nm)	> 100.00	-0.01975 u (mg/L)	0.66107	96.15
12/14/2021 16:28:24	LCR 2	Sb (217.582 nm)	0.34	9.82610 (mg/L)	3777.91809	0.34
12/14/2021 16:28:24	LCR 2	Se (196.026 nm)	0.30	9.75571 (mg/L)	2568.39773	0.30
12/14/2021 16:28:24	LCR 2	Sn (189.925 nm)	0.59	9.42552 (mg/L)	1986.24930	0.59
12/14/2021 16:28:24	LCR 2	Sr (407.771 nm)	0.51	-0.00063 u (mg/L)	-961.11741	0.65
12/14/2021 16:28:24	LCR 2	Ti (337.280 nm)	0.32	9.43377 (mg/L)	175410.70131	0.32
12/14/2021 16:28:24	LCR 2	Tl (351.923 nm)	0.41	10.14792 (mg/L)	7513.05483	0.41
12/14/2021 16:28:24	LCR 2	V (311.837 nm)	0.29	9.56434 (mg/L)	197300.20461	0.29
12/14/2021 16:28:24	LCR 2	Zn (206.200 nm)	0.31	9.20192 (mg/L)	5831.65598	0.31
12/14/2021 16:35:36	LCR 3	Ag (328.068 nm)	0.37	0.46636 (mg/L)	10620.99580	0.37
12/14/2021 16:35:36	LCR 3	Al (308.215 nm)	0.46	47.71541 (mg/L)	123485.23106	0.46
12/14/2021 16:35:36	LCR 3	As (193.696 nm)	0.85	4.76735 (mg/L)	1149.02623	0.85
12/14/2021 16:35:36	LCR 3	B (249.772 nm)	1.95	0.02346 (mg/L)	356.18087	1.62
12/14/2021 16:35:36	LCR 3	Ba (413.064 nm)	0.44	4.56662 (mg/L)	30844.00035	0.44
12/14/2021 16:35:36	LCR 3	Be (313.042 nm)	0.21	4.55482 (mg/L)	4324566.64026	0.21
12/14/2021 16:35:36	LCR 3	Ca (373.690 nm)	0.44	45.69809 (mg/L)	121066.70675	0.44
12/14/2021 16:35:36	LCR 3	Cd (228.802 nm)	0.67	4.67738 (mg/L)	37895.39981	0.67
12/14/2021 16:35:36	LCR 3	Co (230.786 nm)	0.28	4.58934 (mg/L)	15536.70132	0.28
12/14/2021 16:35:36	LCR 3	Cr (267.716 nm)	0.50	4.61483 (mg/L)	66774.98322	0.50
12/14/2021 16:35:36	LCR 3	Cu (327.395 nm)	0.99	4.73363 (mg/L)	75711.84663	0.99
12/14/2021 16:35:36	LCR 3	Fe (238.204 nm)	0.90	45.04331 (mg/L)	311535.53386	0.90
12/14/2021 16:35:36	LCR 3	K (766.491 nm)	0.24	47.67555 (mg/L)	55759.88747	0.24
12/14/2021 16:35:36	LCR 3	Mg (279.800 nm)	0.46	46.36084 (mg/L)	38782.91833	0.46
12/14/2021 16:35:36	LCR 3	Mn (257.610 nm)	0.35	4.56711 (mg/L)	463031.19947	0.35
12/14/2021 16:35:36	LCR 3	Mo (204.598 nm)	0.37	4.63157 (mg/L)	4423.17098	0.37
12/14/2021 16:35:36	LCR 3	Na (589.592 nm)	0.33	47.28140 (mg/L)	379701.74783	0.33
12/14/2021 16:35:36	LCR 3	Ni (221.648 nm)	0.55	4.59347 (mg/L)	3015.80645	0.55
12/14/2021 16:35:36	LCR 3	P (213.618 nm)	13.77	-0.06759 u (mg/L)	-20.07147	11.93

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 16:35:36	LCR 3	Pb (220.353 nm)	0.42	4.60134 (mg/L)	2682.48093	0.42
12/14/2021 16:35:36	LCR 3	S (181.972 nm)	> 100.00	-0.02416 u (mg/L)	0.59609	> 100.00
12/14/2021 16:35:36	LCR 3	Sb (217.582 nm)	0.52	4.75196 (mg/L)	1827.24345	0.52
12/14/2021 16:35:36	LCR 3	Se (196.026 nm)	0.22	4.78441 (mg/L)	1263.52083	0.22
12/14/2021 16:35:36	LCR 3	Sn (189.925 nm)	0.47	4.61458 (mg/L)	973.14697	0.47
12/14/2021 16:35:36	LCR 3	Sr (407.771 nm)	0.79	-0.00055 u (mg/L)	-800.86917	1.05
12/14/2021 16:35:36	LCR 3	Ti (337.280 nm)	0.38	4.61508 (mg/L)	85825.05626	0.38
12/14/2021 16:35:36	LCR 3	Tl (351.923 nm)	0.46	4.79911 (mg/L)	3549.42697	0.46
12/14/2021 16:35:36	LCR 3	V (311.837 nm)	0.29	4.64212 (mg/L)	95764.04511	0.29
12/14/2021 16:35:36	LCR 3	Zn (206.200 nm)	0.36	4.59396 (mg/L)	2913.03398	0.36
12/14/2021 16:43:12	LCR-Pb-Inhouse	Ag (328.068 nm)	61.06	0.00029 (mg/L)	7.26070	55.35
12/14/2021 16:43:12	LCR-Pb-Inhouse	Al (308.215 nm)	4.95	-0.06336 u (mg/L)	308.02904	2.63
12/14/2021 16:43:12	LCR-Pb-Inhouse	As (193.696 nm)	86.09	0.01255 (mg/L)	5.78213	44.93
12/14/2021 16:43:12	LCR-Pb-Inhouse	B (249.772 nm)	0.76	85.17608 o (mg/L)	1073708.40851	0.76
12/14/2021 16:43:12	LCR-Pb-Inhouse	Ba (413.064 nm)	48.24	0.00118 (mg/L)	73.54876	5.21
12/14/2021 16:43:12	LCR-Pb-Inhouse	Be (313.042 nm)	6.50	0.00005 (mg/L)	193.31658	1.47
12/14/2021 16:43:12	LCR-Pb-Inhouse	Ca (373.690 nm)	17.53	0.01575 (mg/L)	-29.08439	25.17
12/14/2021 16:43:12	LCR-Pb-Inhouse	Cd (228.802 nm)	69.75	-0.00047 u (mg/L)	7.32316	36.10
12/14/2021 16:43:12	LCR-Pb-Inhouse	Co (230.786 nm)	52.40	0.00019 (mg/L)	1.85930	17.96
12/14/2021 16:43:12	LCR-Pb-Inhouse	Cr (267.716 nm)	7.69	0.00200 (mg/L)	53.87633	4.13
12/14/2021 16:43:12	LCR-Pb-Inhouse	Cu (327.395 nm)	> 100.00	0.00005 u (mg/L)	11.20307	22.79
12/14/2021 16:43:12	LCR-Pb-Inhouse	Fe (238.204 nm)	10.04	-0.00195 u (mg/L)	57.74180	2.34
12/14/2021 16:43:12	LCR-Pb-Inhouse	K (766.491 nm)	40.18	0.05136 (mg/L)	128.96306	18.69
12/14/2021 16:43:12	LCR-Pb-Inhouse	Mg (279.800 nm)	79.13	0.00192 (mg/L)	6.92082	18.38
12/14/2021 16:43:12	LCR-Pb-Inhouse	Mn (257.610 nm)	6.34	0.00027 (mg/L)	51.72933	3.42
12/14/2021 16:43:12	LCR-Pb-Inhouse	Mo (204.598 nm)	75.70	0.00109 (mg/L)	3.66198	21.41
12/14/2021 16:43:12	LCR-Pb-Inhouse	Na (589.592 nm)	> 100.00	-0.00117 u (mg/L)	413.69811	2.39
12/14/2021 16:43:12	LCR-Pb-Inhouse	Ni (221.648 nm)	> 100.00	0.00076 u (mg/L)	2.41830	83.20
12/14/2021 16:43:12	LCR-Pb-Inhouse	P (213.618 nm)	0.50	90.54859 o (mg/L)	23285.59064	0.50
12/14/2021 16:43:12	LCR-Pb-Inhouse	Pb (220.353 nm)	0.39	194.49622 o (mg/L)	113422.79984	0.39
12/14/2021 16:43:12	LCR-Pb-Inhouse	S (181.972 nm)	0.23	98.03034 o (mg/L)	1443.47356	0.23
12/14/2021 16:43:12	LCR-Pb-Inhouse	Sb (217.582 nm)	19.94	0.03091 (mg/L)	12.30995	19.25
12/14/2021 16:43:12	LCR-Pb-Inhouse	Se (196.026 nm)	> 100.00	-0.00200 u (mg/L)	7.17379	30.56
12/14/2021 16:43:12	LCR-Pb-Inhouse	Sn (189.925 nm)	> 100.00	0.00029 u (mg/L)	1.45670	49.75
12/14/2021 16:43:12	LCR-Pb-Inhouse	Sr (407.771 nm)	0.71	8.13337 (mg/L)	15709928.57501	0.71
12/14/2021 16:43:12	LCR-Pb-Inhouse	Ti (337.280 nm)	> 100.00	0.00026 u (mg/L)	29.44235	17.51
12/14/2021 16:43:12	LCR-Pb-Inhouse	Tl (351.923 nm)	28.02	-0.01436 u (mg/L)	-17.49585	17.04
12/14/2021 16:43:12	LCR-Pb-Inhouse	V (311.837 nm)	56.76	-0.00011 u (mg/L)	3.67025	33.59
12/14/2021 16:43:12	LCR-Pb-Inhouse	Zn (206.200 nm)	60.27	0.00404 (mg/L)	5.83351	26.45
12/14/2021 16:50:15	MB-327304	Ag (328.068 nm)	15.25	0.00010 (mg/L)	2.95177	11.74
12/14/2021 16:50:15	MB-327304	Al (308.215 nm)	13.03	-0.01088 u (mg/L)	443.32385	0.82
12/14/2021 16:50:15	MB-327304	As (193.696 nm)	46.71	0.01076 (mg/L)	5.35177	22.58
12/14/2021 16:50:15	MB-327304	B (249.772 nm)	5.03	0.03322 (mg/L)	479.16571	4.40
12/14/2021 16:50:15	MB-327304	Ba (413.064 nm)	> 100.00	0.00068 u (mg/L)	70.17072	7.50
12/14/2021 16:50:15	MB-327304	Be (313.042 nm)	47.92	0.00000 (mg/L)	154.28681	1.43
12/14/2021 16:50:15	MB-327304	Ca (373.690 nm)	45.23	0.00578 (mg/L)	-55.50790	12.49
12/14/2021 16:50:15	MB-327304	Cd (228.802 nm)	> 100.00	0.00030 u (mg/L)	13.54126	25.71
12/14/2021 16:50:15	MB-327304	Co (230.786 nm)	41.38	0.00047 (mg/L)	2.82085	23.46

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 18:33:36	2112G62-010A/20x	Ba (413.064 nm)	> 100.00	0.00114 (mg/L)	73.25790	10.69
12/14/2021 18:33:36	2112G62-010A/20x	Be (313.042 nm)	7.46	0.00002 (mg/L)	171.62815	0.95
12/14/2021 18:33:36	2112G62-010A/20x	Ca (373.690 nm)	5.92	0.04162 (mg/L)	39.49387	16.55
12/14/2021 18:33:36	2112G62-010A/20x	Cd (228.802 nm)	55.58	-0.00038 u (mg/L)	8.00865	21.55
12/14/2021 18:33:36	2112G62-010A/20x	Co (230.786 nm)	5.76	0.00635 (mg/L)	22.71426	5.45
12/14/2021 18:33:36	2112G62-010A/20x	Cr (267.716 nm)	17.87	0.00034 (mg/L)	29.82987	2.93
12/14/2021 18:33:36	2112G62-010A/20x	Cu (327.395 nm)	20.13	0.00142 (mg/L)	32.97730	13.81
12/14/2021 18:33:36	2112G62-010A/20x	Fe (238.204 nm)	0.50	0.45250 (mg/L)	3200.17069	0.49
12/14/2021 18:33:36	2112G62-010A/20x	K (766.491 nm)	15.41	0.06984 (mg/L)	150.55797	8.35
12/14/2021 18:33:36	2112G62-010A/20x	Mg (279.800 nm)	31.10	0.00706 (mg/L)	11.21797	16.37
12/14/2021 18:33:36	2112G62-010A/20x	Mn (257.610 nm)	0.88	0.00579 (mg/L)	610.36324	0.85
12/14/2021 18:33:36	2112G62-010A/20x	Mo (204.598 nm)	> 100.00	-0.00039 u (mg/L)	2.25130	74.60
12/14/2021 18:33:36	2112G62-010A/20x	Na (589.592 nm)	15.84	0.01269 (mg/L)	524.86906	3.07
12/14/2021 18:33:36	2112G62-010A/20x	Ni (221.648 nm)	5.67	0.01734 (mg/L)	13.29660	4.86
12/14/2021 18:33:36	2112G62-010A/20x	P (213.618 nm)	75.37	0.00611 (mg/L)	-1.11693	> 100.00
12/14/2021 18:33:36	2112G62-010A/20x	Pb (220.353 nm)	> 100.00	0.00001 u (mg/L)	-0.86311	48.97
12/14/2021 18:33:36	2112G62-010A/20x	S (181.972 nm)	> 100.00	-0.05279 u (mg/L)	0.17484	> 100.00
12/14/2021 18:33:36	2112G62-010A/20x	Sb (217.582 nm)	> 100.00	-0.00031 u (mg/L)	0.30993	> 100.00
12/14/2021 18:33:36	2112G62-010A/20x	Se (196.026 nm)	> 100.00	-0.00788 u (mg/L)	5.63104	52.77
12/14/2021 18:33:36	2112G62-010A/20x	Sn (189.925 nm)	> 100.00	-0.00059 u (mg/L)	1.27124	82.16
12/14/2021 18:33:36	2112G62-010A/20x	Sr (407.771 nm)	10.71	0.00021 (mg/L)	672.75959	6.51
12/14/2021 18:33:36	2112G62-010A/20x	Ti (337.280 nm)	5.25	0.00875 (mg/L)	187.32579	4.55
12/14/2021 18:33:36	2112G62-010A/20x	Tl (351.923 nm)	88.29	0.00526 (mg/L)	-2.95734	> 100.00
12/14/2021 18:33:36	2112G62-010A/20x	V (311.837 nm)	20.02	0.00072 (mg/L)	20.73709	14.38
12/14/2021 18:33:36	2112G62-010A/20x	Zn (206.200 nm)	51.36	0.00279 (mg/L)	5.03993	18.01
12/14/2021 18:36:48	Cont Calib Verif	Ag (328.068 nm)	0.36	0.09786 (mg/L)	2229.16280	0.36
12/14/2021 18:36:48	Cont Calib Verif	Al (308.215 nm)	0.30	9.82945 (mg/L)	25812.41634	0.29
12/14/2021 18:36:48	Cont Calib Verif	As (193.696 nm)	0.69	1.02328 (mg/L)	248.80210	0.68
12/14/2021 18:36:48	Cont Calib Verif	B (249.772 nm)	0.38	0.95389 (mg/L)	12084.18883	0.38
12/14/2021 18:36:48	Cont Calib Verif	Ba (413.064 nm)	0.45	0.99112 (mg/L)	6745.63954	0.44
12/14/2021 18:36:48	Cont Calib Verif	Be (313.042 nm)	0.57	0.99591 (mg/L)	945683.19491	0.57
12/14/2021 18:36:48	Cont Calib Verif	Ca (373.690 nm)	0.40	9.85413 (mg/L)	26050.72366	0.40
12/14/2021 18:36:48	Cont Calib Verif	Cd (228.802 nm)	0.05	0.98085 (mg/L)	7955.44411	0.05
12/14/2021 18:36:48	Cont Calib Verif	Co (230.786 nm)	0.20	0.99369 (mg/L)	3364.99491	0.20
12/14/2021 18:36:48	Cont Calib Verif	Cr (267.716 nm)	0.25	1.00176 (mg/L)	14514.65576	0.25
12/14/2021 18:36:48	Cont Calib Verif	Cu (327.395 nm)	0.33	0.98090 (mg/L)	15697.15430	0.33
12/14/2021 18:36:48	Cont Calib Verif	Fe (238.204 nm)	0.27	10.38794 (mg/L)	71901.49499	0.27
12/14/2021 18:36:48	Cont Calib Verif	K (766.491 nm)	0.27	9.63569 (mg/L)	11324.64685	0.27
12/14/2021 18:36:48	Cont Calib Verif	Mg (279.800 nm)	0.19	9.88170 (mg/L)	8270.66105	0.19
12/14/2021 18:36:48	Cont Calib Verif	Mn (257.610 nm)	0.33	0.98660 (mg/L)	100043.83424	0.33
12/14/2021 18:36:48	Cont Calib Verif	Mo (204.598 nm)	0.77	0.98817 (mg/L)	945.76894	0.76
12/14/2021 18:36:48	Cont Calib Verif	Na (589.592 nm)	0.26	9.79284 (mg/L)	78978.60277	0.26
12/14/2021 18:36:48	Cont Calib Verif	Ni (221.648 nm)	0.75	0.98751 (mg/L)	649.84991	0.75
12/14/2021 18:36:48	Cont Calib Verif	P (213.618 nm)	0.30	0.98313 (mg/L)	250.16424	0.30
12/14/2021 18:36:48	Cont Calib Verif	Pb (220.353 nm)	0.40	0.98664 (mg/L)	574.50500	0.40
12/14/2021 18:36:48	Cont Calib Verif	S (181.972 nm)	0.97	1.06755 (mg/L)	16.66073	0.92
12/14/2021 18:36:48	Cont Calib Verif	Sb (217.582 nm)	0.39	1.00880 (mg/L)	388.24512	0.39
12/14/2021 18:36:48	Cont Calib Verif	Se (196.026 nm)	0.73	1.00419 (mg/L)	271.28070	0.71

211214A.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 18:36:48	Cont Calib Verif	Sn (189.925 nm)	0.94	0.99935 (mg/L)	211.84150	0.94
12/14/2021 18:36:48	Cont Calib Verif	Sr (407.771 nm)	0.31	0.93695 (mg/L)	1809985.67384	0.31
12/14/2021 18:36:48	Cont Calib Verif	Ti (337.280 nm)	0.31	0.99097 (mg/L)	18448.14649	0.31
12/14/2021 18:36:48	Cont Calib Verif	Tl (351.923 nm)	0.89	0.99703 (mg/L)	731.97522	0.90
12/14/2021 18:36:48	Cont Calib Verif	V (311.837 nm)	0.34	0.97709 (mg/L)	20161.33644	0.34
12/14/2021 18:36:48	Cont Calib Verif	Zn (206.200 nm)	0.50	0.99795 (mg/L)	635.36429	0.50
12/14/2021 18:40:00	Cont Calib Blank	Ag (328.068 nm)	> 100.00	0.00001 u (mg/L)	0.85515	> 100.00
12/14/2021 18:40:00	Cont Calib Blank	Al (308.215 nm)	1.82	-0.03638 u (mg/L)	377.58172	0.45
12/14/2021 18:40:00	Cont Calib Blank	As (193.696 nm)	96.50	0.00780 (mg/L)	4.63991	39.01
12/14/2021 18:40:00	Cont Calib Blank	B (249.772 nm)	61.82	-0.00044 u (mg/L)	54.90623	6.20
12/14/2021 18:40:00	Cont Calib Blank	Ba (413.064 nm)	63.36	-0.00084 u (mg/L)	59.95314	5.97
12/14/2021 18:40:00	Cont Calib Blank	Be (313.042 nm)	24.47	0.00001 (mg/L)	159.94649	1.57
12/14/2021 18:40:00	Cont Calib Blank	Ca (373.690 nm)	18.02	-0.00460 u (mg/L)	-83.01703	2.64
12/14/2021 18:40:00	Cont Calib Blank	Cd (228.802 nm)	> 100.00	-0.00007 u (mg/L)	10.52169	19.81
12/14/2021 18:40:00	Cont Calib Blank	Co (230.786 nm)	> 100.00	0.00030 u (mg/L)	2.24760	58.09
12/14/2021 18:40:00	Cont Calib Blank	Cr (267.716 nm)	20.85	-0.00070 u (mg/L)	14.84603	14.18
12/14/2021 18:40:00	Cont Calib Blank	Cu (327.395 nm)	> 100.00	-0.00019 u (mg/L)	7.26906	46.92
12/14/2021 18:40:00	Cont Calib Blank	Fe (238.204 nm)	7.94	-0.00513 u (mg/L)	35.76354	7.87
12/14/2021 18:40:00	Cont Calib Blank	K (766.491 nm)	10.57	0.07161 (mg/L)	152.62066	5.79
12/14/2021 18:40:00	Cont Calib Blank	Mg (279.800 nm)	> 100.00	0.00036 u (mg/L)	5.61199	42.58
12/14/2021 18:40:00	Cont Calib Blank	Mn (257.610 nm)	> 100.00	0.00004 (mg/L)	28.26900	17.30
12/14/2021 18:40:00	Cont Calib Blank	Mo (204.598 nm)	45.51	-0.00189 u (mg/L)	0.82302	99.71
12/14/2021 18:40:00	Cont Calib Blank	Na (589.592 nm)	27.95	0.00283 (mg/L)	445.80646	1.43
12/14/2021 18:40:00	Cont Calib Blank	Ni (221.648 nm)	> 100.00	-0.00043 u (mg/L)	1.63569	48.41
12/14/2021 18:40:00	Cont Calib Blank	P (213.618 nm)	> 100.00	0.00059 u (mg/L)	-2.53582	36.31
12/14/2021 18:40:00	Cont Calib Blank	Pb (220.353 nm)	> 100.00	0.00036 u (mg/L)	-0.66015	> 100.00
12/14/2021 18:40:00	Cont Calib Blank	S (181.972 nm)	> 100.00	-0.03711 u (mg/L)	0.40560	> 100.00
12/14/2021 18:40:00	Cont Calib Blank	Sb (217.582 nm)	46.81	0.00471 (mg/L)	2.23736	37.86
12/14/2021 18:40:00	Cont Calib Blank	Se (196.026 nm)	> 100.00	0.00192 u (mg/L)	8.20173	20.42
12/14/2021 18:40:00	Cont Calib Blank	Sn (189.925 nm)	> 100.00	-0.00052 u (mg/L)	1.28528	29.70
12/14/2021 18:40:00	Cont Calib Blank	Sr (407.771 nm)	59.96	0.00001 (mg/L)	284.32182	4.32
12/14/2021 18:40:00	Cont Calib Blank	Ti (337.280 nm)	61.33	0.00034 (mg/L)	31.03775	12.60
12/14/2021 18:40:00	Cont Calib Blank	Tl (351.923 nm)	> 100.00	0.00169 u (mg/L)	-5.60629	40.32
12/14/2021 18:40:00	Cont Calib Blank	V (311.837 nm)	> 100.00	-0.00002 u (mg/L)	5.49985	46.31
12/14/2021 18:40:00	Cont Calib Blank	Zn (206.200 nm)	> 100.00	0.00014 u (mg/L)	3.36284	8.69
12/14/2021 18:43:11	MB-327295	Ag (328.068 nm)	> 100.00	0.00013 (mg/L)	3.56111	86.03
12/14/2021 18:43:11	MB-327295	Al (308.215 nm)	2.85	-0.06690 u (mg/L)	298.89197	1.64
12/14/2021 18:43:11	MB-327295	As (193.696 nm)	85.43	0.00779 (mg/L)	4.63665	34.50
12/14/2021 18:43:11	MB-327295	B (249.772 nm)	15.69	-0.00044 u (mg/L)	54.84957	1.59
12/14/2021 18:43:11	MB-327295	Ba (413.064 nm)	13.81	0.00184 (mg/L)	77.98198	2.19
12/14/2021 18:43:11	MB-327295	Be (313.042 nm)	53.89	0.00001 (mg/L)	159.11882	3.20
12/14/2021 18:43:11	MB-327295	Ca (373.690 nm)	99.82	0.00145 (mg/L)	-66.98846	5.73
12/14/2021 18:43:11	MB-327295	Cd (228.802 nm)	> 100.00	-0.00018 u (mg/L)	9.67051	29.69
12/14/2021 18:43:11	MB-327295	Co (230.786 nm)	> 100.00	0.00050 u (mg/L)	2.91214	77.80
12/14/2021 18:43:11	MB-327295	Cr (267.716 nm)	19.33	-0.00069 u (mg/L)	15.02025	12.77
12/14/2021 18:43:11	MB-327295	Cu (327.395 nm)	42.51	-0.00042 u (mg/L)	3.56024	81.03
12/14/2021 18:43:11	MB-327295	Fe (238.204 nm)	6.47	-0.00473 u (mg/L)	38.53439	5.49
12/14/2021 18:43:11	MB-327295	K (766.491 nm)	8.96	0.03371 (mg/L)	108.35094	3.26

211214A.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 18:43:11	MB-327295	Mg (279.800 nm)	35.39	0.00222 (mg/L)	7.16808	9.16
12/14/2021 18:43:11	MB-327295	Mn (257.610 nm)	66.99	0.00006 (mg/L)	30.01798	13.70
12/14/2021 18:43:11	MB-327295	Mo (204.598 nm)	> 100.00	-0.00072 u (mg/L)	1.93482	88.41
12/14/2021 18:43:11	MB-327295	Na (589.592 nm)	12.14	0.01699 (mg/L)	559.35192	2.96
12/14/2021 18:43:11	MB-327295	Ni (221.648 nm)	> 100.00	0.00065 u (mg/L)	2.34658	33.91
12/14/2021 18:43:11	MB-327295	P (213.618 nm)	> 100.00	-0.00422 u (mg/L)	-3.77421	42.69
12/14/2021 18:43:11	MB-327295	Pb (220.353 nm)	> 100.00	-0.00093 u (mg/L)	-1.40913	76.62
12/14/2021 18:43:11	MB-327295	S (181.972 nm)	> 100.00	-0.01166 u (mg/L)	0.78003	34.42
12/14/2021 18:43:11	MB-327295	Sb (217.582 nm)	> 100.00	-0.00019 u (mg/L)	0.35436	> 100.00
12/14/2021 18:43:11	MB-327295	Se (196.026 nm)	93.64	-0.00221 u (mg/L)	7.11825	7.64
12/14/2021 18:43:11	MB-327295	Sn (189.925 nm)	55.87	-0.00321 u (mg/L)	0.71804	52.64
12/14/2021 18:43:11	MB-327295	Sr (407.771 nm)	88.04	0.00002 (mg/L)	302.29694	11.20
12/14/2021 18:43:11	MB-327295	Ti (337.280 nm)	> 100.00	0.00012 u (mg/L)	26.85255	18.06
12/14/2021 18:43:11	MB-327295	Tl (351.923 nm)	> 100.00	-0.00366 u (mg/L)	-9.57026	49.63
12/14/2021 18:43:11	MB-327295	V (311.837 nm)	> 100.00	-0.00002 u (mg/L)	5.49874	36.00
12/14/2021 18:43:11	MB-327295	Zn (206.200 nm)	> 100.00	-0.00130 u (mg/L)	2.45150	36.37
12/14/2021 18:46:21	LCS-327295	Ag (328.068 nm)	3.28	0.01054 (mg/L)	240.68720	3.27
12/14/2021 18:46:21	LCS-327295	Al (308.215 nm)	0.12	0.99075 (mg/L)	3025.59551	0.10
12/14/2021 18:46:21	LCS-327295	As (193.696 nm)	5.98	0.10307 (mg/L)	27.54743	5.38
12/14/2021 18:46:21	LCS-327295	B (249.772 nm)	71.07	0.00022 (mg/L)	63.19685	3.13
12/14/2021 18:46:21	LCS-327295	Ba (413.064 nm)	0.58	0.10573 (mg/L)	778.23952	0.53
12/14/2021 18:46:21	LCS-327295	Be (313.042 nm)	0.12	0.10398 (mg/L)	98866.33886	0.12
12/14/2021 18:46:21	LCS-327295	Ca (373.690 nm)	0.61	1.04717 (mg/L)	2705.03685	0.63
12/14/2021 18:46:21	LCS-327295	Cd (228.802 nm)	0.10	0.10226 (mg/L)	839.32685	0.10
12/14/2021 18:46:21	LCS-327295	Co (230.786 nm)	0.21	0.10649 (mg/L)	361.70995	0.21
12/14/2021 18:46:21	LCS-327295	Cr (267.716 nm)	0.45	0.10565 (mg/L)	1553.04640	0.44
12/14/2021 18:46:21	LCS-327295	Cu (327.395 nm)	0.48	0.10409 (mg/L)	1675.05396	0.48
12/14/2021 18:46:21	LCS-327295	Fe (238.204 nm)	0.27	1.09543 (mg/L)	7645.85179	0.27
12/14/2021 18:46:21	LCS-327295	K (766.491 nm)	0.98	1.02580 (mg/L)	1267.23804	0.92
12/14/2021 18:46:21	LCS-327295	Mg (279.800 nm)	0.62	1.03337 (mg/L)	869.65849	0.62
12/14/2021 18:46:21	LCS-327295	Mn (257.610 nm)	0.25	0.10548 (mg/L)	10717.03113	0.25
12/14/2021 18:46:21	LCS-327295	Mo (204.598 nm)	2.70	0.10146 (mg/L)	99.46618	2.63
12/14/2021 18:46:21	LCS-327295	Na (589.592 nm)	0.48	1.03713 (mg/L)	8742.65018	0.45
12/14/2021 18:46:21	LCS-327295	Ni (221.648 nm)	3.14	0.10801 (mg/L)	72.78762	3.06
12/14/2021 18:46:21	LCS-327295	P (213.618 nm)	> 100.00	-0.00102 u (mg/L)	-2.95099	35.52
12/14/2021 18:46:21	LCS-327295	Pb (220.353 nm)	1.84	0.10397 (mg/L)	59.76020	1.86
12/14/2021 18:46:21	LCS-327295	S (181.972 nm)	96.02	0.02380 u (mg/L)	1.30191	25.84
12/14/2021 18:46:21	LCS-327295	Sb (217.582 nm)	6.30	0.10041 (mg/L)	39.02742	6.23
12/14/2021 18:46:21	LCS-327295	Se (196.026 nm)	4.54	0.09728 (mg/L)	33.23451	3.49
12/14/2021 18:46:21	LCS-327295	Sn (189.925 nm)	5.66	0.10234 (mg/L)	22.94525	5.31
12/14/2021 18:46:21	LCS-327295	Sr (407.771 nm)	15.52	0.00006 (mg/L)	382.75656	4.82
12/14/2021 18:46:21	LCS-327295	Ti (337.280 nm)	0.21	0.10392 (mg/L)	1956.57683	0.21
12/14/2021 18:46:21	LCS-327295	Tl (351.923 nm)	6.47	0.10145 (mg/L)	68.31907	7.12
12/14/2021 18:46:21	LCS-327295	V (311.837 nm)	0.41	0.10013 (mg/L)	2071.35921	0.41
12/14/2021 18:46:21	LCS-327295	Zn (206.200 nm)	2.34	0.10394 (mg/L)	69.10812	2.23
12/14/2021 18:49:31	2112G62-003B	Ag (328.068 nm)	99.18	0.00022 (mg/L)	5.75847	87.48
12/14/2021 18:49:31	2112G62-003B	Al (308.215 nm)	0.42	1.32069 (mg/L)	3876.20825	0.37
12/14/2021 18:49:31	2112G62-003B	As (193.696 nm)	> 100.00	0.00532 u (mg/L)	4.04388	38.01

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 18:49:31	2112G62-003B	B (249.772 nm)	0.49	0.03196 (mg/L)	463.29907	0.42
12/14/2021 18:49:31	2112G62-003B	Ba (413.064 nm)	1.45	0.03127 (mg/L)	276.38398	1.11
12/14/2021 18:49:31	2112G62-003B	Be (313.042 nm)	> 100.00	0.00000 u (mg/L)	147.99797	5.77
12/14/2021 18:49:31	2112G62-003B	Ca (373.690 nm)	0.26	6.11671 (mg/L)	16143.46551	0.26
12/14/2021 18:49:31	2112G62-003B	Cd (228.802 nm)	> 100.00	0.00000 u (mg/L)	11.12754	33.75
12/14/2021 18:49:31	2112G62-003B	Co (230.786 nm)	1.05	0.15173 (mg/L)	514.85525	1.04
12/14/2021 18:49:31	2112G62-003B	Cr (267.716 nm)	12.47	0.00107 (mg/L)	40.46413	4.78
12/14/2021 18:49:31	2112G62-003B	Cu (327.395 nm)	1.19	0.05011 (mg/L)	811.66734	1.17
12/14/2021 18:49:31	2112G62-003B	Fe (238.204 nm)	0.08	1.57820 (mg/L)	10984.10072	0.08
12/14/2021 18:49:31	2112G62-003B	K (766.491 nm)	0.58	2.56584 (mg/L)	3066.19071	0.57
12/14/2021 18:49:31	2112G62-003B	Mg (279.800 nm)	0.11	2.28759 (mg/L)	1918.72364	0.11
12/14/2021 18:49:31	2112G62-003B	Mn (257.610 nm)	0.24	0.26129 (mg/L)	26513.23938	0.24
12/14/2021 18:49:31	2112G62-003B	Mo (204.598 nm)	> 100.00	0.00089 u (mg/L)	3.47889	35.09
12/14/2021 18:49:31	2112G62-003B	Na (589.592 nm)	0.26	6.61717 (mg/L)	53504.21074	0.26
12/14/2021 18:49:31	2112G62-003B	Ni (221.648 nm)	0.70	0.11930 (mg/L)	80.19376	0.68
12/14/2021 18:49:31	2112G62-003B	P (213.618 nm)	0.13	2.72289 (mg/L)	697.61509	0.13
12/14/2021 18:49:31	2112G62-003B	Pb (220.353 nm)	71.08	0.00387 (mg/L)	1.38621	> 100.00
12/14/2021 18:49:31	2112G62-003B	S (181.972 nm)	1.26	3.09089 (mg/L)	46.43426	1.23
12/14/2021 18:49:31	2112G62-003B	Sb (217.582 nm)	0.84	0.26446 (mg/L)	102.09395	0.84
12/14/2021 18:49:31	2112G62-003B	Se (196.026 nm)	> 100.00	-0.00140 u (mg/L)	7.33234	17.63
12/14/2021 18:49:31	2112G62-003B	Sn (189.925 nm)	68.60	0.00432 (mg/L)	2.30385	27.07
12/14/2021 18:49:31	2112G62-003B	Sr (407.771 nm)	0.85	0.02413 (mg/L)	46873.75527	0.85
12/14/2021 18:49:31	2112G62-003B	Ti (337.280 nm)	0.93	0.06352 (mg/L)	1205.51386	0.91
12/14/2021 18:49:31	2112G62-003B	Tl (351.923 nm)	35.05	-0.00277 u (mg/L)	-8.91351	8.08
12/14/2021 18:49:31	2112G62-003B	V (311.837 nm)	5.04	0.00450 (mg/L)	98.70913	4.74
12/14/2021 18:49:31	2112G62-003B	Zn (206.200 nm)	1.47	0.20034 (mg/L)	130.16304	1.44
12/14/2021 18:52:41	2112G62-003BMS	Ag (328.068 nm)	2.78	0.01060 (mg/L)	242.09147	2.77
12/14/2021 18:52:41	2112G62-003BMS	Al (308.215 nm)	0.36	2.32325 (mg/L)	6460.87507	0.34
12/14/2021 18:52:41	2112G62-003BMS	As (193.696 nm)	6.36	0.10641 (mg/L)	28.35042	5.74
12/14/2021 18:52:41	2112G62-003BMS	B (249.772 nm)	0.61	0.03210 (mg/L)	465.08393	0.53
12/14/2021 18:52:41	2112G62-003BMS	Ba (413.064 nm)	1.17	0.13522 (mg/L)	976.94898	1.10
12/14/2021 18:52:41	2112G62-003BMS	Be (313.042 nm)	0.40	0.10376 (mg/L)	98663.66013	0.40
12/14/2021 18:52:41	2112G62-003BMS	Ca (373.690 nm)	0.41	7.10466 (mg/L)	18762.34995	0.42
12/14/2021 18:52:41	2112G62-003BMS	Cd (228.802 nm)	0.77	0.10062 (mg/L)	826.11964	0.76
12/14/2021 18:52:41	2112G62-003BMS	Co (230.786 nm)	0.33	0.25445 (mg/L)	862.57044	0.33
12/14/2021 18:52:41	2112G62-003BMS	Cr (267.716 nm)	0.24	0.10588 (mg/L)	1556.44023	0.24
12/14/2021 18:52:41	2112G62-003BMS	Cu (327.395 nm)	0.71	0.15510 (mg/L)	2490.69818	0.71
12/14/2021 18:52:41	2112G62-003BMS	Fe (238.204 nm)	0.14	2.64909 (mg/L)	18389.09236	0.14
12/14/2021 18:52:41	2112G62-003BMS	K (766.491 nm)	0.59	3.52484 (mg/L)	4186.41767	0.58
12/14/2021 18:52:41	2112G62-003BMS	Mg (279.800 nm)	0.01	3.29242 (mg/L)	2759.19046	0.01
12/14/2021 18:52:41	2112G62-003BMS	Mn (257.610 nm)	0.34	0.36197 (mg/L)	36720.35189	0.34
12/14/2021 18:52:41	2112G62-003BMS	Mo (204.598 nm)	1.41	0.10048 (mg/L)	98.52618	1.38
12/14/2021 18:52:41	2112G62-003BMS	Na (589.592 nm)	0.25	7.61057 (mg/L)	61473.03204	0.25
12/14/2021 18:52:41	2112G62-003BMS	Ni (221.648 nm)	1.08	0.21973 (mg/L)	146.08500	1.07
12/14/2021 18:52:41	2112G62-003BMS	P (213.618 nm)	0.50	2.70767 (mg/L)	693.69982	0.50
12/14/2021 18:52:41	2112G62-003BMS	Pb (220.353 nm)	3.06	0.10757 (mg/L)	61.86247	3.10
12/14/2021 18:52:41	2112G62-003BMS	S (181.972 nm)	0.69	3.03278 (mg/L)	45.57910	0.67
12/14/2021 18:52:41	2112G62-003BMS	Sb (217.582 nm)	0.95	0.36170 (mg/L)	139.47899	0.95

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 18:52:41	2112G62-003BMS	Se (196.026 nm)	3.51	0.09387 (mg/L)	32.33772	2.67
12/14/2021 18:52:41	2112G62-003BMS	Sn (189.925 nm)	3.89	0.09980 (mg/L)	22.41174	3.65
12/14/2021 18:52:41	2112G62-003BMS	Sr (407.771 nm)	1.02	0.02404 (mg/L)	46691.09289	1.02
12/14/2021 18:52:41	2112G62-003BMS	Ti (337.280 nm)	0.40	0.16632 (mg/L)	3116.85559	0.40
12/14/2021 18:52:41	2112G62-003BMS	Tl (351.923 nm)	6.83	0.09106 (mg/L)	60.62108	7.60
12/14/2021 18:52:41	2112G62-003BMS	V (311.837 nm)	0.26	0.10394 (mg/L)	2149.89284	0.26
12/14/2021 18:52:41	2112G62-003BMS	Zn (206.200 nm)	0.47	0.30316 (mg/L)	195.29038	0.46
12/14/2021 18:55:52	2112G62-003BMSD	Ag (328.068 nm)	4.33	0.01043 (mg/L)	238.21277	4.31
12/14/2021 18:55:52	2112G62-003BMSD	Al (308.215 nm)	0.43	2.33205 (mg/L)	6483.56360	0.40
12/14/2021 18:55:52	2112G62-003BMSD	As (193.696 nm)	7.74	0.09871 (mg/L)	26.49804	6.94
12/14/2021 18:55:52	2112G62-003BMSD	B (249.772 nm)	1.02	0.03199 (mg/L)	463.68707	0.89
12/14/2021 18:55:52	2112G62-003BMSD	Ba (413.064 nm)	0.72	0.13596 (mg/L)	981.94890	0.67
12/14/2021 18:55:52	2112G62-003BMSD	Be (313.042 nm)	0.30	0.10464 (mg/L)	99493.87691	0.30
12/14/2021 18:55:52	2112G62-003BMSD	Ca (373.690 nm)	0.36	7.09484 (mg/L)	18736.31543	0.36
12/14/2021 18:55:52	2112G62-003BMSD	Cd (228.802 nm)	0.59	0.10143 (mg/L)	832.66002	0.58
12/14/2021 18:55:52	2112G62-003BMSD	Co (230.786 nm)	0.42	0.25382 (mg/L)	860.44265	0.42
12/14/2021 18:55:52	2112G62-003BMSD	Cr (267.716 nm)	0.51	0.10628 (mg/L)	1562.16546	0.50
12/14/2021 18:55:52	2112G62-003BMSD	Cu (327.395 nm)	0.81	0.15563 (mg/L)	2499.26134	0.80
12/14/2021 18:55:52	2112G62-003BMSD	Fe (238.204 nm)	0.53	2.67222 (mg/L)	18549.00357	0.53
12/14/2021 18:55:52	2112G62-003BMSD	K (766.491 nm)	0.29	3.54766 (mg/L)	4213.08018	0.29
12/14/2021 18:55:52	2112G62-003BMSD	Mg (279.800 nm)	0.54	3.29567 (mg/L)	2761.91094	0.54
12/14/2021 18:55:52	2112G62-003BMSD	Mn (257.610 nm)	0.44	0.36227 (mg/L)	36750.04574	0.44
12/14/2021 18:55:52	2112G62-003BMSD	Mo (204.598 nm)	2.69	0.09979 (mg/L)	97.86549	2.61
12/14/2021 18:55:52	2112G62-003BMSD	Na (589.592 nm)	0.40	7.61971 (mg/L)	61546.33627	0.40
12/14/2021 18:55:52	2112G62-003BMSD	Ni (221.648 nm)	0.92	0.22114 (mg/L)	147.01467	0.91
12/14/2021 18:55:52	2112G62-003BMSD	P (213.618 nm)	0.27	2.70151 (mg/L)	692.11735	0.27
12/14/2021 18:55:52	2112G62-003BMSD	Pb (220.353 nm)	1.65	0.10699 (mg/L)	61.52510	1.67
12/14/2021 18:55:52	2112G62-003BMSD	S (181.972 nm)	0.17	3.11866 (mg/L)	46.84284	0.17
12/14/2021 18:55:52	2112G62-003BMSD	Sb (217.582 nm)	0.65	0.35781 (mg/L)	137.98160	0.65
12/14/2021 18:55:52	2112G62-003BMSD	Se (196.026 nm)	6.96	0.09402 (mg/L)	32.37820	5.30
12/14/2021 18:55:52	2112G62-003BMSD	Sn (189.925 nm)	5.08	0.10832 (mg/L)	24.20575	4.79
12/14/2021 18:55:52	2112G62-003BMSD	Sr (407.771 nm)	0.81	0.02404 (mg/L)	46689.49552	0.80
12/14/2021 18:55:52	2112G62-003BMSD	Ti (337.280 nm)	0.45	0.16730 (mg/L)	3135.00150	0.45
12/14/2021 18:55:52	2112G62-003BMSD	Tl (351.923 nm)	6.77	0.10010 (mg/L)	67.31774	7.46
12/14/2021 18:55:52	2112G62-003BMSD	V (311.837 nm)	0.27	0.10482 (mg/L)	2168.13301	0.27
12/14/2021 18:55:52	2112G62-003BMSD	Zn (206.200 nm)	0.56	0.30418 (mg/L)	195.93386	0.56
12/14/2021 18:59:03	2112G62-003BPDS	Ag (328.068 nm)	0.10	0.10000 (mg/L)	2278.05065	0.10
12/14/2021 18:59:03	2112G62-003BPDS	Al (308.215 nm)	0.47	10.76061 (mg/L)	28213.02708	0.46
12/14/2021 18:59:03	2112G62-003BPDS	As (193.696 nm)	0.94	1.03517 (mg/L)	251.66027	0.93
12/14/2021 18:59:03	2112G62-003BPDS	B (249.772 nm)	0.48	4.87735 (mg/L)	61539.57546	0.48
12/14/2021 18:59:03	2112G62-003BPDS	Ba (413.064 nm)	0.45	1.02478 (mg/L)	6972.47029	0.45
12/14/2021 18:59:03	2112G62-003BPDS	Be (313.042 nm)	0.21	1.01814 (mg/L)	966786.29941	0.21
12/14/2021 18:59:03	2112G62-003BPDS	Ca (373.690 nm)	0.42	13.14536 (mg/L)	34775.19668	0.42
12/14/2021 18:59:03	2112G62-003BPDS	Cd (228.802 nm)	0.55	0.99624 (mg/L)	8080.10467	0.55
12/14/2021 18:59:03	2112G62-003BPDS	Co (230.786 nm)	0.43	1.09241 (mg/L)	3699.16866	0.43
12/14/2021 18:59:03	2112G62-003BPDS	Cr (267.716 nm)	0.53	1.02084 (mg/L)	14790.67336	0.53
12/14/2021 18:59:03	2112G62-003BPDS	Cu (327.395 nm)	0.66	1.04577 (mg/L)	16734.56696	0.66
12/14/2021 18:59:03	2112G62-003BPDS	Fe (238.204 nm)	0.34	11.41301 (mg/L)	78989.57407	0.34

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 18:59:03	2112G62-003BPDS	K (766.491 nm)	0.37	11.15781 (mg/L)	13102.67426	0.37
12/14/2021 18:59:03	2112G62-003BPDS	Mg (279.800 nm)	0.53	11.18062 (mg/L)	9357.12079	0.53
12/14/2021 18:59:03	2112G62-003BPDS	Mn (257.610 nm)	0.46	1.13825 (mg/L)	115418.52893	0.46
12/14/2021 18:59:03	2112G62-003BPDS	Mo (204.598 nm)	0.27	0.98699 (mg/L)	944.64406	0.27
12/14/2021 18:59:03	2112G62-003BPDS	Na (589.592 nm)	0.32	13.49313 (mg/L)	108661.34283	0.32
12/14/2021 18:59:03	2112G62-003BPDS	Ni (221.648 nm)	0.25	1.06726 (mg/L)	702.17323	0.25
12/14/2021 18:59:03	2112G62-003BPDS	P (213.618 nm)	0.17	11.47522 (mg/L)	2948.63627	0.17
12/14/2021 18:59:03	2112G62-003BPDS	Pb (220.353 nm)	0.75	1.00956 (mg/L)	587.87041	0.76
12/14/2021 18:59:03	2112G62-003BPDS	S (181.972 nm)	1.62	7.23525 (mg/L)	107.41866	1.60
12/14/2021 18:59:03	2112G62-003BPDS	Sb (217.582 nm)	0.93	1.12838 (mg/L)	434.21762	0.93
12/14/2021 18:59:03	2112G62-003BPDS	Se (196.026 nm)	0.05	0.99317 (mg/L)	268.38738	0.04
12/14/2021 18:59:03	2112G62-003BPDS	Sn (189.925 nm)	0.72	0.98585 (mg/L)	208.99795	0.72
12/14/2021 18:59:03	2112G62-003BPDS	Sr (407.771 nm)	0.78	4.59068 (mg/L)	8867199.03848	0.78
12/14/2021 18:59:03	2112G62-003BPDS	Ti (337.280 nm)	0.51	1.02811 (mg/L)	19138.55899	0.50
12/14/2021 18:59:03	2112G62-003BPDS	Tl (351.923 nm)	1.37	0.99985 (mg/L)	734.06291	1.38
12/14/2021 18:59:03	2112G62-003BPDS	V (311.837 nm)	0.49	1.00211 (mg/L)	20677.44408	0.49
12/14/2021 18:59:03	2112G62-003BPDS	Zn (206.200 nm)	0.53	1.22841 (mg/L)	781.33077	0.52
12/14/2021 19:05:00	2112G62-001B	Ag (328.068 nm)	21.92	0.00031 (mg/L)	7.67239	19.97
12/14/2021 19:05:00	2112G62-001B	Al (308.215 nm)	0.42	0.73342 (mg/L)	2362.16611	0.34
12/14/2021 19:05:00	2112G62-001B	As (193.696 nm)	> 100.00	0.00470 u (mg/L)	3.89431	37.10
12/14/2021 19:05:00	2112G62-001B	B (249.772 nm)	0.53	0.03299 (mg/L)	476.26417	0.47
12/14/2021 19:05:00	2112G62-001B	Ba (413.064 nm)	0.93	0.07402 (mg/L)	564.45892	0.82
12/14/2021 19:05:00	2112G62-001B	Be (313.042 nm)	> 100.00	0.00000 u (mg/L)	149.71125	4.25
12/14/2021 19:05:00	2112G62-001B	Ca (373.690 nm)	0.12	8.49214 (mg/L)	22440.31198	0.12
12/14/2021 19:05:00	2112G62-001B	Cd (228.802 nm)	48.96	-0.00027 u (mg/L)	8.95233	11.82
12/14/2021 19:05:00	2112G62-001B	Co (230.786 nm)	0.33	1.02959 (mg/L)	3486.50105	0.33
12/14/2021 19:05:00	2112G62-001B	Cr (267.716 nm)	11.38	0.00096 (mg/L)	38.83547	4.07
12/14/2021 19:05:00	2112G62-001B	Cu (327.395 nm)	0.67	0.06637 (mg/L)	1071.81233	0.67
12/14/2021 19:05:00	2112G62-001B	Fe (238.204 nm)	0.26	0.74047 (mg/L)	5191.41338	0.26
12/14/2021 19:05:00	2112G62-001B	K (766.491 nm)	0.32	3.49784 (mg/L)	4154.88362	0.31
12/14/2021 19:05:00	2112G62-001B	Mg (279.800 nm)	0.32	2.92036 (mg/L)	2447.99101	0.32
12/14/2021 19:05:00	2112G62-001B	Mn (257.610 nm)	0.20	1.60205 (mg/L)	162436.96291	0.20
12/14/2021 19:05:00	2112G62-001B	Mo (204.598 nm)	> 100.00	0.00023 u (mg/L)	2.84527	65.48
12/14/2021 19:05:00	2112G62-001B	Na (589.592 nm)	0.25	5.99903 (mg/L)	48545.69122	0.24
12/14/2021 19:05:00	2112G62-001B	Ni (221.648 nm)	0.78	0.92918 (mg/L)	611.57724	0.77
12/14/2021 19:05:00	2112G62-001B	P (213.618 nm)	0.69	3.08175 (mg/L)	789.91086	0.70
12/14/2021 19:05:00	2112G62-001B	Pb (220.353 nm)	63.72	0.00229 (mg/L)	0.46483	> 100.00
12/14/2021 19:05:00	2112G62-001B	S (181.972 nm)	2.50	3.52650 (mg/L)	52.84433	2.46
12/14/2021 19:05:00	2112G62-001B	Sb (217.582 nm)	0.69	0.40322 (mg/L)	155.43966	0.69
12/14/2021 19:05:00	2112G62-001B	Se (196.026 nm)	> 100.00	-0.00434 u (mg/L)	6.55940	26.81
12/14/2021 19:05:00	2112G62-001B	Sn (189.925 nm)	15.11	0.01563 (mg/L)	4.68670	10.62
12/14/2021 19:05:00	2112G62-001B	Sr (407.771 nm)	0.33	0.03210 (mg/L)	62256.69016	0.32
12/14/2021 19:05:00	2112G62-001B	Ti (337.280 nm)	0.34	0.02254 (mg/L)	443.76756	0.32
12/14/2021 19:05:00	2112G62-001B	Tl (351.923 nm)	> 100.00	0.00058 u (mg/L)	-6.42719	> 100.00
12/14/2021 19:05:00	2112G62-001B	V (311.837 nm)	5.34	0.00231 (mg/L)	53.51256	4.76
12/14/2021 19:05:00	2112G62-001B	Zn (206.200 nm)	1.43	0.29375 (mg/L)	189.32988	1.40
12/14/2021 19:08:10	2112G62-002B	Ag (328.068 nm)	25.23	0.00029 (mg/L)	7.17422	22.84
12/14/2021 19:08:10	2112G62-002B	Al (308.215 nm)	0.45	0.97095 (mg/L)	2974.55178	0.38

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 19:08:10	2112G62-002B	As (193.696 nm)	73.03	0.00655 (mg/L)	4.33919	26.50
12/14/2021 19:08:10	2112G62-002B	B (249.772 nm)	0.34	0.03272 (mg/L)	472.79720	0.30
12/14/2021 19:08:10	2112G62-002B	Ba (413.064 nm)	1.14	0.07614 (mg/L)	578.80104	1.01
12/14/2021 19:08:10	2112G62-002B	Be (313.042 nm)	76.63	0.00001 (mg/L)	156.53843	3.36
12/14/2021 19:08:10	2112G62-002B	Ca (373.690 nm)	0.37	8.51212 (mg/L)	22493.28561	0.37
12/14/2021 19:08:10	2112G62-002B	Cd (228.802 nm)	> 100.00	-0.00040 u (mg/L)	7.85685	70.12
12/14/2021 19:08:10	2112G62-002B	Co (230.786 nm)	1.11	1.05838 (mg/L)	3583.97263	1.11
12/14/2021 19:08:10	2112G62-002B	Cr (267.716 nm)	2.75	0.01346 (mg/L)	219.56368	2.43
12/14/2021 19:08:10	2112G62-002B	Cu (327.395 nm)	0.45	0.07506 (mg/L)	1210.79965	0.45
12/14/2021 19:08:10	2112G62-002B	Fe (238.204 nm)	0.22	1.02193 (mg/L)	7137.63973	0.22
12/14/2021 19:08:10	2112G62-002B	K (766.491 nm)	0.33	3.51104 (mg/L)	4170.29815	0.32
12/14/2021 19:08:10	2112G62-002B	Mg (279.800 nm)	0.33	2.95008 (mg/L)	2472.85303	0.33
12/14/2021 19:08:10	2112G62-002B	Mn (257.610 nm)	0.58	1.60439 (mg/L)	162674.68360	0.58
12/14/2021 19:08:10	2112G62-002B	Mo (204.598 nm)	64.44	0.00081 (mg/L)	3.40017	14.67
12/14/2021 19:08:10	2112G62-002B	Na (589.592 nm)	0.45	5.98092 (mg/L)	48400.39187	0.44
12/14/2021 19:08:10	2112G62-002B	Ni (221.648 nm)	0.34	0.98568 (mg/L)	648.64530	0.34
12/14/2021 19:08:10	2112G62-002B	P (213.618 nm)	0.62	3.11247 (mg/L)	797.81218	0.62
12/14/2021 19:08:10	2112G62-002B	Pb (220.353 nm)	> 100.00	0.00144 u (mg/L)	-0.02905	> 100.00
12/14/2021 19:08:10	2112G62-002B	S (181.972 nm)	1.59	3.52290 (mg/L)	52.79129	1.56
12/14/2021 19:08:10	2112G62-002B	Sb (217.582 nm)	0.92	0.40151 (mg/L)	154.78185	0.91
12/14/2021 19:08:10	2112G62-002B	Se (196.026 nm)	> 100.00	-0.00016 u (mg/L)	7.65613	21.79
12/14/2021 19:08:10	2112G62-002B	Sn (189.925 nm)	28.16	0.01363 (mg/L)	4.26418	18.95
12/14/2021 19:08:10	2112G62-002B	Sr (407.771 nm)	0.65	0.03229 (mg/L)	62624.52722	0.65
12/14/2021 19:08:10	2112G62-002B	Ti (337.280 nm)	0.67	0.03382 (mg/L)	653.35597	0.64
12/14/2021 19:08:10	2112G62-002B	Tl (351.923 nm)	21.47	-0.00983 u (mg/L)	-14.13951	11.06
12/14/2021 19:08:10	2112G62-002B	V (311.837 nm)	3.70	0.00239 (mg/L)	55.10234	3.30
12/14/2021 19:08:10	2112G62-002B	Zn (206.200 nm)	1.20	0.30743 (mg/L)	197.99537	1.18
12/14/2021 19:11:19	2112G62-011B	Ag (328.068 nm)	> 100.00	0.00011 (mg/L)	3.14657	81.77
12/14/2021 19:11:19	2112G62-011B	Al (308.215 nm)	22.44	-0.00996 u (mg/L)	445.68747	1.29
12/14/2021 19:11:19	2112G62-011B	As (193.696 nm)	> 100.00	0.00579 u (mg/L)	4.15747	45.98
12/14/2021 19:11:19	2112G62-011B	B (249.772 nm)	26.30	-0.00124 u (mg/L)	44.80216	9.17
12/14/2021 19:11:19	2112G62-011B	Ba (413.064 nm)	6.27	0.00137 (mg/L)	74.85362	0.78
12/14/2021 19:11:19	2112G62-011B	Be (313.042 nm)	59.92	-0.00001 u (mg/L)	140.95442	3.71
12/14/2021 19:11:19	2112G62-011B	Ca (373.690 nm)	2.55	0.00946 (mg/L)	-45.76992	1.40
12/14/2021 19:11:19	2112G62-011B	Cd (228.802 nm)	> 100.00	-0.00008 u (mg/L)	10.46592	12.61
12/14/2021 19:11:19	2112G62-011B	Co (230.786 nm)	> 100.00	0.00011 u (mg/L)	1.60766	77.38
12/14/2021 19:11:19	2112G62-011B	Cr (267.716 nm)	29.32	-0.00067 u (mg/L)	15.25058	18.64
12/14/2021 19:11:19	2112G62-011B	Cu (327.395 nm)	2.81	-0.00051 u (mg/L)	2.19652	10.44
12/14/2021 19:11:19	2112G62-011B	Fe (238.204 nm)	3.46	0.00163 (mg/L)	82.52467	0.47
12/14/2021 19:11:19	2112G62-011B	K (766.491 nm)	14.19	0.08338 (mg/L)	166.36525	8.31
12/14/2021 19:11:19	2112G62-011B	Mg (279.800 nm)	> 100.00	-0.00122 u (mg/L)	4.29246	31.55
12/14/2021 19:11:19	2112G62-011B	Mn (257.610 nm)	2.34	0.00025 (mg/L)	49.46082	1.21
12/14/2021 19:11:19	2112G62-011B	Mo (204.598 nm)	> 100.00	0.00019 u (mg/L)	2.80439	52.86
12/14/2021 19:11:19	2112G62-011B	Na (589.592 nm)	59.51	-0.00641 u (mg/L)	371.68174	8.23
12/14/2021 19:11:19	2112G62-011B	Ni (221.648 nm)	> 100.00	0.00098 u (mg/L)	2.56118	97.53
12/14/2021 19:11:19	2112G62-011B	P (213.618 nm)	> 100.00	-0.00131 u (mg/L)	-3.02398	20.16
12/14/2021 19:11:19	2112G62-011B	Pb (220.353 nm)	> 100.00	-0.00064 u (mg/L)	-1.24095	> 100.00
12/14/2021 19:11:19	2112G62-011B	S (181.972 nm)	> 100.00	-0.01725 u (mg/L)	0.69780	> 100.00

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 19:11:19	2112G62-011B	Sb (217.582 nm)	> 100.00	-0.00113 u (mg/L)	-0.00670	> 100.00
12/14/2021 19:11:19	2112G62-011B	Se (196.026 nm)	> 100.00	-0.00425 u (mg/L)	6.58479	30.43
12/14/2021 19:11:19	2112G62-011B	Sn (189.925 nm)	90.11	0.00477 (mg/L)	2.39824	37.71
12/14/2021 19:11:19	2112G62-011B	Sr (407.771 nm)	90.37	-0.00001 u (mg/L)	253.52271	3.67
12/14/2021 19:11:19	2112G62-011B	Ti (337.280 nm)	> 100.00	-0.00006 u (mg/L)	23.48899	14.91
12/14/2021 19:11:19	2112G62-011B	Tl (351.923 nm)	54.13	0.00427 (mg/L)	-3.69451	46.34
12/14/2021 19:11:19	2112G62-011B	V (311.837 nm)	> 100.00	0.00008 u (mg/L)	7.54608	65.06
12/14/2021 19:11:19	2112G62-011B	Zn (206.200 nm)	> 100.00	0.00048 u (mg/L)	3.57568	19.59
12/14/2021 19:14:28	2112G62-012B	Ag (328.068 nm)	56.56	0.00012 (mg/L)	3.41444	45.30
12/14/2021 19:14:28	2112G62-012B	Al (308.215 nm)	2.03	-0.03638 u (mg/L)	377.56413	0.50
12/14/2021 19:14:28	2112G62-012B	As (193.696 nm)	> 100.00	0.00408 u (mg/L)	3.74566	62.88
12/14/2021 19:14:28	2112G62-012B	B (249.772 nm)	14.57	-0.00131 u (mg/L)	43.84267	5.51
12/14/2021 19:14:28	2112G62-012B	Ba (413.064 nm)	> 100.00	0.00045 u (mg/L)	68.63398	9.64
12/14/2021 19:14:28	2112G62-012B	Be (313.042 nm)	71.74	-0.00001 u (mg/L)	142.47560	3.63
12/14/2021 19:14:28	2112G62-012B	Ca (373.690 nm)	5.74	0.01786 (mg/L)	-23.49192	11.56
12/14/2021 19:14:28	2112G62-012B	Cd (228.802 nm)	> 100.00	0.00008 u (mg/L)	11.72835	27.41
12/14/2021 19:14:28	2112G62-012B	Co (230.786 nm)	35.82	0.00090 (mg/L)	4.25565	25.54
12/14/2021 19:14:28	2112G62-012B	Cr (267.716 nm)	15.49	-0.00067 u (mg/L)	15.18630	9.95
12/14/2021 19:14:28	2112G62-012B	Cu (327.395 nm)	19.24	-0.00046 u (mg/L)	3.03293	46.40
12/14/2021 19:14:28	2112G62-012B	Fe (238.204 nm)	25.99	0.00140 (mg/L)	80.91898	3.11
12/14/2021 19:14:28	2112G62-012B	K (766.491 nm)	19.64	0.05163 (mg/L)	129.28446	9.16
12/14/2021 19:14:28	2112G62-012B	Mg (279.800 nm)	> 100.00	0.00078 u (mg/L)	5.96180	43.13
12/14/2021 19:14:28	2112G62-012B	Mn (257.610 nm)	11.20	0.00008 (mg/L)	31.96912	2.83
12/14/2021 19:14:28	2112G62-012B	Mo (204.598 nm)	> 100.00	0.00098 u (mg/L)	3.55786	39.43
12/14/2021 19:14:28	2112G62-012B	Na (589.592 nm)	1.14	0.03084 (mg/L)	670.43634	0.42
12/14/2021 19:14:28	2112G62-012B	Ni (221.648 nm)	> 100.00	0.00103 u (mg/L)	2.59543	30.15
12/14/2021 19:14:28	2112G62-012B	P (213.618 nm)	66.43	-0.00749 u (mg/L)	-4.61386	27.73
12/14/2021 19:14:28	2112G62-012B	Pb (220.353 nm)	> 100.00	0.00113 u (mg/L)	-0.21259	> 100.00
12/14/2021 19:14:28	2112G62-012B	S (181.972 nm)	> 100.00	-0.00302 u (mg/L)	0.90716	42.37
12/14/2021 19:14:28	2112G62-012B	Sb (217.582 nm)	> 100.00	0.00339 (mg/L)	1.73163	75.60
12/14/2021 19:14:28	2112G62-012B	Se (196.026 nm)	> 100.00	0.00063 u (mg/L)	7.86421	6.21
12/14/2021 19:14:28	2112G62-012B	Sn (189.925 nm)	> 100.00	-0.00048 u (mg/L)	1.29333	9.95
12/14/2021 19:14:28	2112G62-012B	Sr (407.771 nm)	70.39	0.00001 (mg/L)	279.79579	4.02
12/14/2021 19:14:28	2112G62-012B	Ti (337.280 nm)	> 100.00	-0.00002 u (mg/L)	24.25112	21.44
12/14/2021 19:14:28	2112G62-012B	Tl (351.923 nm)	95.70	0.00387 (mg/L)	-3.99304	68.66
12/14/2021 19:14:28	2112G62-012B	V (311.837 nm)	> 100.00	-0.00009 u (mg/L)	4.07841	63.53
12/14/2021 19:14:28	2112G62-012B	Zn (206.200 nm)	> 100.00	-0.00125 u (mg/L)	2.48331	34.33
12/14/2021 19:17:39	Cont Calib Verif	Ag (328.068 nm)	0.45	0.09844 (mg/L)	2242.39786	0.45
12/14/2021 19:17:39	Cont Calib Verif	Al (308.215 nm)	0.09	9.84586 (mg/L)	25854.73585	0.09
12/14/2021 19:17:39	Cont Calib Verif	As (193.696 nm)	0.72	1.02607 (mg/L)	249.47296	0.71
12/14/2021 19:17:39	Cont Calib Verif	B (249.772 nm)	0.07	0.95279 (mg/L)	12070.37486	0.07
12/14/2021 19:17:39	Cont Calib Verif	Ba (413.064 nm)	0.15	0.99510 (mg/L)	6772.46205	0.15
12/14/2021 19:17:39	Cont Calib Verif	Be (313.042 nm)	0.27	0.99244 (mg/L)	942391.51843	0.27
12/14/2021 19:17:39	Cont Calib Verif	Ca (373.690 nm)	0.22	9.87086 (mg/L)	26095.06618	0.22
12/14/2021 19:17:39	Cont Calib Verif	Cd (228.802 nm)	0.07	0.97972 (mg/L)	7946.35501	0.07
12/14/2021 19:17:39	Cont Calib Verif	Co (230.786 nm)	0.15	0.99694 (mg/L)	3375.99178	0.15
12/14/2021 19:17:39	Cont Calib Verif	Cr (267.716 nm)	0.13	1.00259 (mg/L)	14526.70158	0.12
12/14/2021 19:17:39	Cont Calib Verif	Cu (327.395 nm)	0.31	0.98141 (mg/L)	15705.27578	0.31

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 19:17:39	Cont Calib Verif	Fe (238.204 nm)	0.20	10.37470 (mg/L)	71809.92525	0.20
12/14/2021 19:17:39	Cont Calib Verif	K (766.491 nm)	0.26	9.64916 (mg/L)	11340.37644	0.26
12/14/2021 19:17:39	Cont Calib Verif	Mg (279.800 nm)	0.18	9.88469 (mg/L)	8273.16303	0.18
12/14/2021 19:17:39	Cont Calib Verif	Mn (257.610 nm)	0.06	0.98906 (mg/L)	100293.14952	0.06
12/14/2021 19:17:39	Cont Calib Verif	Mo (204.598 nm)	0.34	0.98691 (mg/L)	944.56852	0.34
12/14/2021 19:17:39	Cont Calib Verif	Na (589.592 nm)	0.17	9.78332 (mg/L)	78902.27496	0.17
12/14/2021 19:17:39	Cont Calib Verif	Ni (221.648 nm)	0.25	0.99552 (mg/L)	655.09919	0.25
12/14/2021 19:17:39	Cont Calib Verif	P (213.618 nm)	0.53	0.98650 (mg/L)	251.03204	0.53
12/14/2021 19:17:39	Cont Calib Verif	Pb (220.353 nm)	0.46	0.98997 (mg/L)	576.44565	0.46
12/14/2021 19:17:39	Cont Calib Verif	S (181.972 nm)	3.09	1.09472 (mg/L)	17.06051	2.91
12/14/2021 19:17:39	Cont Calib Verif	Sb (217.582 nm)	0.20	1.00487 (mg/L)	386.73534	0.20
12/14/2021 19:17:39	Cont Calib Verif	Se (196.026 nm)	0.20	1.00887 (mg/L)	272.51031	0.19
12/14/2021 19:17:39	Cont Calib Verif	Sn (189.925 nm)	1.08	0.98986 (mg/L)	209.84184	1.07
12/14/2021 19:17:39	Cont Calib Verif	Sr (407.771 nm)	0.38	0.93980 (mg/L)	1815487.52201	0.38
12/14/2021 19:17:39	Cont Calib Verif	Ti (337.280 nm)	0.18	0.99336 (mg/L)	18492.45176	0.18
12/14/2021 19:17:39	Cont Calib Verif	Tl (351.923 nm)	0.83	0.99639 (mg/L)	731.49566	0.84
12/14/2021 19:17:39	Cont Calib Verif	V (311.837 nm)	0.14	0.97871 (mg/L)	20194.81441	0.14
12/14/2021 19:17:39	Cont Calib Verif	Zn (206.200 nm)	0.71	1.00081 (mg/L)	637.17527	0.71
12/14/2021 19:20:51	Cont Calib Blank	Ag (328.068 nm)	75.08	0.00023 (mg/L)	5.98873	66.56
12/14/2021 19:20:51	Cont Calib Blank	Al (308.215 nm)	3.38	-0.04415 u (mg/L)	357.54344	1.08
12/14/2021 19:20:51	Cont Calib Blank	As (193.696 nm)	21.52	0.01027 (mg/L)	5.23372	10.15
12/14/2021 19:20:51	Cont Calib Blank	B (249.772 nm)	87.04	-0.00021 u (mg/L)	57.76848	3.99
12/14/2021 19:20:51	Cont Calib Blank	Ba (413.064 nm)	24.33	0.00153 (mg/L)	75.87954	3.30
12/14/2021 19:20:51	Cont Calib Blank	Be (313.042 nm)	> 100.00	0.00001 u (mg/L)	156.70855	4.82
12/14/2021 19:20:51	Cont Calib Blank	Ca (373.690 nm)	40.47	-0.00477 u (mg/L)	-83.48179	6.13
12/14/2021 19:20:51	Cont Calib Blank	Cd (228.802 nm)	> 100.00	0.00006 u (mg/L)	11.59040	10.29
12/14/2021 19:20:51	Cont Calib Blank	Co (230.786 nm)	> 100.00	-0.00017 u (mg/L)	0.64849	> 100.00
12/14/2021 19:20:51	Cont Calib Blank	Cr (267.716 nm)	24.78	-0.00089 u (mg/L)	12.13514	26.15
12/14/2021 19:20:51	Cont Calib Blank	Cu (327.395 nm)	78.90	-0.00024 u (mg/L)	6.46868	47.31
12/14/2021 19:20:51	Cont Calib Blank	Fe (238.204 nm)	3.62	-0.00463 u (mg/L)	39.22177	2.95
12/14/2021 19:20:51	Cont Calib Blank	K (766.491 nm)	73.42	0.02843 (mg/L)	102.18809	23.86
12/14/2021 19:20:51	Cont Calib Blank	Mg (279.800 nm)	> 100.00	0.00015 u (mg/L)	5.43814	39.38
12/14/2021 19:20:51	Cont Calib Blank	Mn (257.610 nm)	53.38	0.00006 (mg/L)	30.03595	10.94
12/14/2021 19:20:51	Cont Calib Blank	Mo (204.598 nm)	> 100.00	-0.00067 u (mg/L)	1.98474	49.94
12/14/2021 19:20:51	Cont Calib Blank	Na (589.592 nm)	> 100.00	0.00026 u (mg/L)	425.14508	2.05
12/14/2021 19:20:51	Cont Calib Blank	Ni (221.648 nm)	> 100.00	0.00022 u (mg/L)	2.06491	39.68
12/14/2021 19:20:51	Cont Calib Blank	P (213.618 nm)	> 100.00	0.00131 u (mg/L)	-2.35153	37.08
12/14/2021 19:20:51	Cont Calib Blank	Pb (220.353 nm)	> 100.00	-0.00022 u (mg/L)	-0.99717	> 100.00
12/14/2021 19:20:51	Cont Calib Blank	S (181.972 nm)	> 100.00	-0.03041 u (mg/L)	0.50416	> 100.00
12/14/2021 19:20:51	Cont Calib Blank	Sb (217.582 nm)	66.96	0.00263 (mg/L)	1.44006	47.07
12/14/2021 19:20:51	Cont Calib Blank	Se (196.026 nm)	76.27	0.00551 (mg/L)	9.14435	12.05
12/14/2021 19:20:51	Cont Calib Blank	Sn (189.925 nm)	> 100.00	0.00462 u (mg/L)	2.36776	55.00
12/14/2021 19:20:51	Cont Calib Blank	Sr (407.771 nm)	25.59	0.00002 (mg/L)	294.85020	2.69
12/14/2021 19:20:51	Cont Calib Blank	Ti (337.280 nm)	> 100.00	0.00006 u (mg/L)	25.84654	27.17
12/14/2021 19:20:51	Cont Calib Blank	Tl (351.923 nm)	> 100.00	-0.00228 u (mg/L)	-8.55086	74.44
12/14/2021 19:20:51	Cont Calib Blank	V (311.837 nm)	90.88	-0.00004 u (mg/L)	5.05490	14.16
12/14/2021 19:20:51	Cont Calib Blank	Zn (206.200 nm)	12.38	-0.00074 u (mg/L)	2.80598	2.06
12/14/2021 19:30:11	CRA-326673	Ag (328.068 nm)	> 100.00	-0.00006 u (mg/L)	-0.65964	> 100.00

Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **12/14/2021 9:51:00**
Prep End Date: **12/15/2021 9:50:00**

Prep Batch **327278** Prep Code: **7473_S_P** Technician: **Galina Ruth**

Prep Factor Units: **mL / g**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2112A77-001A	Solid		0.1082	0	0	0.1082	1.000	12/14/2021	12/15/2021
2112C96-006D	Soil		0.1125	0	0	0.1125	1.000	12/14/2021	12/15/2021
2112C96-007D	Soil		0.1143	0	0	0.1143	1.000	12/14/2021	12/15/2021
2112C96-008D	Soil		0.1104	0	0	0.1104	1.000	12/14/2021	12/15/2021
2112C96-009D	Soil		0.1089	0	0	0.1089	1.000	12/14/2021	12/15/2021
2112C96-010D	Soil		0.1118	0	0	0.1118	1.000	12/14/2021	12/15/2021
2112C96-011D	Soil		0.106	0	0	0.106	1.000	12/14/2021	12/15/2021
2112C96-012D	Soil		0.1087	0	0	0.1087	1.000	12/14/2021	12/15/2021
2112C96-013D	Soil		0.1113	0	0	0.1113	1.000	12/14/2021	12/15/2021
2112E54-009C	Soil		0.1054	0	0	0.1054	1.000	12/14/2021	12/15/2021
2112E54-010C	Soil		0.1129	0	0	0.1129	1.000	12/14/2021	12/15/2021
2112G62-004E	Soil		0.1199	0	0	0.1	0.834	12/14/2021	12/15/2021
2112G62-005E	Soil		0.1057	0	0	0.1	0.946	12/14/2021	12/15/2021
2112G62-006F	Soil		0.1086	0	0	0.1	0.921	12/14/2021	12/15/2021
2112G62-006FMS	Soil		0.1064	0	0	0.1064	1.000	12/14/2021	12/15/2021
2112G62-006FMSD	Soil		0.1064	0	0	0.1064	1.000	12/14/2021	12/15/2021
2112G62-007D	Soil		0.1205	0	0	0.1	0.830	12/14/2021	12/15/2021
2112G62-008E	Soil		0.1252	0	0	0.1	0.799	12/14/2021	12/15/2021
2112G62-009C	Soil		0.1044	0	0	0.1	0.958	12/14/2021	12/15/2021
2112G62-010B	Soil		0.113	0	0	0.1	0.885	12/14/2021	12/15/2021
2112H10-011B	Soil		0.117	0	0	0.117	1.000	12/14/2021	12/15/2021
2112H10-012B	Soil		0.1148	0	0	0.1148	1.000	12/14/2021	12/15/2021

Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **12/14/2021 9:51:00**
Prep End Date: **12/15/2021 9:50:00**

Prep Batch **327278** Prep Code: **7473_S_P** Technician: **Galina Ruth**

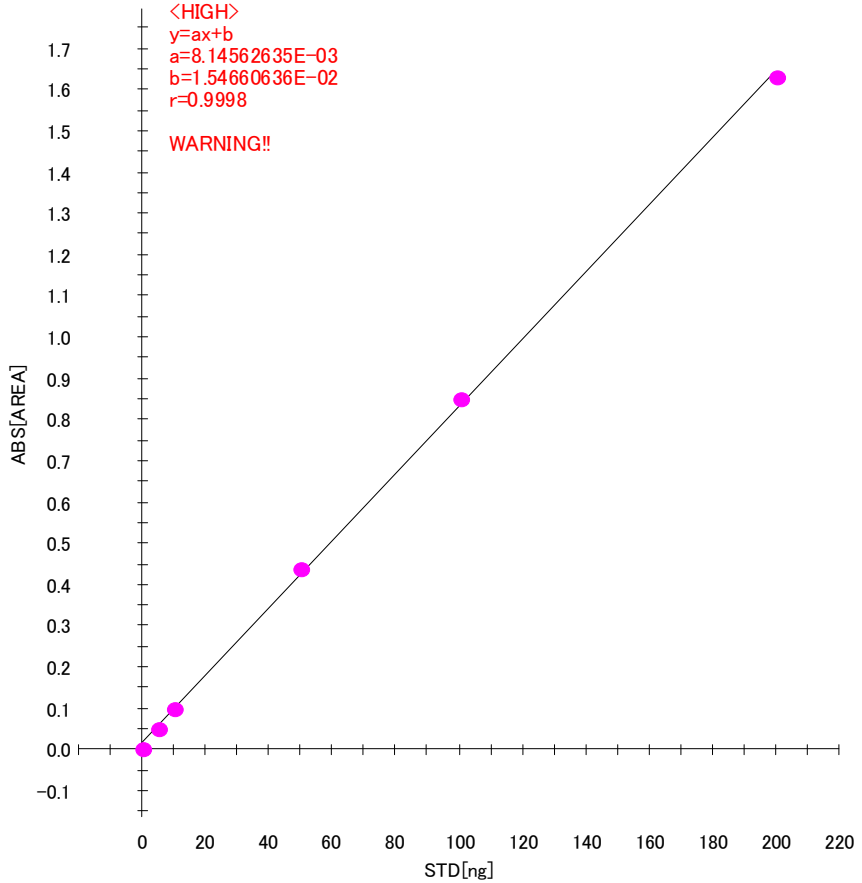
Prep Factor Units: **mL / g**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
LCS-327278			0.1	0	0	0.1	1.000	12/14/2021	12/15/2021
MB-327278			0.1	0	0	0.1	1.000	12/14/2021	12/15/2021

Title :
Date : 12/14/2021
Name :

Flow[L/min]:0.2

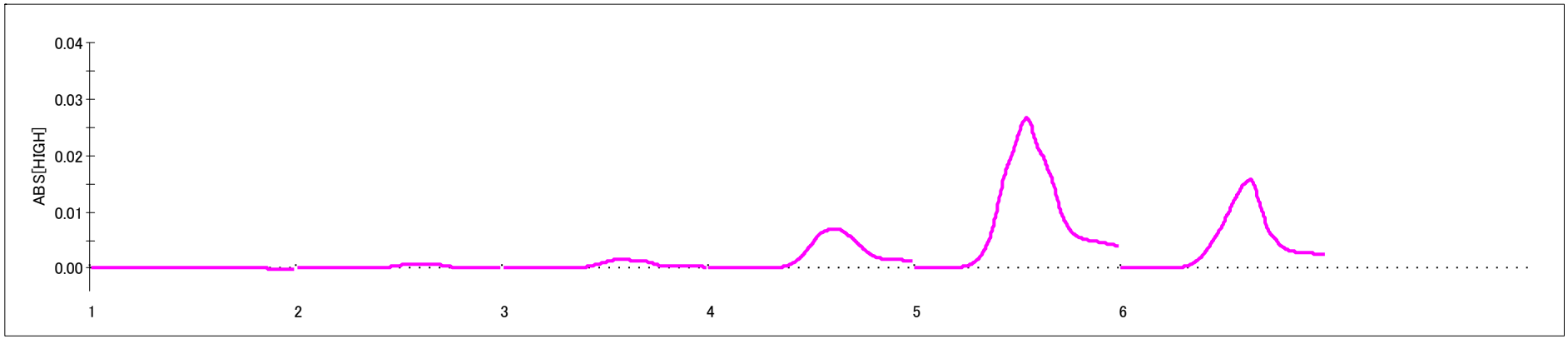
Calib



NIPPON INSTRUMENTS CORPORATION

STD(HIGH)

No.	STD [ng]	AREA [OFF]	MEAS [ng]	DEV [%]	DATE	REMARKS
1	0.000	0.00146	-1.719	-	11/15/2021 14:50	
2	5.000	0.04864	4.073	18.5	11/15/2021 14:56	
3	10.000	0.09845	10.188	1.9	11/15/2021 15:03	
4	50.000	0.43724	51.779	3.6	11/15/2021 15:13	
5	200.000	1.63203	198.458	0.8	11/15/2021 15:26	
6	100.000	0.84813	102.222	2.2	11/15/2021 15:38	



SMP

No.	Mtd No.	NAME	SVOL [mg]	AREA [OFF]	MEAS [ng]	CONC [mg/kg]	RANGE	DATE	REMARKS
1	No.0	ICB	100.000	0.56567	***		LOW	12/14/2021 09:21	
2	No.0	ICV	100.000	0.46027	54.606	0.5461	HIGH	12/14/2021 09:27	
3	No.0	DAILY CAL LOW	100.000	0.10333	10.787	0.1079	HIGH	12/14/2021 09:34	
4	No.0	DAILY CAL HIGH	100.000	0.89767	108.304	1.0830	HIGH	12/14/2021 09:40	
5	No.2	MB-327278	100.000	0.00539	-1.237	-0.0124	HIGH	12/14/2021 09:51	
6	No.2	LCS-327278	100.000	0.86326	104.080	1.0408	HIGH	12/14/2021 09:59	

No.	Mtd No.	NAME	SVOL [mg]	AREA [OFF]	MEAS [ng]	CONC [mg/kg]	RANGE	DATE	REMARKS
7	No.2	2112E54-009C	105.400	0.06855	6.517	0.0618	HIGH	12/14/2021 10:49	
8	No.2	2112E54-010C	112.900	0.05531	4.891	0.0433	HIGH	12/14/2021 10:57	
9	No.2	2112C96-006D	112.500	0.03080	1.882	0.0167	HIGH	12/14/2021 11:05	
10	No.2	2112C96-007D	114.300	0.00313	-1.514	-0.0132	HIGH	12/14/2021 11:13	
11	No.2	2112C96-008D	110.400	0.00715	-1.021	-0.0092	HIGH	12/14/2021 11:21	
12	No.2	2112C96-009D	108.900	0.00179	-1.679	-0.0154	HIGH	12/14/2021 11:30	
13	No.2	2112C96-010D	111.900	0.03918	2.911	0.0260	HIGH	12/14/2021 11:38	
14	No.0	CCB	100.000	0.00533	-1.244	-0.0124	HIGH	12/14/2021 11:44	
15	No.0	CCV	100.000	0.46491	55.176	0.5518	HIGH	12/14/2021 11:51	
16	No.2	2112C96-011D	106.000	0.00620	-1.138	-0.0107	HIGH	12/14/2021 13:18	
17	No.2	2112C96-012D	108.700	0.05234	4.527	0.0416	HIGH	12/14/2021 13:26	
18	No.2	2112C96-013D	111.300	0.00920	-0.769	-0.0069	HIGH	12/14/2021 13:34	
19	No.2	2112G62-004E	119.900	0.04558	3.697	0.0308	HIGH	12/14/2021 13:42	
20	No.2	2112G62-005E	105.700	0.04341	3.431	0.0325	HIGH	12/14/2021 13:50	
21	No.2	2112G62-006F	108.600	0.05395	4.724	0.0435	HIGH	12/14/2021 13:58	
22	No.2	2112G62-007D	120.500	0.01213	-0.410	-0.0034	HIGH	12/14/2021 14:06	
23	No.2	2112G62-008E	125.200	0.08016	7.942	0.0634	HIGH	12/14/2021 14:14	
24	No.2	2112G62-009C	104.400	0.04737	3.917	0.0375	HIGH	12/14/2021 14:22	
25	No.2	2112G62-010B	113.000	0.00476	-1.314	-0.0116	HIGH	12/14/2021 14:30	
26	No.0	CCB	100.000	0.00358	-1.459	-0.0146	HIGH	12/14/2021 14:47	
27	No.0	CCV	100.000	0.38214	45.015	0.4502	HIGH	12/14/2021 15:42	
28	No.2	2112A77-001A	108.200	0.52648	62.735	0.5798	HIGH	12/14/2021 15:51	
29	No.2	2112H10-011B	117.000	0.00807	-0.908	-0.0078	HIGH	12/14/2021 16:00	
30	No.2	2112H10-012B	114.800	0.00856	-0.848	-0.0074	HIGH	12/14/2021 16:08	
31	No.2	2112G62-006FMS	106.400	0.89748	108.281	1.0177	HIGH	12/14/2021 16:17	
32	No.2	2112G62-006FMSD	106.400	0.99449	120.190	1.1296	HIGH	12/14/2021 16:26	
33	No.0	CCV	100.000	0.44516	52.751	0.5275	HIGH	12/14/2021 16:33	
34	No.0	CCB	100.000	0.00463	-1.330	-0.0133	HIGH	12/14/2021 16:40	

Statistics(SAMPLE)

No.	NAME	TRY	AV [mg/kg]	SD [mg/kg]	CV [%]
1	CCB	3	-0.01343	0.0011060	8.24
2	CCV	3	0.50983	0.0530540	10.41

<<Method No.0: STD>>
ATOMIZE-1 150degC/ 60sec/ 0.4L/min
ATOMIZE-2 0degC/ 0sec/ 0L/min
ATOMIZE-3 800degC/ 120sec/ 0.4L/min
ATOMIZE-4 0degC/ 0sec/ 0L/min

<<Method No.2: SOIL&SLUDGE>>
ATOMIZE-1 150degC/ 60sec/ 0.4L/min
ATOMIZE-2 180degC/ 120sec/ 0.4L/min
ATOMIZE-3 600degC/ 120sec/ 0.4L/min
ATOMIZE-4 0degC/ 0sec/ 0L/min

Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **12/14/2021 12:05:0**
Prep End Date: **12/15/2021 12:04:0**

Prep Batch **327304** Prep Code: **3050B_S** Technician: **Bellalina Rodrigue**

Prep Factor Units: **mL / g**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2112G62-004D	Soil		1.4256	0	0	50	35.073	12/14/2021	12/15/2021
2112G62-005D	Soil		1.4562	0	0	50	34.336	12/14/2021	12/15/2021
2112G62-006E	Soil		1.4427	0	0	50	34.657	12/14/2021	12/15/2021
2112G62-006EMS	Soil		1.4426	0	0	50	34.660	12/14/2021	12/15/2021
2112G62-006EMSD	Soil		1.4418	0	0	50	34.679	12/14/2021	12/15/2021
2112G62-006EPDS	Soil		1.4427	0	0	50	34.657	12/14/2021	12/15/2021
2112G62-007C	Soil		1.4553	0	0	50	34.357	12/14/2021	12/15/2021
2112G62-008D	Soil		1.3263	0	0	50	37.699	12/14/2021	12/15/2021
2112G62-009B	Soil		1.3919	0	0	50	35.922	12/14/2021	12/15/2021
2112G62-010A	Soil		1.4219	0	0	50	35.164	12/14/2021	12/15/2021
LCS-327304			1	0	0	50	50.000	12/14/2021	12/15/2021
MB-327304			1	0	0	50	50.000	12/14/2021	12/15/2021

211214A.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Calibration Correlation Coefficient Limit: 0.998

Pump Speed (rpm): 12

Sample introduction: ASX-520

Sample Uptake Time (s): 35

Sample uptake fast pump: On

SVS 1 delay (s): N/A

Rinse time (s): 30

Rinse time fast pump: On

Oxygen Injection Mode: Off

Standard addition: Off

Reagent Blank: Off

QC Active: On

Reslope: Off
Condition Set 1

Element	Wavelength(nm)	Label	Type	Background Correction	Points Per Peak	Calibration Fit
Ag	328.068	Ag	Analyte	Fitted	2	Linear Through Blank
Al	308.215	Al	Analyte	Fitted	2	Weighted Linear Through Blank
As	193.696	As	Analyte	Fitted	2	Linear Weighted
Ba	413.064	Ba	Analyte	Fitted	2	Linear Through Blank
Be	313.042	Be	Analyte	Fitted	2	Linear Through Blank
Ca	373.690	Ca	Analyte	Off-Peak Left+Right	2	Weighted Linear Through Blank
Cd	228.802	Cd	Analyte	Fitted	2	Weighted Linear Through Blank
Co	230.786	Co	Analyte	Fitted	2	Linear Through Blank
Cr	267.716	Cr	Analyte	Fitted	2	Linear Weighted
Cu	327.395	Cu	Analyte	Fitted	2	Linear Through Blank
Fe	238.204	Fe	Analyte	Off-Peak Right	2	Linear Weighted
K	766.491	K	Analyte	Fitted	2	Weighted Linear Through Blank
Mg	279.800	Mg	Analyte	Fitted	2	Weighted Linear Through Blank
Mn	257.610	Mn	Analyte	Fitted	2	Linear Through Blank
Mo	204.598	Mo	Analyte	Fitted	2	Weighted Linear Through Blank
Na	589.592	Na	Analyte	Fitted	2	Linear Through Blank
Ni	221.648	Ni	Analyte	Fitted	2	Weighted Linear Through Blank
Pb	220.353	Pb	Analyte	Off-Peak Left+Right	2	Weighted Linear Through Blank
Sb	217.582	Sb	Analyte	Fitted	2	Weighted Linear Through Blank
Se	196.026	Se	Analyte	Off-Peak Left	2	Linear Through Blank
Sn	189.925	Sn	Analyte	Fitted	2	Linear Through Blank
Ti	337.280	Ti	Analyte	Fitted	2	Linear Through Blank
Tl	351.923	Tl	Analyte	Off-Peak Left	2	Linear Weighted

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Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Element	Wavelength(nm)	Label	Type	Background Correction	Points Per Peak	Calibration Fit
V	311.837	V	Analyte	Fitted	2	Linear Through Blank
Zn	206.200	Zn	Analyte	Fitted	2	Weighted Linear Through Blank
B	249.772	B	Analyte	Fitted	2	Weighted Linear Through Blank
Sr	407.771	Sr	Analyte	Fitted	2	Weighted Linear Through Blank
S	181.972	S	Analyte	Off-Peak Right	2	Weighted Linear Through Blank
P	213.618	P	Analyte	Off-Peak Left+Right	2	Weighted Linear Through Blank

Read time (s): 30

RF power (kW): 1.2

Stabilization time (s): 20

Viewing mode: SVDV

Viewing height (mm): 8

Nebulizer flow(L/min): 0.75

Plasma flow(L/min): 12

Aux flow(L/min): 1

Make up flow(L/min): 0

Oxygen %: 0

Calibration parameters:

Label (Wavelength nm)	Minimum Concentration	Maximum Concentration	Calibration Error
Ag (328.068)	0 mg/L	5 mg/L	20 %
Al (308.215)	0 mg/L	500 mg/L	20 %
As (193.696)	0 mg/L	50 mg/L	20 %
Ba (413.064)	0 mg/L	50 mg/L	20 %
Be (313.042)	0 mg/L	10 mg/L	20 %
Ca (373.690)	0 mg/L	100 mg/L	20 %
Cd (228.802)	0 mg/L	20 mg/L	20 %
Co (230.786)	0 mg/L	50 mg/L	20 %
Cr (267.716)	0 mg/L	50 mg/L	20 %
Cu (327.395)	0 mg/L	50 mg/L	20 %
Fe (238.204)	0 mg/L	100 mg/L	20 %
K (766.491)	0 mg/L	200 mg/L	20 %
Mg (279.800)	0 mg/L	100 mg/L	20 %
Mn (257.610)	0 mg/L	20 mg/L	20 %
Mo (204.598)	0 mg/L	100 mg/L	20 %
Na (589.592)	0 mg/L	200 mg/L	20 %
Ni (221.648)	0 mg/L	50 mg/L	20 %

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Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Label (Wavelength nm)	Minimum Concentration	Maximum Concentration	Calibration Error
Pb (220.353)	0 mg/L	50 mg/L	20 %
Sb (217.582)	0 mg/L	100 mg/L	20 %
Se (196.026)	0 mg/L	50 mg/L	20 %
Sn (189.925)	0 mg/L	100 mg/L	20 %
Ti (337.280)	0 mg/L	50 mg/L	20 %
Tl (351.923)	0 mg/L	50 mg/L	20 %
V (311.837)	0 mg/L	50 mg/L	20 %
Zn (206.200)	0 mg/L	50 mg/L	20 %
B (249.772)	0 mg/L	50 mg/L	20 %
Sr (407.771)	0 mg/L	50 mg/L	20 %
S (181.972)	0 mg/L	50 mg/L	50 %
P (213.618)	0 mg/L	50 mg/L	20 %

211214A.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Sequence table:

Rack:Tube	Sample Label	Weight (g)	Volume (mL)	Dilution
4:1	Blank	1.0	1.0	1.0
4:2	ICAL 1	1.0	1.0	1.0
4:3	ICAL 2	1.0	1.0	1.0
4:4	ICAL 3	1.0	1.0	1.0
4:4	Lab Control Sample	1.0	1.0	1.0
4:5	Initial Calib Verif	1.0	1.0	1.0
4:1	Initial Calib Blank	1.0	1.0	1.0
4:2	CRI	1.0	1.0	1.0
4:6	Interf Check A	1.0	1.0	1.0
4:7	Interf Check AB	1.0	1.0	1.0
4:2	CRI	1.0	1.0	1.0
1:1	CRI-2	1.0	1.0	1.0
1:2	CRI-5	1.0	1.0	1.0
1:3	CRI-MIDLEVEL	1.0	1.0	1.0
1:4	LCR 1	1.0	1.0	1.0
1:5	LCR 2	1.0	1.0	1.0
1:6	LCR 3	1.0	1.0	1.0
1:7	LCR-Pb-Inhouse	1.0	1.0	1.0
1:8	MB-327304	1.0	1.0	1.0
1:9	LCS-327304	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
1:10	2112G62-006E	1.0	1.0	1.0
1:11	2112G62-006EMS	1.0	1.0	1.0
1:12	2112G62-006EMSD	1.0	1.0	1.0
1:13	2112G62-006EPDS	1.0	1.0	1.0
1:14	2112G62-004D	1.0	1.0	1.0
1:15	2112G62-005D	1.0	1.0	1.0
1:16	2112G62-007C	1.0	1.0	1.0
1:17	2112G62-008D	1.0	1.0	1.0
1:18	2112G62-009B	1.0	1.0	1.0
1:19	2112G62-010A	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
1:20	2112G62-006E/20x	1.0	1.0	1.0
1:21	2112G62-006EMS/20x	1.0	1.0	1.0
1:22	2112G62-006EMSD/20x	1.0	1.0	1.0
1:23	2112G62-006EPDS/40x	1.0	1.0	1.0
1:24	2112G62-004D/20x	1.0	1.0	1.0
1:25	2112G62-005D/20x	1.0	1.0	1.0
1:26	2112G62-007C/20x	1.0	1.0	1.0
1:27	2112G62-008D/20x	1.0	1.0	1.0
1:28	2112G62-009B/20x	1.0	1.0	1.0
1:29	2112G62-010A/20x	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0

211214A.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Rack:Tube	Sample Label	Weight (g)	Volume (mL)	Dilution
4:1	Cont Calib Blank	1.0	1.0	1.0
1:30	MB-327295	1.0	1.0	1.0
1:31	LCS-327295	1.0	1.0	1.0
1:32	2112G62-003B	1.0	1.0	1.0
1:33	2112G62-003BMS	1.0	1.0	1.0
1:34	2112G62-003BMSD	1.0	1.0	1.0
1:35	2112G62-003BPDS	1.0	1.0	1.0
1:36	2112G62-001B	1.0	1.0	1.0
1:37	2112G62-002B	1.0	1.0	1.0
1:38	2112G62-011B	1.0	1.0	1.0
1:39	2112G62-012B	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
1:40	CRA-326673	1.0	1.0	1.0
1:41	MB-326673	1.0	1.0	1.0
1:42	RB-326673	1.0	1.0	1.0
1:43	LCS-326673	1.0	1.0	1.0
1:44	LCSD-326673	1.0	1.0	1.0
1:45	2111U58-021A	1.0	1.0	1.0
1:46	2111U58-022A	1.0	1.0	1.0
1:47	2111U58-023A	1.0	1.0	1.0
1:48	2111U58-024A	1.0	1.0	1.0
1:49	2111U58-025A	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
1:50	2111U59-021A	1.0	1.0	1.0
1:51	2111U59-022A	1.0	1.0	1.0
1:52	2111U59-023A	1.0	1.0	1.0
1:53	2111U59-024A	1.0	1.0	1.0
1:54	2111U59-025A	1.0	1.0	1.0
1:55	2111U60-021A	1.0	1.0	1.0
1:56	2111U60-022A	1.0	1.0	1.0
1:57	2111U60-023A	1.0	1.0	1.0
1:58	2111U60-024A	1.0	1.0	1.0
1:59	2111U60-025A	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
1:60	CRA-326670	1.0	1.0	1.0
2:1	MB-326670	1.0	1.0	1.0
2:2	RB-326670	1.0	1.0	1.0
2:3	LCS-326670	1.0	1.0	1.0
2:4	LCSD-326670	1.0	1.0	1.0
2:5	2111U58-001A	1.0	1.0	1.0
2:6	2111U58-002A	1.0	1.0	1.0
2:7	2111U58-003A	1.0	1.0	1.0
2:8	2111U58-004A	1.0	1.0	1.0
2:9	2111U58-005A	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0

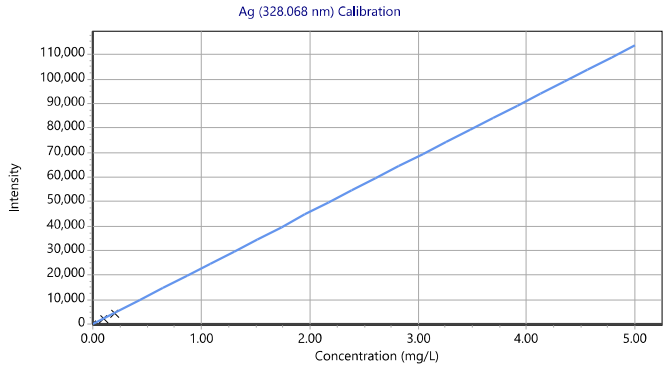
211214A.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Rack:Tube	Sample Label	Weight (g)	Volume (mL)	Dilution
4:1	Cont Calib Blank	1.0	1.0	1.0
2:10	2111U58-006A	1.0	1.0	1.0
2:11	2111U58-007A	1.0	1.0	1.0
2:12	2111U58-008A	1.0	1.0	1.0
2:13	2111U58-009A	1.0	1.0	1.0
4:3	CCV	1.0	1.0	1.0
4:1	CCB	1.0	1.0	1.0
2:14	2111U58-010A	1.0	1.0	1.0
2:15	2111U58-011A	1.0	1.0	1.0
2:16	2111U58-012A	1.0	1.0	1.0
2:17	2111U58-013A	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
2:18	2111U58-014A	1.0	1.0	1.0
2:19	2111U58-015A	1.0	1.0	1.0
2:20	2111U58-016A	1.0	1.0	1.0
2:21	2111U58-017A	1.0	1.0	1.0
2:22	2111U58-018A	1.0	1.0	1.0
2:23	2111U58-019A	1.0	1.0	1.0
2:24	2111U58-020A	1.0	1.0	1.0
4:6	Interf Check A	1.0	1.0	1.0
4:7	Interf Check AB	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0

Calibration Curves:



Ag (328.068 nm)
Intensity = 22772.97345927 * Concentration + 0.67952638
Correlation coefficient: 0.99994

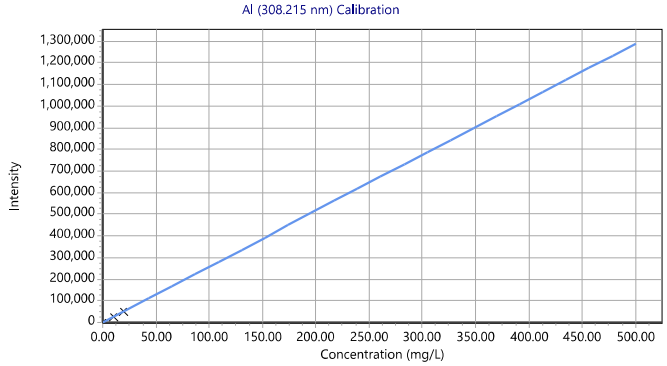
Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	0.67953	0.00000	0.00000	N/A
ICAL 1	112.77511	0.00500	0.00492	1.55384

211214A.esws

Instrument used: MY1500001

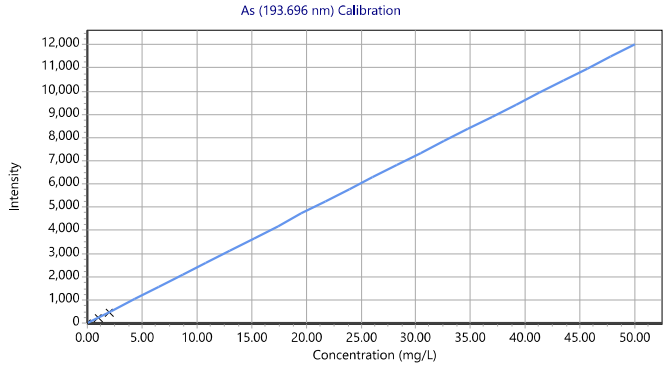
Instrument Name: OES-2
Methods: 200.7 and 6010D

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
ICAL 2	2238.92974	0.10000	0.09829	1.71463
ICAL 3	4574.84202	0.20000	0.20086	0.42963



Al (308.215 nm)
Intensity = 2578.07443975 * Concentration + 471.36335401
Correlation coefficient: 0.99987

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	471.36335	0.00000	0.00000	N/A
ICAL 1	984.44773	0.20000	0.19902	0.49077
ICAL 2	25684.95445	10.00000	9.78001	2.19991
ICAL 3	52499.07981	20.00000	20.18084	0.90422



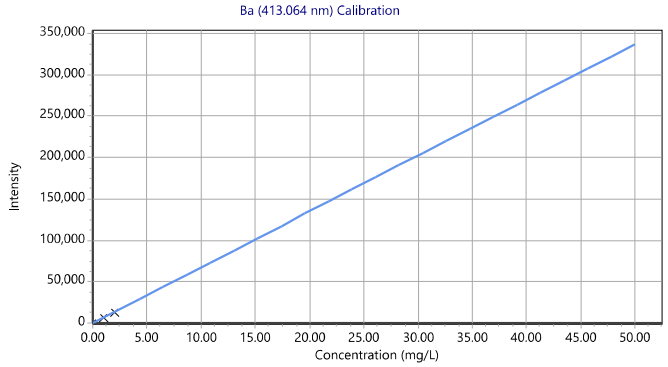
As (193.696 nm)
Intensity = 240.44021592 * Concentration + 2.76430953
Correlation coefficient: 0.99998

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.76487	0.00000	0.00416	N/A
ICAL 1	15.83923	0.05000	0.05438	8.75816
ICAL 2	241.90807	1.00000	0.99461	0.53920
ICAL 3	485.30576	2.00000	2.00691	0.34541

211214A.esws

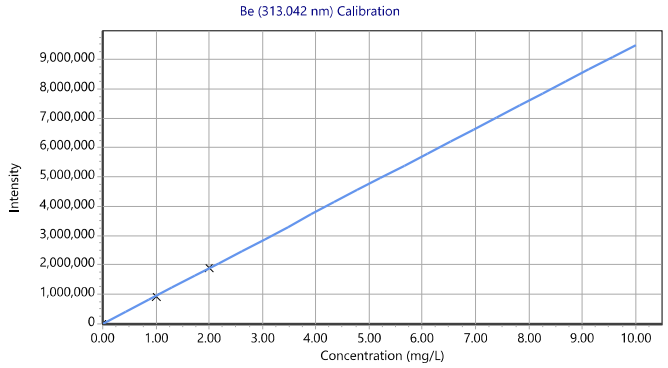
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Ba (413.064 nm)
Intensity = 6739.86962061 * Concentration + 65.60069582
Correlation coefficient: 0.99997

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	65.60070	0.00000	0.00000	N/A
ICAL 1	127.34148	0.01000	0.00916	8.39470
ICAL 2	6721.49730	1.00000	0.98754	1.24591
ICAL 3	13587.35474	2.00000	2.00623	0.31169



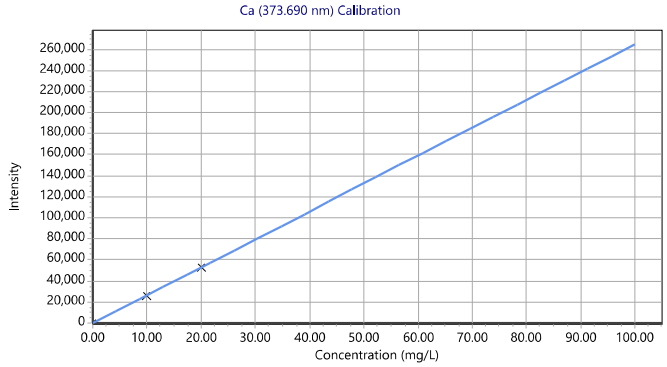
Be (313.042 nm)
Intensity = 949415.01767316 * Concentration + 149.68087125
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	149.68087	0.00000	0.00000	N/A
ICAL 1	4947.54619	0.00500	0.00505	1.06993
ICAL 2	942223.64825	1.00000	0.99227	0.77322
ICAL 3	1902650.11439	2.00000	2.00387	0.19330

211214A.esws

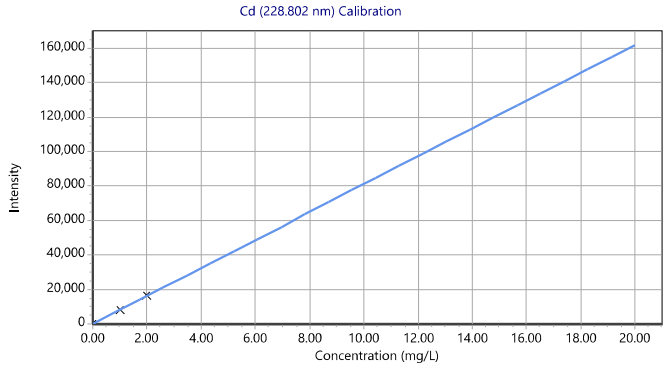
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Ca (373.690 nm)
Intensity = 2650.82291088 * Concentration - 70.83625836
Correlation coefficient: 0.99997

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-70.83626	0.00000	0.00000	N/A
ICAL 1	214.66495	0.10000	0.10770	7.70286
ICAL 2	26119.41496	10.00000	9.88005	1.19954
ICAL 3	53064.50225	20.00000	20.04485	0.22423



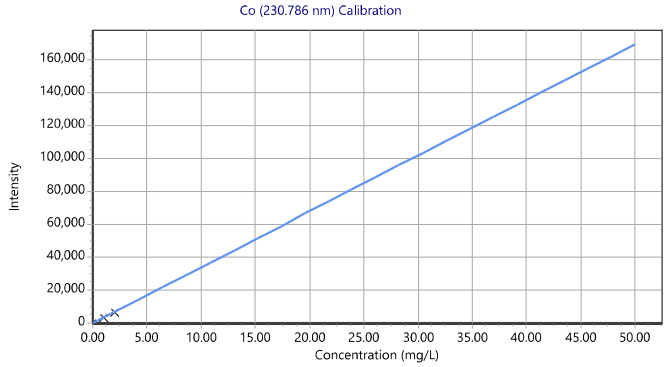
Cd (228.802 nm)
Intensity = 8099.47581842 * Concentration + 11.11314689
Correlation coefficient: 0.99995

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	11.11315	0.00000	0.00000	N/A
ICAL 1	54.39823	0.00500	0.00534	6.88367
ICAL 2	7974.58444	1.00000	0.98321	1.67918
ICAL 3	16265.61516	2.00000	2.00686	0.34293

211214A.esws

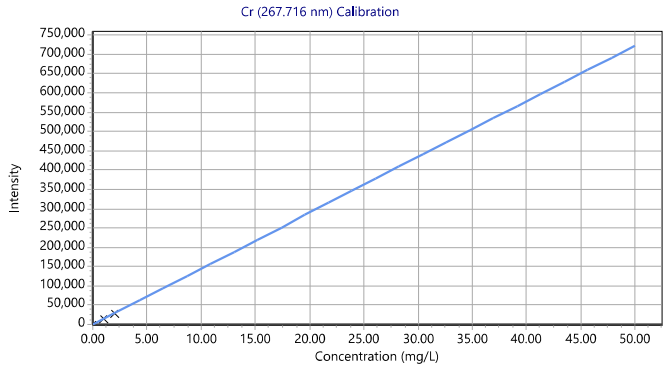
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Co (230.786 nm)
Intensity = 3385.12204634 * Concentration + 1.22194292
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1.22194	0.00000	0.00000	N/A
ICAL 1	37.46163	0.01000	0.01071	7.05579
ICAL 2	3367.59118	1.00000	0.99446	0.55398
ICAL 3	6780.83050	2.00000	2.00277	0.13832



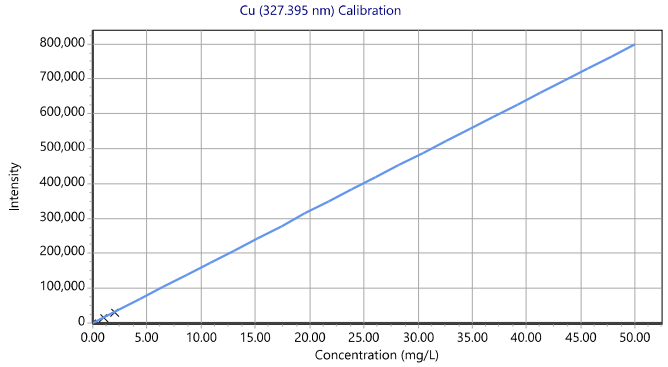
Cr (267.716 nm)
Intensity = 14464.25928008 * Concentration + 24.94359461
Correlation coefficient: 0.99998

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	13.64336	0.00000	-0.00078	N/A
ICAL 1	170.26334	0.01000	0.01005	0.46816
ICAL 2	14332.19307	1.00000	0.98914	1.08550
ICAL 3	29032.90880	2.00000	2.00549	0.27463

211214A.esws

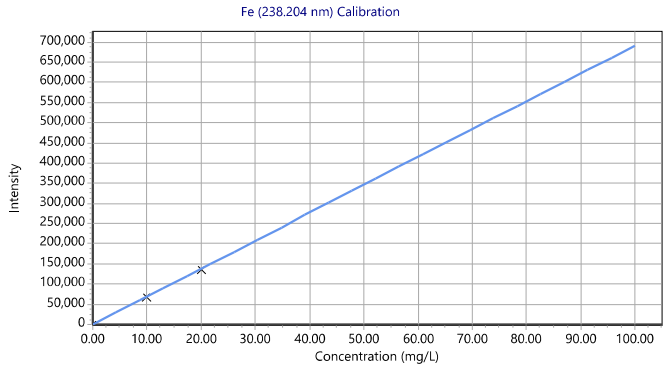
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Cu (327.395 nm)
Intensity = 15992.26553110 * Concentration + 10.34747080
Correlation coefficient: 0.99990

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	10.34747	0.00000	0.00000	N/A
ICAL 1	172.88536	0.01000	0.01016	1.63531
ICAL 2	15644.28590	1.00000	0.97759	2.24063
ICAL 3	32174.02901	2.00000	2.01120	0.56012



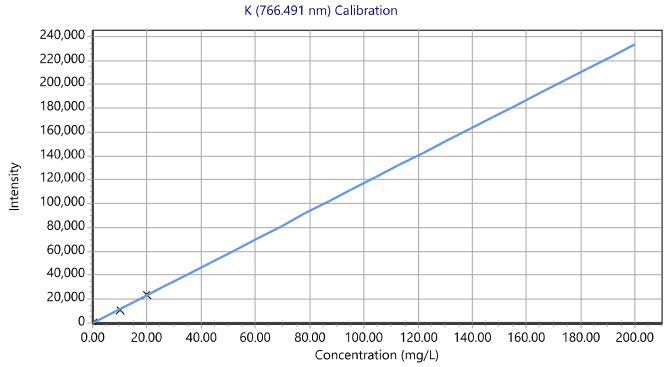
Fe (238.204 nm)
Intensity = 6914.77335024 * Concentration + 71.22773731
Correlation coefficient: 1.00000

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	47.25371	0.00000	-0.00347	N/A
ICAL 1	844.83925	0.10000	0.11188	11.87807
ICAL 2	68613.93512	10.00000	9.91250	0.87498
ICAL 3	137175.02466	20.00000	19.82766	0.86168

211214A.esws

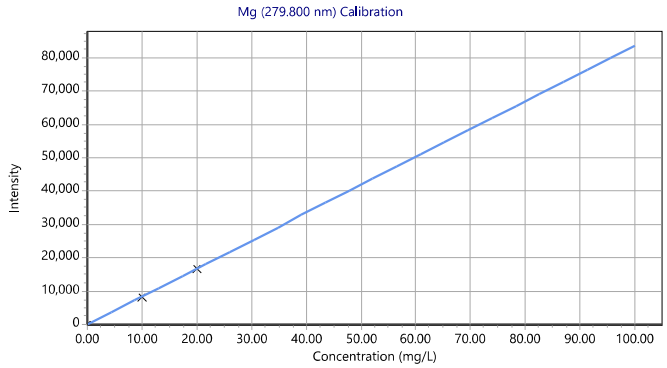
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



K (766.491 nm)
Intensity = 1168.12327758 * Concentration + 68.97273220
Correlation coefficient: 0.99979

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	68.97273	0.00000	0.00000	N/A
ICAL 1	623.71362	0.50000	0.47490	5.02015
ICAL 2	11377.16665	10.00000	9.68065	3.19349
ICAL 3	23626.72076	20.00000	20.16718	0.83588



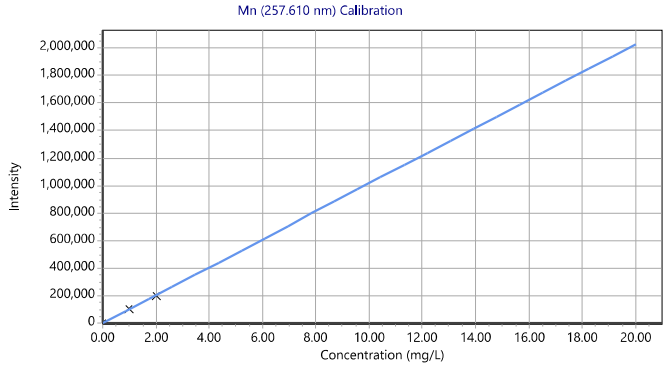
Mg (279.800 nm)
Intensity = 836.43010322 * Concentration + 5.31314376
Correlation coefficient: 0.99995

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	5.31314	0.00000	0.00000	N/A
ICAL 1	93.66722	0.10000	0.10563	5.63234
ICAL 2	8228.96283	10.00000	9.83184	1.68157
ICAL 3	16778.37474	20.00000	20.05315	0.26577

211214A.esws

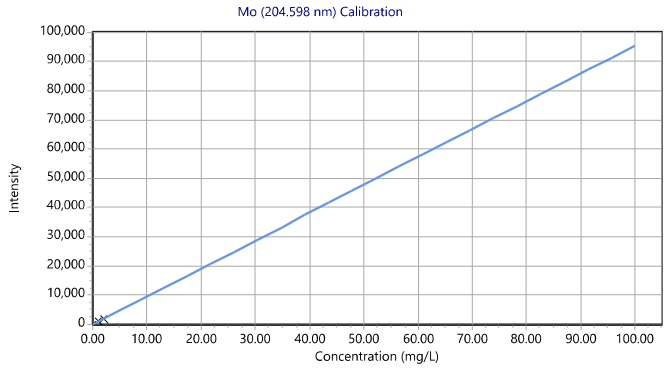
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Mn (257.610 nm)
Intensity = 101378.55810314 * Concentration + 23.88102927
Correlation coefficient: 0.99998

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	23.88103	0.00000	0.00000	N/A
ICAL 1	604.81323	0.00500	0.00573	14.60652
ICAL 2	100340.73843	1.00000	0.98953	1.04726
ICAL 3	203311.66249	2.00000	2.00523	0.26172



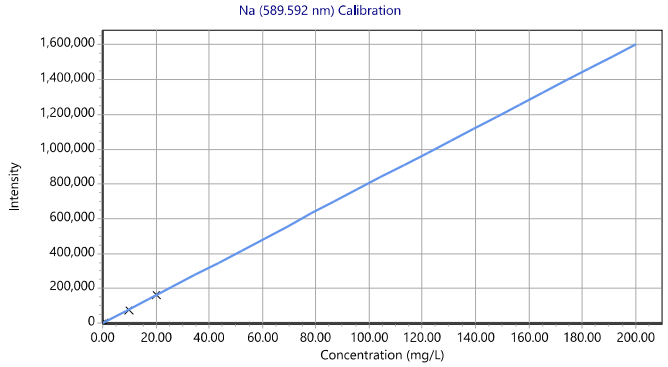
Mo (204.598 nm)
Intensity = 954.43675631 * Concentration + 2.62619332
Correlation coefficient: 0.99992

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	2.62619	0.00000	0.00000	N/A
ICAL 1	48.84433	0.05000	0.04842	3.15097
ICAL 2	940.21296	1.00000	0.98235	1.76544
ICAL 3	1925.07908	2.00000	2.01423	0.71138

211214A.esws

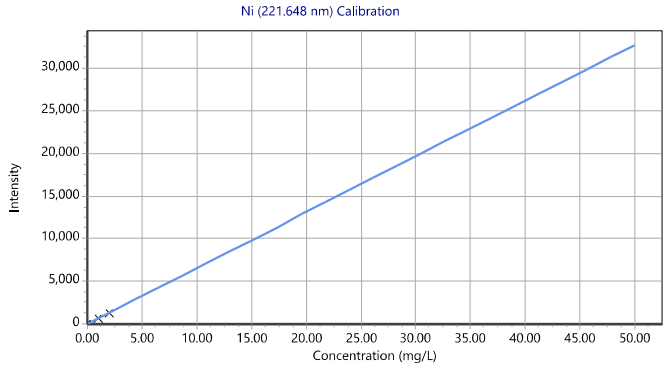
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Na (589.592 nm)
Intensity = 8021.73139285 * Concentration + 423.07241950
Correlation coefficient: 0.99988

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	423.07242	0.00000	0.00000	N/A
ICAL 1	7171.60117	1.00000	0.84128	15.87192
ICAL 2	78690.45443	10.00000	9.75692	2.43081
ICAL 3	161896.32637	20.00000	20.12948	0.64738



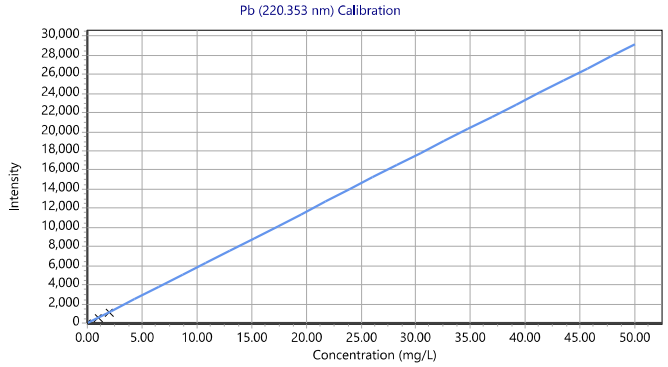
Ni (221.648 nm)
Intensity = 656.12423103 * Concentration + 1.91760946
Correlation coefficient: 0.99998

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1.91761	0.00000	0.00000	N/A
ICAL 1	17.16909	0.02000	0.02324	16.22401
ICAL 2	650.67737	1.00000	0.98878	1.12242
ICAL 3	1314.06548	2.00000	1.99985	0.00767

211214A.esws

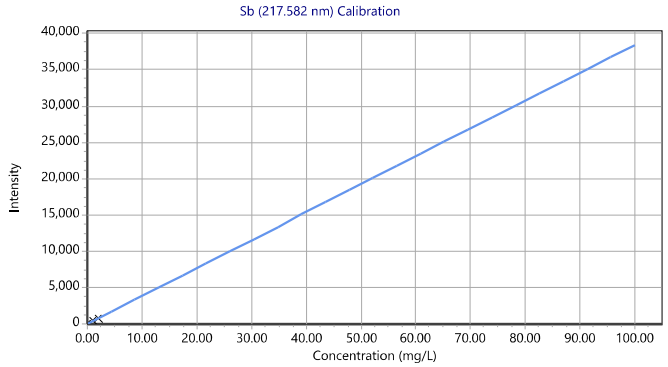
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Pb (220.353 nm)
Intensity = 583.16644009 * Concentration - 0.86902266
Correlation coefficient: 0.99997

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-0.86902	0.00000	0.00000	N/A
ICAL 1	5.05646	0.01000	0.01016	1.60880
ICAL 2	573.42246	1.00000	0.98478	1.52186
ICAL 3	1165.74490	2.00000	2.00048	0.02410



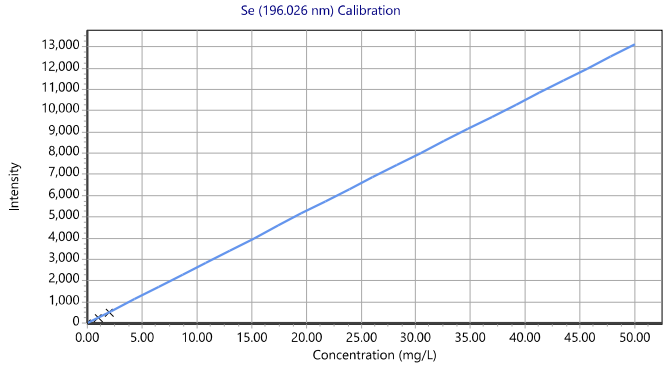
Sb (217.582 nm)
Intensity = 384.43450802 * Concentration + 0.42775670
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	0.42776	0.00000	0.00000	N/A
ICAL 1	7.44249	0.02000	0.01825	8.76560
ICAL 2	382.71449	1.00000	0.99441	0.55868
ICAL 3	772.58103	2.00000	2.00854	0.42715

211214A.esws

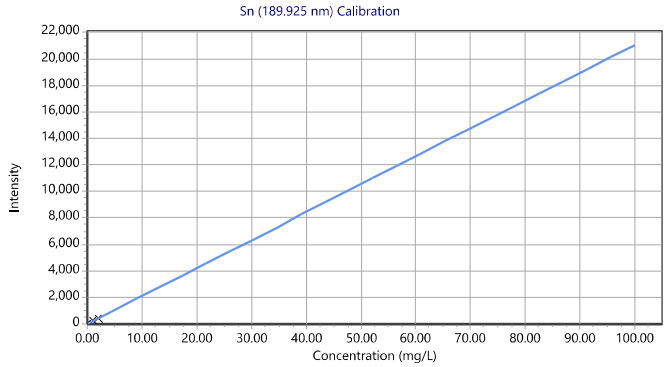
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Se (196.026 nm)
Intensity = 262.48205698 * Concentration + 7.69906288
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	7.69906	0.00000	0.00000	N/A
ICAL 1	11.96324	0.02000	0.01625	18.77206
ICAL 2	267.89927	1.00000	0.99131	0.86934
ICAL 3	533.81396	2.00000	2.00438	0.21921



Sn (189.925 nm)
Intensity = 210.58293069 * Concentration + 1.39462632
Correlation coefficient: 0.99996

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1.39463	0.00000	0.00000	N/A
ICAL 1	12.17953	0.05000	0.05121	2.42907
ICAL 2	209.14014	1.00000	0.98653	1.34741
ICAL 3	423.97280	2.00000	2.00671	0.33533

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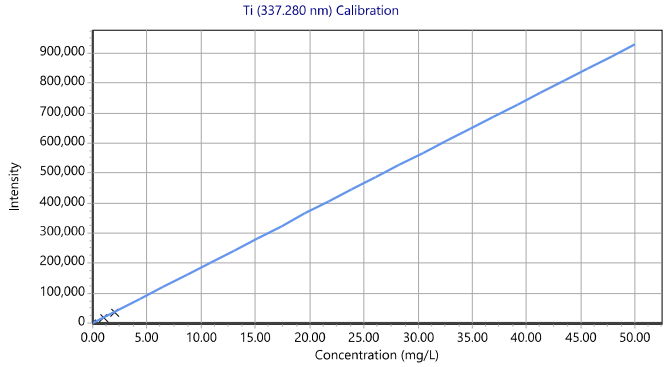
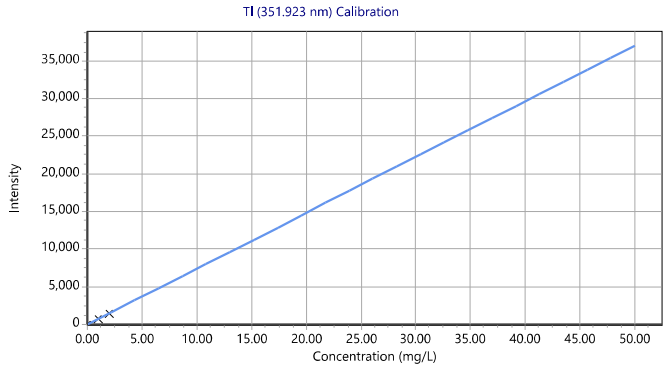
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Ti (337.280 nm)
Intensity = 18591.29870602 * Concentration + 24.65846003
Correlation coefficient: 0.99996

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	24.65846	0.00000	0.00000	N/A
ICAL 1	976.26728	0.05000	0.05119	2.37142
ICAL 2	18378.60157	1.00000	0.98723	1.27670
ICAL 3	37325.38257	2.00000	2.00635	0.31769



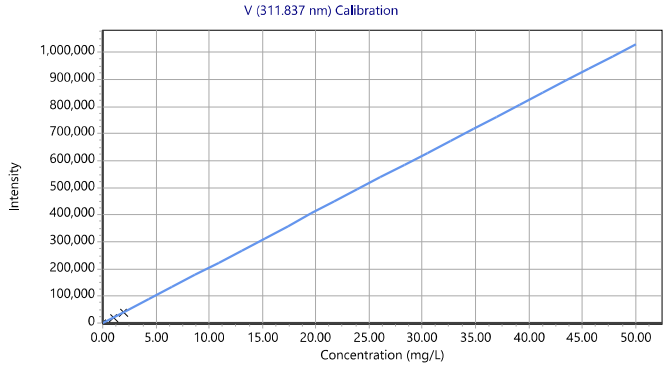
Tl (351.923 nm)
Intensity = 741.03018051 * Concentration - 6.85773631
Correlation coefficient: 0.99994

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-6.75166	0.00000	0.00014	N/A
ICAL 1	10.63604	0.02000	0.02361	18.03689
ICAL 2	722.91672	1.00000	0.98481	1.51893
ICAL 3	1483.37296	2.00000	2.01103	0.55128

211214A.esws

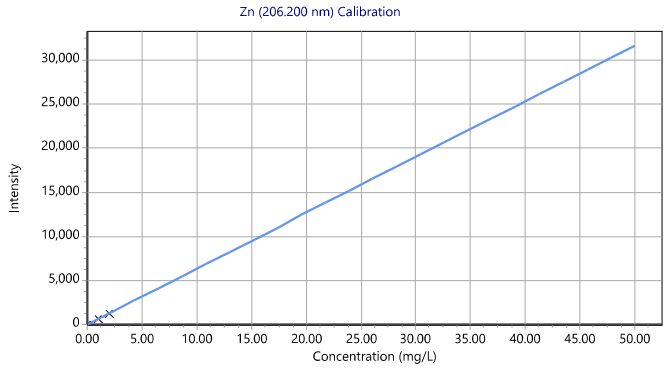
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



V (311.837 nm)
Intensity = 20628.11980065 * Concentration + 5.84263036
Correlation coefficient: 0.99993

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	5.84263	0.00000	0.00000	N/A
ICAL 1	188.84066	0.01000	0.00887	11.28710
ICAL 2	20254.85093	1.00000	0.98162	1.83784
ICAL 3	41451.75440	2.00000	2.00919	0.45974



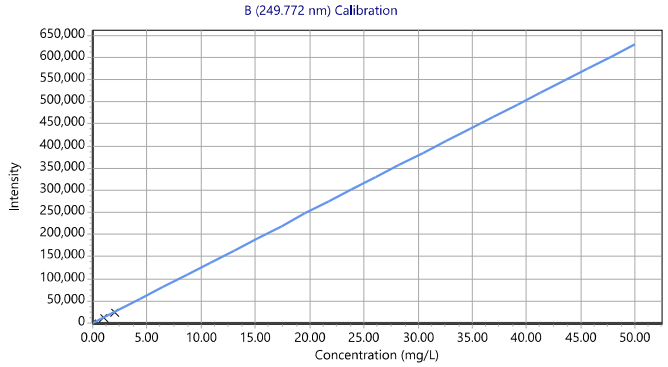
Zn (206.200 nm)
Intensity = 633.38798026 * Concentration + 3.27279792
Correlation coefficient: 0.99997

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.27280	0.00000	0.00000	N/A
ICAL 1	16.88435	0.02000	0.02149	7.45037
ICAL 2	632.46483	1.00000	0.99338	0.66246
ICAL 3	1279.80476	2.00000	2.01540	0.77014

211214A.esws

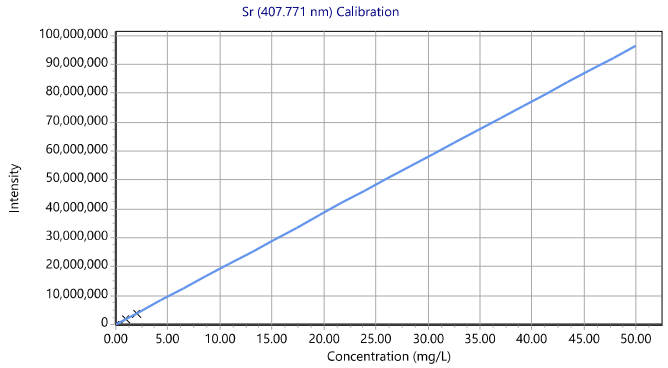
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



B (249.772 nm)
Intensity = 12605.04049299 * Concentration + 60.41434187
Correlation coefficient: 0.99986

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	60.41434	0.00000	0.00000	N/A
ICAL 1	769.30213	0.05000	0.05624	12.47688
ICAL 2	12084.77066	1.00000	0.95393	4.60676
ICAL 3	24854.03887	2.00000	1.96696	1.65194



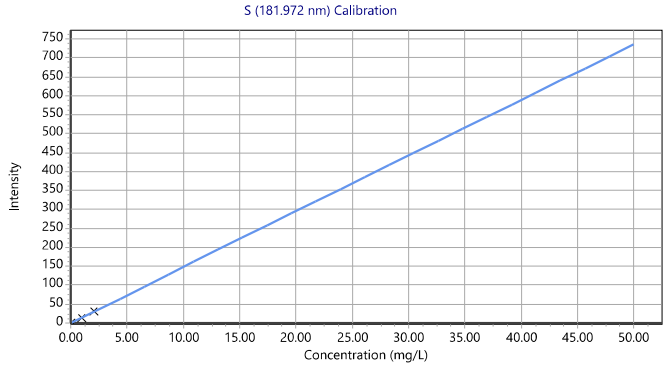
Sr (407.771 nm)
Intensity = 1931508.12192434 * Concentration + 263.82583992
Correlation coefficient: 0.99977

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	263.82584	0.00000	0.00000	N/A
ICAL 1	114597.63416	0.05000	0.05919	18.38812
ICAL 2	1839070.07176	1.00000	0.95201	4.79946
ICAL 3	3820097.86881	2.00000	1.97764	1.11784

211214A.esws

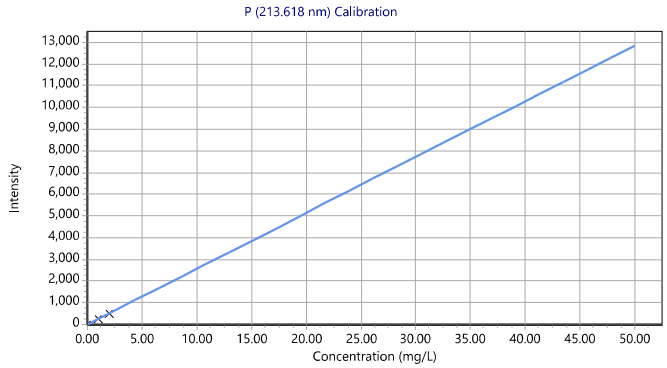
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



S (181.972 nm)
Intensity = 14.71505649 * Concentration + 0.95162158
Correlation coefficient: 0.99906

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	0.95162	0.00000	0.00000	N/A
ICAL 1	1.95180	0.05000	0.06797	35.93973
ICAL 2	15.48226	1.00000	0.98747	1.25329
ICAL 3	32.47192	2.00000	2.14204	7.10222



P (213.618 nm)
Intensity = 257.19096462 * Concentration - 2.68780828
Correlation coefficient: 0.99995

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-2.68781	0.00000	0.00000	N/A
ICAL 1	11.29869	0.05000	0.05438	8.76355
ICAL 2	250.63380	1.00000	0.98496	1.50447
ICAL 3	513.37500	2.00000	2.00654	0.32678

Detailed Results

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 14:59:57	Blank	Ag (328.068 nm)	N/A	0.00000 (mg/L)	0.67953	> 100.00
12/14/2021 14:59:57	Blank	Al (308.215 nm)	N/A	0.00000 (mg/L)	471.36335	0.66
12/14/2021 14:59:57	Blank	As (193.696 nm)	N/A	0.00000 (mg/L)	3.76487	46.15

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 14:59:57	Blank	B (249.772 nm)	N/A	0.00000 (mg/L)	60.41434	6.26
12/14/2021 14:59:57	Blank	Ba (413.064 nm)	N/A	0.00000 (mg/L)	65.60070	1.95
12/14/2021 14:59:57	Blank	Be (313.042 nm)	N/A	0.00000 (mg/L)	149.68087	7.59
12/14/2021 14:59:57	Blank	Ca (373.690 nm)	N/A	0.00000 (mg/L)	-70.83626	6.00
12/14/2021 14:59:57	Blank	Cd (228.802 nm)	N/A	0.00000 (mg/L)	11.11315	26.37
12/14/2021 14:59:57	Blank	Co (230.786 nm)	N/A	0.00000 (mg/L)	1.22194	12.64
12/14/2021 14:59:57	Blank	Cr (267.716 nm)	N/A	0.00000 (mg/L)	13.64336	21.66
12/14/2021 14:59:57	Blank	Cu (327.395 nm)	N/A	0.00000 (mg/L)	10.34747	53.10
12/14/2021 14:59:57	Blank	Fe (238.204 nm)	N/A	0.00000 (mg/L)	47.25371	3.32
12/14/2021 14:59:57	Blank	K (766.491 nm)	N/A	0.00000 (mg/L)	68.97273	26.04
12/14/2021 14:59:57	Blank	Mg (279.800 nm)	N/A	0.00000 (mg/L)	5.31314	40.73
12/14/2021 14:59:57	Blank	Mn (257.610 nm)	N/A	0.00000 (mg/L)	23.88103	8.10
12/14/2021 14:59:57	Blank	Mo (204.598 nm)	N/A	0.00000 (mg/L)	2.62619	13.86
12/14/2021 14:59:57	Blank	Na (589.592 nm)	N/A	0.00000 (mg/L)	423.07242	1.80
12/14/2021 14:59:57	Blank	Ni (221.648 nm)	N/A	0.00000 (mg/L)	1.91761	18.10
12/14/2021 14:59:57	Blank	P (213.618 nm)	N/A	0.00000 (mg/L)	-2.68781	51.89
12/14/2021 14:59:57	Blank	Pb (220.353 nm)	N/A	0.00000 (mg/L)	-0.86902	> 100.00
12/14/2021 14:59:57	Blank	S (181.972 nm)	N/A	0.00000 (mg/L)	0.95162	> 100.00
12/14/2021 14:59:57	Blank	Sb (217.582 nm)	N/A	0.00000 (mg/L)	0.42776	61.78
12/14/2021 14:59:57	Blank	Se (196.026 nm)	N/A	0.00000 (mg/L)	7.69906	12.00
12/14/2021 14:59:57	Blank	Sn (189.925 nm)	N/A	0.00000 (mg/L)	1.39463	54.42
12/14/2021 14:59:57	Blank	Sr (407.771 nm)	N/A	0.00000 (mg/L)	263.82584	2.76
12/14/2021 14:59:57	Blank	Ti (337.280 nm)	N/A	0.00000 (mg/L)	24.65846	2.91
12/14/2021 14:59:57	Blank	Tl (351.923 nm)	N/A	0.00000 (mg/L)	-6.75166	62.33
12/14/2021 14:59:57	Blank	V (311.837 nm)	N/A	0.00000 (mg/L)	5.84263	80.93
12/14/2021 14:59:57	Blank	Zn (206.200 nm)	N/A	0.00000 (mg/L)	3.27280	22.42
12/14/2021 15:03:10	ICAL 1	Ag (328.068 nm)	N/A	0.00500 (mg/L)	112.77511	5.67
12/14/2021 15:03:10	ICAL 1	Al (308.215 nm)	N/A	0.20000 (mg/L)	984.44773	0.42
12/14/2021 15:03:10	ICAL 1	As (193.696 nm)	N/A	0.05000 (mg/L)	15.83923	18.83
12/14/2021 15:03:10	ICAL 1	B (249.772 nm)	N/A	0.05000 (mg/L)	769.30213	0.29
12/14/2021 15:03:10	ICAL 1	Ba (413.064 nm)	N/A	0.01000 (mg/L)	127.34148	3.29
12/14/2021 15:03:10	ICAL 1	Be (313.042 nm)	N/A	0.00500 (mg/L)	4947.54619	0.18
12/14/2021 15:03:10	ICAL 1	Ca (373.690 nm)	N/A	0.10000 (mg/L)	214.66495	2.47
12/14/2021 15:03:10	ICAL 1	Cd (228.802 nm)	N/A	0.00500 (mg/L)	54.39823	2.74
12/14/2021 15:03:10	ICAL 1	Co (230.786 nm)	N/A	0.01000 (mg/L)	37.46163	3.35
12/14/2021 15:03:10	ICAL 1	Cr (267.716 nm)	N/A	0.01000 (mg/L)	170.26334	0.42
12/14/2021 15:03:10	ICAL 1	Cu (327.395 nm)	N/A	0.01000 (mg/L)	172.88536	1.58
12/14/2021 15:03:10	ICAL 1	Fe (238.204 nm)	N/A	0.10000 (mg/L)	844.83925	0.34
12/14/2021 15:03:10	ICAL 1	K (766.491 nm)	N/A	0.50000 (mg/L)	623.71362	2.20
12/14/2021 15:03:10	ICAL 1	Mg (279.800 nm)	N/A	0.10000 (mg/L)	93.66722	2.80
12/14/2021 15:03:10	ICAL 1	Mn (257.610 nm)	N/A	0.00500 (mg/L)	604.81323	0.90
12/14/2021 15:03:10	ICAL 1	Mo (204.598 nm)	N/A	0.05000 (mg/L)	48.84433	0.71
12/14/2021 15:03:10	ICAL 1	Na (589.592 nm)	N/A	1.00000 (mg/L)	7171.60117	0.46
12/14/2021 15:03:10	ICAL 1	Ni (221.648 nm)	N/A	0.02000 (mg/L)	17.16909	2.26
12/14/2021 15:03:10	ICAL 1	P (213.618 nm)	N/A	0.05000 (mg/L)	11.29869	17.20
12/14/2021 15:03:10	ICAL 1	Pb (220.353 nm)	N/A	0.01000 (mg/L)	5.05646	12.42
12/14/2021 15:03:10	ICAL 1	S (181.972 nm)	N/A	0.05000 (mg/L)	1.95180	41.16
12/14/2021 15:03:10	ICAL 1	Sb (217.582 nm)	N/A	0.02000 (mg/L)	7.44249	43.48

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 15:03:10	ICAL 1	Se (196.026 nm)	N/A	0.02000 (mg/L)	11.96324	24.20
12/14/2021 15:03:10	ICAL 1	Sn (189.925 nm)	N/A	0.05000 (mg/L)	12.17953	11.55
12/14/2021 15:03:10	ICAL 1	Sr (407.771 nm)	N/A	0.05000 (mg/L)	114597.63416	0.50
12/14/2021 15:03:10	ICAL 1	Ti (337.280 nm)	N/A	0.05000 (mg/L)	976.26728	0.55
12/14/2021 15:03:10	ICAL 1	Tl (351.923 nm)	N/A	0.02000 (mg/L)	10.63604	45.54
12/14/2021 15:03:10	ICAL 1	V (311.837 nm)	N/A	0.01000 (mg/L)	188.84066	3.50
12/14/2021 15:03:10	ICAL 1	Zn (206.200 nm)	N/A	0.02000 (mg/L)	16.88435	10.00
12/14/2021 15:06:23	ICAL 2	Ag (328.068 nm)	N/A	0.10000 (mg/L)	2238.92974	0.42
12/14/2021 15:06:23	ICAL 2	Al (308.215 nm)	N/A	10.00000 (mg/L)	25684.95445	0.24
12/14/2021 15:06:23	ICAL 2	As (193.696 nm)	N/A	1.00000 (mg/L)	241.90807	0.50
12/14/2021 15:06:23	ICAL 2	B (249.772 nm)	N/A	1.00000 (mg/L)	12084.77066	0.30
12/14/2021 15:06:23	ICAL 2	Ba (413.064 nm)	N/A	1.00000 (mg/L)	6721.49730	0.22
12/14/2021 15:06:23	ICAL 2	Be (313.042 nm)	N/A	1.00000 (mg/L)	942223.64825	0.53
12/14/2021 15:06:23	ICAL 2	Ca (373.690 nm)	N/A	10.00000 (mg/L)	26119.41496	0.45
12/14/2021 15:06:23	ICAL 2	Cd (228.802 nm)	N/A	1.00000 (mg/L)	7974.58444	0.57
12/14/2021 15:06:23	ICAL 2	Co (230.786 nm)	N/A	1.00000 (mg/L)	3367.59118	0.15
12/14/2021 15:06:23	ICAL 2	Cr (267.716 nm)	N/A	1.00000 (mg/L)	14332.19307	0.32
12/14/2021 15:06:23	ICAL 2	Cu (327.395 nm)	N/A	1.00000 (mg/L)	15644.28590	0.62
12/14/2021 15:06:23	ICAL 2	Fe (238.204 nm)	N/A	10.00000 (mg/L)	68613.93512	0.44
12/14/2021 15:06:23	ICAL 2	K (766.491 nm)	N/A	10.00000 (mg/L)	11377.16665	0.49
12/14/2021 15:06:23	ICAL 2	Mg (279.800 nm)	N/A	10.00000 (mg/L)	8228.96283	0.38
12/14/2021 15:06:23	ICAL 2	Mn (257.610 nm)	N/A	1.00000 (mg/L)	100340.73843	0.27
12/14/2021 15:06:23	ICAL 2	Mo (204.598 nm)	N/A	1.00000 (mg/L)	940.21296	0.59
12/14/2021 15:06:23	ICAL 2	Na (589.592 nm)	N/A	10.00000 (mg/L)	78690.45443	0.28
12/14/2021 15:06:23	ICAL 2	Ni (221.648 nm)	N/A	1.00000 (mg/L)	650.67737	0.82
12/14/2021 15:06:23	ICAL 2	P (213.618 nm)	N/A	1.00000 (mg/L)	250.63380	0.76
12/14/2021 15:06:23	ICAL 2	Pb (220.353 nm)	N/A	1.00000 (mg/L)	573.42246	0.80
12/14/2021 15:06:23	ICAL 2	S (181.972 nm)	N/A	1.00000 (mg/L)	15.48226	2.40
12/14/2021 15:06:23	ICAL 2	Sb (217.582 nm)	N/A	1.00000 (mg/L)	382.71449	0.33
12/14/2021 15:06:23	ICAL 2	Se (196.026 nm)	N/A	1.00000 (mg/L)	267.89927	0.99
12/14/2021 15:06:23	ICAL 2	Sn (189.925 nm)	N/A	1.00000 (mg/L)	209.14014	1.27
12/14/2021 15:06:23	ICAL 2	Sr (407.771 nm)	N/A	1.00000 (mg/L)	1839070.07176	0.33
12/14/2021 15:06:23	ICAL 2	Ti (337.280 nm)	N/A	1.00000 (mg/L)	18378.60157	0.30
12/14/2021 15:06:23	ICAL 2	Tl (351.923 nm)	N/A	1.00000 (mg/L)	722.91672	0.95
12/14/2021 15:06:23	ICAL 2	V (311.837 nm)	N/A	1.00000 (mg/L)	20254.85093	0.27
12/14/2021 15:06:23	ICAL 2	Zn (206.200 nm)	N/A	1.00000 (mg/L)	632.46483	0.43
12/14/2021 15:09:36	ICAL 3	Ag (328.068 nm)	N/A	0.20000 (mg/L)	4574.84202	0.07
12/14/2021 15:09:36	ICAL 3	Al (308.215 nm)	N/A	20.00000 (mg/L)	52499.07981	0.15
12/14/2021 15:09:36	ICAL 3	As (193.696 nm)	N/A	2.00000 (mg/L)	485.30576	0.40
12/14/2021 15:09:36	ICAL 3	B (249.772 nm)	N/A	2.00000 (mg/L)	24854.03887	0.20
12/14/2021 15:09:36	ICAL 3	Ba (413.064 nm)	N/A	2.00000 (mg/L)	13587.35474	0.16
12/14/2021 15:09:36	ICAL 3	Be (313.042 nm)	N/A	2.00000 (mg/L)	1902650.11439	0.23
12/14/2021 15:09:36	ICAL 3	Ca (373.690 nm)	N/A	20.00000 (mg/L)	53064.50225	0.24
12/14/2021 15:09:36	ICAL 3	Cd (228.802 nm)	N/A	2.00000 (mg/L)	16265.61516	0.26
12/14/2021 15:09:36	ICAL 3	Co (230.786 nm)	N/A	2.00000 (mg/L)	6780.83050	0.27
12/14/2021 15:09:36	ICAL 3	Cr (267.716 nm)	N/A	2.00000 (mg/L)	29032.90880	0.17
12/14/2021 15:09:36	ICAL 3	Cu (327.395 nm)	N/A	2.00000 (mg/L)	32174.02901	0.22
12/14/2021 15:09:36	ICAL 3	Fe (238.204 nm)	N/A	20.00000 (mg/L)	137175.02466	0.12

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 15:09:36	ICAL 3	K (766.491 nm)	N/A	20.00000 (mg/L)	23626.72076	0.23
12/14/2021 15:09:36	ICAL 3	Mg (279.800 nm)	N/A	20.00000 (mg/L)	16778.37474	0.15
12/14/2021 15:09:36	ICAL 3	Mn (257.610 nm)	N/A	2.00000 (mg/L)	203311.66249	0.17
12/14/2021 15:09:36	ICAL 3	Mo (204.598 nm)	N/A	2.00000 (mg/L)	1925.07908	0.25
12/14/2021 15:09:36	ICAL 3	Na (589.592 nm)	N/A	20.00000 (mg/L)	161896.32637	0.09
12/14/2021 15:09:36	ICAL 3	Ni (221.648 nm)	N/A	2.00000 (mg/L)	1314.06548	0.23
12/14/2021 15:09:36	ICAL 3	P (213.618 nm)	N/A	2.00000 (mg/L)	513.37500	0.35
12/14/2021 15:09:36	ICAL 3	Pb (220.353 nm)	N/A	2.00000 (mg/L)	1165.74490	0.10
12/14/2021 15:09:36	ICAL 3	S (181.972 nm)	N/A	2.00000 (mg/L)	32.47192	5.49
12/14/2021 15:09:36	ICAL 3	Sb (217.582 nm)	N/A	2.00000 (mg/L)	772.58103	0.29
12/14/2021 15:09:36	ICAL 3	Se (196.026 nm)	N/A	2.00000 (mg/L)	533.81396	0.68
12/14/2021 15:09:36	ICAL 3	Sn (189.925 nm)	N/A	2.00000 (mg/L)	423.97280	0.43
12/14/2021 15:09:36	ICAL 3	Sr (407.771 nm)	N/A	2.00000 (mg/L)	3820097.86881	0.66
12/14/2021 15:09:36	ICAL 3	Ti (337.280 nm)	N/A	2.00000 (mg/L)	37325.38257	0.05
12/14/2021 15:09:36	ICAL 3	Tl (351.923 nm)	N/A	2.00000 (mg/L)	1483.37296	0.56
12/14/2021 15:09:36	ICAL 3	V (311.837 nm)	N/A	2.00000 (mg/L)	41451.75440	0.12
12/14/2021 15:09:36	ICAL 3	Zn (206.200 nm)	N/A	2.00000 (mg/L)	1279.80476	0.46
12/14/2021 15:12:48	Lab Control Sample	Ag (328.068 nm)	0.20	0.20120 (mg/L)	4582.61934	0.20
12/14/2021 15:12:48	Lab Control Sample	Al (308.215 nm)	0.47	20.20463 (mg/L)	52560.39971	0.46
12/14/2021 15:12:48	Lab Control Sample	As (193.696 nm)	0.62	2.02441 (mg/L)	489.51473	0.62
12/14/2021 15:12:48	Lab Control Sample	B (249.772 nm)	0.38	1.97261 (mg/L)	24925.24672	0.38
12/14/2021 15:12:48	Lab Control Sample	Ba (413.064 nm)	0.31	2.00448 (mg/L)	13575.55341	0.31
12/14/2021 15:12:48	Lab Control Sample	Be (313.042 nm)	0.14	2.01703 (mg/L)	1915152.92696	0.14
12/14/2021 15:12:48	Lab Control Sample	Ca (373.690 nm)	0.23	20.06582 (mg/L)	53120.10223	0.23
12/14/2021 15:12:48	Lab Control Sample	Cd (228.802 nm)	0.34	2.00935 (mg/L)	16285.80106	0.34
12/14/2021 15:12:48	Lab Control Sample	Co (230.786 nm)	0.26	2.00097 (mg/L)	6774.75353	0.26
12/14/2021 15:12:48	Lab Control Sample	Cr (267.716 nm)	0.24	2.00844 (mg/L)	29075.48363	0.24
12/14/2021 15:12:48	Lab Control Sample	Cu (327.395 nm)	0.33	2.03612 (mg/L)	32572.45019	0.33
12/14/2021 15:12:48	Lab Control Sample	Fe (238.204 nm)	0.61	19.89607 (mg/L)	137648.01727	0.61
12/14/2021 15:12:48	Lab Control Sample	K (766.491 nm)	0.26	20.16479 (mg/L)	23623.93572	0.26
12/14/2021 15:12:48	Lab Control Sample	Mg (279.800 nm)	0.34	20.07810 (mg/L)	16799.23855	0.34
12/14/2021 15:12:48	Lab Control Sample	Mn (257.610 nm)	0.28	2.00407 (mg/L)	203193.75635	0.28
12/14/2021 15:12:48	Lab Control Sample	Mo (204.598 nm)	0.30	2.01082 (mg/L)	1921.82489	0.30
12/14/2021 15:12:48	Lab Control Sample	Na (589.592 nm)	0.35	20.15751 (mg/L)	162121.21662	0.35
12/14/2021 15:12:48	Lab Control Sample	Ni (221.648 nm)	0.45	1.99553 (mg/L)	1311.23142	0.45
12/14/2021 15:12:48	Lab Control Sample	P (213.618 nm)	0.14	2.00427 (mg/L)	512.79216	0.14
12/14/2021 15:12:48	Lab Control Sample	Pb (220.353 nm)	0.48	2.00328 (mg/L)	1167.37710	0.48
12/14/2021 15:12:48	Lab Control Sample	S (181.972 nm)	6.07	2.17662 (mg/L)	32.98072	5.90
12/14/2021 15:12:48	Lab Control Sample	Sb (217.582 nm)	0.28	2.02243 (mg/L)	777.91881	0.28
12/14/2021 15:12:48	Lab Control Sample	Se (196.026 nm)	0.34	1.99718 (mg/L)	531.92237	0.33
12/14/2021 15:12:48	Lab Control Sample	Sn (189.925 nm)	0.98	2.00529 (mg/L)	423.67435	0.98
12/14/2021 15:12:48	Lab Control Sample	Sr (407.771 nm)	0.15	1.99068 (mg/L)	3845276.37456	0.15
12/14/2021 15:12:48	Lab Control Sample	Ti (337.280 nm)	0.44	2.00902 (mg/L)	37374.95501	0.44
12/14/2021 15:12:48	Lab Control Sample	Tl (351.923 nm)	0.43	2.02086 (mg/L)	1490.65910	0.44
12/14/2021 15:12:48	Lab Control Sample	V (311.837 nm)	0.27	2.00670 (mg/L)	41400.36682	0.27
12/14/2021 15:12:48	Lab Control Sample	Zn (206.200 nm)	0.81	2.00747 (mg/L)	1274.78150	0.81
12/14/2021 15:19:15	Initial Calib Verif	Ag (328.068 nm)	0.31	0.05078 (mg/L)	1157.16281	0.31
12/14/2021 15:19:15	Initial Calib Verif	Al (308.215 nm)	0.17	5.05720 (mg/L)	13509.20385	0.16

211214A.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 15:19:15	Initial Calib Verif	As (193.696 nm)	0.31	0.51267 (mg/L)	126.03111	0.30
12/14/2021 15:19:15	Initial Calib Verif	B (249.772 nm)	0.16	0.52055 (mg/L)	6621.96459	0.16
12/14/2021 15:19:15	Initial Calib Verif	Ba (413.064 nm)	0.27	0.52064 (mg/L)	3574.65046	0.26
12/14/2021 15:19:15	Initial Calib Verif	Be (313.042 nm)	0.43	0.52383 (mg/L)	497482.03500	0.43
12/14/2021 15:19:15	Initial Calib Verif	Ca (373.690 nm)	0.11	5.17978 (mg/L)	13659.83156	0.11
12/14/2021 15:19:15	Initial Calib Verif	Cd (228.802 nm)	0.41	0.51168 (mg/L)	4155.41467	0.41
12/14/2021 15:19:15	Initial Calib Verif	Co (230.786 nm)	0.20	0.52330 (mg/L)	1772.64893	0.20
12/14/2021 15:19:15	Initial Calib Verif	Cr (267.716 nm)	0.15	0.52094 (mg/L)	7559.97925	0.15
12/14/2021 15:19:15	Initial Calib Verif	Cu (327.395 nm)	0.27	0.51235 (mg/L)	8204.02670	0.27
12/14/2021 15:19:15	Initial Calib Verif	Fe (238.204 nm)	0.39	5.33058 (mg/L)	36930.95248	0.39
12/14/2021 15:19:15	Initial Calib Verif	K (766.491 nm)	0.51	5.01316 (mg/L)	5924.96636	0.51
12/14/2021 15:19:15	Initial Calib Verif	Mg (279.800 nm)	0.23	5.15365 (mg/L)	4315.98520	0.23
12/14/2021 15:19:15	Initial Calib Verif	Mn (257.610 nm)	0.25	0.52113 (mg/L)	52855.64412	0.25
12/14/2021 15:19:15	Initial Calib Verif	Mo (204.598 nm)	0.98	0.51857 (mg/L)	497.56577	0.98
12/14/2021 15:19:15	Initial Calib Verif	Na (589.592 nm)	0.16	5.14147 (mg/L)	41666.55197	0.16
12/14/2021 15:19:15	Initial Calib Verif	Ni (221.648 nm)	0.42	0.52070 (mg/L)	343.56427	0.41
12/14/2021 15:19:15	Initial Calib Verif	P (213.618 nm)	1.61	0.51257 (mg/L)	129.13940	1.64
12/14/2021 15:19:15	Initial Calib Verif	Pb (220.353 nm)	0.54	0.51687 (mg/L)	300.55148	0.54
12/14/2021 15:19:15	Initial Calib Verif	S (181.972 nm)	2.18	0.64000 Q (mg/L)	10.36920 Q	1.98
12/14/2021 15:19:15	Initial Calib Verif	Sb (217.582 nm)	1.40	0.52437 (mg/L)	202.01281	1.39
12/14/2021 15:19:15	Initial Calib Verif	Se (196.026 nm)	1.78	0.50230 (mg/L)	139.54262	1.68
12/14/2021 15:19:15	Initial Calib Verif	Sn (189.925 nm)	1.64	0.52165 (mg/L)	111.24446	1.62
12/14/2021 15:19:15	Initial Calib Verif	Sr (407.771 nm)	0.32	0.51101 (mg/L)	987274.90294	0.32
12/14/2021 15:19:15	Initial Calib Verif	Ti (337.280 nm)	0.15	0.52178 (mg/L)	9725.25507	0.15
12/14/2021 15:19:15	Initial Calib Verif	Tl (351.923 nm)	0.86	0.50413 (mg/L)	366.71639	0.88
12/14/2021 15:19:15	Initial Calib Verif	V (311.837 nm)	0.29	0.50694 (mg/L)	10463.01953	0.29
12/14/2021 15:19:15	Initial Calib Verif	Zn (206.200 nm)	0.46	0.52485 (mg/L)	335.70666	0.46
12/14/2021 15:26:05	Initial Calib Blank	Ag (328.068 nm)	> 100.00	-0.00001 u (mg/L)	0.39026	> 100.00
12/14/2021 15:26:05	Initial Calib Blank	Al (308.215 nm)	24.83	0.00600 (mg/L)	486.81919	0.79
12/14/2021 15:26:05	Initial Calib Blank	As (193.696 nm)	> 100.00	0.00795 u (mg/L)	4.67573	78.99
12/14/2021 15:26:05	Initial Calib Blank	B (249.772 nm)	> 100.00	0.00041 u (mg/L)	65.62311	8.02
12/14/2021 15:26:05	Initial Calib Blank	Ba (413.064 nm)	> 100.00	0.00056 u (mg/L)	69.39857	6.81
12/14/2021 15:26:05	Initial Calib Blank	Be (313.042 nm)	> 100.00	0.00000 u (mg/L)	153.14615	5.09
12/14/2021 15:26:05	Initial Calib Blank	Ca (373.690 nm)	> 100.00	-0.00193 u (mg/L)	-75.94785	7.28
12/14/2021 15:26:05	Initial Calib Blank	Cd (228.802 nm)	> 100.00	-0.00003 u (mg/L)	10.84869	16.00
12/14/2021 15:26:05	Initial Calib Blank	Co (230.786 nm)	> 100.00	-0.00017 u (mg/L)	0.64665	> 100.00
12/14/2021 15:26:05	Initial Calib Blank	Cr (267.716 nm)	26.62	-0.00076 u (mg/L)	14.02225	20.73
12/14/2021 15:26:05	Initial Calib Blank	Cu (327.395 nm)	> 100.00	-0.00016 u (mg/L)	7.73827	65.55
12/14/2021 15:26:05	Initial Calib Blank	Fe (238.204 nm)	5.62	-0.00443 u (mg/L)	40.60464	4.24
12/14/2021 15:26:05	Initial Calib Blank	K (766.491 nm)	21.19	0.02130 (mg/L)	93.85175	5.62
12/14/2021 15:26:05	Initial Calib Blank	Mg (279.800 nm)	33.82	0.00249 (mg/L)	7.39663	9.53
12/14/2021 15:26:05	Initial Calib Blank	Mn (257.610 nm)	> 100.00	0.00002 u (mg/L)	25.92088	23.15
12/14/2021 15:26:05	Initial Calib Blank	Mo (204.598 nm)	67.58	-0.00088 u (mg/L)	1.78995	31.57
12/14/2021 15:26:05	Initial Calib Blank	Na (589.592 nm)	> 100.00	0.00133 u (mg/L)	433.76309	4.57
12/14/2021 15:26:05	Initial Calib Blank	Ni (221.648 nm)	> 100.00	0.00062 u (mg/L)	2.32716	56.29
12/14/2021 15:26:05	Initial Calib Blank	P (213.618 nm)	> 100.00	-0.00520 u (mg/L)	-4.02516	62.85
12/14/2021 15:26:05	Initial Calib Blank	Pb (220.353 nm)	> 100.00	0.00024 u (mg/L)	-0.72955	> 100.00
12/14/2021 15:26:05	Initial Calib Blank	S (181.972 nm)	83.30	-0.04572 u (mg/L)	0.27891	> 100.00

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 15:26:05	Initial Calib Blank	Sb (217.582 nm)	> 100.00	0.00351 u (mg/L)	1.77626	> 100.00
12/14/2021 15:26:05	Initial Calib Blank	Se (196.026 nm)	> 100.00	-0.00046 u (mg/L)	7.57707	10.02
12/14/2021 15:26:05	Initial Calib Blank	Sn (189.925 nm)	59.56	-0.00396 u (mg/L)	0.56117	88.46
12/14/2021 15:26:05	Initial Calib Blank	Sr (407.771 nm)	> 100.00	0.00001 (mg/L)	286.12315	12.64
12/14/2021 15:26:05	Initial Calib Blank	Ti (337.280 nm)	> 100.00	0.00011 u (mg/L)	26.67926	13.85
12/14/2021 15:26:05	Initial Calib Blank	Tl (351.923 nm)	42.28	0.00683 (mg/L)	-1.79502	> 100.00
12/14/2021 15:26:05	Initial Calib Blank	V (311.837 nm)	> 100.00	-0.00007 u (mg/L)	4.29766	70.02
12/14/2021 15:26:05	Initial Calib Blank	Zn (206.200 nm)	> 100.00	-0.00015 u (mg/L)	3.17838	40.35
12/14/2021 15:29:17	CRI	Ag (328.068 nm)	2.79	0.00489 (mg/L)	111.95313	2.77
12/14/2021 15:29:17	CRI	Al (308.215 nm)	1.59	0.19445 (mg/L)	972.66994	0.82
12/14/2021 15:29:17	CRI	As (193.696 nm)	28.26	0.05356 (mg/L)	15.64279	23.27
12/14/2021 15:29:17	CRI	B (249.772 nm)	0.08	0.05580 (mg/L)	763.80206	0.07
12/14/2021 15:29:17	CRI	Ba (413.064 nm)	7.46	0.01095 (mg/L)	139.39725	3.95
12/14/2021 15:29:17	CRI	Be (313.042 nm)	0.10	0.00493 (mg/L)	4827.69415	0.10
12/14/2021 15:29:17	CRI	Ca (373.690 nm)	1.78	0.10667 (mg/L)	211.93797	2.38
12/14/2021 15:29:17	CRI	Cd (228.802 nm)	5.78	0.00534 (mg/L)	54.37355	4.60
12/14/2021 15:29:17	CRI	Co (230.786 nm)	7.33	0.00996 (mg/L)	34.95417	7.07
12/14/2021 15:29:17	CRI	Cr (267.716 nm)	1.91	0.01139 (mg/L)	189.68748	1.66
12/14/2021 15:29:17	CRI	Cu (327.395 nm)	1.37	0.00986 (mg/L)	167.95553	1.29
12/14/2021 15:29:17	CRI	Fe (238.204 nm)	0.66	0.12810 R (mg/L)	957.01794 R	0.61
12/14/2021 15:29:17	CRI	K (766.491 nm)	5.03	0.48600 (mg/L)	636.68581	4.48
12/14/2021 15:29:17	CRI	Mg (279.800 nm)	0.73	0.10687 (mg/L)	94.70315	0.69
12/14/2021 15:29:17	CRI	Mn (257.610 nm)	1.01	0.00579 (mg/L)	611.17698	0.97
12/14/2021 15:29:17	CRI	Mo (204.598 nm)	6.25	0.04840 (mg/L)	48.82395	5.91
12/14/2021 15:29:17	CRI	Na (589.592 nm)	0.22	0.82624 (mg/L)	7050.96477	0.21
12/14/2021 15:29:17	CRI	Ni (221.648 nm)	9.38	0.02259 (mg/L)	16.73758	8.31
12/14/2021 15:29:17	CRI	P (213.618 nm)	7.04	0.05331 (mg/L)	11.02409	8.76
12/14/2021 15:29:17	CRI	Pb (220.353 nm)	12.88	0.00910 (mg/L)	4.43805	15.40
12/14/2021 15:29:17	CRI	S (181.972 nm)	14.23	0.09505 R (mg/L)	2.35023 R	8.47
12/14/2021 15:29:17	CRI	Sb (217.582 nm)	12.00	0.01790 (mg/L)	7.30767	11.30
12/14/2021 15:29:17	CRI	Se (196.026 nm)	31.78	0.02274 (mg/L)	13.66912	13.88
12/14/2021 15:29:17	CRI	Sn (189.925 nm)	12.21	0.05221 (mg/L)	12.38928	10.84
12/14/2021 15:29:17	CRI	Sr (407.771 nm)	0.47	0.05934 (mg/L)	114873.32680	0.46
12/14/2021 15:29:17	CRI	Ti (337.280 nm)	0.44	0.05058 (mg/L)	965.09133	0.43
12/14/2021 15:29:17	CRI	Tl (351.923 nm)	70.17	0.01640 (mg/L)	5.29261	> 100.00
12/14/2021 15:29:17	CRI	V (311.837 nm)	1.35	0.00865 (mg/L)	184.37078	1.31
12/14/2021 15:29:17	CRI	Zn (206.200 nm)	10.67	0.02199 (mg/L)	17.19840	8.64
12/14/2021 15:46:57	Interf Check A	Ag (328.068 nm)	40.71	0.00039 (mg/L)	9.66719	37.85
12/14/2021 15:46:57	Interf Check A	Al (308.215 nm)	0.17	242.50942 (mg/L)	625678.70628	0.17
12/14/2021 15:46:57	Interf Check A	As (193.696 nm)	> 100.00	-0.00091 u (mg/L)	2.54431	30.07
12/14/2021 15:46:57	Interf Check A	B (249.772 nm)	1.33	0.04667 (mg/L)	648.69430	1.21
12/14/2021 15:46:57	Interf Check A	Ba (413.064 nm)	> 100.00	0.00014 u (mg/L)	66.55115	2.32
12/14/2021 15:46:57	Interf Check A	Be (313.042 nm)	11.81	0.00002 (mg/L)	169.84136	1.40
12/14/2021 15:46:57	Interf Check A	Ca (373.690 nm)	0.40	225.22086 o (mg/L)	596949.79099	0.40
12/14/2021 15:46:57	Interf Check A	Cd (228.802 nm)	> 100.00	0.00010 u (mg/L)	11.95105	23.34
12/14/2021 15:46:57	Interf Check A	Co (230.786 nm)	55.32	-0.00063 u (mg/L)	-0.92726	> 100.00
12/14/2021 15:46:57	Interf Check A	Cr (267.716 nm)	16.96	-0.00121 u (mg/L)	7.48032	39.60
12/14/2021 15:46:57	Interf Check A	Cu (327.395 nm)	> 100.00	0.00013 u (mg/L)	12.43395	35.01

211214A.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 15:46:57	Interf Check A	Fe (238.204 nm)	0.12	84.33290 (mg/L)	583214.13223	0.12
12/14/2021 15:46:57	Interf Check A	K (766.491 nm)	50.70	0.03733 (mg/L)	112.57953	19.64
12/14/2021 15:46:57	Interf Check A	Mg (279.800 nm)	0.22	239.46200 o (mg/L)	200298.53807	0.22
12/14/2021 15:46:57	Interf Check A	Mn (257.610 nm)	7.35	0.00077 (mg/L)	101.50292	5.62
12/14/2021 15:46:57	Interf Check A	Mo (204.598 nm)	8.48	0.00395 (mg/L)	6.40002	5.00
12/14/2021 15:46:57	Interf Check A	Na (589.592 nm)	51.10	0.00250 (mg/L)	443.11343	2.31
12/14/2021 15:46:57	Interf Check A	Ni (221.648 nm)	53.65	0.00379 (mg/L)	4.40263	30.28
12/14/2021 15:46:57	Interf Check A	P (213.618 nm)	> 100.00	0.00177 u (mg/L)	-2.23272	76.64
12/14/2021 15:46:57	Interf Check A	Pb (220.353 nm)	> 100.00	-0.00780 u (mg/L)	-5.41737	> 100.00
12/14/2021 15:46:57	Interf Check A	S (181.972 nm)	47.00	-0.06999 Ku (mg/L)	-0.07831 K	> 100.00
12/14/2021 15:46:57	Interf Check A	Sb (217.582 nm)	> 100.00	0.00107 u (mg/L)	0.83733	66.63
12/14/2021 15:46:57	Interf Check A	Se (196.026 nm)	> 100.00	-0.00131 u (mg/L)	7.35570	37.25
12/14/2021 15:46:57	Interf Check A	Sn (189.925 nm)	> 100.00	0.00302 u (mg/L)	2.03092	76.14
12/14/2021 15:46:57	Interf Check A	Sr (407.771 nm)	9.61	0.00033 (mg/L)	896.86155	6.78
12/14/2021 15:46:57	Interf Check A	Ti (337.280 nm)	> 100.00	-0.00006 u (mg/L)	23.57463	14.39
12/14/2021 15:46:57	Interf Check A	Tl (351.923 nm)	61.35	-0.00930 u (mg/L)	-13.74736	30.74
12/14/2021 15:46:57	Interf Check A	V (311.837 nm)	30.87	0.00052 (mg/L)	16.62064	20.02
12/14/2021 15:46:57	Interf Check A	Zn (206.200 nm)	14.27	0.00878 (mg/L)	8.83710	8.99
12/14/2021 15:50:09	Interf Check AB	Ag (328.068 nm)	0.14	0.05290 (mg/L)	1205.47234	0.14
12/14/2021 15:50:09	Interf Check AB	Al (308.215 nm)	0.37	266.87966 (mg/L)	688506.98405	0.37
12/14/2021 15:50:09	Interf Check AB	As (193.696 nm)	1.59	0.49055 (mg/L)	120.71315	1.56
12/14/2021 15:50:09	Interf Check AB	B (249.772 nm)	0.32	0.54076 (mg/L)	6876.72782	0.32
12/14/2021 15:50:09	Interf Check AB	Ba (413.064 nm)	0.15	0.49231 (mg/L)	3383.68071	0.14
12/14/2021 15:50:09	Interf Check AB	Be (313.042 nm)	0.43	0.50217 (mg/L)	476917.89542	0.43
12/14/2021 15:50:09	Interf Check AB	Ca (373.690 nm)	0.31	247.70778 o (mg/L)	656558.61486	0.31
12/14/2021 15:50:09	Interf Check AB	Cd (228.802 nm)	0.19	0.52418 (mg/L)	4256.67702	0.18
12/14/2021 15:50:09	Interf Check AB	Co (230.786 nm)	0.49	0.47427 (mg/L)	1606.68453	0.49
12/14/2021 15:50:09	Interf Check AB	Cr (267.716 nm)	0.33	0.48965 (mg/L)	7107.41318	0.33
12/14/2021 15:50:09	Interf Check AB	Cu (327.395 nm)	0.49	0.54314 (mg/L)	8696.31586	0.49
12/14/2021 15:50:09	Interf Check AB	Fe (238.204 nm)	0.37	94.33980 (mg/L)	652409.54935	0.37
12/14/2021 15:50:09	Interf Check AB	K (766.491 nm)	0.61	5.53893 (mg/L)	6539.12445	0.60
12/14/2021 15:50:09	Interf Check AB	Mg (279.800 nm)	0.24	262.85224 o (mg/L)	219862.83919	0.24
12/14/2021 15:50:09	Interf Check AB	Mn (257.610 nm)	0.27	0.49246 (mg/L)	49948.59037	0.27
12/14/2021 15:50:09	Interf Check AB	Mo (204.598 nm)	0.47	0.50368 (mg/L)	483.36057	0.46
12/14/2021 15:50:09	Interf Check AB	Na (589.592 nm)	0.30	5.50004 (mg/L)	44542.92404	0.30
12/14/2021 15:50:09	Interf Check AB	Ni (221.648 nm)	0.41	0.47717 (mg/L)	314.99862	0.41
12/14/2021 15:50:09	Interf Check AB	P (213.618 nm)	1.64	0.50290 (mg/L)	126.65320	1.68
12/14/2021 15:50:09	Interf Check AB	Pb (220.353 nm)	0.48	0.49276 (mg/L)	286.49388	0.48
12/14/2021 15:50:09	Interf Check AB	S (181.972 nm)	9.13	0.57207 (mg/L)	9.36963	8.20
12/14/2021 15:50:09	Interf Check AB	Sb (217.582 nm)	0.74	0.49388 (mg/L)	190.29333	0.74
12/14/2021 15:50:09	Interf Check AB	Se (196.026 nm)	1.61	0.50128 (mg/L)	139.27484	1.52
12/14/2021 15:50:09	Interf Check AB	Sn (189.925 nm)	3.10	0.49120 (mg/L)	104.83308	3.06
12/14/2021 15:50:09	Interf Check AB	Sr (407.771 nm)	0.56	0.48611 (mg/L)	939198.06552	0.56
12/14/2021 15:50:09	Interf Check AB	Ti (337.280 nm)	0.24	0.50567 (mg/L)	9425.67342	0.24
12/14/2021 15:50:09	Interf Check AB	Tl (351.923 nm)	1.04	0.54568 (mg/L)	397.50447	1.06
12/14/2021 15:50:09	Interf Check AB	V (311.837 nm)	0.14	0.49866 (mg/L)	10292.16486	0.14
12/14/2021 15:50:09	Interf Check AB	Zn (206.200 nm)	0.74	0.48618 (mg/L)	311.21565	0.73
12/14/2021 15:59:14	CRI	Ag (328.068 nm)	7.94	0.00463 (mg/L)	106.22309	7.89

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 15:59:14	CRI	Al (308.215 nm)	1.10	0.18369 (mg/L)	944.92370	0.55
12/14/2021 15:59:14	CRI	As (193.696 nm)	4.07	0.05203 (mg/L)	15.27536	3.34
12/14/2021 15:59:14	CRI	B (249.772 nm)	0.52	0.05436 (mg/L)	745.58908	0.48
12/14/2021 15:59:14	CRI	Ba (413.064 nm)	10.22	0.01095 (mg/L)	139.40877	5.41
12/14/2021 15:59:14	CRI	Be (313.042 nm)	0.50	0.00486 (mg/L)	4761.19908	0.49
12/14/2021 15:59:14	CRI	Ca (373.690 nm)	1.79	0.09513 (mg/L)	181.33766	2.50
12/14/2021 15:59:14	CRI	Cd (228.802 nm)	4.22	0.00539 (mg/L)	54.74886	3.36
12/14/2021 15:59:14	CRI	Co (230.786 nm)	0.75	0.01016 (mg/L)	35.61186	0.73
12/14/2021 15:59:14	CRI	Cr (267.716 nm)	4.41	0.00979 (mg/L)	166.49251	3.75
12/14/2021 15:59:14	CRI	Cu (327.395 nm)	1.86	0.00970 (mg/L)	165.39877	1.75
12/14/2021 15:59:14	CRI	Fe (238.204 nm)	0.63	0.10371 (mg/L)	788.35572	0.57
12/14/2021 15:59:14	CRI	K (766.491 nm)	2.05	0.46989 (mg/L)	617.86765	1.82
12/14/2021 15:59:14	CRI	Mg (279.800 nm)	3.01	0.10004 (mg/L)	88.99233	2.83
12/14/2021 15:59:14	CRI	Mn (257.610 nm)	0.24	0.00513 (mg/L)	544.07754	0.23
12/14/2021 15:59:14	CRI	Mo (204.598 nm)	4.67	0.04581 (mg/L)	46.34732	4.40
12/14/2021 15:59:14	CRI	Na (589.592 nm)	0.41	0.82015 (mg/L)	7002.07052	0.39
12/14/2021 15:59:14	CRI	Ni (221.648 nm)	6.18	0.02217 (mg/L)	16.46282	5.46
12/14/2021 15:59:14	CRI	P (213.618 nm)	3.71	0.05378 (mg/L)	11.14308	4.61
12/14/2021 15:59:14	CRI	Pb (220.353 nm)	11.90	0.01150 (mg/L)	5.83688	13.67
12/14/2021 15:59:14	CRI	S (181.972 nm)	> 100.00	0.04132 u (mg/L)	1.55969	54.83
12/14/2021 15:59:14	CRI	Sb (217.582 nm)	19.23	0.02000 (mg/L)	8.11653	18.21
12/14/2021 15:59:14	CRI	Se (196.026 nm)	18.90	0.01605 (mg/L)	11.91101	6.68
12/14/2021 15:59:14	CRI	Sn (189.925 nm)	8.36	0.05283 (mg/L)	12.51931	7.43
12/14/2021 15:59:14	CRI	Sr (407.771 nm)	0.58	0.05694 (mg/L)	110246.24439	0.58
12/14/2021 15:59:14	CRI	Ti (337.280 nm)	0.18	0.04997 (mg/L)	953.59151	0.17
12/14/2021 15:59:14	CRI	Tl (351.923 nm)	16.24	0.02156 (mg/L)	9.11841	28.46
12/14/2021 15:59:14	CRI	V (311.837 nm)	2.12	0.00876 (mg/L)	186.44732	2.06
12/14/2021 15:59:14	CRI	Zn (206.200 nm)	12.53	0.01892 (mg/L)	15.25953	9.84
12/14/2021 16:06:33	CRI-2	Ag (328.068 nm)	13.45	0.00229 (mg/L)	52.89689	13.28
12/14/2021 16:06:33	CRI-2	Al (308.215 nm)	1.68	0.09792 (mg/L)	723.82116	0.58
12/14/2021 16:06:33	CRI-2	As (193.696 nm)	6.02	0.03117 (mg/L)	10.25846	4.39
12/14/2021 16:06:33	CRI-2	B (249.772 nm)	0.47	0.02327 (mg/L)	353.70137	0.39
12/14/2021 16:06:33	CRI-2	Ba (413.064 nm)	11.56	0.00577 (mg/L)	104.47115	4.30
12/14/2021 16:06:33	CRI-2	Be (313.042 nm)	0.15	0.00254 (mg/L)	2560.81879	0.15
12/14/2021 16:06:33	CRI-2	Ca (373.690 nm)	3.49	0.08081 (mg/L)	143.38674	5.22
12/14/2021 16:06:33	CRI-2	Cd (228.802 nm)	3.39	0.00257 (mg/L)	31.95867	2.21
12/14/2021 16:06:33	CRI-2	Co (230.786 nm)	17.26	0.00552 (mg/L)	19.92237	16.20
12/14/2021 16:06:33	CRI-2	Cr (267.716 nm)	3.93	0.00455 (mg/L)	90.70898	2.85
12/14/2021 16:06:33	CRI-2	Cu (327.395 nm)	2.35	0.00497 (mg/L)	89.84904	2.08
12/14/2021 16:06:33	CRI-2	Fe (238.204 nm)	1.32	0.06115 (mg/L)	494.08593	1.13
12/14/2021 16:06:33	CRI-2	K (766.491 nm)	2.43	0.22977 (mg/L)	337.37478	1.93
12/14/2021 16:06:33	CRI-2	Mg (279.800 nm)	7.23	0.05076 (mg/L)	47.76884	6.43
12/14/2021 16:06:33	CRI-2	Mn (257.610 nm)	1.61	0.00273 (mg/L)	300.86612	1.48
12/14/2021 16:06:33	CRI-2	Mo (204.598 nm)	3.95	0.02258 (mg/L)	24.17357	3.52
12/14/2021 16:06:33	CRI-2	Na (589.592 nm)	0.39	0.37583 (mg/L)	3437.91369	0.34
12/14/2021 16:06:33	CRI-2	Ni (221.648 nm)	18.71	0.01139 (mg/L)	9.39275	14.89
12/14/2021 16:06:33	CRI-2	P (213.618 nm)	20.79	0.02443 (mg/L)	3.59417	36.34
12/14/2021 16:06:33	CRI-2	Pb (220.353 nm)	67.05	0.00607 (mg/L)	2.67152	88.86

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 16:06:33	CRI-2	S (181.972 nm)	> 100.00	0.03077 u (mg/L)	1.40439	48.31
12/14/2021 16:06:33	CRI-2	Sb (217.582 nm)	6.58	0.01135 (mg/L)	4.79188	5.99
12/14/2021 16:06:33	CRI-2	Se (196.026 nm)	11.09	0.00533 (mg/L)	9.09771	1.71
12/14/2021 16:06:33	CRI-2	Sn (189.925 nm)	43.32	0.02109 (mg/L)	5.83513	32.97
12/14/2021 16:06:33	CRI-2	Sr (407.771 nm)	0.40	0.02669 (mg/L)	51808.81359	0.40
12/14/2021 16:06:33	CRI-2	Ti (337.280 nm)	1.30	0.02512 (mg/L)	491.59304	1.23
12/14/2021 16:06:33	CRI-2	Tl (351.923 nm)	40.48	0.01490 (mg/L)	4.18399	> 100.00
12/14/2021 16:06:33	CRI-2	V (311.837 nm)	4.13	0.00358 (mg/L)	79.72034	3.83
12/14/2021 16:06:33	CRI-2	Zn (206.200 nm)	6.37	0.02226 (mg/L)	17.37117	5.17
12/14/2021 16:14:42	CRI-5	Ag (328.068 nm)	13.87	0.00078 (mg/L)	18.38432	13.35
12/14/2021 16:14:42	CRI-5	Al (308.215 nm)	5.98	0.02469 (mg/L)	535.00920	0.71
12/14/2021 16:14:42	CRI-5	As (193.696 nm)	1.23	0.01035 (mg/L)	5.25313	0.58
12/14/2021 16:14:42	CRI-5	B (249.772 nm)	2.53	0.00846 (mg/L)	167.09471	1.62
12/14/2021 16:14:42	CRI-5	Ba (413.064 nm)	65.25	0.00156 (mg/L)	76.12854	9.02
12/14/2021 16:14:42	CRI-5	Be (313.042 nm)	0.63	0.00088 (mg/L)	988.68021	0.53
12/14/2021 16:14:42	CRI-5	Ca (373.690 nm)	1.41	0.01896 (mg/L)	-20.58953	3.44
12/14/2021 16:14:42	CRI-5	Cd (228.802 nm)	23.04	0.00084 (mg/L)	17.90857	8.74
12/14/2021 16:14:42	CRI-5	Co (230.786 nm)	41.06	0.00225 (mg/L)	8.83167	35.38
12/14/2021 16:14:42	CRI-5	Cr (267.716 nm)	8.23	0.00113 (mg/L)	41.25449	3.26
12/14/2021 16:14:42	CRI-5	Cu (327.395 nm)	26.91	0.00159 (mg/L)	35.77984	19.13
12/14/2021 16:14:42	CRI-5	Fe (238.204 nm)	0.59	0.01646 (mg/L)	185.05308	0.36
12/14/2021 16:14:42	CRI-5	K (766.491 nm)	13.14	0.09337 (mg/L)	178.03666	8.05
12/14/2021 16:14:42	CRI-5	Mg (279.800 nm)	2.45	0.01957 (mg/L)	21.67841	1.85
12/14/2021 16:14:42	CRI-5	Mn (257.610 nm)	4.72	0.00095 (mg/L)	120.41419	3.79
12/14/2021 16:14:42	CRI-5	Mo (204.598 nm)	22.48	0.00741 (mg/L)	9.69658	16.39
12/14/2021 16:14:42	CRI-5	Na (589.592 nm)	0.82	0.14589 (mg/L)	1593.38956	0.60
12/14/2021 16:14:42	CRI-5	Ni (221.648 nm)	9.46	0.00433 (mg/L)	4.75965	5.65
12/14/2021 16:14:42	CRI-5	P (213.618 nm)	62.79	0.00925 (mg/L)	-0.30999	> 100.00
12/14/2021 16:14:42	CRI-5	Pb (220.353 nm)	> 100.00	0.00085 u (mg/L)	-0.37550	> 100.00
12/14/2021 16:14:42	CRI-5	S (181.972 nm)	> 100.00	0.01700 u (mg/L)	1.20179	> 100.00
12/14/2021 16:14:42	CRI-5	Sb (217.582 nm)	57.48	0.00502 (mg/L)	2.35623	47.05
12/14/2021 16:14:42	CRI-5	Se (196.026 nm)	> 100.00	-0.00115 u (mg/L)	7.39666	26.78
12/14/2021 16:14:42	CRI-5	Sn (189.925 nm)	42.51	0.00959 (mg/L)	3.41410	25.14
12/14/2021 16:14:42	CRI-5	Sr (407.771 nm)	0.89	0.00969 (mg/L)	18977.25092	0.88
12/14/2021 16:14:42	CRI-5	Ti (337.280 nm)	6.00	0.00923 (mg/L)	196.20463	5.25
12/14/2021 16:14:42	CRI-5	Tl (351.923 nm)	74.65	0.01121 (mg/L)	1.44708	> 100.00
12/14/2021 16:14:42	CRI-5	V (311.837 nm)	19.11	0.00092 (mg/L)	24.76519	14.60
12/14/2021 16:14:42	CRI-5	Zn (206.200 nm)	77.20	0.00443 (mg/L)	6.07699	35.62
12/14/2021 16:17:51	CRI-MIDLEVEL	Ag (328.068 nm)	0.12	0.09664 (mg/L)	2201.35871	0.12
12/14/2021 16:17:51	CRI-MIDLEVEL	Al (308.215 nm)	0.10	9.68060 (mg/L)	25428.65997	0.09
12/14/2021 16:17:51	CRI-MIDLEVEL	As (193.696 nm)	0.56	0.99042 (mg/L)	240.90153	0.55
12/14/2021 16:17:51	CRI-MIDLEVEL	B (249.772 nm)	0.11	0.94402 (mg/L)	11959.77272	0.11
12/14/2021 16:17:51	CRI-MIDLEVEL	Ba (413.064 nm)	0.05	0.97547 (mg/L)	6640.14765	0.05
12/14/2021 16:17:51	CRI-MIDLEVEL	Be (313.042 nm)	0.55	0.97819 (mg/L)	928853.37351	0.55
12/14/2021 16:17:51	CRI-MIDLEVEL	Ca (373.690 nm)	0.18	9.72028 (mg/L)	25695.90436	0.18
12/14/2021 16:17:51	CRI-MIDLEVEL	Cd (228.802 nm)	0.23	0.97249 (mg/L)	7887.80535	0.23
12/14/2021 16:17:51	CRI-MIDLEVEL	Co (230.786 nm)	0.12	0.98098 (mg/L)	3321.94296	0.12
12/14/2021 16:17:51	CRI-MIDLEVEL	Cr (267.716 nm)	0.14	0.98156 (mg/L)	14222.47873	0.14

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 16:17:51	CRI-MIDLEVEL	Cu (327.395 nm)	0.27	0.96706 (mg/L)	15475.83358	0.27
12/14/2021 16:17:51	CRI-MIDLEVEL	Fe (238.204 nm)	0.47	9.99057 (mg/L)	69153.76672	0.47
12/14/2021 16:17:51	CRI-MIDLEVEL	K (766.491 nm)	0.06	9.50842 (mg/L)	11175.97575	0.06
12/14/2021 16:17:51	CRI-MIDLEVEL	Mg (279.800 nm)	0.05	9.72993 (mg/L)	8143.72182	0.05
12/14/2021 16:17:51	CRI-MIDLEVEL	Mn (257.610 nm)	0.08	0.97393 (mg/L)	98759.77230	0.08
12/14/2021 16:17:51	CRI-MIDLEVEL	Mo (204.598 nm)	0.28	0.96886 (mg/L)	927.33905	0.28
12/14/2021 16:17:51	CRI-MIDLEVEL	Na (589.592 nm)	0.34	9.63675 (mg/L)	77726.47697	0.34
12/14/2021 16:17:51	CRI-MIDLEVEL	Ni (221.648 nm)	0.35	0.97877 (mg/L)	644.11428	0.35
12/14/2021 16:17:51	CRI-MIDLEVEL	P (213.618 nm)	0.83	0.97163 (mg/L)	247.20712	0.84
12/14/2021 16:17:51	CRI-MIDLEVEL	Pb (220.353 nm)	0.55	0.97714 (mg/L)	568.96494	0.55
12/14/2021 16:17:51	CRI-MIDLEVEL	S (181.972 nm)	3.17	1.08743 (mg/L)	16.95321	2.99
12/14/2021 16:17:51	CRI-MIDLEVEL	Sb (217.582 nm)	0.63	0.98556 (mg/L)	379.30975	0.62
12/14/2021 16:17:51	CRI-MIDLEVEL	Se (196.026 nm)	0.53	0.98368 (mg/L)	265.89627	0.51
12/14/2021 16:17:51	CRI-MIDLEVEL	Sn (189.925 nm)	0.96	0.98578 (mg/L)	208.98356	0.96
12/14/2021 16:17:51	CRI-MIDLEVEL	Sr (407.771 nm)	0.16	0.93166 (mg/L)	1799767.14866	0.16
12/14/2021 16:17:51	CRI-MIDLEVEL	Ti (337.280 nm)	0.12	0.97522 (mg/L)	18155.26883	0.12
12/14/2021 16:17:51	CRI-MIDLEVEL	Tl (351.923 nm)	0.93	0.98001 (mg/L)	719.36201	0.94
12/14/2021 16:17:51	CRI-MIDLEVEL	V (311.837 nm)	0.17	0.96417 (mg/L)	19894.83444	0.17
12/14/2021 16:17:51	CRI-MIDLEVEL	Zn (206.200 nm)	0.14	0.98236 (mg/L)	625.48977	0.14
12/14/2021 16:21:01	LCR 1	Ag (328.068 nm)	0.23	2.03853 (mg/L)	46424.08179	0.23
12/14/2021 16:21:01	LCR 1	Al (308.215 nm)	0.19	197.85190 (mg/L)	510548.29760	0.19
12/14/2021 16:21:01	LCR 1	As (193.696 nm)	0.08	18.91694 (mg/L)	4551.15783	0.08
12/14/2021 16:21:01	LCR 1	B (249.772 nm)	0.48	0.08854 (mg/L)	1176.42951	0.45
12/14/2021 16:21:01	LCR 1	Ba (413.064 nm)	0.18	17.56121 (mg/L)	118425.87069	0.18
12/14/2021 16:21:01	LCR 1	Be (313.042 nm)	0.56	16.14556 o (mg/L)	15328986.43284	0.56
12/14/2021 16:21:01	LCR 1	Ca (373.690 nm)	0.29	180.02648 o (mg/L)	477147.47463	0.29
12/14/2021 16:21:01	LCR 1	Cd (228.802 nm)	0.22	18.58219 (mg/L)	150517.13368	0.22
12/14/2021 16:21:01	LCR 1	Co (230.786 nm)	0.19	17.56919 (mg/L)	59475.07877	0.19
12/14/2021 16:21:01	LCR 1	Cr (267.716 nm)	0.32	17.77120 (mg/L)	257072.17960	0.32
12/14/2021 16:21:01	LCR 1	Cu (327.395 nm)	0.34	20.35874 (mg/L)	325592.70488	0.34
12/14/2021 16:21:01	LCR 1	Fe (238.204 nm)	0.58	154.43514 o (mg/L)	1067955.24287	0.58
12/14/2021 16:21:01	LCR 1	K (766.491 nm)	0.39	201.90712 o (mg/L)	235921.38390	0.39
12/14/2021 16:21:01	LCR 1	Mg (279.800 nm)	0.14	186.50557 o (mg/L)	156004.18652	0.14
12/14/2021 16:21:01	LCR 1	Mn (257.610 nm)	0.35	17.24714 (mg/L)	1748514.10099	0.35
12/14/2021 16:21:01	LCR 1	Mo (204.598 nm)	0.17	18.04496 (mg/L)	17225.39527	0.17
12/14/2021 16:21:01	LCR 1	Na (589.592 nm)	0.45	191.91156 (mg/L)	1539886.02606	0.45
12/14/2021 16:21:01	LCR 1	Ni (221.648 nm)	0.16	17.33708 (mg/L)	11377.19717	0.16
12/14/2021 16:21:01	LCR 1	P (213.618 nm)	4.33	-0.23044 u (mg/L)	-61.95608	4.14
12/14/2021 16:21:01	LCR 1	Pb (220.353 nm)	0.05	17.71459 (mg/L)	10329.68320	0.05
12/14/2021 16:21:01	LCR 1	S (181.972 nm)	89.26	0.09694 u (mg/L)	2.37812	53.54
12/14/2021 16:21:01	LCR 1	Sb (217.582 nm)	0.05	19.07790 (mg/L)	7334.63014	0.05
12/14/2021 16:21:01	LCR 1	Se (196.026 nm)	0.25	18.47411 (mg/L)	4856.82212	0.25
12/14/2021 16:21:01	LCR 1	Sn (189.925 nm)	0.03	17.84988 (mg/L)	3760.27368	0.03
12/14/2021 16:21:01	LCR 1	Sr (407.771 nm)	1.41	-0.00030 u (mg/L)	-316.68689	2.58
12/14/2021 16:21:01	LCR 1	Ti (337.280 nm)	0.27	18.07366 (mg/L)	336037.46934	0.27
12/14/2021 16:21:01	LCR 1	Tl (351.923 nm)	0.24	20.43904 (mg/L)	15139.08480	0.24
12/14/2021 16:21:01	LCR 1	V (311.837 nm)	0.40	18.52471 (mg/L)	382135.81317	0.40
12/14/2021 16:21:01	LCR 1	Zn (206.200 nm)	0.25	16.97743 (mg/L)	10756.57382	0.25

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 16:28:24	LCR 2	Ag (328.068 nm)	0.37	1.02256 (mg/L)	23287.34323	0.37
12/14/2021 16:28:24	LCR 2	Al (308.215 nm)	0.32	100.15045 (mg/L)	258666.68687	0.32
12/14/2021 16:28:24	LCR 2	As (193.696 nm)	0.69	9.76175 (mg/L)	2349.88203	0.69
12/14/2021 16:28:24	LCR 2	B (249.772 nm)	0.90	0.04983 (mg/L)	688.46863	0.82
12/14/2021 16:28:24	LCR 2	Ba (413.064 nm)	0.20	9.30102 (mg/L)	62753.23059	0.20
12/14/2021 16:28:24	LCR 2	Be (313.042 nm)	0.46	8.91307 (mg/L)	8462354.29616	0.46
12/14/2021 16:28:24	LCR 2	Ca (373.690 nm)	0.40	94.00502 (mg/L)	249119.81189	0.40
12/14/2021 16:28:24	LCR 2	Cd (228.802 nm)	0.78	9.65450 (mg/L)	78207.51971	0.78
12/14/2021 16:28:24	LCR 2	Co (230.786 nm)	0.30	9.26010 (mg/L)	31347.80446	0.30
12/14/2021 16:28:24	LCR 2	Cr (267.716 nm)	0.22	9.31055 (mg/L)	134695.21490	0.22
12/14/2021 16:28:24	LCR 2	Cu (327.395 nm)	0.53	10.07987 (mg/L)	161210.35123	0.53
12/14/2021 16:28:24	LCR 2	Fe (238.204 nm)	0.57	87.44965 (mg/L)	604765.76758	0.57
12/14/2021 16:28:24	LCR 2	K (766.491 nm)	0.44	101.29955 (mg/L)	118399.33875	0.44
12/14/2021 16:28:24	LCR 2	Mg (279.800 nm)	0.26	96.01354 (mg/L)	80313.93062	0.26
12/14/2021 16:28:24	LCR 2	Mn (257.610 nm)	0.18	9.17134 (mg/L)	929801.26172	0.18
12/14/2021 16:28:24	LCR 2	Mo (204.598 nm)	0.49	9.43038 (mg/L)	9003.32734	0.49
12/14/2021 16:28:24	LCR 2	Na (589.592 nm)	0.31	97.33082 (mg/L)	781184.74851	0.31
12/14/2021 16:28:24	LCR 2	Ni (221.648 nm)	0.40	9.24682 (mg/L)	6068.97988	0.40
12/14/2021 16:28:24	LCR 2	P (213.618 nm)	4.85	-0.10911 u (mg/L)	-30.75090	4.43
12/14/2021 16:28:24	LCR 2	Pb (220.353 nm)	0.28	9.35345 (mg/L)	5453.74660	0.28
12/14/2021 16:28:24	LCR 2	S (181.972 nm)	> 100.00	-0.01975 u (mg/L)	0.66107	96.15
12/14/2021 16:28:24	LCR 2	Sb (217.582 nm)	0.34	9.82610 (mg/L)	3777.91809	0.34
12/14/2021 16:28:24	LCR 2	Se (196.026 nm)	0.30	9.75571 (mg/L)	2568.39773	0.30
12/14/2021 16:28:24	LCR 2	Sn (189.925 nm)	0.59	9.42552 (mg/L)	1986.24930	0.59
12/14/2021 16:28:24	LCR 2	Sr (407.771 nm)	0.51	-0.00063 u (mg/L)	-961.11741	0.65
12/14/2021 16:28:24	LCR 2	Ti (337.280 nm)	0.32	9.43377 (mg/L)	175410.70131	0.32
12/14/2021 16:28:24	LCR 2	Tl (351.923 nm)	0.41	10.14792 (mg/L)	7513.05483	0.41
12/14/2021 16:28:24	LCR 2	V (311.837 nm)	0.29	9.56434 (mg/L)	197300.20461	0.29
12/14/2021 16:28:24	LCR 2	Zn (206.200 nm)	0.31	9.20192 (mg/L)	5831.65598	0.31
12/14/2021 16:35:36	LCR 3	Ag (328.068 nm)	0.37	0.46636 (mg/L)	10620.99580	0.37
12/14/2021 16:35:36	LCR 3	Al (308.215 nm)	0.46	47.71541 (mg/L)	123485.23106	0.46
12/14/2021 16:35:36	LCR 3	As (193.696 nm)	0.85	4.76735 (mg/L)	1149.02623	0.85
12/14/2021 16:35:36	LCR 3	B (249.772 nm)	1.95	0.02346 (mg/L)	356.18087	1.62
12/14/2021 16:35:36	LCR 3	Ba (413.064 nm)	0.44	4.56662 (mg/L)	30844.00035	0.44
12/14/2021 16:35:36	LCR 3	Be (313.042 nm)	0.21	4.55482 (mg/L)	4324566.64026	0.21
12/14/2021 16:35:36	LCR 3	Ca (373.690 nm)	0.44	45.69809 (mg/L)	121066.70675	0.44
12/14/2021 16:35:36	LCR 3	Cd (228.802 nm)	0.67	4.67738 (mg/L)	37895.39981	0.67
12/14/2021 16:35:36	LCR 3	Co (230.786 nm)	0.28	4.58934 (mg/L)	15536.70132	0.28
12/14/2021 16:35:36	LCR 3	Cr (267.716 nm)	0.50	4.61483 (mg/L)	66774.98322	0.50
12/14/2021 16:35:36	LCR 3	Cu (327.395 nm)	0.99	4.73363 (mg/L)	75711.84663	0.99
12/14/2021 16:35:36	LCR 3	Fe (238.204 nm)	0.90	45.04331 (mg/L)	311535.53386	0.90
12/14/2021 16:35:36	LCR 3	K (766.491 nm)	0.24	47.67555 (mg/L)	55759.88747	0.24
12/14/2021 16:35:36	LCR 3	Mg (279.800 nm)	0.46	46.36084 (mg/L)	38782.91833	0.46
12/14/2021 16:35:36	LCR 3	Mn (257.610 nm)	0.35	4.56711 (mg/L)	463031.19947	0.35
12/14/2021 16:35:36	LCR 3	Mo (204.598 nm)	0.37	4.63157 (mg/L)	4423.17098	0.37
12/14/2021 16:35:36	LCR 3	Na (589.592 nm)	0.33	47.28140 (mg/L)	379701.74783	0.33
12/14/2021 16:35:36	LCR 3	Ni (221.648 nm)	0.55	4.59347 (mg/L)	3015.80645	0.55
12/14/2021 16:35:36	LCR 3	P (213.618 nm)	13.77	-0.06759 u (mg/L)	-20.07147	11.93

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 16:35:36	LCR 3	Pb (220.353 nm)	0.42	4.60134 (mg/L)	2682.48093	0.42
12/14/2021 16:35:36	LCR 3	S (181.972 nm)	> 100.00	-0.02416 u (mg/L)	0.59609	> 100.00
12/14/2021 16:35:36	LCR 3	Sb (217.582 nm)	0.52	4.75196 (mg/L)	1827.24345	0.52
12/14/2021 16:35:36	LCR 3	Se (196.026 nm)	0.22	4.78441 (mg/L)	1263.52083	0.22
12/14/2021 16:35:36	LCR 3	Sn (189.925 nm)	0.47	4.61458 (mg/L)	973.14697	0.47
12/14/2021 16:35:36	LCR 3	Sr (407.771 nm)	0.79	-0.00055 u (mg/L)	-800.86917	1.05
12/14/2021 16:35:36	LCR 3	Ti (337.280 nm)	0.38	4.61508 (mg/L)	85825.05626	0.38
12/14/2021 16:35:36	LCR 3	Tl (351.923 nm)	0.46	4.79911 (mg/L)	3549.42697	0.46
12/14/2021 16:35:36	LCR 3	V (311.837 nm)	0.29	4.64212 (mg/L)	95764.04511	0.29
12/14/2021 16:35:36	LCR 3	Zn (206.200 nm)	0.36	4.59396 (mg/L)	2913.03398	0.36
12/14/2021 16:43:12	LCR-Pb-Inhouse	Ag (328.068 nm)	61.06	0.00029 (mg/L)	7.26070	55.35
12/14/2021 16:43:12	LCR-Pb-Inhouse	Al (308.215 nm)	4.95	-0.06336 u (mg/L)	308.02904	2.63
12/14/2021 16:43:12	LCR-Pb-Inhouse	As (193.696 nm)	86.09	0.01255 (mg/L)	5.78213	44.93
12/14/2021 16:43:12	LCR-Pb-Inhouse	B (249.772 nm)	0.76	85.17608 o (mg/L)	1073708.40851	0.76
12/14/2021 16:43:12	LCR-Pb-Inhouse	Ba (413.064 nm)	48.24	0.00118 (mg/L)	73.54876	5.21
12/14/2021 16:43:12	LCR-Pb-Inhouse	Be (313.042 nm)	6.50	0.00005 (mg/L)	193.31658	1.47
12/14/2021 16:43:12	LCR-Pb-Inhouse	Ca (373.690 nm)	17.53	0.01575 (mg/L)	-29.08439	25.17
12/14/2021 16:43:12	LCR-Pb-Inhouse	Cd (228.802 nm)	69.75	-0.00047 u (mg/L)	7.32316	36.10
12/14/2021 16:43:12	LCR-Pb-Inhouse	Co (230.786 nm)	52.40	0.00019 (mg/L)	1.85930	17.96
12/14/2021 16:43:12	LCR-Pb-Inhouse	Cr (267.716 nm)	7.69	0.00200 (mg/L)	53.87633	4.13
12/14/2021 16:43:12	LCR-Pb-Inhouse	Cu (327.395 nm)	> 100.00	0.00005 u (mg/L)	11.20307	22.79
12/14/2021 16:43:12	LCR-Pb-Inhouse	Fe (238.204 nm)	10.04	-0.00195 u (mg/L)	57.74180	2.34
12/14/2021 16:43:12	LCR-Pb-Inhouse	K (766.491 nm)	40.18	0.05136 (mg/L)	128.96306	18.69
12/14/2021 16:43:12	LCR-Pb-Inhouse	Mg (279.800 nm)	79.13	0.00192 (mg/L)	6.92082	18.38
12/14/2021 16:43:12	LCR-Pb-Inhouse	Mn (257.610 nm)	6.34	0.00027 (mg/L)	51.72933	3.42
12/14/2021 16:43:12	LCR-Pb-Inhouse	Mo (204.598 nm)	75.70	0.00109 (mg/L)	3.66198	21.41
12/14/2021 16:43:12	LCR-Pb-Inhouse	Na (589.592 nm)	> 100.00	-0.00117 u (mg/L)	413.69811	2.39
12/14/2021 16:43:12	LCR-Pb-Inhouse	Ni (221.648 nm)	> 100.00	0.00076 u (mg/L)	2.41830	83.20
12/14/2021 16:43:12	LCR-Pb-Inhouse	P (213.618 nm)	0.50	90.54859 o (mg/L)	23285.59064	0.50
12/14/2021 16:43:12	LCR-Pb-Inhouse	Pb (220.353 nm)	0.39	194.49622 o (mg/L)	113422.79984	0.39
12/14/2021 16:43:12	LCR-Pb-Inhouse	S (181.972 nm)	0.23	98.03034 o (mg/L)	1443.47356	0.23
12/14/2021 16:43:12	LCR-Pb-Inhouse	Sb (217.582 nm)	19.94	0.03091 (mg/L)	12.30995	19.25
12/14/2021 16:43:12	LCR-Pb-Inhouse	Se (196.026 nm)	> 100.00	-0.00200 u (mg/L)	7.17379	30.56
12/14/2021 16:43:12	LCR-Pb-Inhouse	Sn (189.925 nm)	> 100.00	0.00029 u (mg/L)	1.45670	49.75
12/14/2021 16:43:12	LCR-Pb-Inhouse	Sr (407.771 nm)	0.71	8.13337 (mg/L)	15709928.57501	0.71
12/14/2021 16:43:12	LCR-Pb-Inhouse	Ti (337.280 nm)	> 100.00	0.00026 u (mg/L)	29.44235	17.51
12/14/2021 16:43:12	LCR-Pb-Inhouse	Tl (351.923 nm)	28.02	-0.01436 u (mg/L)	-17.49585	17.04
12/14/2021 16:43:12	LCR-Pb-Inhouse	V (311.837 nm)	56.76	-0.00011 u (mg/L)	3.67025	33.59
12/14/2021 16:43:12	LCR-Pb-Inhouse	Zn (206.200 nm)	60.27	0.00404 (mg/L)	5.83351	26.45
12/14/2021 16:50:15	MB-327304	Ag (328.068 nm)	15.25	0.00010 (mg/L)	2.95177	11.74
12/14/2021 16:50:15	MB-327304	Al (308.215 nm)	13.03	-0.01088 u (mg/L)	443.32385	0.82
12/14/2021 16:50:15	MB-327304	As (193.696 nm)	46.71	0.01076 (mg/L)	5.35177	22.58
12/14/2021 16:50:15	MB-327304	B (249.772 nm)	5.03	0.03322 (mg/L)	479.16571	4.40
12/14/2021 16:50:15	MB-327304	Ba (413.064 nm)	> 100.00	0.00068 u (mg/L)	70.17072	7.50
12/14/2021 16:50:15	MB-327304	Be (313.042 nm)	47.92	0.00000 (mg/L)	154.28681	1.43
12/14/2021 16:50:15	MB-327304	Ca (373.690 nm)	45.23	0.00578 (mg/L)	-55.50790	12.49
12/14/2021 16:50:15	MB-327304	Cd (228.802 nm)	> 100.00	0.00030 u (mg/L)	13.54126	25.71
12/14/2021 16:50:15	MB-327304	Co (230.786 nm)	41.38	0.00047 (mg/L)	2.82085	23.46

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 16:50:15	MB-327304	Cr (267.716 nm)	95.15	0.00032 (mg/L)	29.62593	15.04
12/14/2021 16:50:15	MB-327304	Cu (327.395 nm)	73.70	-0.00026 u (mg/L)	6.20666	49.17
12/14/2021 16:50:15	MB-327304	Fe (238.204 nm)	66.45	-0.00075 u (mg/L)	66.06916	5.19
12/14/2021 16:50:15	MB-327304	K (766.491 nm)	15.27	0.11018 (mg/L)	197.67271	9.94
12/14/2021 16:50:15	MB-327304	Mg (279.800 nm)	> 100.00	-0.00125 u (mg/L)	4.26750	57.89
12/14/2021 16:50:15	MB-327304	Mn (257.610 nm)	17.63	0.00015 (mg/L)	39.02257	6.84
12/14/2021 16:50:15	MB-327304	Mo (204.598 nm)	80.47	-0.00095 u (mg/L)	1.72394	42.12
12/14/2021 16:50:15	MB-327304	Na (589.592 nm)	9.84	0.01353 (mg/L)	531.61378	2.01
12/14/2021 16:50:15	MB-327304	Ni (221.648 nm)	51.86	0.00045 (mg/L)	2.21485	6.96
12/14/2021 16:50:15	MB-327304	P (213.618 nm)	48.72	0.00818 (mg/L)	-0.58403	> 100.00
12/14/2021 16:50:15	MB-327304	Pb (220.353 nm)	92.84	0.00257 (mg/L)	0.62898	> 100.00
12/14/2021 16:50:15	MB-327304	S (181.972 nm)	> 100.00	0.01122 u (mg/L)	1.11670	64.88
12/14/2021 16:50:15	MB-327304	Sb (217.582 nm)	> 100.00	-0.00030 u (mg/L)	0.31271	> 100.00
12/14/2021 16:50:15	MB-327304	Se (196.026 nm)	> 100.00	0.00295 u (mg/L)	8.47368	13.49
12/14/2021 16:50:15	MB-327304	Sn (189.925 nm)	21.28	0.02021 (mg/L)	5.65125	16.03
12/14/2021 16:50:15	MB-327304	Sr (407.771 nm)	79.10	0.00002 (mg/L)	293.97234	8.11
12/14/2021 16:50:15	MB-327304	Ti (337.280 nm)	19.28	0.00138 (mg/L)	50.31891	9.83
12/14/2021 16:50:15	MB-327304	Tl (351.923 nm)	> 100.00	-0.00160 u (mg/L)	-8.04033	37.47
12/14/2021 16:50:15	MB-327304	V (311.837 nm)	> 100.00	-0.00006 u (mg/L)	4.70112	87.44
12/14/2021 16:50:15	MB-327304	Zn (206.200 nm)	> 100.00	0.00019 u (mg/L)	3.39060	10.62
12/14/2021 16:53:26	LCS-327304	Ag (328.068 nm)	0.07	0.09412 (mg/L)	2144.01742	0.07
12/14/2021 16:53:26	LCS-327304	Al (308.215 nm)	0.23	9.42648 (mg/L)	24773.53134	0.23
12/14/2021 16:53:26	LCS-327304	As (193.696 nm)	0.72	0.95053 (mg/L)	231.31025	0.71
12/14/2021 16:53:26	LCS-327304	B (249.772 nm)	0.08	0.91139 (mg/L)	11548.54998	0.08
12/14/2021 16:53:26	LCS-327304	Ba (413.064 nm)	0.14	0.97533 (mg/L)	6639.17094	0.13
12/14/2021 16:53:26	LCS-327304	Be (313.042 nm)	0.41	0.97931 (mg/L)	929922.27082	0.41
12/14/2021 16:53:26	LCS-327304	Ca (373.690 nm)	0.33	9.70940 (mg/L)	25667.05227	0.33
12/14/2021 16:53:26	LCS-327304	Cd (228.802 nm)	0.38	0.95190 (mg/L)	7720.98798	0.38
12/14/2021 16:53:26	LCS-327304	Co (230.786 nm)	0.39	0.97725 (mg/L)	3309.32547	0.39
12/14/2021 16:53:26	LCS-327304	Cr (267.716 nm)	0.15	0.98200 (mg/L)	14228.77615	0.15
12/14/2021 16:53:26	LCS-327304	Cu (327.395 nm)	0.67	0.99758 (mg/L)	15963.92647	0.67
12/14/2021 16:53:26	LCS-327304	Fe (238.204 nm)	0.09	9.92494 (mg/L)	68699.96660	0.09
12/14/2021 16:53:26	LCS-327304	K (766.491 nm)	0.20	9.46877 (mg/L)	11129.65772	0.20
12/14/2021 16:53:26	LCS-327304	Mg (279.800 nm)	0.12	9.54017 (mg/L)	7984.99744	0.12
12/14/2021 16:53:26	LCS-327304	Mn (257.610 nm)	0.27	0.97038 (mg/L)	98399.33096	0.27
12/14/2021 16:53:26	LCS-327304	Mo (204.598 nm)	0.46	0.97687 (mg/L)	934.98909	0.46
12/14/2021 16:53:26	LCS-327304	Na (589.592 nm)	0.28	9.61363 (mg/L)	77541.05975	0.27
12/14/2021 16:53:26	LCS-327304	Ni (221.648 nm)	0.52	0.97274 (mg/L)	640.15740	0.52
12/14/2021 16:53:26	LCS-327304	P (213.618 nm)	0.65	0.89101 (mg/L)	226.47162	0.66
12/14/2021 16:53:26	LCS-327304	Pb (220.353 nm)	0.14	0.95946 (mg/L)	558.65582	0.14
12/14/2021 16:53:26	LCS-327304	S (181.972 nm)	1.48	0.95013 (mg/L)	14.93278	1.38
12/14/2021 16:53:26	LCS-327304	Sb (217.582 nm)	0.71	0.94164 (mg/L)	362.42669	0.70
12/14/2021 16:53:26	LCS-327304	Se (196.026 nm)	0.61	0.86140 (mg/L)	233.80034	0.59
12/14/2021 16:53:26	LCS-327304	Sn (189.925 nm)	0.55	0.97684 (mg/L)	207.10149	0.54
12/14/2021 16:53:26	LCS-327304	Sr (407.771 nm)	0.20	0.94321 (mg/L)	1822077.54064	0.20
12/14/2021 16:53:26	LCS-327304	Ti (337.280 nm)	0.19	0.98067 (mg/L)	18256.64896	0.19
12/14/2021 16:53:26	LCS-327304	Tl (351.923 nm)	1.45	0.94302 (mg/L)	691.94552	1.47
12/14/2021 16:53:26	LCS-327304	V (311.837 nm)	0.21	0.96599 (mg/L)	19932.48935	0.21

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 16:53:26	LCS-327304	Zn (206.200 nm)	0.49	0.95627 (mg/L)	608.96357	0.49
12/14/2021 16:56:38	Cont Calib Verif	Ag (328.068 nm)	0.36	0.09645 (mg/L)	2197.02914	0.36
12/14/2021 16:56:38	Cont Calib Verif	Al (308.215 nm)	0.09	9.62099 (mg/L)	25274.99671	0.09
12/14/2021 16:56:38	Cont Calib Verif	As (193.696 nm)	0.43	0.98648 (mg/L)	239.95339	0.42
12/14/2021 16:56:38	Cont Calib Verif	B (249.772 nm)	0.14	0.95023 (mg/L)	12038.07977	0.14
12/14/2021 16:56:38	Cont Calib Verif	Ba (413.064 nm)	0.06	0.97989 (mg/L)	6669.94726	0.06
12/14/2021 16:56:38	Cont Calib Verif	Be (313.042 nm)	0.42	0.98715 (mg/L)	937365.79796	0.42
12/14/2021 16:56:38	Cont Calib Verif	Ca (373.690 nm)	0.01	9.73364 (mg/L)	25731.32006	0.01
12/14/2021 16:56:38	Cont Calib Verif	Cd (228.802 nm)	0.17	0.96939 (mg/L)	7862.63900	0.17
12/14/2021 16:56:38	Cont Calib Verif	Co (230.786 nm)	0.18	0.98300 (mg/L)	3328.78814	0.18
12/14/2021 16:56:38	Cont Calib Verif	Cr (267.716 nm)	0.20	0.98070 (mg/L)	14210.05687	0.20
12/14/2021 16:56:38	Cont Calib Verif	Cu (327.395 nm)	0.41	0.95875 (mg/L)	15342.89459	0.41
12/14/2021 16:56:38	Cont Calib Verif	Fe (238.204 nm)	0.21	9.98930 (mg/L)	69144.95135	0.21
12/14/2021 16:56:38	Cont Calib Verif	K (766.491 nm)	0.24	9.47216 (mg/L)	11133.62363	0.23
12/14/2021 16:56:38	Cont Calib Verif	Mg (279.800 nm)	0.15	9.74832 (mg/L)	8159.10302	0.15
12/14/2021 16:56:38	Cont Calib Verif	Mn (257.610 nm)	0.07	0.97486 (mg/L)	98853.76252	0.07
12/14/2021 16:56:38	Cont Calib Verif	Mo (204.598 nm)	0.37	0.97371 (mg/L)	931.97494	0.37
12/14/2021 16:56:38	Cont Calib Verif	Na (589.592 nm)	0.26	9.53739 (mg/L)	76929.46288	0.26
12/14/2021 16:56:38	Cont Calib Verif	Ni (221.648 nm)	0.35	0.98080 (mg/L)	645.44427	0.35
12/14/2021 16:56:38	Cont Calib Verif	P (213.618 nm)	0.72	0.96074 (mg/L)	244.40637	0.73
12/14/2021 16:56:38	Cont Calib Verif	Pb (220.353 nm)	0.17	0.97680 (mg/L)	568.76519	0.17
12/14/2021 16:56:38	Cont Calib Verif	S (181.972 nm)	8.67	1.09914 (mg/L)	17.12558	8.19
12/14/2021 16:56:38	Cont Calib Verif	Sb (217.582 nm)	0.47	0.98380 (mg/L)	378.63579	0.47
12/14/2021 16:56:38	Cont Calib Verif	Se (196.026 nm)	0.64	0.98879 (mg/L)	267.23914	0.62
12/14/2021 16:56:38	Cont Calib Verif	Sn (189.925 nm)	0.52	0.97890 (mg/L)	207.53513	0.51
12/14/2021 16:56:38	Cont Calib Verif	Sr (407.771 nm)	0.28	0.93159 (mg/L)	1799640.47399	0.28
12/14/2021 16:56:38	Cont Calib Verif	Ti (337.280 nm)	0.08	0.97526 (mg/L)	18156.06651	0.08
12/14/2021 16:56:38	Cont Calib Verif	Tl (351.923 nm)	0.97	0.96642 (mg/L)	709.28571	0.98
12/14/2021 16:56:38	Cont Calib Verif	V (311.837 nm)	0.03	0.96294 (mg/L)	19869.53753	0.03
12/14/2021 16:56:38	Cont Calib Verif	Zn (206.200 nm)	0.35	0.99236 (mg/L)	631.81969	0.35
12/14/2021 16:59:51	Cont Calib Blank	Ag (328.068 nm)	41.87	0.00009 (mg/L)	2.83002	31.82
12/14/2021 16:59:51	Cont Calib Blank	Al (308.215 nm)	4.95	-0.05602 u (mg/L)	326.93651	2.19
12/14/2021 16:59:51	Cont Calib Blank	As (193.696 nm)	35.40	0.00987 (mg/L)	5.13801	16.35
12/14/2021 16:59:51	Cont Calib Blank	B (249.772 nm)	4.78	0.00710 (mg/L)	149.90472	2.85
12/14/2021 16:59:51	Cont Calib Blank	Ba (413.064 nm)	35.01	0.00102 (mg/L)	72.45752	3.31
12/14/2021 16:59:51	Cont Calib Blank	Be (313.042 nm)	> 100.00	0.00000 u (mg/L)	153.00105	5.58
12/14/2021 16:59:51	Cont Calib Blank	Ca (373.690 nm)	89.79	-0.00286 u (mg/L)	-78.41549	8.68
12/14/2021 16:59:51	Cont Calib Blank	Cd (228.802 nm)	> 100.00	-0.00017 u (mg/L)	9.75805	14.84
12/14/2021 16:59:51	Cont Calib Blank	Co (230.786 nm)	> 100.00	0.00015 u (mg/L)	1.72048	79.31
12/14/2021 16:59:51	Cont Calib Blank	Cr (267.716 nm)	14.89	-0.00061 u (mg/L)	16.11700	8.16
12/14/2021 16:59:51	Cont Calib Blank	Cu (327.395 nm)	48.37	-0.00023 u (mg/L)	6.60608	27.40
12/14/2021 16:59:51	Cont Calib Blank	Fe (238.204 nm)	8.48	-0.00418 u (mg/L)	42.28944	5.80
12/14/2021 16:59:51	Cont Calib Blank	K (766.491 nm)	13.20	0.05288 (mg/L)	130.74159	6.24
12/14/2021 16:59:51	Cont Calib Blank	Mg (279.800 nm)	> 100.00	0.00125 u (mg/L)	6.36284	35.57
12/14/2021 16:59:51	Cont Calib Blank	Mn (257.610 nm)	93.23	0.00005 (mg/L)	28.46631	15.02
12/14/2021 16:59:51	Cont Calib Blank	Mo (204.598 nm)	48.98	0.00223 (mg/L)	4.75435	21.93
12/14/2021 16:59:51	Cont Calib Blank	Na (589.592 nm)	5.20	0.01061 (mg/L)	508.21702	0.87
12/14/2021 16:59:51	Cont Calib Blank	Ni (221.648 nm)	83.92	0.00176 (mg/L)	3.07057	31.51

211214A.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 16:59:51	Cont Calib Blank	P (213.618 nm)	73.53	-0.00742 u (mg/L)	-4.59590	30.53
12/14/2021 16:59:51	Cont Calib Blank	Pb (220.353 nm)	41.64	0.00092 (mg/L)	-0.32967	68.12
12/14/2021 16:59:51	Cont Calib Blank	S (181.972 nm)	> 100.00	0.01682 u (mg/L)	1.19911	21.75
12/14/2021 16:59:51	Cont Calib Blank	Sb (217.582 nm)	> 100.00	0.00015 u (mg/L)	0.48513	> 100.00
12/14/2021 16:59:51	Cont Calib Blank	Se (196.026 nm)	> 100.00	-0.00081 u (mg/L)	7.48648	4.98
12/14/2021 16:59:51	Cont Calib Blank	Sn (189.925 nm)	> 100.00	0.00702 (mg/L)	2.87302	52.34
12/14/2021 16:59:51	Cont Calib Blank	Sr (407.771 nm)	> 100.00	0.00000 u (mg/L)	258.38416	11.60
12/14/2021 16:59:51	Cont Calib Blank	Ti (337.280 nm)	31.08	0.00053 (mg/L)	34.42030	8.81
12/14/2021 16:59:51	Cont Calib Blank	Tl (351.923 nm)	> 100.00	0.00340 u (mg/L)	-4.33586	> 100.00
12/14/2021 16:59:51	Cont Calib Blank	V (311.837 nm)	> 100.00	0.00014 u (mg/L)	8.68860	45.76
12/14/2021 16:59:51	Cont Calib Blank	Zn (206.200 nm)	> 100.00	-0.00039 u (mg/L)	3.02855	13.23
12/14/2021 17:03:03	2112G62-006E	Ag (328.068 nm)	13.91	0.00024 (mg/L)	6.22403	12.39
12/14/2021 17:03:03	2112G62-006E	Al (308.215 nm)	0.76	84.17251 (mg/L)	217474.35870	0.76
12/14/2021 17:03:03	2112G62-006E	As (193.696 nm)	> 100.00	0.00313 u (mg/L)	3.51764	33.06
12/14/2021 17:03:03	2112G62-006E	B (249.772 nm)	0.76	0.12724 (mg/L)	1664.22402	0.73
12/14/2021 17:03:03	2112G62-006E	Ba (413.064 nm)	0.71	0.87940 (mg/L)	5992.62688	0.70
12/14/2021 17:03:03	2112G62-006E	Be (313.042 nm)	1.93	0.00118 (mg/L)	1269.17600	1.70
12/14/2021 17:03:03	2112G62-006E	Ca (373.690 nm)	0.58	21.64868 (mg/L)	57315.98149	0.58
12/14/2021 17:03:03	2112G62-006E	Cd (228.802 nm)	8.15	0.00249 (mg/L)	31.24433	5.25
12/14/2021 17:03:03	2112G62-006E	Co (230.786 nm)	0.54	0.61392 (mg/L)	2079.41968	0.54
12/14/2021 17:03:03	2112G62-006E	Cr (267.716 nm)	0.68	0.19182 (mg/L)	2799.45178	0.68
12/14/2021 17:03:03	2112G62-006E	Cu (327.395 nm)	0.86	0.35589 (mg/L)	5701.84513	0.85
12/14/2021 17:03:03	2112G62-006E	Fe (238.204 nm)	0.37	145.41625 o (mg/L)	1005591.66030	0.37
12/14/2021 17:03:03	2112G62-006E	K (766.491 nm)	0.51	22.89281 (mg/L)	26810.60042	0.51
12/14/2021 17:03:03	2112G62-006E	Mg (279.800 nm)	0.51	25.76617 (mg/L)	21556.91158	0.51
12/14/2021 17:03:03	2112G62-006E	Mn (257.610 nm)	0.65	3.37999 (mg/L)	342682.12823	0.65
12/14/2021 17:03:03	2112G62-006E	Mo (204.598 nm)	7.16	0.01527 (mg/L)	17.19847	6.07
12/14/2021 17:03:03	2112G62-006E	Na (589.592 nm)	0.79	2.83198 (mg/L)	23140.45261	0.77
12/14/2021 17:03:03	2112G62-006E	Ni (221.648 nm)	1.00	0.97033 (mg/L)	638.57744	1.00
12/14/2021 17:03:03	2112G62-006E	P (213.618 nm)	0.36	3.43352 (mg/L)	880.38273	0.36
12/14/2021 17:03:03	2112G62-006E	Pb (220.353 nm)	1.87	0.09611 (mg/L)	55.17778	1.90
12/14/2021 17:03:03	2112G62-006E	S (181.972 nm)	2.67	2.48522 (mg/L)	37.52177	2.60
12/14/2021 17:03:03	2112G62-006E	Sb (217.582 nm)	7.80	0.05539 (mg/L)	21.72323	7.65
12/14/2021 17:03:03	2112G62-006E	Se (196.026 nm)	33.39	0.01996 (mg/L)	12.93784	13.52
12/14/2021 17:03:03	2112G62-006E	Sn (189.925 nm)	8.42	0.04959 (mg/L)	11.83810	7.43
12/14/2021 17:03:03	2112G62-006E	Sr (407.771 nm)	0.59	0.12416 (mg/L)	240085.39116	0.59
12/14/2021 17:03:03	2112G62-006E	Ti (337.280 nm)	0.70	5.63171 (mg/L)	104725.39356	0.70
12/14/2021 17:03:03	2112G62-006E	Tl (351.923 nm)	79.04	-0.00242 u (mg/L)	-8.64797	16.36
12/14/2021 17:03:03	2112G62-006E	V (311.837 nm)	0.61	0.26449 (mg/L)	5461.68372	0.61
12/14/2021 17:03:03	2112G62-006E	Zn (206.200 nm)	0.50	5.25349 (mg/L)	3330.76869	0.50
12/14/2021 17:06:14	2112G62-006EMS	Ag (328.068 nm)	0.19	0.08945 (mg/L)	2037.79299	0.19
12/14/2021 17:06:14	2112G62-006EMS	Al (308.215 nm)	0.24	112.46799 (mg/L)	290422.20416	0.23
12/14/2021 17:06:14	2112G62-006EMS	As (193.696 nm)	0.55	0.88803 (mg/L)	216.28240	0.55
12/14/2021 17:06:14	2112G62-006EMS	B (249.772 nm)	0.06	0.97492 (mg/L)	12349.29372	0.06
12/14/2021 17:06:14	2112G62-006EMS	Ba (413.064 nm)	0.26	1.67921 (mg/L)	11383.27629	0.26
12/14/2021 17:06:14	2112G62-006EMS	Be (313.042 nm)	0.49	0.92679 (mg/L)	880056.60960	0.49
12/14/2021 17:06:14	2112G62-006EMS	Ca (373.690 nm)	0.03	40.72905 (mg/L)	107894.67274	0.03
12/14/2021 17:06:14	2112G62-006EMS	Cd (228.802 nm)	0.17	0.90150 (mg/L)	7312.80448	0.17

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 17:06:14	2112G62-006EMS	Co (230.786 nm)	0.10	1.53483 (mg/L)	5196.81044	0.10
12/14/2021 17:06:14	2112G62-006EMS	Cr (267.716 nm)	0.19	1.04507 (mg/L)	15141.09758	0.19
12/14/2021 17:06:14	2112G62-006EMS	Cu (327.395 nm)	0.10	1.66627 (mg/L)	26657.75912	0.10
12/14/2021 17:06:14	2112G62-006EMS	Fe (238.204 nm)	0.25	164.41913 o (mg/L)	1136992.25370	0.25
12/14/2021 17:06:14	2112G62-006EMS	K (766.491 nm)	0.24	37.82159 (mg/L)	44249.24771	0.24
12/14/2021 17:06:14	2112G62-006EMS	Mg (279.800 nm)	0.25	37.84037 (mg/L)	31656.13494	0.25
12/14/2021 17:06:14	2112G62-006EMS	Mn (257.610 nm)	0.24	4.00244 (mg/L)	405785.76116	0.24
12/14/2021 17:06:14	2112G62-006EMS	Mo (204.598 nm)	0.78	0.89102 (mg/L)	853.04508	0.77
12/14/2021 17:06:14	2112G62-006EMS	Na (589.592 nm)	0.19	12.01723 (mg/L)	96822.02450	0.19
12/14/2021 17:06:14	2112G62-006EMS	Ni (221.648 nm)	0.38	1.90928 (mg/L)	1254.63991	0.38
12/14/2021 17:06:14	2112G62-006EMS	P (213.618 nm)	0.43	4.38397 (mg/L)	1124.82885	0.43
12/14/2021 17:06:14	2112G62-006EMS	Pb (220.353 nm)	0.55	0.96762 (mg/L)	563.41537	0.55
12/14/2021 17:06:14	2112G62-006EMS	S (181.972 nm)	5.26	3.61907 (mg/L)	54.20650	5.17
12/14/2021 17:06:14	2112G62-006EMS	Sb (217.582 nm)	0.64	0.88909 (mg/L)	342.22333	0.64
12/14/2021 17:06:14	2112G62-006EMS	Se (196.026 nm)	0.60	0.86440 (mg/L)	234.58915	0.58
12/14/2021 17:06:14	2112G62-006EMS	Sn (189.925 nm)	0.68	0.92005 (mg/L)	195.14133	0.68
12/14/2021 17:06:14	2112G62-006EMS	Sr (407.771 nm)	0.44	0.98386 (mg/L)	1900599.13749	0.44
12/14/2021 17:06:14	2112G62-006EMS	Ti (337.280 nm)	0.14	7.00455 (mg/L)	130248.31409	0.14
12/14/2021 17:06:14	2112G62-006EMS	Tl (351.923 nm)	0.10	0.90146 (mg/L)	661.14812	0.10
12/14/2021 17:06:14	2112G62-006EMS	V (311.837 nm)	0.15	1.21872 (mg/L)	25145.82710	0.15
12/14/2021 17:06:14	2112G62-006EMS	Zn (206.200 nm)	0.34	6.49803 (mg/L)	4119.04426	0.34
12/14/2021 17:09:26	2112G62-006EMSD	Ag (328.068 nm)	0.21	0.09832 (mg/L)	2239.66267	0.21
12/14/2021 17:09:26	2112G62-006EMSD	Al (308.215 nm)	0.25	110.73761 (mg/L)	285961.16610	0.25
12/14/2021 17:09:26	2112G62-006EMSD	As (193.696 nm)	0.58	0.94801 (mg/L)	230.70435	0.57
12/14/2021 17:09:26	2112G62-006EMSD	B (249.772 nm)	0.37	1.02385 (mg/L)	12966.08997	0.37
12/14/2021 17:09:26	2112G62-006EMSD	Ba (413.064 nm)	0.38	1.73304 (mg/L)	11746.07695	0.38
12/14/2021 17:09:26	2112G62-006EMSD	Be (313.042 nm)	0.50	1.01267 (mg/L)	961591.07713	0.50
12/14/2021 17:09:26	2112G62-006EMSD	Ca (373.690 nm)	0.46	25.63854 (mg/L)	67892.38274	0.46
12/14/2021 17:09:26	2112G62-006EMSD	Cd (228.802 nm)	0.39	0.99814 (mg/L)	8095.51809	0.39
12/14/2021 17:09:26	2112G62-006EMSD	Co (230.786 nm)	0.17	1.68693 (mg/L)	5711.67685	0.17
12/14/2021 17:09:26	2112G62-006EMSD	Cr (267.716 nm)	0.39	1.23314 (mg/L)	17861.37206	0.39
12/14/2021 17:09:26	2112G62-006EMSD	Cu (327.395 nm)	0.16	1.46405 (mg/L)	23423.89122	0.16
12/14/2021 17:09:26	2112G62-006EMSD	Fe (238.204 nm)	0.31	150.21987 o (mg/L)	1038807.55365	0.31
12/14/2021 17:09:26	2112G62-006EMSD	K (766.491 nm)	0.16	37.25602 (mg/L)	43588.59736	0.16
12/14/2021 17:09:26	2112G62-006EMSD	Mg (279.800 nm)	0.33	37.62501 (mg/L)	31476.00210	0.32
12/14/2021 17:09:26	2112G62-006EMSD	Mn (257.610 nm)	0.40	3.32929 (mg/L)	337542.32656	0.40
12/14/2021 17:09:26	2112G62-006EMSD	Mo (204.598 nm)	0.24	0.97573 (mg/L)	933.89927	0.24
12/14/2021 17:09:26	2112G62-006EMSD	Na (589.592 nm)	0.20	12.80624 (mg/L)	103151.28646	0.20
12/14/2021 17:09:26	2112G62-006EMSD	Ni (221.648 nm)	0.57	2.17642 (mg/L)	1429.92015	0.57
12/14/2021 17:09:26	2112G62-006EMSD	P (213.618 nm)	0.32	4.28571 (mg/L)	1099.55800	0.32
12/14/2021 17:09:26	2112G62-006EMSD	Pb (220.353 nm)	0.83	1.09285 (mg/L)	636.44422	0.83
12/14/2021 17:09:26	2112G62-006EMSD	S (181.972 nm)	0.94	4.23411 (mg/L)	63.25677	0.93
12/14/2021 17:09:26	2112G62-006EMSD	Sb (217.582 nm)	0.62	0.99214 (mg/L)	381.84150	0.62
12/14/2021 17:09:26	2112G62-006EMSD	Se (196.026 nm)	1.05	0.89890 (mg/L)	243.64435	1.02
12/14/2021 17:09:26	2112G62-006EMSD	Sn (189.925 nm)	0.41	1.01670 (mg/L)	215.49392	0.41
12/14/2021 17:09:26	2112G62-006EMSD	Sr (407.771 nm)	0.56	1.03467 (mg/L)	1998739.04569	0.56
12/14/2021 17:09:26	2112G62-006EMSD	Ti (337.280 nm)	0.34	7.31749 (mg/L)	136066.20830	0.34
12/14/2021 17:09:26	2112G62-006EMSD	Tl (351.923 nm)	0.70	0.98772 (mg/L)	725.07035	0.71

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 17:09:26	2112G62-006EMSD	V (311.837 nm)	0.40	1.33364 (mg/L)	27516.39431	0.40
12/14/2021 17:09:26	2112G62-006EMSD	Zn (206.200 nm)	0.55	6.34797 (mg/L)	4024.00277	0.55
12/14/2021 17:36:38	2112G62-006EPDS	Ag (328.068 nm)	0.36	0.46486 (mg/L)	10586.93192	0.36
12/14/2021 17:36:38	2112G62-006EPDS	Al (308.215 nm)	0.46	91.64700 (mg/L)	236744.14676	0.45
12/14/2021 17:36:38	2112G62-006EPDS	As (193.696 nm)	0.39	4.83706 (mg/L)	1165.78694	0.39
12/14/2021 17:36:38	2112G62-006EPDS	B (249.772 nm)	0.54	4.67459 (mg/L)	58983.76885	0.54
12/14/2021 17:36:38	2112G62-006EPDS	Ba (413.064 nm)	0.42	5.12584 (mg/L)	34613.11994	0.42
12/14/2021 17:36:38	2112G62-006EPDS	Be (313.042 nm)	0.67	4.69632 (mg/L)	4458904.95527	0.67
12/14/2021 17:36:38	2112G62-006EPDS	Ca (373.690 nm)	0.46	57.64720 (mg/L)	152741.67524	0.46
12/14/2021 17:36:38	2112G62-006EPDS	Cd (228.802 nm)	0.45	4.75646 (mg/L)	38535.94896	0.45
12/14/2021 17:36:38	2112G62-006EPDS	Co (230.786 nm)	0.52	5.03206 (mg/L)	17035.34926	0.52
12/14/2021 17:36:38	2112G62-006EPDS	Cr (267.716 nm)	0.48	4.86700 (mg/L)	70422.45139	0.48
12/14/2021 17:36:38	2112G62-006EPDS	Cu (327.395 nm)	0.44	5.30322 (mg/L)	84820.87849	0.44
12/14/2021 17:36:38	2112G62-006EPDS	Fe (238.204 nm)	0.57	117.42665 o (mg/L)	812049.92308	0.57
12/14/2021 17:36:38	2112G62-006EPDS	K (766.491 nm)	0.46	60.40597 (mg/L)	70630.58771	0.46
12/14/2021 17:36:38	2112G62-006EPDS	Mg (279.800 nm)	0.38	60.38294 (mg/L)	50511.42269	0.38
12/14/2021 17:36:38	2112G62-006EPDS	Mn (257.610 nm)	0.56	6.27744 (mg/L)	636421.32921	0.56
12/14/2021 17:36:38	2112G62-006EPDS	Mo (204.598 nm)	0.46	4.79185 (mg/L)	4576.14694	0.46
12/14/2021 17:36:38	2112G62-006EPDS	Na (589.592 nm)	0.41	50.02756 (mg/L)	401730.69075	0.41
12/14/2021 17:36:38	2112G62-006EPDS	Ni (221.648 nm)	0.62	5.19574 (mg/L)	3410.96942	0.62
12/14/2021 17:36:38	2112G62-006EPDS	P (213.618 nm)	0.36	11.00316 (mg/L)	2827.22665	0.36
12/14/2021 17:36:38	2112G62-006EPDS	Pb (220.353 nm)	0.38	4.68714 (mg/L)	2732.51489	0.38
12/14/2021 17:36:38	2112G62-006EPDS	S (181.972 nm)	2.84	6.40145 (mg/L)	95.14936	2.81
12/14/2021 17:36:38	2112G62-006EPDS	Sb (217.582 nm)	0.53	4.83419 (mg/L)	1858.85773	0.53
12/14/2021 17:36:38	2112G62-006EPDS	Se (196.026 nm)	0.41	4.61234 (mg/L)	1218.35502	0.41
12/14/2021 17:36:38	2112G62-006EPDS	Sn (189.925 nm)	0.13	4.76898 (mg/L)	1005.66100	0.13
12/14/2021 17:36:38	2112G62-006EPDS	Sr (407.771 nm)	0.53	4.49636 (mg/L)	8685025.74155	0.53
12/14/2021 17:36:38	2112G62-006EPDS	Ti (337.280 nm)	0.47	7.52547 (mg/L)	139933.00511	0.47
12/14/2021 17:36:38	2112G62-006EPDS	Tl (351.923 nm)	0.41	4.89706 (mg/L)	3622.01035	0.42
12/14/2021 17:36:38	2112G62-006EPDS	V (311.837 nm)	0.58	4.91599 (mg/L)	101413.57005	0.58
12/14/2021 17:36:38	2112G62-006EPDS	Zn (206.200 nm)	0.46	7.20317 (mg/L)	4565.67660	0.46
12/14/2021 17:39:46	2112G62-004D	Ag (328.068 nm)	5.86	0.00141 (mg/L)	32.69254	5.74
12/14/2021 17:39:46	2112G62-004D	Al (308.215 nm)	0.31	85.35543 (mg/L)	220524.01716	0.31
12/14/2021 17:39:46	2112G62-004D	As (193.696 nm)	> 100.00	0.00810 (mg/L)	4.71154	46.92
12/14/2021 17:39:46	2112G62-004D	B (249.772 nm)	0.17	0.11830 (mg/L)	1551.55399	0.16
12/14/2021 17:39:46	2112G62-004D	Ba (413.064 nm)	0.46	1.15502 (mg/L)	7850.27116	0.46
12/14/2021 17:39:46	2112G62-004D	Be (313.042 nm)	0.45	0.00232 (mg/L)	2355.04531	0.42
12/14/2021 17:39:46	2112G62-004D	Ca (373.690 nm)	0.34	35.77951 (mg/L)	94774.32124	0.34
12/14/2021 17:39:46	2112G62-004D	Cd (228.802 nm)	6.02	0.00291 (mg/L)	34.65887	4.09
12/14/2021 17:39:46	2112G62-004D	Co (230.786 nm)	0.81	4.70703 (mg/L)	15935.10170	0.81
12/14/2021 17:39:46	2112G62-004D	Cr (267.716 nm)	0.35	0.14720 (mg/L)	2154.02730	0.34
12/14/2021 17:39:46	2112G62-004D	Cu (327.395 nm)	0.44	0.66248 (mg/L)	10604.85749	0.44
12/14/2021 17:39:46	2112G62-004D	Fe (238.204 nm)	0.34	99.90779 o (mg/L)	690910.98481	0.34
12/14/2021 17:39:46	2112G62-004D	K (766.491 nm)	0.02	25.39556 (mg/L)	29734.11771	0.02
12/14/2021 17:39:46	2112G62-004D	Mg (279.800 nm)	0.32	34.17125 (mg/L)	28587.17480	0.32
12/14/2021 17:39:46	2112G62-004D	Mn (257.610 nm)	0.34	4.77789 (mg/L)	484399.79964	0.34
12/14/2021 17:39:46	2112G62-004D	Mo (204.598 nm)	18.24	0.01359 (mg/L)	15.59966	15.17
12/14/2021 17:39:46	2112G62-004D	Na (589.592 nm)	0.09	3.38660 (mg/L)	27589.45533	0.08

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 17:39:46	2112G62-004D	Ni (221.648 nm)	0.25	1.93059 (mg/L)	1268.62322	0.25
12/14/2021 17:39:46	2112G62-004D	P (213.618 nm)	0.03	5.74640 (mg/L)	1475.23312	0.03
12/14/2021 17:39:46	2112G62-004D	Pb (220.353 nm)	4.81	0.17249 (mg/L)	99.72109	4.85
12/14/2021 17:39:46	2112G62-004D	S (181.972 nm)	0.81	4.83388 (mg/L)	72.08241	0.80
12/14/2021 17:39:46	2112G62-004D	Sb (217.582 nm)	1.88	0.27549 (mg/L)	106.33435	1.88
12/14/2021 17:39:46	2112G62-004D	Se (196.026 nm)	23.40	0.01659 (mg/L)	12.05262	8.45
12/14/2021 17:39:46	2112G62-004D	Sn (189.925 nm)	9.74	0.08363 (mg/L)	19.00467	9.02
12/14/2021 17:39:46	2112G62-004D	Sr (407.771 nm)	0.86	0.19626 (mg/L)	379346.45008	0.86
12/14/2021 17:39:46	2112G62-004D	Ti (337.280 nm)	0.40	5.47162 (mg/L)	101749.22796	0.40
12/14/2021 17:39:46	2112G62-004D	Tl (351.923 nm)	> 100.00	0.00563 u (mg/L)	-2.68333	> 100.00
12/14/2021 17:39:46	2112G62-004D	V (311.837 nm)	0.47	0.24074 (mg/L)	4971.86670	0.47
12/14/2021 17:39:46	2112G62-004D	Zn (206.200 nm)	0.65	6.77261 (mg/L)	4292.96501	0.65
12/14/2021 17:42:55	2112G62-005D	Ag (328.068 nm)	42.53	0.00112 (mg/L)	26.16040	41.43
12/14/2021 17:42:55	2112G62-005D	Al (308.215 nm)	0.56	129.91265 (mg/L)	335395.83445	0.56
12/14/2021 17:42:55	2112G62-005D	As (193.696 nm)	32.77	0.01396 (mg/L)	6.12040	17.97
12/14/2021 17:42:55	2112G62-005D	B (249.772 nm)	0.82	0.13040 (mg/L)	1704.17185	0.79
12/14/2021 17:42:55	2112G62-005D	Ba (413.064 nm)	0.47	1.11691 (mg/L)	7593.40004	0.47
12/14/2021 17:42:55	2112G62-005D	Be (313.042 nm)	0.38	0.00303 (mg/L)	3030.88292	0.36
12/14/2021 17:42:55	2112G62-005D	Ca (373.690 nm)	0.55	33.33576 (mg/L)	88296.35058	0.55
12/14/2021 17:42:55	2112G62-005D	Cd (228.802 nm)	1.27	0.00467 (mg/L)	48.92041	0.98
12/14/2021 17:42:55	2112G62-005D	Co (230.786 nm)	0.81	1.41984 (mg/L)	4807.55389	0.81
12/14/2021 17:42:55	2112G62-005D	Cr (267.716 nm)	0.42	0.19769 (mg/L)	2884.39627	0.42
12/14/2021 17:42:55	2112G62-005D	Cu (327.395 nm)	0.66	0.64368 (mg/L)	10304.32157	0.66
12/14/2021 17:42:55	2112G62-005D	Fe (238.204 nm)	0.63	127.26311 o (mg/L)	880066.75666	0.63
12/14/2021 17:42:55	2112G62-005D	K (766.491 nm)	0.39	25.39229 (mg/L)	29730.29749	0.39
12/14/2021 17:42:55	2112G62-005D	Mg (279.800 nm)	0.43	37.53526 (mg/L)	31400.93184	0.43
12/14/2021 17:42:55	2112G62-005D	Mn (257.610 nm)	0.61	3.84454 (mg/L)	389777.91211	0.61
12/14/2021 17:42:55	2112G62-005D	Mo (204.598 nm)	29.54	0.01596 (mg/L)	17.85807	25.19
12/14/2021 17:42:55	2112G62-005D	Na (589.592 nm)	0.44	3.34373 (mg/L)	27245.59371	0.44
12/14/2021 17:42:55	2112G62-005D	Ni (221.648 nm)	1.55	1.50692 (mg/L)	990.64373	1.55
12/14/2021 17:42:55	2112G62-005D	P (213.618 nm)	0.73	6.81434 (mg/L)	1749.89988	0.73
12/14/2021 17:42:55	2112G62-005D	Pb (220.353 nm)	3.41	0.20367 (mg/L)	117.90545	3.43
12/14/2021 17:42:55	2112G62-005D	S (181.972 nm)	1.70	7.90044 (mg/L)	117.20709	1.69
12/14/2021 17:42:55	2112G62-005D	Sb (217.582 nm)	4.01	0.16744 (mg/L)	64.79691	3.98
12/14/2021 17:42:55	2112G62-005D	Se (196.026 nm)	42.41	0.01923 (mg/L)	12.74729	16.79
12/14/2021 17:42:55	2112G62-005D	Sn (189.925 nm)	5.25	0.07858 (mg/L)	17.94321	4.84
12/14/2021 17:42:55	2112G62-005D	Sr (407.771 nm)	0.22	0.17022 (mg/L)	329046.95834	0.22
12/14/2021 17:42:55	2112G62-005D	Ti (337.280 nm)	0.48	6.69509 (mg/L)	124495.01934	0.47
12/14/2021 17:42:55	2112G62-005D	Tl (351.923 nm)	> 100.00	-0.00001 u (mg/L)	-6.86586	> 100.00
12/14/2021 17:42:55	2112G62-005D	V (311.837 nm)	0.62	0.32966 (mg/L)	6806.17290	0.62
12/14/2021 17:42:55	2112G62-005D	Zn (206.200 nm)	0.56	7.46353 (mg/L)	4730.58006	0.55
12/14/2021 17:46:04	2112G62-007C	Ag (328.068 nm)	73.99	0.00026 (mg/L)	6.62751	66.41
12/14/2021 17:46:04	2112G62-007C	Al (308.215 nm)	0.23	99.50655 (mg/L)	257006.64469	0.23
12/14/2021 17:46:04	2112G62-007C	As (193.696 nm)	14.25	0.01548 (mg/L)	6.48634	8.18
12/14/2021 17:46:04	2112G62-007C	B (249.772 nm)	0.70	0.12861 (mg/L)	1681.52987	0.67
12/14/2021 17:46:04	2112G62-007C	Ba (413.064 nm)	0.45	0.70773 (mg/L)	4835.58560	0.44
12/14/2021 17:46:04	2112G62-007C	Be (313.042 nm)	0.50	0.00206 (mg/L)	2100.84020	0.46
12/14/2021 17:46:04	2112G62-007C	Ca (373.690 nm)	0.36	13.81117 (mg/L)	36540.12808	0.36

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 17:46:04	2112G62-007C	Cd (228.802 nm)	6.53	0.00200 (mg/L)	27.31467	3.88
12/14/2021 17:46:04	2112G62-007C	Co (230.786 nm)	0.27	0.56610 (mg/L)	1917.53527	0.27
12/14/2021 17:46:04	2112G62-007C	Cr (267.716 nm)	0.37	0.17347 (mg/L)	2534.07108	0.37
12/14/2021 17:46:04	2112G62-007C	Cu (327.395 nm)	0.36	0.39279 (mg/L)	6291.88093	0.35
12/14/2021 17:46:04	2112G62-007C	Fe (238.204 nm)	0.60	177.46505 o (mg/L)	1227201.84343	0.60
12/14/2021 17:46:04	2112G62-007C	K (766.491 nm)	0.12	19.41219 (mg/L)	22744.80759	0.12
12/14/2021 17:46:04	2112G62-007C	Mg (279.800 nm)	0.15	25.59960 (mg/L)	21417.58584	0.15
12/14/2021 17:46:04	2112G62-007C	Mn (257.610 nm)	0.18	2.64968 (mg/L)	268644.44355	0.18
12/14/2021 17:46:04	2112G62-007C	Mo (204.598 nm)	16.12	0.01806 (mg/L)	19.86169	13.99
12/14/2021 17:46:04	2112G62-007C	Na (589.592 nm)	0.02	2.38586 (mg/L)	19561.78877	0.02
12/14/2021 17:46:04	2112G62-007C	Ni (221.648 nm)	0.92	0.94169 (mg/L)	619.78080	0.92
12/14/2021 17:46:04	2112G62-007C	P (213.618 nm)	0.17	3.66506 (mg/L)	939.93167	0.17
12/14/2021 17:46:04	2112G62-007C	Pb (220.353 nm)	0.13	0.17546 (mg/L)	101.45479	0.13
12/14/2021 17:46:04	2112G62-007C	S (181.972 nm)	3.73	3.55029 (mg/L)	53.19440	3.66
12/14/2021 17:46:04	2112G62-007C	Sb (217.582 nm)	6.54	0.08322 (mg/L)	32.41892	6.45
12/14/2021 17:46:04	2112G62-007C	Se (196.026 nm)	36.02	0.01095 (mg/L)	10.57345	9.79
12/14/2021 17:46:04	2112G62-007C	Sn (189.925 nm)	3.72	0.19503 (mg/L)	42.46416	3.60
12/14/2021 17:46:04	2112G62-007C	Sr (407.771 nm)	0.17	0.06619 (mg/L)	128113.05981	0.17
12/14/2021 17:46:04	2112G62-007C	Ti (337.280 nm)	0.35	6.81561 (mg/L)	126735.76465	0.35
12/14/2021 17:46:04	2112G62-007C	Tl (351.923 nm)	49.46	-0.01420 u (mg/L)	-17.38283	29.95
12/14/2021 17:46:04	2112G62-007C	V (311.837 nm)	0.36	0.42911 (mg/L)	8857.56322	0.36
12/14/2021 17:46:04	2112G62-007C	Zn (206.200 nm)	0.24	6.09262 (mg/L)	3862.26757	0.24
12/14/2021 17:49:14	2112G62-008D	Ag (328.068 nm)	29.33	0.00064 (mg/L)	15.31066	28.03
12/14/2021 17:49:14	2112G62-008D	Al (308.215 nm)	0.11	60.66988 (mg/L)	156882.82179	0.11
12/14/2021 17:49:14	2112G62-008D	As (193.696 nm)	85.95	0.00699 (mg/L)	4.44496	32.50
12/14/2021 17:49:14	2112G62-008D	B (249.772 nm)	0.31	0.09358 (mg/L)	1239.95208	0.30
12/14/2021 17:49:14	2112G62-008D	Ba (413.064 nm)	0.18	0.88788 (mg/L)	6049.81558	0.17
12/14/2021 17:49:14	2112G62-008D	Be (313.042 nm)	0.52	0.00089 (mg/L)	991.42112	0.44
12/14/2021 17:49:14	2112G62-008D	Ca (373.690 nm)	0.13	54.10911 (mg/L)	143362.83027	0.13
12/14/2021 17:49:14	2112G62-008D	Cd (228.802 nm)	4.11	0.00289 (mg/L)	34.49677	2.79
12/14/2021 17:49:14	2112G62-008D	Co (230.786 nm)	5.92	0.01320 (mg/L)	45.90693	5.76
12/14/2021 17:49:14	2112G62-008D	Cr (267.716 nm)	0.05	0.11985 (mg/L)	1758.52619	0.05
12/14/2021 17:49:14	2112G62-008D	Cu (327.395 nm)	0.74	0.08427 (mg/L)	1358.07879	0.74
12/14/2021 17:49:14	2112G62-008D	Fe (238.204 nm)	0.36	63.64632 (mg/L)	440171.08960	0.36
12/14/2021 17:49:14	2112G62-008D	K (766.491 nm)	0.07	12.68297 (mg/L)	14884.24182	0.07
12/14/2021 17:49:14	2112G62-008D	Mg (279.800 nm)	0.04	9.13019 (mg/L)	7642.08292	0.04
12/14/2021 17:49:14	2112G62-008D	Mn (257.610 nm)	0.15	8.17240 (mg/L)	828529.76774	0.15
12/14/2021 17:49:14	2112G62-008D	Mo (204.598 nm)	> 100.00	-0.00002 u (mg/L)	2.60815	61.90
12/14/2021 17:49:14	2112G62-008D	Na (589.592 nm)	0.29	2.19723 (mg/L)	18048.63296	0.28
12/14/2021 17:49:14	2112G62-008D	Ni (221.648 nm)	5.41	0.05927 (mg/L)	40.80668	5.16
12/14/2021 17:49:14	2112G62-008D	P (213.618 nm)	0.32	2.47403 (mg/L)	633.60972	0.32
12/14/2021 17:49:14	2112G62-008D	Pb (220.353 nm)	2.25	0.08788 (mg/L)	50.37870	2.29
12/14/2021 17:49:14	2112G62-008D	S (181.972 nm)	0.98	3.67033 (mg/L)	54.96072	0.96
12/14/2021 17:49:14	2112G62-008D	Sb (217.582 nm)	> 100.00	0.00050 (mg/L)	0.61913	36.67
12/14/2021 17:49:14	2112G62-008D	Se (196.026 nm)	54.52	0.02086 (mg/L)	13.17473	22.66
12/14/2021 17:49:14	2112G62-008D	Sn (189.925 nm)	19.85	0.02240 (mg/L)	6.11135	15.32
12/14/2021 17:49:14	2112G62-008D	Sr (407.771 nm)	0.95	0.19309 (mg/L)	373215.25669	0.94
12/14/2021 17:49:14	2112G62-008D	Ti (337.280 nm)	0.18	1.41896 (mg/L)	26404.87947	0.18

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 17:49:14	2112G62-008D	Tl (351.923 nm)	12.54	-0.01077 u (mg/L)	-14.83683	6.74
12/14/2021 17:49:14	2112G62-008D	V (311.837 nm)	0.24	0.13021 (mg/L)	2691.72941	0.24
12/14/2021 17:49:14	2112G62-008D	Zn (206.200 nm)	0.65	0.82612 (mg/L)	526.52637	0.65
12/14/2021 17:52:23	2112G62-009B	Ag (328.068 nm)	> 100.00	0.00009 (mg/L)	2.68129	75.33
12/14/2021 17:52:23	2112G62-009B	Al (308.215 nm)	0.61	138.06743 (mg/L)	356419.46676	0.61
12/14/2021 17:52:23	2112G62-009B	As (193.696 nm)	34.95	0.02438 (mg/L)	8.62714	23.75
12/14/2021 17:52:23	2112G62-009B	B (249.772 nm)	0.89	0.10430 (mg/L)	1375.12570	0.85
12/14/2021 17:52:23	2112G62-009B	Ba (413.064 nm)	0.40	0.71165 (mg/L)	4862.02096	0.39
12/14/2021 17:52:23	2112G62-009B	Be (313.042 nm)	0.64	0.00261 (mg/L)	2630.35190	0.61
12/14/2021 17:52:23	2112G62-009B	Ca (373.690 nm)	0.52	22.33516 (mg/L)	59135.70857	0.52
12/14/2021 17:52:23	2112G62-009B	Cd (228.802 nm)	3.55	0.00340 (mg/L)	38.65429	2.53
12/14/2021 17:52:23	2112G62-009B	Co (230.786 nm)	2.76	0.02856 (mg/L)	97.89778	2.73
12/14/2021 17:52:23	2112G62-009B	Cr (267.716 nm)	0.73	0.14963 (mg/L)	2189.17614	0.72
12/14/2021 17:52:23	2112G62-009B	Cu (327.395 nm)	0.49	0.20830 (mg/L)	3341.61109	0.49
12/14/2021 17:52:23	2112G62-009B	Fe (238.204 nm)	0.29	127.71763 o (mg/L)	883209.67854	0.29
12/14/2021 17:52:23	2112G62-009B	K (766.491 nm)	0.50	19.78016 (mg/L)	23174.64021	0.50
12/14/2021 17:52:23	2112G62-009B	Mg (279.800 nm)	0.50	16.29979 (mg/L)	13638.94820	0.50
12/14/2021 17:52:23	2112G62-009B	Mn (257.610 nm)	0.61	3.18814 (mg/L)	323233.36596	0.61
12/14/2021 17:52:23	2112G62-009B	Mo (204.598 nm)	18.13	0.01308 (mg/L)	15.11278	14.98
12/14/2021 17:52:23	2112G62-009B	Na (589.592 nm)	0.49	2.06920 (mg/L)	17021.65452	0.48
12/14/2021 17:52:23	2112G62-009B	Ni (221.648 nm)	3.64	0.10481 (mg/L)	70.68909	3.54
12/14/2021 17:52:23	2112G62-009B	P (213.618 nm)	0.29	4.67730 (mg/L)	1200.27115	0.29
12/14/2021 17:52:23	2112G62-009B	Pb (220.353 nm)	0.89	0.19546 (mg/L)	113.11424	0.90
12/14/2021 17:52:23	2112G62-009B	S (181.972 nm)	0.98	4.67217 (mg/L)	69.70292	0.97
12/14/2021 17:52:23	2112G62-009B	Sb (217.582 nm)	14.67	0.00244 (mg/L)	1.36594	10.08
12/14/2021 17:52:23	2112G62-009B	Se (196.026 nm)	21.01	0.02170 (mg/L)	13.39499	8.93
12/14/2021 17:52:23	2112G62-009B	Sn (189.925 nm)	19.04	0.04252 (mg/L)	10.34891	16.48
12/14/2021 17:52:23	2112G62-009B	Sr (407.771 nm)	0.72	0.11526 (mg/L)	222893.01626	0.72
12/14/2021 17:52:23	2112G62-009B	Ti (337.280 nm)	0.54	4.77210 (mg/L)	88744.20050	0.54
12/14/2021 17:52:23	2112G62-009B	Tl (351.923 nm)	36.78	-0.00708 u (mg/L)	-12.10650	15.95
12/14/2021 17:52:23	2112G62-009B	V (311.837 nm)	0.67	0.40239 (mg/L)	8306.42979	0.67
12/14/2021 17:52:23	2112G62-009B	Zn (206.200 nm)	0.84	3.46656 (mg/L)	2198.94964	0.84
12/14/2021 17:55:33	2112G62-010A	Ag (328.068 nm)	83.45	0.00004 (mg/L)	1.68279	49.75
12/14/2021 17:55:33	2112G62-010A	Al (308.215 nm)	0.79	2.93084 (mg/L)	8027.29421	0.74
12/14/2021 17:55:33	2112G62-010A	As (193.696 nm)	62.57	0.01493 (mg/L)	6.35377	35.35
12/14/2021 17:55:33	2112G62-010A	B (249.772 nm)	4.57	0.00627 (mg/L)	139.39347	2.59
12/14/2021 17:55:33	2112G62-010A	Ba (413.064 nm)	5.37	0.01526 (mg/L)	168.43271	3.28
12/14/2021 17:55:33	2112G62-010A	Be (313.042 nm)	2.17	-0.00039 u (mg/L)	-217.74529	3.66
12/14/2021 17:55:33	2112G62-010A	Ca (373.690 nm)	0.87	0.61408 (mg/L)	1556.97510	0.91
12/14/2021 17:55:33	2112G62-010A	Cd (228.802 nm)	47.43	-0.00021 u (mg/L)	9.37910	8.77
12/14/2021 17:55:33	2112G62-010A	Co (230.786 nm)	0.89	0.13108 (mg/L)	444.94305	0.88
12/14/2021 17:55:33	2112G62-010A	Cr (267.716 nm)	2.23	0.02090 (mg/L)	327.28178	2.06
12/14/2021 17:55:33	2112G62-010A	Cu (327.395 nm)	0.84	0.03154 (mg/L)	514.69059	0.82
12/14/2021 17:55:33	2112G62-010A	Fe (238.204 nm)	0.91	8.61765 (mg/L)	59660.31917	0.91
12/14/2021 17:55:33	2112G62-010A	K (766.491 nm)	6.93	0.28499 (mg/L)	401.88107	5.74
12/14/2021 17:55:33	2112G62-010A	Mg (279.800 nm)	1.94	0.12077 (mg/L)	106.32662	1.84
12/14/2021 17:55:33	2112G62-010A	Mn (257.610 nm)	0.76	0.11156 (mg/L)	11334.16978	0.76
12/14/2021 17:55:33	2112G62-010A	Mo (204.598 nm)	> 100.00	0.00015 u (mg/L)	2.76882	35.81

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 17:55:33	2112G62-010A	Na (589.592 nm)	1.29	0.19069 (mg/L)	1952.73389	1.01
12/14/2021 17:55:33	2112G62-010A	Ni (221.648 nm)	0.87	0.32014 (mg/L)	211.96975	0.87
12/14/2021 17:55:33	2112G62-010A	P (213.618 nm)	2.71	0.13006 (mg/L)	30.76265	2.94
12/14/2021 17:55:33	2112G62-010A	Pb (220.353 nm)	9.40	0.00493 (mg/L)	2.00348	13.47
12/14/2021 17:55:33	2112G62-010A	S (181.972 nm)	74.21	0.11792 (mg/L)	2.68689	47.93
12/14/2021 17:55:33	2112G62-010A	Sb (217.582 nm)	8.68	0.03182 (mg/L)	12.65863	8.39
12/14/2021 17:55:33	2112G62-010A	Se (196.026 nm)	> 100.00	0.00638 u (mg/L)	9.37250	28.55
12/14/2021 17:55:33	2112G62-010A	Sn (189.925 nm)	10.05	0.02159 (mg/L)	5.94211	7.69
12/14/2021 17:55:33	2112G62-010A	Sr (407.771 nm)	1.35	0.00349 (mg/L)	6996.29412	1.30
12/14/2021 17:55:33	2112G62-010A	Ti (337.280 nm)	0.79	0.17457 (mg/L)	3270.07104	0.78
12/14/2021 17:55:33	2112G62-010A	Tl (351.923 nm)	80.58	0.00486 (mg/L)	-3.25456	89.21
12/14/2021 17:55:33	2112G62-010A	V (311.837 nm)	0.52	0.02462 (mg/L)	513.69293	0.51
12/14/2021 17:55:33	2112G62-010A	Zn (206.200 nm)	4.99	0.01747 (mg/L)	14.33857	3.85
12/14/2021 17:58:44	Cont Calib Verif	Ag (328.068 nm)	0.66	0.09849 (mg/L)	2243.68372	0.66
12/14/2021 17:58:44	Cont Calib Verif	Al (308.215 nm)	0.24	9.88586 (mg/L)	25957.85152	0.23
12/14/2021 17:58:44	Cont Calib Verif	As (193.696 nm)	0.39	1.02371 (mg/L)	248.90459	0.39
12/14/2021 17:58:44	Cont Calib Verif	B (249.772 nm)	0.21	0.96145 (mg/L)	12179.50115	0.21
12/14/2021 17:58:44	Cont Calib Verif	Ba (413.064 nm)	0.24	0.99624 (mg/L)	6780.13319	0.23
12/14/2021 17:58:44	Cont Calib Verif	Be (313.042 nm)	0.74	1.00697 (mg/L)	956177.67305	0.74
12/14/2021 17:58:44	Cont Calib Verif	Ca (373.690 nm)	0.21	9.94127 (mg/L)	26281.71851	0.21
12/14/2021 17:58:44	Cont Calib Verif	Cd (228.802 nm)	0.44	0.99362 (mg/L)	8058.89268	0.44
12/14/2021 17:58:44	Cont Calib Verif	Co (230.786 nm)	0.36	1.00164 (mg/L)	3391.90541	0.36
12/14/2021 17:58:44	Cont Calib Verif	Cr (267.716 nm)	0.16	1.00762 (mg/L)	14599.39259	0.16
12/14/2021 17:58:44	Cont Calib Verif	Cu (327.395 nm)	0.71	0.98956 (mg/L)	15835.61336	0.71
12/14/2021 17:58:44	Cont Calib Verif	Fe (238.204 nm)	0.33	10.44700 (mg/L)	72309.88875	0.33
12/14/2021 17:58:44	Cont Calib Verif	K (766.491 nm)	0.06	9.71196 (mg/L)	11413.73690	0.06
12/14/2021 17:58:44	Cont Calib Verif	Mg (279.800 nm)	0.19	9.95867 (mg/L)	8335.04571	0.19
12/14/2021 17:58:44	Cont Calib Verif	Mn (257.610 nm)	0.13	0.99510 (mg/L)	100905.47968	0.13
12/14/2021 17:58:44	Cont Calib Verif	Mo (204.598 nm)	0.63	0.99544 (mg/L)	952.71111	0.62
12/14/2021 17:58:44	Cont Calib Verif	Na (589.592 nm)	0.25	9.81558 (mg/L)	79160.98236	0.25
12/14/2021 17:58:44	Cont Calib Verif	Ni (221.648 nm)	0.46	1.00243 (mg/L)	659.63370	0.46
12/14/2021 17:58:44	Cont Calib Verif	P (213.618 nm)	0.58	0.99168 (mg/L)	252.36254	0.59
12/14/2021 17:58:44	Cont Calib Verif	Pb (220.353 nm)	0.65	0.99344 (mg/L)	578.47349	0.65
12/14/2021 17:58:44	Cont Calib Verif	S (181.972 nm)	3.72	1.15497 Q (mg/L)	17.94709 Q	3.53
12/14/2021 17:58:44	Cont Calib Verif	Sb (217.582 nm)	0.34	1.00592 (mg/L)	387.13839	0.34
12/14/2021 17:58:44	Cont Calib Verif	Se (196.026 nm)	0.65	1.00531 (mg/L)	271.57536	0.63
12/14/2021 17:58:44	Cont Calib Verif	Sn (189.925 nm)	0.33	1.01313 (mg/L)	214.74189	0.33
12/14/2021 17:58:44	Cont Calib Verif	Sr (407.771 nm)	0.26	0.94168 (mg/L)	1819127.93461	0.26
12/14/2021 17:58:44	Cont Calib Verif	Ti (337.280 nm)	0.28	0.99786 (mg/L)	18576.08315	0.28
12/14/2021 17:58:44	Cont Calib Verif	Tl (351.923 nm)	0.35	0.99804 (mg/L)	732.72346	0.35
12/14/2021 17:58:44	Cont Calib Verif	V (311.837 nm)	0.07	0.98420 (mg/L)	20308.12404	0.07
12/14/2021 17:58:44	Cont Calib Verif	Zn (206.200 nm)	0.32	1.00347 (mg/L)	638.85977	0.31
12/14/2021 18:01:57	Cont Calib Blank	Ag (328.068 nm)	> 100.00	-0.00004 u (mg/L)	-0.17755	> 100.00
12/14/2021 18:01:57	Cont Calib Blank	Al (308.215 nm)	> 100.00	-0.00170 u (mg/L)	466.98335	1.56
12/14/2021 18:01:57	Cont Calib Blank	As (193.696 nm)	90.77	0.00835 (mg/L)	4.77112	38.18
12/14/2021 18:01:57	Cont Calib Blank	B (249.772 nm)	63.95	0.00032 (mg/L)	64.40582	3.96
12/14/2021 18:01:57	Cont Calib Blank	Ba (413.064 nm)	> 100.00	0.00072 u (mg/L)	70.48386	12.33
12/14/2021 18:01:57	Cont Calib Blank	Be (313.042 nm)	> 100.00	0.00000 u (mg/L)	148.96324	3.68

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 18:01:57	Cont Calib Blank	Ca (373.690 nm)	73.27	-0.00379 u (mg/L)	-80.87247	9.09
12/14/2021 18:01:57	Cont Calib Blank	Cd (228.802 nm)	> 100.00	-0.00001 u (mg/L)	11.04841	20.90
12/14/2021 18:01:57	Cont Calib Blank	Co (230.786 nm)	46.20	0.00046 (mg/L)	2.78435	25.92
12/14/2021 18:01:57	Cont Calib Blank	Cr (267.716 nm)	14.66	-0.00083 u (mg/L)	12.91066	13.67
12/14/2021 18:01:57	Cont Calib Blank	Cu (327.395 nm)	> 100.00	-0.00007 u (mg/L)	9.20629	13.06
12/14/2021 18:01:57	Cont Calib Blank	Fe (238.204 nm)	5.45	-0.00431 u (mg/L)	41.45485	3.91
12/14/2021 18:01:57	Cont Calib Blank	K (766.491 nm)	9.65	0.10094 (mg/L)	186.88404	6.09
12/14/2021 18:01:57	Cont Calib Blank	Mg (279.800 nm)	> 100.00	-0.00179 u (mg/L)	3.81591	41.28
12/14/2021 18:01:57	Cont Calib Blank	Mn (257.610 nm)	80.12	0.00006 (mg/L)	30.09105	16.53
12/14/2021 18:01:57	Cont Calib Blank	Mo (204.598 nm)	> 100.00	-0.00001 u (mg/L)	2.61445	27.78
12/14/2021 18:01:57	Cont Calib Blank	Na (589.592 nm)	> 100.00	0.00130 u (mg/L)	433.52250	3.93
12/14/2021 18:01:57	Cont Calib Blank	Ni (221.648 nm)	77.19	0.00217 (mg/L)	3.34188	32.90
12/14/2021 18:01:57	Cont Calib Blank	P (213.618 nm)	94.12	-0.00365 u (mg/L)	-3.62752	24.38
12/14/2021 18:01:57	Cont Calib Blank	Pb (220.353 nm)	18.21	0.00157 (mg/L)	0.04477	> 100.00
12/14/2021 18:01:57	Cont Calib Blank	S (181.972 nm)	92.01	-0.03718 u (mg/L)	0.40455	> 100.00
12/14/2021 18:01:57	Cont Calib Blank	Sb (217.582 nm)	24.27	0.00438 (mg/L)	2.11323	19.36
12/14/2021 18:01:57	Cont Calib Blank	Se (196.026 nm)	> 100.00	0.00028 u (mg/L)	7.77130	11.57
12/14/2021 18:01:57	Cont Calib Blank	Sn (189.925 nm)	> 100.00	0.00138 u (mg/L)	1.68615	60.62
12/14/2021 18:01:57	Cont Calib Blank	Sr (407.771 nm)	36.67	0.00002 (mg/L)	296.46317	4.04
12/14/2021 18:01:57	Cont Calib Blank	Ti (337.280 nm)	59.64	0.00040 (mg/L)	32.09413	13.82
12/14/2021 18:01:57	Cont Calib Blank	Tl (351.923 nm)	> 100.00	0.00685 u (mg/L)	-1.78254	> 100.00
12/14/2021 18:01:57	Cont Calib Blank	V (311.837 nm)	71.34	-0.00010 u (mg/L)	3.78820	38.69
12/14/2021 18:01:57	Cont Calib Blank	Zn (206.200 nm)	> 100.00	0.00076 u (mg/L)	3.75501	50.84
12/14/2021 18:05:08	2112G62-006E/20x	Ag (328.068 nm)	> 100.00	0.00002 u (mg/L)	1.03168	77.66
12/14/2021 18:05:08	2112G62-006E/20x	Al (308.215 nm)	0.14	4.24930 (mg/L)	11426.36894	0.14
12/14/2021 18:05:08	2112G62-006E/20x	As (193.696 nm)	> 100.00	0.00537 u (mg/L)	4.05616	55.31
12/14/2021 18:05:08	2112G62-006E/20x	B (249.772 nm)	0.85	0.00620 (mg/L)	138.62615	0.48
12/14/2021 18:05:08	2112G62-006E/20x	Ba (413.064 nm)	3.18	0.04814 (mg/L)	390.02733	2.64
12/14/2021 18:05:08	2112G62-006E/20x	Be (313.042 nm)	21.28	0.00003 (mg/L)	176.48827	3.23
12/14/2021 18:05:08	2112G62-006E/20x	Ca (373.690 nm)	0.52	1.18075 (mg/L)	3059.12127	0.53
12/14/2021 18:05:08	2112G62-006E/20x	Cd (228.802 nm)	> 100.00	-0.00013 u (mg/L)	10.03831	27.20
12/14/2021 18:05:08	2112G62-006E/20x	Co (230.786 nm)	1.40	0.03290 (mg/L)	112.59756	1.38
12/14/2021 18:05:08	2112G62-006E/20x	Cr (267.716 nm)	2.18	0.00973 (mg/L)	165.64263	1.85
12/14/2021 18:05:08	2112G62-006E/20x	Cu (327.395 nm)	2.10	0.01718 (mg/L)	285.08989	2.02
12/14/2021 18:05:08	2112G62-006E/20x	Fe (238.204 nm)	0.39	9.07849 (mg/L)	62846.89606	0.39
12/14/2021 18:05:08	2112G62-006E/20x	K (766.491 nm)	2.44	1.19777 (mg/L)	1468.11884	2.32
12/14/2021 18:05:08	2112G62-006E/20x	Mg (279.800 nm)	0.50	1.38059 (mg/L)	1160.08418	0.50
12/14/2021 18:05:08	2112G62-006E/20x	Mn (257.610 nm)	0.18	0.18163 (mg/L)	18436.90318	0.18
12/14/2021 18:05:08	2112G62-006E/20x	Mo (204.598 nm)	> 100.00	0.00020 u (mg/L)	2.81820	21.69
12/14/2021 18:05:08	2112G62-006E/20x	Na (589.592 nm)	0.35	0.14462 (mg/L)	1583.20353	0.25
12/14/2021 18:05:08	2112G62-006E/20x	Ni (221.648 nm)	1.16	0.05210 (mg/L)	36.10302	1.10
12/14/2021 18:05:08	2112G62-006E/20x	P (213.618 nm)	3.39	0.18975 (mg/L)	46.11353	3.59
12/14/2021 18:05:08	2112G62-006E/20x	Pb (220.353 nm)	52.13	0.00548 (mg/L)	2.32830	71.58
12/14/2021 18:05:08	2112G62-006E/20x	S (181.972 nm)	36.68	0.07762 (mg/L)	2.09375	20.01
12/14/2021 18:05:08	2112G62-006E/20x	Sb (217.582 nm)	93.87	0.00150 u (mg/L)	1.00569	53.95
12/14/2021 18:05:08	2112G62-006E/20x	Se (196.026 nm)	> 100.00	-0.00215 u (mg/L)	7.13567	17.32
12/14/2021 18:05:08	2112G62-006E/20x	Sn (189.925 nm)	48.79	0.00527 (mg/L)	2.50460	21.62
12/14/2021 18:05:08	2112G62-006E/20x	Sr (407.771 nm)	0.54	0.00649 (mg/L)	12804.04104	0.53

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 18:05:08	2112G62-006E/20x	Ti (337.280 nm)	0.14	0.29418 (mg/L)	5493.81338	0.14
12/14/2021 18:05:08	2112G62-006E/20x	Tl (351.923 nm)	88.05	0.01191 (mg/L)	1.96692	> 100.00
12/14/2021 18:05:08	2112G62-006E/20x	V (311.837 nm)	2.85	0.01241 (mg/L)	261.76373	2.79
12/14/2021 18:05:08	2112G62-006E/20x	Zn (206.200 nm)	0.42	0.28728 (mg/L)	185.23097	0.41
12/14/2021 18:08:19	2112G62-006EMS/20x	Ag (328.068 nm)	8.09	0.00431 (mg/L)	98.86766	8.03
12/14/2021 18:08:19	2112G62-006EMS/20x	Al (308.215 nm)	0.26	5.61208 (mg/L)	14939.71496	0.25
12/14/2021 18:08:19	2112G62-006EMS/20x	As (193.696 nm)	7.45	0.05257 (mg/L)	15.40352	6.12
12/14/2021 18:08:19	2112G62-006EMS/20x	B (249.772 nm)	0.31	0.05002 (mg/L)	690.89350	0.28
12/14/2021 18:08:19	2112G62-006EMS/20x	Ba (413.064 nm)	1.37	0.08997 (mg/L)	671.95821	1.23
12/14/2021 18:08:19	2112G62-006EMS/20x	Be (313.042 nm)	0.26	0.04817 (mg/L)	45884.74559	0.26
12/14/2021 18:08:19	2112G62-006EMS/20x	Ca (373.690 nm)	0.31	2.16468 (mg/L)	5667.33726	0.32
12/14/2021 18:08:19	2112G62-006EMS/20x	Cd (228.802 nm)	0.71	0.04657 (mg/L)	388.27414	0.69
12/14/2021 18:08:19	2112G62-006EMS/20x	Co (230.786 nm)	0.58	0.08192 (mg/L)	278.53326	0.57
12/14/2021 18:08:19	2112G62-006EMS/20x	Cr (267.716 nm)	0.26	0.05474 (mg/L)	816.71598	0.26
12/14/2021 18:08:19	2112G62-006EMS/20x	Cu (327.395 nm)	1.03	0.08065 (mg/L)	1300.09631	1.03
12/14/2021 18:08:19	2112G62-006EMS/20x	Fe (238.204 nm)	0.30	10.39526 (mg/L)	71952.12834	0.30
12/14/2021 18:08:19	2112G62-006EMS/20x	K (766.491 nm)	0.92	1.90158 (mg/L)	2290.25578	0.89
12/14/2021 18:08:19	2112G62-006EMS/20x	Mg (279.800 nm)	0.12	2.01480 (mg/L)	1690.55176	0.12
12/14/2021 18:08:19	2112G62-006EMS/20x	Mn (257.610 nm)	0.19	0.21472 (mg/L)	21791.91001	0.19
12/14/2021 18:08:19	2112G62-006EMS/20x	Mo (204.598 nm)	3.98	0.04364 (mg/L)	44.28141	3.74
12/14/2021 18:08:19	2112G62-006EMS/20x	Na (589.592 nm)	0.25	0.60270 (mg/L)	5257.80683	0.23
12/14/2021 18:08:19	2112G62-006EMS/20x	Ni (221.648 nm)	1.08	0.10196 (mg/L)	68.81610	1.05
12/14/2021 18:08:19	2112G62-006EMS/20x	P (213.618 nm)	1.16	0.23909 (mg/L)	58.80487	1.22
12/14/2021 18:08:19	2112G62-006EMS/20x	Pb (220.353 nm)	11.71	0.05314 (mg/L)	30.12184	12.05
12/14/2021 18:08:19	2112G62-006EMS/20x	S (181.972 nm)	39.46	0.14450 (mg/L)	3.07800	27.26
12/14/2021 18:08:19	2112G62-006EMS/20x	Sb (217.582 nm)	11.47	0.04358 (mg/L)	17.18087	11.19
12/14/2021 18:08:19	2112G62-006EMS/20x	Se (196.026 nm)	16.33	0.04339 (mg/L)	19.08892	9.75
12/14/2021 18:08:19	2112G62-006EMS/20x	Sn (189.925 nm)	5.71	0.05012 (mg/L)	11.94892	5.04
12/14/2021 18:08:19	2112G62-006EMS/20x	Sr (407.771 nm)	0.44	0.05134 (mg/L)	99428.31906	0.44
12/14/2021 18:08:19	2112G62-006EMS/20x	Ti (337.280 nm)	0.26	0.36294 (mg/L)	6772.20125	0.26
12/14/2021 18:08:19	2112G62-006EMS/20x	Tl (351.923 nm)	15.50	0.04787 (mg/L)	28.61815	19.21
12/14/2021 18:08:19	2112G62-006EMS/20x	V (311.837 nm)	0.13	0.05966 (mg/L)	1236.45086	0.13
12/14/2021 18:08:19	2112G62-006EMS/20x	Zn (206.200 nm)	1.65	0.35384 (mg/L)	227.38931	1.62
12/14/2021 18:11:29	2112G62-006EMSD/20x	Ag (328.068 nm)	5.80	0.00511 (mg/L)	117.15311	5.77
12/14/2021 18:11:29	2112G62-006EMSD/20x	Al (308.215 nm)	0.30	5.66589 (mg/L)	15078.45113	0.29
12/14/2021 18:11:29	2112G62-006EMSD/20x	As (193.696 nm)	15.97	0.05944 (mg/L)	17.05645	13.39
12/14/2021 18:11:29	2112G62-006EMSD/20x	B (249.772 nm)	0.79	0.05431 (mg/L)	744.93514	0.73
12/14/2021 18:11:29	2112G62-006EMSD/20x	Ba (413.064 nm)	0.96	0.09521 (mg/L)	707.27893	0.87
12/14/2021 18:11:29	2112G62-006EMSD/20x	Be (313.042 nm)	0.14	0.05341 (mg/L)	50858.60463	0.14
12/14/2021 18:11:29	2112G62-006EMSD/20x	Ca (373.690 nm)	0.25	1.42303 (mg/L)	3701.36139	0.25
12/14/2021 18:11:29	2112G62-006EMSD/20x	Cd (228.802 nm)	1.11	0.05244 (mg/L)	435.81849	1.08
12/14/2021 18:11:29	2112G62-006EMSD/20x	Co (230.786 nm)	0.97	0.09157 (mg/L)	311.19869	0.97
12/14/2021 18:11:29	2112G62-006EMSD/20x	Cr (267.716 nm)	0.43	0.06621 (mg/L)	982.56533	0.42
12/14/2021 18:11:29	2112G62-006EMSD/20x	Cu (327.395 nm)	0.87	0.07265 (mg/L)	1172.14187	0.86
12/14/2021 18:11:29	2112G62-006EMSD/20x	Fe (238.204 nm)	0.18	9.69291 (mg/L)	67095.51910	0.18
12/14/2021 18:11:29	2112G62-006EMSD/20x	K (766.491 nm)	0.64	1.92724 (mg/L)	2320.22204	0.62
12/14/2021 18:11:29	2112G62-006EMSD/20x	Mg (279.800 nm)	0.19	2.03966 (mg/L)	1711.34406	0.19
12/14/2021 18:11:29	2112G62-006EMSD/20x	Mn (257.610 nm)	0.37	0.18222 (mg/L)	18497.36102	0.37

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 18:11:29	2112G62-006EMSD/20x	Mo (204.598 nm)	1.89	0.04967 (mg/L)	50.03350	1.80
12/14/2021 18:11:29	2112G62-006EMSD/20x	Na (589.592 nm)	0.42	0.65837 (mg/L)	5704.32582	0.39
12/14/2021 18:11:29	2112G62-006EMSD/20x	Ni (221.648 nm)	2.71	0.11595 (mg/L)	77.99828	2.64
12/14/2021 18:11:29	2112G62-006EMSD/20x	P (213.618 nm)	2.26	0.23640 (mg/L)	58.11106	2.37
12/14/2021 18:11:29	2112G62-006EMSD/20x	Pb (220.353 nm)	5.55	0.06155 (mg/L)	35.02637	5.69
12/14/2021 18:11:29	2112G62-006EMSD/20x	S (181.972 nm)	19.15	0.27599 (mg/L)	5.01283	15.51
12/14/2021 18:11:29	2112G62-006EMSD/20x	Sb (217.582 nm)	16.22	0.05113 (mg/L)	20.08411	15.88
12/14/2021 18:11:29	2112G62-006EMSD/20x	Se (196.026 nm)	20.19	0.04228 (mg/L)	18.79670	11.92
12/14/2021 18:11:29	2112G62-006EMSD/20x	Sn (189.925 nm)	4.17	0.05914 (mg/L)	13.84762	3.75
12/14/2021 18:11:29	2112G62-006EMSD/20x	Sr (407.771 nm)	1.25	0.05474 (mg/L)	105996.45216	1.25
12/14/2021 18:11:29	2112G62-006EMSD/20x	Ti (337.280 nm)	0.32	0.38780 (mg/L)	7234.43593	0.31
12/14/2021 18:11:29	2112G62-006EMSD/20x	Tl (351.923 nm)	8.48	0.05123 (mg/L)	31.10879	10.35
12/14/2021 18:11:29	2112G62-006EMSD/20x	V (311.837 nm)	0.46	0.06705 (mg/L)	1388.97406	0.46
12/14/2021 18:11:29	2112G62-006EMSD/20x	Zn (206.200 nm)	0.44	0.35131 (mg/L)	225.78594	0.43
12/14/2021 18:14:40	2112G62-006EPDS/40x	Ag (328.068 nm)	0.03	0.47337 (mg/L)	10780.67980	0.03
12/14/2021 18:14:40	2112G62-006EPDS/40x	Al (308.215 nm)	0.18	52.12641 (mg/L)	134857.12774	0.18
12/14/2021 18:14:40	2112G62-006EPDS/40x	As (193.696 nm)	0.13	5.02113 (mg/L)	1210.04663	0.13
12/14/2021 18:14:40	2112G62-006EPDS/40x	B (249.772 nm)	0.19	4.75144 (mg/L)	59952.52257	0.19
12/14/2021 18:14:40	2112G62-006EPDS/40x	Ba (413.064 nm)	0.15	4.79777 (mg/L)	32401.93530	0.15
12/14/2021 18:14:40	2112G62-006EPDS/40x	Be (313.042 nm)	0.22	4.75391 (mg/L)	4513586.48404	0.22
12/14/2021 18:14:40	2112G62-006EPDS/40x	Ca (373.690 nm)	0.17	48.24523 (mg/L)	127818.71487	0.17
12/14/2021 18:14:40	2112G62-006EPDS/40x	Cd (228.802 nm)	0.15	4.86197 (mg/L)	39390.48906	0.15
12/14/2021 18:14:40	2112G62-006EPDS/40x	Co (230.786 nm)	0.19	4.79283 (mg/L)	16225.54214	0.19
12/14/2021 18:14:40	2112G62-006EPDS/40x	Cr (267.716 nm)	0.14	4.85920 (mg/L)	70309.67591	0.14
12/14/2021 18:14:40	2112G62-006EPDS/40x	Cu (327.395 nm)	0.40	5.02362 (mg/L)	80349.40845	0.40
12/14/2021 18:14:40	2112G62-006EPDS/40x	Fe (238.204 nm)	0.10	52.35621 (mg/L)	362102.53007	0.10
12/14/2021 18:14:40	2112G62-006EPDS/40x	K (766.491 nm)	0.08	50.05624 (mg/L)	58540.83084	0.08
12/14/2021 18:14:40	2112G62-006EPDS/40x	Mg (279.800 nm)	0.19	49.24195 (mg/L)	41192.76636	0.19
12/14/2021 18:14:40	2112G62-006EPDS/40x	Mn (257.610 nm)	0.38	4.87256 (mg/L)	493996.93016	0.38
12/14/2021 18:14:40	2112G62-006EPDS/40x	Mo (204.598 nm)	0.28	4.84998 (mg/L)	4631.62877	0.28
12/14/2021 18:14:40	2112G62-006EPDS/40x	Na (589.592 nm)	0.11	49.17783 (mg/L)	394914.39655	0.11
12/14/2021 18:14:40	2112G62-006EPDS/40x	Ni (221.648 nm)	0.10	4.78843 (mg/L)	3143.72440	0.10
12/14/2021 18:14:40	2112G62-006EPDS/40x	P (213.618 nm)	0.11	9.86340 (mg/L)	2534.09027	0.11
12/14/2021 18:14:40	2112G62-006EPDS/40x	Pb (220.353 nm)	0.17	4.75808 (mg/L)	2773.88550	0.17
12/14/2021 18:14:40	2112G62-006EPDS/40x	S (181.972 nm)	3.42	5.47268 (mg/L)	81.48244	3.38
12/14/2021 18:14:40	2112G62-006EPDS/40x	Sb (217.582 nm)	0.18	4.96114 (mg/L)	1907.66296	0.18
12/14/2021 18:14:40	2112G62-006EPDS/40x	Se (196.026 nm)	0.33	4.86823 (mg/L)	1285.52205	0.32
12/14/2021 18:14:40	2112G62-006EPDS/40x	Sn (189.925 nm)	0.15	4.83644 (mg/L)	1019.86549	0.15
12/14/2021 18:14:40	2112G62-006EPDS/40x	Sr (407.771 nm)	0.28	4.47697 (mg/L)	8647571.44388	0.28
12/14/2021 18:14:40	2112G62-006EPDS/40x	Ti (337.280 nm)	0.15	4.99364 (mg/L)	92862.86700	0.15
12/14/2021 18:14:40	2112G62-006EPDS/40x	Tl (351.923 nm)	0.06	5.03727 (mg/L)	3725.90815	0.06
12/14/2021 18:14:40	2112G62-006EPDS/40x	V (311.837 nm)	0.40	4.83571 (mg/L)	99757.50524	0.40
12/14/2021 18:14:40	2112G62-006EPDS/40x	Zn (206.200 nm)	0.14	4.89330 (mg/L)	3102.62737	0.14
12/14/2021 18:17:51	2112G62-004D/20x	Ag (328.068 nm)	> 100.00	0.00004 u (mg/L)	1.63233	97.24
12/14/2021 18:17:51	2112G62-004D/20x	Al (308.215 nm)	0.08	4.25152 (mg/L)	11432.09659	0.07
12/14/2021 18:17:51	2112G62-004D/20x	As (193.696 nm)	24.47	0.00636 (mg/L)	4.29267	8.71
12/14/2021 18:17:51	2112G62-004D/20x	B (249.772 nm)	5.02	0.00854 (mg/L)	168.06892	3.22
12/14/2021 18:17:51	2112G62-004D/20x	Ba (413.064 nm)	2.28	0.06035 (mg/L)	472.36539	1.97

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 18:17:51	2112G62-004D/20x	Be (313.042 nm)	15.36	0.00007 (mg/L)	217.33721	4.78
12/14/2021 18:17:51	2112G62-004D/20x	Ca (373.690 nm)	0.05	1.88606 (mg/L)	4928.77174	0.05
12/14/2021 18:17:51	2112G62-004D/20x	Cd (228.802 nm)	> 100.00	0.00003 u (mg/L)	11.33996	21.39
12/14/2021 18:17:51	2112G62-004D/20x	Co (230.786 nm)	0.43	0.24988 (mg/L)	847.09113	0.43
12/14/2021 18:17:51	2112G62-004D/20x	Cr (267.716 nm)	2.51	0.00713 (mg/L)	128.05645	2.02
12/14/2021 18:17:51	2112G62-004D/20x	Cu (327.395 nm)	0.15	0.03262 (mg/L)	532.06503	0.15
12/14/2021 18:17:51	2112G62-004D/20x	Fe (238.204 nm)	0.41	5.89387 (mg/L)	40826.01940	0.41
12/14/2021 18:17:51	2112G62-004D/20x	K (766.491 nm)	1.38	1.34596 (mg/L)	1641.22066	1.33
12/14/2021 18:17:51	2112G62-004D/20x	Mg (279.800 nm)	0.23	1.80496 (mg/L)	1515.03505	0.23
12/14/2021 18:17:51	2112G62-004D/20x	Mn (257.610 nm)	0.12	0.25428 (mg/L)	25802.42890	0.12
12/14/2021 18:17:51	2112G62-004D/20x	Mo (204.598 nm)	25.03	0.00493 (mg/L)	7.32766	16.06
12/14/2021 18:17:51	2112G62-004D/20x	Na (589.592 nm)	1.04	0.17639 (mg/L)	1838.00925	0.80
12/14/2021 18:17:51	2112G62-004D/20x	Ni (221.648 nm)	0.60	0.10360 (mg/L)	69.89276	0.58
12/14/2021 18:17:51	2112G62-004D/20x	P (213.618 nm)	1.45	0.30514 (mg/L)	75.79257	1.50
12/14/2021 18:17:51	2112G62-004D/20x	Pb (220.353 nm)	29.03	0.01107 (mg/L)	5.58520	33.55
12/14/2021 18:17:51	2112G62-004D/20x	S (181.972 nm)	40.55	0.30068 (mg/L)	5.37621	33.37
12/14/2021 18:17:51	2112G62-004D/20x	Sb (217.582 nm)	10.57	0.02511 (mg/L)	10.08010	10.12
12/14/2021 18:17:51	2112G62-004D/20x	Se (196.026 nm)	62.26	0.00864 (mg/L)	9.96767	14.17
12/14/2021 18:17:51	2112G62-004D/20x	Sn (189.925 nm)	71.52	0.00773 (mg/L)	3.02177	38.51
12/14/2021 18:17:51	2112G62-004D/20x	Sr (407.771 nm)	0.83	0.01017 (mg/L)	19910.54692	0.82
12/14/2021 18:17:51	2112G62-004D/20x	Ti (337.280 nm)	0.24	0.28422 (mg/L)	5308.76870	0.24
12/14/2021 18:17:51	2112G62-004D/20x	Tl (351.923 nm)	> 100.00	0.00595 u (mg/L)	-2.44702	> 100.00
12/14/2021 18:17:51	2112G62-004D/20x	V (311.837 nm)	1.11	0.01103 (mg/L)	233.41464	1.08
12/14/2021 18:17:51	2112G62-004D/20x	Zn (206.200 nm)	0.42	0.36220 (mg/L)	232.68364	0.41
12/14/2021 18:21:01	2112G62-005D/20x	Ag (328.068 nm)	> 100.00	0.00013 (mg/L)	3.74554	89.88
12/14/2021 18:21:01	2112G62-005D/20x	Al (308.215 nm)	0.15	6.50744 (mg/L)	17248.03101	0.14
12/14/2021 18:21:01	2112G62-005D/20x	As (193.696 nm)	29.33	0.00911 (mg/L)	4.95503	12.97
12/14/2021 18:21:01	2112G62-005D/20x	B (249.772 nm)	2.04	0.00684 (mg/L)	146.62959	1.20
12/14/2021 18:21:01	2112G62-005D/20x	Ba (413.064 nm)	0.93	0.05985 (mg/L)	468.96320	0.80
12/14/2021 18:21:01	2112G62-005D/20x	Be (313.042 nm)	1.14	-0.00057 u (mg/L)	-391.56587	1.57
12/14/2021 18:21:01	2112G62-005D/20x	Ca (373.690 nm)	0.28	1.76412 (mg/L)	4605.52089	0.28
12/14/2021 18:21:01	2112G62-005D/20x	Cd (228.802 nm)	> 100.00	-0.00018 u (mg/L)	9.64318	15.33
12/14/2021 18:21:01	2112G62-005D/20x	Co (230.786 nm)	0.93	0.07508 (mg/L)	255.38490	0.93
12/14/2021 18:21:01	2112G62-005D/20x	Cr (267.716 nm)	2.35	0.00977 (mg/L)	166.23756	2.00
12/14/2021 18:21:01	2112G62-005D/20x	Cu (327.395 nm)	1.11	0.03109 (mg/L)	507.53885	1.09
12/14/2021 18:21:01	2112G62-005D/20x	Fe (238.204 nm)	0.36	7.71059 (mg/L)	53388.23870	0.36
12/14/2021 18:21:01	2112G62-005D/20x	K (766.491 nm)	2.26	1.33083 (mg/L)	1623.54790	2.16
12/14/2021 18:21:01	2112G62-005D/20x	Mg (279.800 nm)	0.10	1.99316 (mg/L)	1672.45418	0.10
12/14/2021 18:21:01	2112G62-005D/20x	Mn (257.610 nm)	0.07	0.20580 (mg/L)	20887.97067	0.07
12/14/2021 18:21:01	2112G62-005D/20x	Mo (204.598 nm)	> 100.00	0.00107 u (mg/L)	3.65143	30.56
12/14/2021 18:21:01	2112G62-005D/20x	Na (589.592 nm)	0.88	0.17038 (mg/L)	1789.85503	0.67
12/14/2021 18:21:01	2112G62-005D/20x	Ni (221.648 nm)	3.98	0.07529 (mg/L)	51.31392	3.83
12/14/2021 18:21:01	2112G62-005D/20x	P (213.618 nm)	1.22	0.36781 (mg/L)	91.90836	1.25
12/14/2021 18:21:01	2112G62-005D/20x	Pb (220.353 nm)	7.54	0.01106 (mg/L)	5.58302	8.72
12/14/2021 18:21:01	2112G62-005D/20x	S (181.972 nm)	4.01	0.44564 (mg/L)	7.50919	3.50
12/14/2021 18:21:01	2112G62-005D/20x	Sb (217.582 nm)	34.69	0.01338 (mg/L)	5.57243	32.03
12/14/2021 18:21:01	2112G62-005D/20x	Se (196.026 nm)	> 100.00	0.00246 u (mg/L)	8.34438	10.07
12/14/2021 18:21:01	2112G62-005D/20x	Sn (189.925 nm)	> 100.00	0.00636 (mg/L)	2.73404	72.03

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 18:21:01	2112G62-005D/20x	Sr (407.771 nm)	0.64	0.00887 (mg/L)	17404.77804	0.63
12/14/2021 18:21:01	2112G62-005D/20x	Ti (337.280 nm)	0.23	0.34908 (mg/L)	6514.57786	0.23
12/14/2021 18:21:01	2112G62-005D/20x	Tl (351.923 nm)	51.86	0.01377 (mg/L)	3.34301	> 100.00
12/14/2021 18:21:01	2112G62-005D/20x	V (311.837 nm)	1.11	0.01591 (mg/L)	334.09338	1.09
12/14/2021 18:21:01	2112G62-005D/20x	Zn (206.200 nm)	0.70	0.40313 (mg/L)	258.61165	0.70
12/14/2021 18:24:10	2112G62-007C/20x	Ag (328.068 nm)	> 100.00	0.00005 u (mg/L)	1.78861	> 100.00
12/14/2021 18:24:10	2112G62-007C/20x	Al (308.215 nm)	0.34	4.92845 (mg/L)	13177.28389	0.33
12/14/2021 18:24:10	2112G62-007C/20x	As (193.696 nm)	37.26	0.01615 (mg/L)	6.64745	21.77
12/14/2021 18:24:10	2112G62-007C/20x	B (249.772 nm)	2.50	0.00693 (mg/L)	147.72767	1.48
12/14/2021 18:24:10	2112G62-007C/20x	Ba (413.064 nm)	2.94	0.03735 (mg/L)	317.35278	2.33
12/14/2021 18:24:10	2112G62-007C/20x	Be (313.042 nm)	0.81	-0.00038 u (mg/L)	-213.24366	1.38
12/14/2021 18:24:10	2112G62-007C/20x	Ca (373.690 nm)	0.30	0.74209 (mg/L)	1896.31975	0.31
12/14/2021 18:24:10	2112G62-007C/20x	Cd (228.802 nm)	> 100.00	-0.00009 u (mg/L)	10.38209	30.25
12/14/2021 18:24:10	2112G62-007C/20x	Co (230.786 nm)	2.99	0.02945 (mg/L)	100.89755	2.96
12/14/2021 18:24:10	2112G62-007C/20x	Cr (267.716 nm)	3.48	0.00841 (mg/L)	146.60126	2.89
12/14/2021 18:24:10	2112G62-007C/20x	Cu (327.395 nm)	1.01	0.01927 (mg/L)	318.48133	0.97
12/14/2021 18:24:10	2112G62-007C/20x	Fe (238.204 nm)	0.40	11.35576 (mg/L)	78593.75502	0.40
12/14/2021 18:24:10	2112G62-007C/20x	K (766.491 nm)	1.05	1.02124 (mg/L)	1261.91172	1.00
12/14/2021 18:24:10	2112G62-007C/20x	Mg (279.800 nm)	0.31	1.34218 (mg/L)	1127.95024	0.31
12/14/2021 18:24:10	2112G62-007C/20x	Mn (257.610 nm)	0.30	0.13908 (mg/L)	14123.99561	0.30
12/14/2021 18:24:10	2112G62-007C/20x	Mo (204.598 nm)	> 100.00	0.00026 u (mg/L)	2.87189	53.44
12/14/2021 18:24:10	2112G62-007C/20x	Na (589.592 nm)	0.58	0.11951 (mg/L)	1381.73930	0.40
12/14/2021 18:24:10	2112G62-007C/20x	Ni (221.648 nm)	4.26	0.04873 (mg/L)	33.89323	4.02
12/14/2021 18:24:10	2112G62-007C/20x	P (213.618 nm)	4.70	0.19527 (mg/L)	47.53385	4.97
12/14/2021 18:24:10	2112G62-007C/20x	Pb (220.353 nm)	10.14	0.01180 (mg/L)	6.01376	11.61
12/14/2021 18:24:10	2112G62-007C/20x	S (181.972 nm)	36.52	0.23065 (mg/L)	4.34561	28.52
12/14/2021 18:24:10	2112G62-007C/20x	Sb (217.582 nm)	33.82	0.00411 (mg/L)	2.00895	26.62
12/14/2021 18:24:10	2112G62-007C/20x	Se (196.026 nm)	> 100.00	0.00114 u (mg/L)	7.99762	20.37
12/14/2021 18:24:10	2112G62-007C/20x	Sn (189.925 nm)	45.29	0.00809 (mg/L)	3.09785	24.90
12/14/2021 18:24:10	2112G62-007C/20x	Sr (407.771 nm)	0.37	0.00341 (mg/L)	6843.68539	0.35
12/14/2021 18:24:10	2112G62-007C/20x	Ti (337.280 nm)	0.55	0.35130 (mg/L)	6555.84343	0.55
12/14/2021 18:24:10	2112G62-007C/20x	Tl (351.923 nm)	> 100.00	-0.00697 u (mg/L)	-12.01926	46.41
12/14/2021 18:24:10	2112G62-007C/20x	V (311.837 nm)	1.33	0.02078 (mg/L)	434.57854	1.31
12/14/2021 18:24:10	2112G62-007C/20x	Zn (206.200 nm)	1.24	0.32410 (mg/L)	208.55496	1.22
12/14/2021 18:27:18	2112G62-008D/20x	Ag (328.068 nm)	> 100.00	0.00000 u (mg/L)	0.60724	> 100.00
12/14/2021 18:27:18	2112G62-008D/20x	Al (308.215 nm)	0.15	3.00959 (mg/L)	8230.32119	0.14
12/14/2021 18:27:18	2112G62-008D/20x	As (193.696 nm)	67.88	0.00805 (mg/L)	4.69984	27.95
12/14/2021 18:27:18	2112G62-008D/20x	B (249.772 nm)	0.95	0.00497 (mg/L)	123.04683	0.48
12/14/2021 18:27:18	2112G62-008D/20x	Ba (413.064 nm)	2.28	0.04649 (mg/L)	378.94063	1.88
12/14/2021 18:27:18	2112G62-008D/20x	Be (313.042 nm)	14.89	0.00004 (mg/L)	185.90411	2.90
12/14/2021 18:27:18	2112G62-008D/20x	Ca (373.690 nm)	0.44	2.78124 (mg/L)	7301.74598	0.44
12/14/2021 18:27:18	2112G62-008D/20x	Cd (228.802 nm)	> 100.00	-0.00008 u (mg/L)	10.48830	11.25
12/14/2021 18:27:18	2112G62-008D/20x	Co (230.786 nm)	72.72	0.00054 (mg/L)	3.05955	43.67
12/14/2021 18:27:18	2112G62-008D/20x	Cr (267.716 nm)	2.18	0.00538 (mg/L)	102.82024	1.65
12/14/2021 18:27:18	2112G62-008D/20x	Cu (327.395 nm)	1.64	0.00396 (mg/L)	73.69944	1.41
12/14/2021 18:27:18	2112G62-008D/20x	Fe (238.204 nm)	0.32	3.53097 (mg/L)	24487.08394	0.32
12/14/2021 18:27:18	2112G62-008D/20x	K (766.491 nm)	3.53	0.67117 (mg/L)	852.98169	3.24
12/14/2021 18:27:18	2112G62-008D/20x	Mg (279.800 nm)	0.08	0.47384 (mg/L)	401.64684	0.08

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 18:27:18	2112G62-008D/20x	Mn (257.610 nm)	0.29	0.43404 (mg/L)	44026.40382	0.29
12/14/2021 18:27:18	2112G62-008D/20x	Mo (204.598 nm)	> 100.00	0.00126 u (mg/L)	3.83267	47.51
12/14/2021 18:27:18	2112G62-008D/20x	Na (589.592 nm)	1.04	0.10910 (mg/L)	1298.25409	0.70
12/14/2021 18:27:18	2112G62-008D/20x	Ni (221.648 nm)	54.29	0.00152 (mg/L)	2.91548	18.58
12/14/2021 18:27:18	2112G62-008D/20x	P (213.618 nm)	2.19	0.12678 (mg/L)	29.91958	2.39
12/14/2021 18:27:18	2112G62-008D/20x	Pb (220.353 nm)	50.80	0.00412 (mg/L)	1.53311	79.60
12/14/2021 18:27:18	2112G62-008D/20x	S (181.972 nm)	56.24	0.12900 (mg/L)	2.84986	37.46
12/14/2021 18:27:18	2112G62-008D/20x	Sb (217.582 nm)	> 100.00	0.00016 u (mg/L)	0.48998	29.19
12/14/2021 18:27:18	2112G62-008D/20x	Se (196.026 nm)	97.25	-0.00431 u (mg/L)	6.56655	16.77
12/14/2021 18:27:18	2112G62-008D/20x	Sn (189.925 nm)	> 100.00	0.00048 u (mg/L)	1.49512	65.36
12/14/2021 18:27:18	2112G62-008D/20x	Sr (407.771 nm)	0.94	0.00977 (mg/L)	19141.20285	0.93
12/14/2021 18:27:18	2112G62-008D/20x	Ti (337.280 nm)	0.41	0.07173 (mg/L)	1358.17565	0.40
12/14/2021 18:27:18	2112G62-008D/20x	Tl (351.923 nm)	93.03	-0.00531 u (mg/L)	-10.79152	33.91
12/14/2021 18:27:18	2112G62-008D/20x	V (311.837 nm)	3.97	0.00551 (mg/L)	119.48136	3.78
12/14/2021 18:27:18	2112G62-008D/20x	Zn (206.200 nm)	6.74	0.04302 (mg/L)	30.52185	6.02
12/14/2021 18:30:27	2112G62-009B/20x	Ag (328.068 nm)	87.88	0.00014 (mg/L)	3.83136	72.30
12/14/2021 18:30:27	2112G62-009B/20x	Al (308.215 nm)	0.20	6.88105 (mg/L)	18211.23265	0.20
12/14/2021 18:30:27	2112G62-009B/20x	As (193.696 nm)	38.92	0.00752 (mg/L)	4.57129	15.39
12/14/2021 18:30:27	2112G62-009B/20x	B (249.772 nm)	4.59	0.00495 (mg/L)	122.77155	2.33
12/14/2021 18:30:27	2112G62-009B/20x	Ba (413.064 nm)	1.50	0.03850 (mg/L)	325.11360	1.20
12/14/2021 18:30:27	2112G62-009B/20x	Be (313.042 nm)	1.71	-0.00039 u (mg/L)	-220.98668	2.87
12/14/2021 18:30:27	2112G62-009B/20x	Ca (373.690 nm)	0.58	1.17350 (mg/L)	3039.90055	0.60
12/14/2021 18:30:27	2112G62-009B/20x	Cd (228.802 nm)	> 100.00	0.00006 u (mg/L)	11.63730	11.10
12/14/2021 18:30:27	2112G62-009B/20x	Co (230.786 nm)	53.49	0.00124 (mg/L)	5.43414	41.46
12/14/2021 18:30:27	2112G62-009B/20x	Cr (267.716 nm)	3.67	0.00721 (mg/L)	129.21860	2.96
12/14/2021 18:30:27	2112G62-009B/20x	Cu (327.395 nm)	2.28	0.00997 (mg/L)	169.83607	2.14
12/14/2021 18:30:27	2112G62-009B/20x	Fe (238.204 nm)	0.33	7.65485 (mg/L)	53002.80635	0.33
12/14/2021 18:30:27	2112G62-009B/20x	K (766.491 nm)	1.61	1.01731 (mg/L)	1257.31674	1.52
12/14/2021 18:30:27	2112G62-009B/20x	Mg (279.800 nm)	0.73	0.86231 (mg/L)	726.57650	0.72
12/14/2021 18:30:27	2112G62-009B/20x	Mn (257.610 nm)	0.22	0.16765 (mg/L)	17020.42403	0.22
12/14/2021 18:30:27	2112G62-009B/20x	Mo (204.598 nm)	> 100.00	-0.00072 u (mg/L)	1.93894	70.68
12/14/2021 18:30:27	2112G62-009B/20x	Na (589.592 nm)	2.45	0.10454 (mg/L)	1261.63863	1.63
12/14/2021 18:30:27	2112G62-009B/20x	Ni (221.648 nm)	12.55	0.00558 (mg/L)	5.58171	8.24
12/14/2021 18:30:27	2112G62-009B/20x	P (213.618 nm)	2.22	0.24883 (mg/L)	61.30955	2.31
12/14/2021 18:30:27	2112G62-009B/20x	Pb (220.353 nm)	19.22	0.01068 (mg/L)	5.35783	22.34
12/14/2021 18:30:27	2112G62-009B/20x	S (181.972 nm)	33.03	0.28371 (mg/L)	5.12642	26.90
12/14/2021 18:30:27	2112G62-009B/20x	Sb (217.582 nm)	> 100.00	-0.00008 u (mg/L)	0.39836	> 100.00
12/14/2021 18:30:27	2112G62-009B/20x	Se (196.026 nm)	> 100.00	0.00333 u (mg/L)	8.57309	19.38
12/14/2021 18:30:27	2112G62-009B/20x	Sn (189.925 nm)	> 100.00	-0.00432 u (mg/L)	0.48456	> 100.00
12/14/2021 18:30:27	2112G62-009B/20x	Sr (407.771 nm)	0.30	0.00590 (mg/L)	11660.89671	0.29
12/14/2021 18:30:27	2112G62-009B/20x	Ti (337.280 nm)	0.34	0.24524 (mg/L)	4584.05347	0.34
12/14/2021 18:30:27	2112G62-009B/20x	Tl (351.923 nm)	> 100.00	0.00209 u (mg/L)	-5.31153	43.27
12/14/2021 18:30:27	2112G62-009B/20x	V (311.837 nm)	0.57	0.01926 (mg/L)	403.18673	0.56
12/14/2021 18:30:27	2112G62-009B/20x	Zn (206.200 nm)	0.98	0.18493 (mg/L)	120.40535	0.95
12/14/2021 18:33:36	2112G62-010A/20x	Ag (328.068 nm)	60.11	-0.00010 u (mg/L)	-1.56332	86.24
12/14/2021 18:33:36	2112G62-010A/20x	Al (308.215 nm)	0.47	0.13876 (mg/L)	829.08888	0.20
12/14/2021 18:33:36	2112G62-010A/20x	As (193.696 nm)	44.07	0.00650 (mg/L)	4.32765	15.92
12/14/2021 18:33:36	2112G62-010A/20x	B (249.772 nm)	46.27	-0.00047 u (mg/L)	54.49915	5.02

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 18:33:36	2112G62-010A/20x	Ba (413.064 nm)	> 100.00	0.00114 (mg/L)	73.25790	10.69
12/14/2021 18:33:36	2112G62-010A/20x	Be (313.042 nm)	7.46	0.00002 (mg/L)	171.62815	0.95
12/14/2021 18:33:36	2112G62-010A/20x	Ca (373.690 nm)	5.92	0.04162 (mg/L)	39.49387	16.55
12/14/2021 18:33:36	2112G62-010A/20x	Cd (228.802 nm)	55.58	-0.00038 u (mg/L)	8.00865	21.55
12/14/2021 18:33:36	2112G62-010A/20x	Co (230.786 nm)	5.76	0.00635 (mg/L)	22.71426	5.45
12/14/2021 18:33:36	2112G62-010A/20x	Cr (267.716 nm)	17.87	0.00034 (mg/L)	29.82987	2.93
12/14/2021 18:33:36	2112G62-010A/20x	Cu (327.395 nm)	20.13	0.00142 (mg/L)	32.97730	13.81
12/14/2021 18:33:36	2112G62-010A/20x	Fe (238.204 nm)	0.50	0.45250 (mg/L)	3200.17069	0.49
12/14/2021 18:33:36	2112G62-010A/20x	K (766.491 nm)	15.41	0.06984 (mg/L)	150.55797	8.35
12/14/2021 18:33:36	2112G62-010A/20x	Mg (279.800 nm)	31.10	0.00706 (mg/L)	11.21797	16.37
12/14/2021 18:33:36	2112G62-010A/20x	Mn (257.610 nm)	0.88	0.00579 (mg/L)	610.36324	0.85
12/14/2021 18:33:36	2112G62-010A/20x	Mo (204.598 nm)	> 100.00	-0.00039 u (mg/L)	2.25130	74.60
12/14/2021 18:33:36	2112G62-010A/20x	Na (589.592 nm)	15.84	0.01269 (mg/L)	524.86906	3.07
12/14/2021 18:33:36	2112G62-010A/20x	Ni (221.648 nm)	5.67	0.01734 (mg/L)	13.29660	4.86
12/14/2021 18:33:36	2112G62-010A/20x	P (213.618 nm)	75.37	0.00611 (mg/L)	-1.11693	> 100.00
12/14/2021 18:33:36	2112G62-010A/20x	Pb (220.353 nm)	> 100.00	0.00001 u (mg/L)	-0.86311	48.97
12/14/2021 18:33:36	2112G62-010A/20x	S (181.972 nm)	> 100.00	-0.05279 u (mg/L)	0.17484	> 100.00
12/14/2021 18:33:36	2112G62-010A/20x	Sb (217.582 nm)	> 100.00	-0.00031 u (mg/L)	0.30993	> 100.00
12/14/2021 18:33:36	2112G62-010A/20x	Se (196.026 nm)	> 100.00	-0.00788 u (mg/L)	5.63104	52.77
12/14/2021 18:33:36	2112G62-010A/20x	Sn (189.925 nm)	> 100.00	-0.00059 u (mg/L)	1.27124	82.16
12/14/2021 18:33:36	2112G62-010A/20x	Sr (407.771 nm)	10.71	0.00021 (mg/L)	672.75959	6.51
12/14/2021 18:33:36	2112G62-010A/20x	Ti (337.280 nm)	5.25	0.00875 (mg/L)	187.32579	4.55
12/14/2021 18:33:36	2112G62-010A/20x	Tl (351.923 nm)	88.29	0.00526 (mg/L)	-2.95734	> 100.00
12/14/2021 18:33:36	2112G62-010A/20x	V (311.837 nm)	20.02	0.00072 (mg/L)	20.73709	14.38
12/14/2021 18:33:36	2112G62-010A/20x	Zn (206.200 nm)	51.36	0.00279 (mg/L)	5.03993	18.01
12/14/2021 18:36:48	Cont Calib Verif	Ag (328.068 nm)	0.36	0.09786 (mg/L)	2229.16280	0.36
12/14/2021 18:36:48	Cont Calib Verif	Al (308.215 nm)	0.30	9.82945 (mg/L)	25812.41634	0.29
12/14/2021 18:36:48	Cont Calib Verif	As (193.696 nm)	0.69	1.02328 (mg/L)	248.80210	0.68
12/14/2021 18:36:48	Cont Calib Verif	B (249.772 nm)	0.38	0.95389 (mg/L)	12084.18883	0.38
12/14/2021 18:36:48	Cont Calib Verif	Ba (413.064 nm)	0.45	0.99112 (mg/L)	6745.63954	0.44
12/14/2021 18:36:48	Cont Calib Verif	Be (313.042 nm)	0.57	0.99591 (mg/L)	945683.19491	0.57
12/14/2021 18:36:48	Cont Calib Verif	Ca (373.690 nm)	0.40	9.85413 (mg/L)	26050.72366	0.40
12/14/2021 18:36:48	Cont Calib Verif	Cd (228.802 nm)	0.05	0.98085 (mg/L)	7955.44411	0.05
12/14/2021 18:36:48	Cont Calib Verif	Co (230.786 nm)	0.20	0.99369 (mg/L)	3364.99491	0.20
12/14/2021 18:36:48	Cont Calib Verif	Cr (267.716 nm)	0.25	1.00176 (mg/L)	14514.65576	0.25
12/14/2021 18:36:48	Cont Calib Verif	Cu (327.395 nm)	0.33	0.98090 (mg/L)	15697.15430	0.33
12/14/2021 18:36:48	Cont Calib Verif	Fe (238.204 nm)	0.27	10.38794 (mg/L)	71901.49499	0.27
12/14/2021 18:36:48	Cont Calib Verif	K (766.491 nm)	0.27	9.63569 (mg/L)	11324.64685	0.27
12/14/2021 18:36:48	Cont Calib Verif	Mg (279.800 nm)	0.19	9.88170 (mg/L)	8270.66105	0.19
12/14/2021 18:36:48	Cont Calib Verif	Mn (257.610 nm)	0.33	0.98660 (mg/L)	100043.83424	0.33
12/14/2021 18:36:48	Cont Calib Verif	Mo (204.598 nm)	0.77	0.98817 (mg/L)	945.76894	0.76
12/14/2021 18:36:48	Cont Calib Verif	Na (589.592 nm)	0.26	9.79284 (mg/L)	78978.60277	0.26
12/14/2021 18:36:48	Cont Calib Verif	Ni (221.648 nm)	0.75	0.98751 (mg/L)	649.84991	0.75
12/14/2021 18:36:48	Cont Calib Verif	P (213.618 nm)	0.30	0.98313 (mg/L)	250.16424	0.30
12/14/2021 18:36:48	Cont Calib Verif	Pb (220.353 nm)	0.40	0.98664 (mg/L)	574.50500	0.40
12/14/2021 18:36:48	Cont Calib Verif	S (181.972 nm)	0.97	1.06755 (mg/L)	16.66073	0.92
12/14/2021 18:36:48	Cont Calib Verif	Sb (217.582 nm)	0.39	1.00880 (mg/L)	388.24512	0.39
12/14/2021 18:36:48	Cont Calib Verif	Se (196.026 nm)	0.73	1.00419 (mg/L)	271.28070	0.71

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/14/2021 18:36:48	Cont Calib Verif	Sn (189.925 nm)	0.94	0.99935 (mg/L)	211.84150	0.94
12/14/2021 18:36:48	Cont Calib Verif	Sr (407.771 nm)	0.31	0.93695 (mg/L)	1809985.67384	0.31
12/14/2021 18:36:48	Cont Calib Verif	Ti (337.280 nm)	0.31	0.99097 (mg/L)	18448.14649	0.31
12/14/2021 18:36:48	Cont Calib Verif	Tl (351.923 nm)	0.89	0.99703 (mg/L)	731.97522	0.90
12/14/2021 18:36:48	Cont Calib Verif	V (311.837 nm)	0.34	0.97709 (mg/L)	20161.33644	0.34
12/14/2021 18:36:48	Cont Calib Verif	Zn (206.200 nm)	0.50	0.99795 (mg/L)	635.36429	0.50
12/14/2021 18:40:00	Cont Calib Blank	Ag (328.068 nm)	> 100.00	0.00001 u (mg/L)	0.85515	> 100.00
12/14/2021 18:40:00	Cont Calib Blank	Al (308.215 nm)	1.82	-0.03638 u (mg/L)	377.58172	0.45
12/14/2021 18:40:00	Cont Calib Blank	As (193.696 nm)	96.50	0.00780 (mg/L)	4.63991	39.01
12/14/2021 18:40:00	Cont Calib Blank	B (249.772 nm)	61.82	-0.00044 u (mg/L)	54.90623	6.20
12/14/2021 18:40:00	Cont Calib Blank	Ba (413.064 nm)	63.36	-0.00084 u (mg/L)	59.95314	5.97
12/14/2021 18:40:00	Cont Calib Blank	Be (313.042 nm)	24.47	0.00001 (mg/L)	159.94649	1.57
12/14/2021 18:40:00	Cont Calib Blank	Ca (373.690 nm)	18.02	-0.00460 u (mg/L)	-83.01703	2.64
12/14/2021 18:40:00	Cont Calib Blank	Cd (228.802 nm)	> 100.00	-0.00007 u (mg/L)	10.52169	19.81
12/14/2021 18:40:00	Cont Calib Blank	Co (230.786 nm)	> 100.00	0.00030 u (mg/L)	2.24760	58.09
12/14/2021 18:40:00	Cont Calib Blank	Cr (267.716 nm)	20.85	-0.00070 u (mg/L)	14.84603	14.18
12/14/2021 18:40:00	Cont Calib Blank	Cu (327.395 nm)	> 100.00	-0.00019 u (mg/L)	7.26906	46.92
12/14/2021 18:40:00	Cont Calib Blank	Fe (238.204 nm)	7.94	-0.00513 u (mg/L)	35.76354	7.87
12/14/2021 18:40:00	Cont Calib Blank	K (766.491 nm)	10.57	0.07161 (mg/L)	152.62066	5.79
12/14/2021 18:40:00	Cont Calib Blank	Mg (279.800 nm)	> 100.00	0.00036 u (mg/L)	5.61199	42.58
12/14/2021 18:40:00	Cont Calib Blank	Mn (257.610 nm)	> 100.00	0.00004 (mg/L)	28.26900	17.30
12/14/2021 18:40:00	Cont Calib Blank	Mo (204.598 nm)	45.51	-0.00189 u (mg/L)	0.82302	99.71
12/14/2021 18:40:00	Cont Calib Blank	Na (589.592 nm)	27.95	0.00283 (mg/L)	445.80646	1.43
12/14/2021 18:40:00	Cont Calib Blank	Ni (221.648 nm)	> 100.00	-0.00043 u (mg/L)	1.63569	48.41
12/14/2021 18:40:00	Cont Calib Blank	P (213.618 nm)	> 100.00	0.00059 u (mg/L)	-2.53582	36.31
12/14/2021 18:40:00	Cont Calib Blank	Pb (220.353 nm)	> 100.00	0.00036 u (mg/L)	-0.66015	> 100.00
12/14/2021 18:40:00	Cont Calib Blank	S (181.972 nm)	> 100.00	-0.03711 u (mg/L)	0.40560	> 100.00
12/14/2021 18:40:00	Cont Calib Blank	Sb (217.582 nm)	46.81	0.00471 (mg/L)	2.23736	37.86
12/14/2021 18:40:00	Cont Calib Blank	Se (196.026 nm)	> 100.00	0.00192 u (mg/L)	8.20173	20.42
12/14/2021 18:40:00	Cont Calib Blank	Sn (189.925 nm)	> 100.00	-0.00052 u (mg/L)	1.28528	29.70
12/14/2021 18:40:00	Cont Calib Blank	Sr (407.771 nm)	59.96	0.00001 (mg/L)	284.32182	4.32
12/14/2021 18:40:00	Cont Calib Blank	Ti (337.280 nm)	61.33	0.00034 (mg/L)	31.03775	12.60
12/14/2021 18:40:00	Cont Calib Blank	Tl (351.923 nm)	> 100.00	0.00169 u (mg/L)	-5.60629	40.32
12/14/2021 18:40:00	Cont Calib Blank	V (311.837 nm)	> 100.00	-0.00002 u (mg/L)	5.49985	46.31
12/14/2021 18:40:00	Cont Calib Blank	Zn (206.200 nm)	> 100.00	0.00014 u (mg/L)	3.36284	8.69
12/14/2021 18:43:11	MB-327295	Ag (328.068 nm)	> 100.00	0.00013 (mg/L)	3.56111	86.03
12/14/2021 18:43:11	MB-327295	Al (308.215 nm)	2.85	-0.06690 u (mg/L)	298.89197	1.64
12/14/2021 18:43:11	MB-327295	As (193.696 nm)	85.43	0.00779 (mg/L)	4.63665	34.50
12/14/2021 18:43:11	MB-327295	B (249.772 nm)	15.69	-0.00044 u (mg/L)	54.84957	1.59
12/14/2021 18:43:11	MB-327295	Ba (413.064 nm)	13.81	0.00184 (mg/L)	77.98198	2.19
12/14/2021 18:43:11	MB-327295	Be (313.042 nm)	53.89	0.00001 (mg/L)	159.11882	3.20
12/14/2021 18:43:11	MB-327295	Ca (373.690 nm)	99.82	0.00145 (mg/L)	-66.98846	5.73
12/14/2021 18:43:11	MB-327295	Cd (228.802 nm)	> 100.00	-0.00018 u (mg/L)	9.67051	29.69
12/14/2021 18:43:11	MB-327295	Co (230.786 nm)	> 100.00	0.00050 u (mg/L)	2.91214	77.80
12/14/2021 18:43:11	MB-327295	Cr (267.716 nm)	19.33	-0.00069 u (mg/L)	15.02025	12.77
12/14/2021 18:43:11	MB-327295	Cu (327.395 nm)	42.51	-0.00042 u (mg/L)	3.56024	81.03
12/14/2021 18:43:11	MB-327295	Fe (238.204 nm)	6.47	-0.00473 u (mg/L)	38.53439	5.49
12/14/2021 18:43:11	MB-327295	K (766.491 nm)	8.96	0.03371 (mg/L)	108.35094	3.26

AES, Inc
3080 Presidential Drive
Atlanta, GA 30340

Percent Moisture (Pmoist)

Ignited at 103-105°C

Date: 12/14/21
Run No.: R472462
Run ID: AB-1_ 211214A
Balance ID: 1717
Analyst JW

Oven 1 ID (AES #): 2158
Thermometer ID (AES #): 2675
Oven 2 ID (AES #): 2165
Thermometer ID (AES #): 2635

$$\% \text{ Moisture} = \frac{(B-A) - (C-A)}{(B-A)} \times 100$$

Sample ID	Pan Wt g (A)	Wet Wt. Sample + Boat g (B)	Dry Wt. Sample + Boat g (C)	% Moisture	Time In Oven	Time Out Oven	LIMS Comments
2112G62-004D	2.0447	18.0588	8.9233	57.0466	9:00AM	11:00AM	
2112G62-005D	2.1130	20.4003	10.2127	55.7086	9:00AM	11:00AM	
2112G62-006E	2.0884	18.9269	14.8298	24.3317	9:00AM	11:00AM	
2112G62-007C	2.0668	19.1752	14.8260	25.4214	9:00AM	11:00AM	
2112G62-008D	2.0798	13.9846	8.3769	47.1045	9:00AM	11:00AM	
2112G62-009B	2.1065	18.1765	11.5054	41.5128	9:00AM	11:00AM	
2112G62-010A	2.0780	19.6770	18.9990	3.8525	9:00AM	11:00AM	
2112E24-001C	2.0794	18.1669	14.2755	24.1890	9:00AM	11:00AM	
2112G56-001A	2.0737	18.9572	16.3428	15.4849	9:00AM	11:00AM	due by 12pm on 12/15/2021!
2112G56-002A	2.0978	19.0772	16.8172	13.3102	9:00AM	11:00AM	due by 12pm on 12/15/2021!
2112G56-003A	2.0847	19.1772	17.2448	11.3055	9:00AM	11:00AM	due by 12pm on 12/15/2021!
2112G56-004A	2.0569	18.8335	14.9812	22.9623	9:00AM	11:00AM	due by 12pm on 12/15/2021!
2112G56-005A	2.0806	19.7589	17.4803	12.8892	9:00AM	11:00AM	due by 12pm on 12/15/2021!
2112G56-006A	2.1011	20.6703	18.1158	13.7567	9:00AM	11:00AM	due by 12pm on 12/15/2021!
2112G56-007A	2.1015	20.1845	18.2304	10.8063	9:00AM	11:00AM	due by 12pm on 12/15/2021!
2112G56-008A	2.0863	18.1293	16.0838	12.7501	9:00AM	11:00AM	due by 12pm on 12/15/2021!
2112G56-013A	2.0724	19.7717	17.8645	10.7756	9:00AM	11:00AM	due by 12pm on 12/15/2021!
2112G56-014A	2.0810	18.5764	16.3637	13.4140	9:00AM	11:00AM	due by 12pm on 12/15/2021!
2112G56-015A	2.1146	19.4294	16.9131	14.5327	9:00AM	11:00AM	due by 12pm on 12/15/2021!
2112G56-016A	2.0782	20.8754	18.3848	13.2498	9:00AM	11:00AM	due by 12pm on 12/15/2021!
2112G56-017A	2.0945	18.3079	16.3869	11.8482	9:00AM	11:00AM	due by 12pm on 12/15/2021!
2112G56-018A	2.0554	19.0200	16.8402	12.8491	9:00AM	11:00AM	due by 12pm on 12/15/2021!
2112G56-019A	2.1093	20.8220	17.2292	19.1998	9:00AM	11:00AM	due by 12pm on 12/15/2021!
2112G56-020A	2.0584	18.4487	15.9073	15.5055	9:00AM	11:00AM	due by 12pm on 12/15/2021!
2112G56-025A	2.0933	18.6326	16.6908	11.7405	9:00AM	11:00AM	due by 12pm on 12/15/2021!
2112G56-026A	2.0738	19.6196	17.3479	12.9473	9:30AM	11:30AM	due by 12pm on 12/15/2021!
2112G56-027A	2.0669	18.3192	15.7752	15.6532	9:30AM	11:30AM	due by 12pm on 12/15/2021!
2112G56-028A	2.0943	19.5864	17.0593	14.4471	9:30AM	11:30AM	due by 12pm on 12/15/2021!
2112G56-029A	2.0933	18.7080	16.0768	15.8366	9:30AM	11:30AM	due by 12pm on 12/15/2021!
2112G56-030A	2.0781	18.6529	16.1513	15.0928	9:30AM	11:30AM	due by 12pm on 12/15/2021!
2112G56-031A	2.0934	20.4272	17.5973	15.4354	9:30AM	11:30AM	due by 12pm on 12/15/2021!
2112G56-032A	2.1033	19.9279	16.6895	18.1681	9:30AM	11:30AM	due by 12pm on 12/15/2021!
2112C48-064A	2.1084	18.7504	15.9975	16.5419	9:30AM	11:30AM	
2112C48-070A	2.0499	19.3618	16.6768	15.5096	9:30AM	11:30AM	
2112C48-069A	2.1025	20.4040	17.5829	15.4146	9:30AM	11:30AM	
2112C48-068A	2.0857	20.7744	17.7210	16.3382	9:30AM	11:30AM	
2112C48-067A	2.0770	19.5115	16.5880	16.7685	9:30AM	11:30AM	
2112C48-066A	2.0810	18.6862	15.7397	17.7444	9:30AM	11:30AM	
2112C48-065A	2.0728	19.2890	16.1459	18.2566	9:30AM	11:30AM	
2112G49-001C	2.0477	18.6470	16.4870	13.0126	9:30AM	11:30AM	
2112G49-002C	2.0720	18.6636	17.2217	8.6905	9:30AM	11:30AM	
2112G49-003C	2.0814	19.0345	16.5846	14.4510	9:30AM	11:30AM	
2112G49-004C	2.0756	20.4694	18.1922	12.3803	9:30AM	11:30AM	
2112G15-001C	2.0769	19.3442	12.8414	37.6596	9:30AM	11:30AM	

2112G15-002C	2.0678	19.5824	11.7236	44.8700	9:30AM	11:30AM	
2112G15-003C	2.0638	18.0640	12.5279	34.6002	9:30AM	11:30AM	
2112G15-004C	2.0834	19.7247	14.1861	31.3956	9:30AM	11:30AM	
2112G03-003B	2.0634	18.6561	15.0987	21.4395	9:30AM	11:30AM	
2112G03-002B	2.0839	18.7352	15.6790	18.3541	9:30AM	11:30AM	
2112G44-001A	2.0740	18.2857	16.2510	12.5508	10:00AM	12:00PM	
2112G44-002A	2.0605	20.5938	18.3876	11.9040	10:00AM	12:00PM	
2112G44-003A	2.0965	18.7557	16.6431	12.6813	10:00AM	12:00PM	
2112G44-004A	2.0699	18.5855	16.3536	13.5139	10:00AM	12:00PM	
2112G44-005A	2.0892	19.0793	16.6247	14.4472	10:00AM	12:00PM	
2112G44-006A	2.0967	19.5021	17.5496	11.2178	10:00AM	12:00PM	
2112G44-007A	2.0629	18.3133	16.8486	9.0133	10:00AM	12:00PM	
2112F54-001B	2.0463	19.1436	15.8273	19.3966	10:00AM	12:00PM	
2112G65-001A	2.0448	18.9577	17.2145	10.3069	10:00AM	12:00PM	4 DAY RUSH!! DUE WITH FULL QC 12/17
2112G65-002A	2.0747	18.5028	16.8798	9.8794	10:00AM	12:00PM	4 DAY RUSH!! DUE WITH FULL QC 12/17
2112G07-001A	2.0563	20.9061	15.1449	30.5637	10:00AM	12:00PM	
2112G08-001A	2.0884	18.3054	17.2720	6.3723	10:00AM	12:00PM	
2112G13-001B	2.1019	18.6171	17.9804	3.8552	10:00AM	12:00PM	
2112G03-001B	2.0902	18.4165	14.4849	24.0814	10:00AM	12:00PM	
2112G03-015B	2.0691	19.2964	15.0955	24.3851	10:00AM	12:00PM	
2112G03-014B	2.0723	18.4391	14.6066	23.4163	10:00AM	12:00PM	
2112G03-013B	2.0811	19.5201	15.3173	24.1000	10:00AM	12:00PM	
2112G03-012B	2.0689	18.9657	15.4072	21.0602	10:00AM	12:00PM	
2112G03-011B	2.0798	18.8503	15.3848	20.6643	10:00AM	12:00PM	
2112G03-010B	2.0932	19.7540	15.9554	21.5087	10:00AM	12:00PM	
2112G03-009B	2.0810	18.1044	14.4918	22.5458	10:00AM	12:00PM	
2112G03-008B	2.0535	18.1673	14.6522	21.8142	10:00AM	12:00PM	
2112G03-007B	2.0865	19.6216	15.4996	23.5071	10:00AM	12:00PM	
2112G03-006B	2.0512	18.3341	14.7125	22.2417	10:00AM	12:00PM	
2112G03-005B	2.0678	19.0647	15.3723	21.7240	10:00AM	12:00PM	
2112G03-004B	2.0774	18.1313	15.1456	18.5980	10:00AM	12:00PM	

Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **12/15/2021 10:25:0**
Prep End Date: **12/16/2021 10:25:0**

Prep Batch **327387** Prep Code: **7470A_W_P** Technician: **Galina Ruth**

Prep Factor Units: **mL / mL**

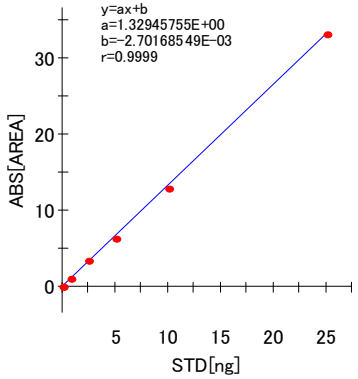
Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2112A75-001A	Leachate		0.5	0	0	5	10.000	12/15/2021	12/16/2021
2112G62-010B	Leachate		0.5	0	0	5	10.000	12/15/2021	12/16/2021
2112G62-010BMS	Leachate		0.5	0	0	5	10.000	12/15/2021	12/16/2021
2112G62-010BMSD	Leachate		0.5	0	0	5	10.000	12/15/2021	12/16/2021
2112H10-001C	Leachate		0.5	0	0	5	10.000	12/15/2021	12/16/2021
2112H10-002C	Leachate		0.5	0	0	5	10.000	12/15/2021	12/16/2021
2112K36-001C	Leachate		0.5	0	0	5	10.000	12/15/2021	12/16/2021
2112K36-002C	Leachate		0.5	0	0	5	10.000	12/15/2021	12/16/2021
LCS-327387			0.5	0	0	5	10.000	12/15/2021	12/16/2021
MB-327387			0.5	0	0	5	10.000	12/15/2021	12/16/2021

Title : 245.1/7470 by RA-4500
Date : 12/15/2021
Name : GR
Memo : Samples prepped at loaded by GR and checked NM

Method

```
SemiAutoDigest(Pretreatment:with)
Waiting time          : 0min
Color check1 try num  : Disable
Heating temp          : 95degC
Heating time          : 120min
Cooling time          : 45min
Color check2          : Enable
1% HONH3Cl            : 3.0mL
10w/v% SnCl2          : 0.3mL
Measurement Time(sec) : 120sec
Since measurement conditions are changed
 correspond with a measurement result.
```

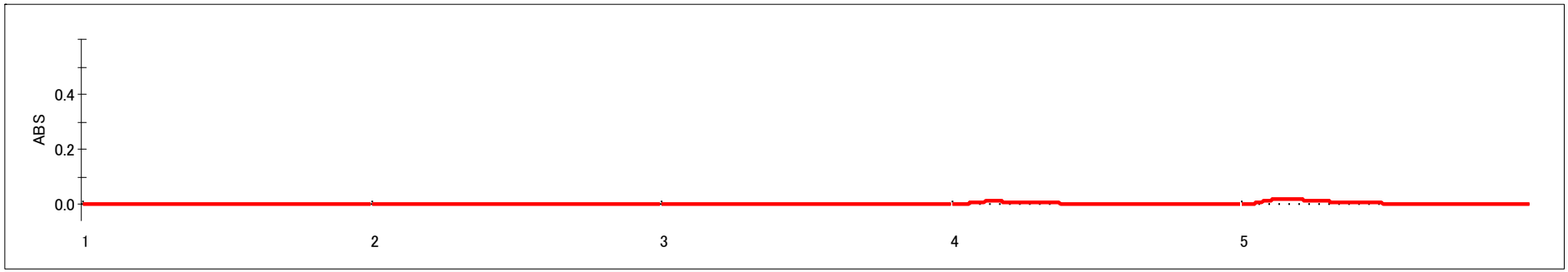
Calib

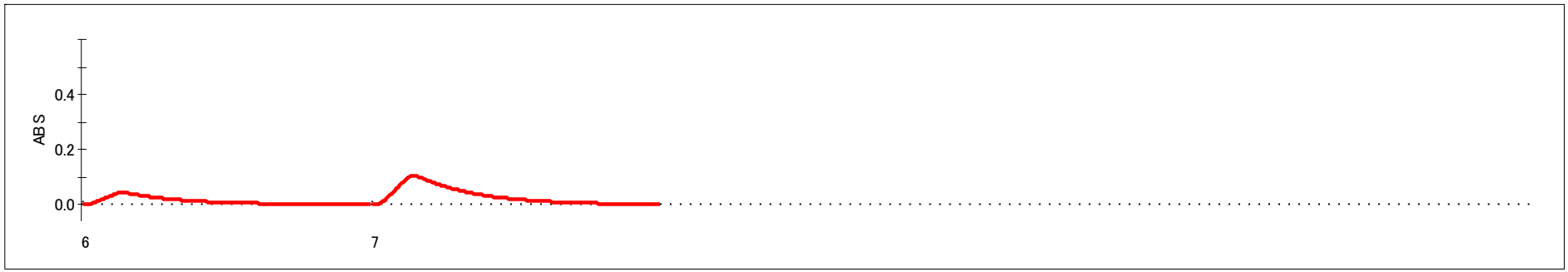


STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	Color		TIME			Note
									[1]	[2]	Pre-t.	M.START	M.END	
1	0.000	5.000	5.000	5.000	0.000	0.0830	0.0645	-	-	OK		13:16	13:18	
2	0.000	5.000	5.000	5.000	0.000	0.0711	0.0555	-	-	OK		13:20	13:22	
3	0.160	5.000	5.000	5.000	0.800	1.0333	0.7793	2.6	-	OK		13:24	13:26	
4	0.500	5.000	5.000	5.000	2.500	3.4206	2.5750	3.0	-	OK		13:28	13:30	
5	1.000	5.000	5.000	5.000	5.000	6.5138	4.9016	2.0	-	OK		13:32	13:34	
6	2.000	5.000	5.000	5.000	10.000	13.0954	9.8522	1.5	-	OK		13:35	13:38	
7	5.000	5.000	5.000	5.000	25.000	33.3294	25.0720	0.3	-	OK		13:39	13:41	

NIPPON INSTRUMENTS CORPORATION





SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Color		TIME			Note
								[1]	[2]	Pre-t.	M.STAR1	M.END	
1	ICB	5.000	5.000	5.000	0.0797	0.0620	0.012	-	OK		13:43	13:45	
2	ICV	5.000	5.000	5.000	13.2559	9.9729	1.995	-	OK		13:47	13:49	
3	IPC 2.0	5.000	5.000	5.000	13.1249	9.8744	1.975	-	OK		13:51	13:53	
4	CRA 0.16	5.000	5.000	5.000	1.0106	0.7622	0.152	-	OK		13:55	13:57	
5	MB-327327	5.000	5.000	5.000	0.0732	0.0571	0.011	-	OK		13:59	14:01	
6	LCS-327327	5.000	5.000	5.000	25.7540	19.3738	3.875	-	OK		14:03	14:05	
7	2112G62-003B	5.000	5.000	5.000	0.0948	0.0733	0.015	-	OK		14:07	14:09	
8	2112G62-003BMS	5.000	5.000	5.000	19.9738	15.0261	3.005	-	OK		14:11	14:13	
9	2112G62-003MSD	5.000	5.000	5.000	19.1931	14.4388	2.888	-	OK		14:15	14:17	
10	2112G62-012B	5.000	5.000	5.000	0.0703	0.0549	0.011	-	OK		14:19	14:21	
11	2112G62-012BMS	5.000	5.000	5.000	26.7388	20.1146	4.023	-	OK		14:23	14:25	
12	2112G62-001B	5.000	5.000	5.000	0.1008	0.0779	0.016	-	OK		14:27	14:29	

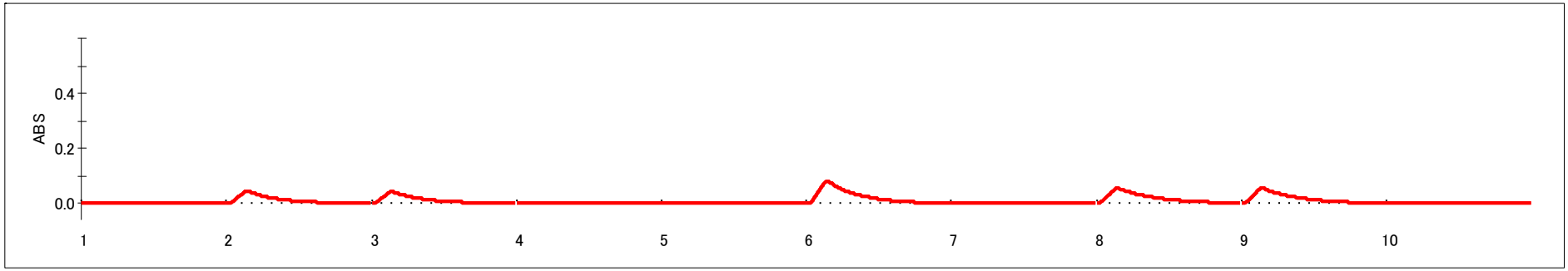
NIC NIPPON INSTRUMENTS CORPORATION

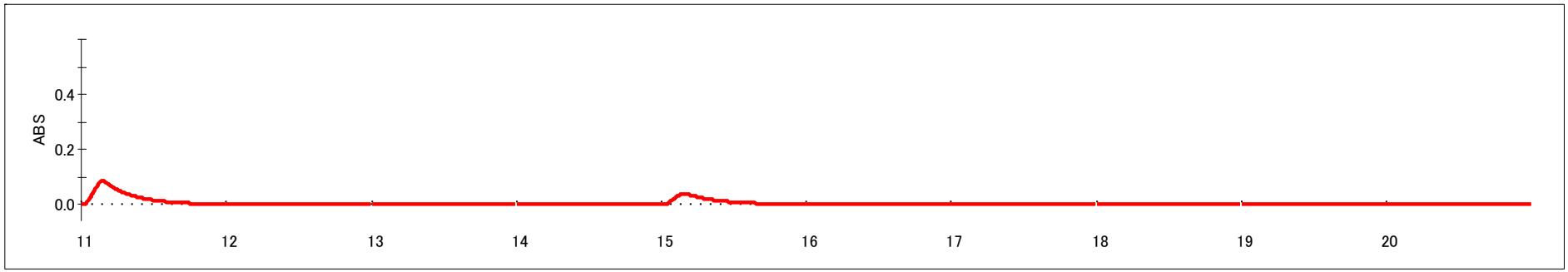
No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Color		TIME			Note
								[1]	[2]	Pre-t.	M.START	M.END	
13	2112G62-002B	5.000	5.000	5.000	0.1018	0.0786	0.016	-	OK		14:31	14:33	
14	2112G62-011B	5.000	5.000	5.000	0.0726	0.0566	0.011	-	OK		14:35	14:37	
15	CCV	5.000	5.000	5.000	13.1778	9.9142	1.983	-	-		15:03	15:05	
16	CCB	5.000	5.000	5.000	-0.0009	0.0014	0.000	-	-		15:06	15:08	
17	2112A10-001B	5.000	5.000	5.000	0.0793	0.0617	0.012	-	OK		14:50	14:52	
18	2112A57-007A	5.000	5.000	5.000	0.1177	0.0906	0.018	-	OK		15:11	15:13	
19	2112A58-007A	5.000	5.000	5.000	0.0988	0.0763	0.015	-	OK		15:15	15:17	
20	2112A59-007A	5.000	5.000	5.000	0.1507	0.1154	0.023	-	OK		15:19	15:21	
21	2112A60-007A	5.000	5.000	5.000	0.0981	0.0758	0.015	-	OK		15:23	15:25	
22	2112C45-005B	5.000	5.000	5.000	0.2108	0.1606	0.032	-	OK		15:27	15:29	
23	2112C45-006B/5X	5.000	5.000	5.000	0.9274	0.6996	0.140	-	OK		15:31	15:33	
24	CCV	5.000	5.000	5.000	12.3666	9.3040	1.861	-	OK		15:37	15:39	
25	CCB	5.000	5.000	5.000	0.1059	0.0817	0.016	-	OK		15:42	15:44	
26	MB-327387	5.000	5.000	5.000	0.0947	0.0733	0.015	-	OK		15:46	15:48	
27	LCS-327387	5.000	5.000	5.000	27.0889	20.3779	4.076	-	-		16:01	16:03	
28	2112G62-010B	5.000	5.000	5.000	0.0713	0.0557	0.011	-	OK		15:54	15:56	
29	2112H10-001C	5.000	5.000	5.000	0.0951	0.0736	0.015	-	OK		16:15	16:17	
30	2112H10-002C	5.000	5.000	5.000	0.0776	0.0604	0.012	-	OK		16:19	16:21	
31	CCV	5.000	5.000	5.000	12.8265	9.6500	1.930	-	OK		16:23	16:25	
32	CCB	5.000	5.000	5.000	0.0778	0.0606	0.012	-	OK		16:31	16:33	
33	CCV	5.000	5.000	5.000	13.5973	10.2297	2.046	-	OK		19:32	19:34	
34	CCB	5.000	5.000	5.000	0.2361	0.1796	0.036	-	OK		19:40	19:42	
35	2112G62-010BMS	5.000	5.000	5.000	26.3266	19.8045	3.961	-	OK		19:44	19:46	
36	2112G62-010BMSD	5.000	5.000	5.000	26.9460	20.2704	4.054	-	OK		19:48	19:50	
37	2112A75-001A	5.000	5.000	5.000	0.2510	0.1908	0.038	-	OK		19:52	19:54	
38	CCV	5.000	5.000	5.000	13.0577	9.8239	1.965	-	OK		19:56	19:58	
39	CCB	5.000	5.000	5.000	0.2344	0.1783	0.036	-	OK		20:04	20:06	

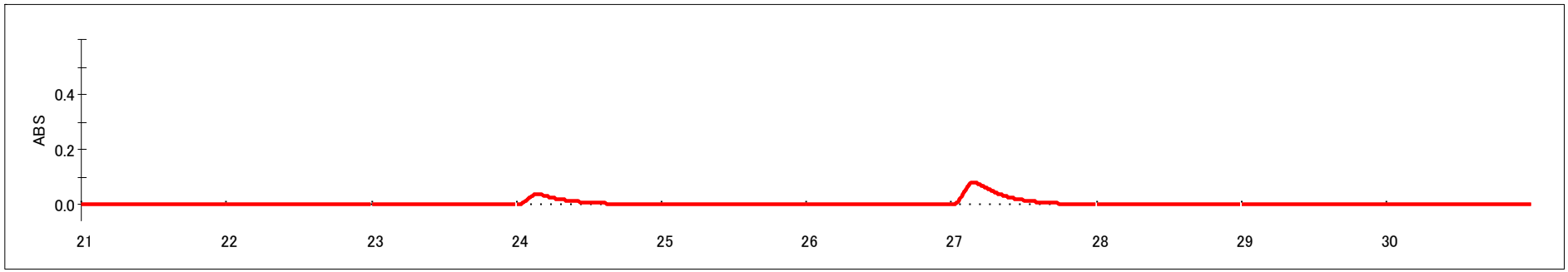
Statistics

No.	NAME	TRY	AV [ug/L]	SD [ug/L]	Cv [%]
1	CCV	5	1.9570	0.068202	3.49

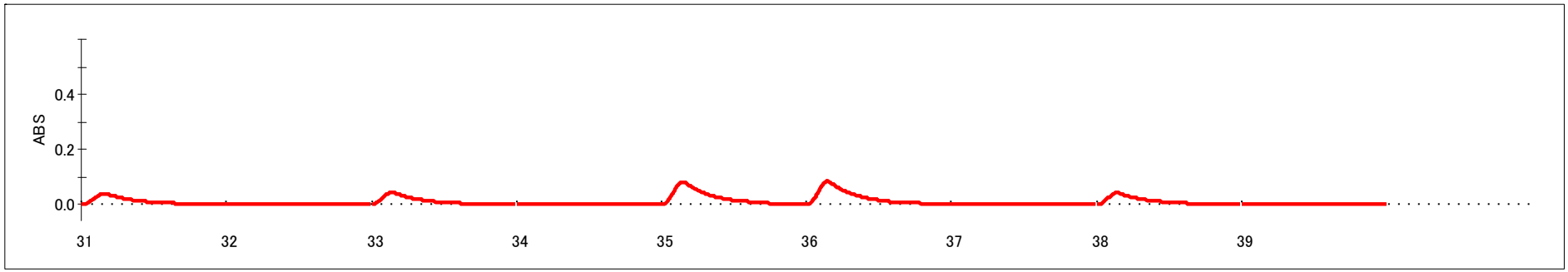
No.	NAME	TRY	AV [ug/L]	SD [ug/L]	Cv [%]
2	CCB	5	0.0200	0.015748	78.74







NIPPON INSTRUMENTS CORPORATION



Self Check

Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **12/14/2021 5:00:00**
Prep End Date: **12/15/2021 9:05:00**

Prep Batch **327314** Prep Code: **1311_BOTTLE** Technician: **Jasmyn Brown**

Prep Factor Units: **mL / g**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2112B15-001B	Aqueous		100	0	0	2000	20.000	12/14/2021	12/15/2021
2112B15-002B	Aqueous		100	0	0	2000	20.000	12/14/2021	12/15/2021
2112B28-001A	Soild		100	0	0	2000	20.000	12/14/2021	12/15/2021
2112D01-001C	Soil		100	0	0	2000	20.000	12/14/2021	12/15/2021
2112E26-001A	Aqueous		100	0	0	2000	20.000	12/14/2021	12/15/2021
2112F21-001B	Solid		100	0	0	2000	20.000	12/14/2021	12/15/2021
2112F21-002B	Solid		100	0	0	2000	20.000	12/14/2021	12/15/2021
2112F21-003B	Solid		100	0	0	2000	20.000	12/14/2021	12/15/2021
2112F22-001B	Solid		100	0	0	2000	20.000	12/14/2021	12/15/2021
2112F77-027A	Soil		100	0	0	2000	20.000	12/14/2021	12/15/2021
2112F77-027ADUP	Soil		100	0	0	2000	20.000	12/14/2021	12/15/2021
2112G62-010B	Soil		100	0	0	2000	20.000	12/14/2021	12/15/2021
2112H10-001C	Soil		100	0	0	2000	20.000	12/14/2021	12/15/2021
2112H10-002C	Soil		100	0	0	2000	20.000	12/14/2021	12/15/2021
2112K36-001C	Soil		100	0	0	2000	20.000	12/14/2021	12/15/2021
Data downloaded from sample 2112H10-001C									
2112K36-002C	Soil		100	0	0	2000	20.000	12/14/2021	12/15/2021
Data downloaded from sample 2112H10-002C									
MB-327314			100	0	0	2000	20.000	12/14/2021	12/15/2021

AES,Inc.
3080 Presidential Parkway
Atlanta, GA 30340

TCLP NON-VOLATILE PREPARATION

EPA 1311 (AES SOP LP-14001)

Document ID: MET-1003

Batch ID: 327314
Analyst: JB
Date / Time Start: 12/14/21 5:00PM
Date / Time Stop: 12/15/21 9:05AM

Thermometer ID: AES # 2387
Balance ID: AES # 2249

Date: 12/14/21
Room Temp: 23 °C (23+/-2°C)
RPM: 31 (30+/-2 RPM)

#	Sample ID	Preliminary Evaluation: Initial Sample Wt. (g)	Initial Filter Wt (g)	Dry Wt Sample+ filter (g)	Sample Dry Wt (g)	% Solid	Initial pH I (<5)	TCLP Extractions: After 1N HCL pH II	Sample Amount (g)	Fluid #1 (mL)	Fluid #2 (mL)	pH Final	Rotator AES #	Comments
MBLK	327314	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2000	N/A	4.98	2612	
MBLK	↓	↓	↓	↓	↓	↓	↓	↓	↓	N/A	↓	N/A	N/A	
1	2112F77-027A						10.48	1.67	100	2000		11.79	2612	
2	↓ -027ADUP						10.38	1.66	↓	↓		8.30	↓	
3	2112B15-001B						6.11	1.59				5.57		
4	↓ -002B						5.98	1.63				5.46		
5	2112B28-001A						6.96	1.87				5.86		
6	2112D01-001C						5.14	1.56				4.50		
7	2112E26-001A						6.76	1.65				5.14		
8	2112F21-001B						4.70	1.68				5.86		
9	↓ -002B						8.65	3.45				6.58	↓	
10	↓ -003B						5.14	1.49				5.89	2611	
11	2112F22-001B						4.63	1.59				4.96		
12	2112H10-001C						~~6.72~~ 7.62	1.47				4.89		7.82 JB 12/14/21
13	↓ -002C							1.56				4.82		
14	~~2112G62-001B~~	↓	↓	↓	↓	↓	6.72	1.53	↓	↓	↓	4.80	↓	2112G62-010B JB 12/14/21
15														
16														
17														
18														
19														
20														

pH Meter ID#: 2686 AES #
pH Probe ID#: 2463 AES #

TCLP Fluid #1 Lot #: MET-952-89 pH: 4.91
TCLP Fluid #2 Lot #: N/A pH: N/A
1N HCl Lot #: MET-952-86

	AES#	Temp	pH reading	Acceptance	mV
pH 4.0	25548	25.0	4.010	3.95 - 4.05	170.7
pH 7.0	29428	25.0	6.997	6.95 - 7.05	-4.3
pH 10.0	29746	25.0	10.013	9.95 - 10.05	-178.9
ICV	30545	25.0	~~6.838~~ 6.830 JB 12/14/21		5.4

ICV TV: 6.86 ICV AC: ±0.05 Date/Time: 12/14/21 11:40AM
Slope %: 98.4% pH 7.0 Offset mV: -4.3

DWM 9/21/2021 1:39 PM

Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **12/15/2021 12:32:0**
Prep End Date: **12/16/2021 12:31:0**

Prep Batch **327403** Prep Code: **3010A** Technician: **Svetlana Alikova**

Prep Factor Units: **mL / mL**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2112B15-001B	Leachate		10	0	0	50	5.000	12/15/2021	12/16/2021
2112B15-002B	Leachate		10	0	0	50	5.000	12/15/2021	12/16/2021
2112D01-001C	Leachate		10	0	0	50	5.000	12/15/2021	12/16/2021
2112E26-001A	Leachate		10	0	0	50	5.000	12/15/2021	12/16/2021
2112F21-001B	Leachate		10	0	0	50	5.000	12/15/2021	12/16/2021
2112F21-002B	Leachate		10	0	0	50	5.000	12/15/2021	12/16/2021
2112F21-003B	Leachate		10	0	0	50	5.000	12/15/2021	12/16/2021
2112F22-001B	Leachate		10	0	0	50	5.000	12/15/2021	12/16/2021
2112F77-027A	Leachate		10	0	0	50	5.000	12/15/2021	12/16/2021
2112F77-027ADUP	Leachate		10	0	0	50	5.000	12/15/2021	12/16/2021
2112G62-010B	Leachate		10	0	0	50	5.000	12/15/2021	12/16/2021
2112H10-001C	Leachate		10	0	0	50	5.000	12/15/2021	12/16/2021
2112H10-002C	Leachate		10	0	0	50	5.000	12/15/2021	12/16/2021
2112H10-002CDL	Leachate		10	0	0	50	5.000	12/15/2021	12/16/2021
2112H10-002CMS	Leachate		10	0	0	50	5.000	12/15/2021	12/16/2021
2112H10-002CMSD	Leachate		10	0	0	50	5.000	12/15/2021	12/16/2021
2112H10-002CPDS	Leachate		10	0	0	50	5.000	12/15/2021	12/16/2021
2112K36-001C	Leachate		10	0	0	50	5.000	12/15/2021	12/16/2021
Data downloaded from sample 2112H10-001C									
2112K36-002C	Leachate		10	0	0	50	5.000	12/15/2021	12/16/2021
Data downloaded from sample 2112H10-002C									
LCS-327403			10	0	0	50	5.000	12/15/2021	12/16/2021
MB-327403			10	0	0	50	5.000	12/15/2021	12/16/2021

211215A REP.esws

Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D

Samples loaded by Kalpana and checked by RYNE.

ICAL3=MET-970-040 Exp= 3/22/22
ICAL2=MET-970-034 Exp= 3/22/22
ICV=MET-970-033 Exp=3/22/22
CRI=MET-970-031 Exp=4/7/22
ICSA=MET-993-015 Exp=9/24/22
ICSAB=MET-999-016 Exp=9/20/22
PDS H2O=MET-970-032 Exp=3/22/22
PDSSoil=MET-970-037 Exp= 3/22/22
CCV=MET-970-034 Exp= 3/22/22
LCR=MET-945-040 Exp=12/30/21
LCR2=MET-945-041 Exp=12/30/21
LCR Pb+Inhouse=MET-970-039 Exp=3/22/22

Calibration Correlation Coefficient Limit: 0.998

Pump Speed (rpm): 12

Sample introduction: ASX-520

Sample Uptake Time (s): 30

Sample uptake fast pump: On

SVS 1 delay (s): N/A

Rinse time (s): 20

Rinse time fast pump: On

Oxygen Injection Mode: Off

Standard addition: Off

Reagent Blank: Off

QC Active: On

Reslope: Off
Condition Set 1

Element	Wavelength(nm)	Label	Type	Background Correction	Points Per Peak	Calibration Fit
Ag	328.068	Ag	Analyte	Fitted	2	Linear Through Blank
Al	308.215	Al	Analyte	Fitted	2	Linear Weighted
As	193.696	As	Analyte	Fitted	2	Linear Weighted
Ba	413.064	Ba	Analyte	Fitted	2	Linear Through Blank
Be	313.042	Be	Analyte	Fitted	2	Linear Through Blank
Ca	373.690	Ca	Analyte	Off-Peak Left	2	Linear Weighted
Cd	228.802	Cd	Analyte	Fitted	2	Linear Through Blank
Co	230.786	Co	Analyte	Fitted	2	Linear Through Blank
Cr	267.716	Cr	Analyte	Fitted	2	Linear Through Blank
Cu	327.395	Cu	Analyte	Fitted	2	Linear Through Blank
Fe	238.204	Fe	Analyte	Fitted	2	Linear Weighted
K	766.491	K	Analyte	Off-Peak Left	2	Linear Weighted
Mg	279.800	Mg	Analyte	Fitted	2	Linear Weighted
Mn	257.610	Mn	Analyte	Fitted	2	Linear Through Blank
Mo	204.598	Mo	Analyte	Fitted	2	Weighted Linear Through Blank
Na	589.592	Na	Analyte	Off-Peak Right	2	Linear Through Blank
Ni	221.648	Ni	Analyte	Fitted	2	Linear Through Blank
Pb	220.353	Pb	Analyte	Off-Peak Left+Right	2	Linear Through Blank
Sb	217.582	Sb	Analyte	Fitted	2	Linear Through Blank
Se	196.026	Se	Analyte	Fitted	2	Linear Through Blank
Sn	189.925	Sn	Analyte	Fitted	2	Linear Through Blank
Ti	337.280	Ti	Analyte	Fitted	2	Linear Through Blank
Tl	351.923	Tl	Analyte	Fitted	2	Linear Weighted

211215A REP.esws

Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D

Element	Wavelength(nm)	Label	Type	Background Correction	Points Per Peak	Calibration Fit
V	311.837	V	Analyte	Fitted	2	Linear Through Blank
Zn	206.200	Zn	Analyte	Fitted	2	Linear Through Blank
B	249.772	B	Analyte	Fitted	2	Weighted Linear Through Blank
Sr	407.771	Sr	Analyte	Off-Peak Left	2	Weighted Linear Through Origin
S	181.972	S	Analyte	Off-Peak Left+Right	2	Linear Through Origin
P	213.618	P	Analyte	Fitted	2	Weighted Linear Through Blank

Read time (s): 30

RF power (kW): 1.2

Stabilization time (s): 15

Viewing mode: SVDV

Viewing height (mm): 8

Nebulizer flow(L/min): 0.75

Plasma flow(L/min): 12

Aux flow(L/min): 1

Make up flow(L/min): 0

Oxygen %: 0

Calibration parameters:

Label (Wavelength nm)	Minimum Concentration	Maximum Concentration	Calibration Error
Ag (328.068)	0 mg/L	5 mg/L	20 %
Al (308.215)	0 mg/L	500 mg/L	20 %
As (193.696)	0 mg/L	50 mg/L	20 %
Ba (413.064)	0 mg/L	50 mg/L	20 %
Be (313.042)	0 mg/L	10 mg/L	20 %
Ca (373.690)	0 mg/L	100 mg/L	20 %
Cd (228.802)	0 mg/L	20 mg/L	20 %
Co (230.786)	0 mg/L	50 mg/L	20 %
Cr (267.716)	0 mg/L	50 mg/L	20 %
Cu (327.395)	0 mg/L	50 mg/L	20 %
Fe (238.204)	0 mg/L	100 mg/L	20 %
K (766.491)	0 mg/L	200 mg/L	20 %
Mg (279.800)	0 mg/L	100 mg/L	20 %
Mn (257.610)	0 mg/L	20 mg/L	20 %
Mo (204.598)	0 mg/L	100 mg/L	20 %
Na (589.592)	0 mg/L	200 mg/L	20 %
Ni (221.648)	0 mg/L	50 mg/L	20 %

211215A REP.esws

Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D

Label (Wavelength nm)	Minimum Concentration	Maximum Concentration	Calibration Error
Pb (220.353)	0 mg/L	50 mg/L	20 %
Sb (217.582)	0 mg/L	100 mg/L	20 %
Se (196.026)	0 mg/L	50 mg/L	20 %
Sn (189.925)	0 mg/L	100 mg/L	20 %
Ti (337.280)	0 mg/L	50 mg/L	20 %
Tl (351.923)	0 mg/L	50 mg/L	20 %
V (311.837)	0 mg/L	50 mg/L	20 %
Zn (206.200)	0 mg/L	50 mg/L	20 %
B (249.772)	0 mg/L	50 mg/L	20 %
Sr (407.771)	0 mg/L	50 mg/L	20 %
S (181.972)	0 mg/L	50 mg/L	25 %
P (213.618)	0 mg/L	50 mg/L	20 %

211215A REP.esws

Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D

Sequence table:

Rack:Tube	Sample Label	Weight (g)	Volume (mL)	Dilution
S1:1	Blank	1.0	1.0	1.0
S1:3	ICAL 1	1.0	1.0	1.0
S1:2	ICAL 2	1.0	1.0	1.0
S1:3	ICAL 3	1.0	1.0	1.0
S1:3	Lab Control Sample	1.0	1.0	1.0
S1:3	Initial Calib Verif	1.0	1.0	1.0
S1:1	Initial Calib Blank	1.0	1.0	1.0
S1:3	CRI	1.0	1.0	1.0
S1:4	Interf Check A	1.0	1.0	1.0
S1:5	Interf Check AB	1.0	1.0	1.0
1:1	CRI	1.0	1.0	1.0
1:2	CRI-2	1.0	1.0	1.0
1:3	CRI-5	1.0	1.0	1.0
1:4	CRI-MIDLEVEL	1.0	1.0	1.0
1:5	LCR 1	1.0	1.0	1.0
1:6	LCR 2	1.0	1.0	1.0
1:7	LCR 3	1.0	1.0	1.0
1:8	LCR-Pb-Inhouse	1.0	1.0	1.0
1:9	MB-327123	1.0	1.0	1.0
1:10	LCS-327123	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
1:11	2112994-001A	1.0	1.0	1.0
1:12	2112994-001AMS	1.0	1.0	1.0
1:13	2112994-001AMSD	1.0	1.0	1.0
1:14	2112994-001ADL	1.0	1.0	1.0
1:15	2112994-001APDS	1.0	1.0	1.0
1:16	MB-327137	1.0	1.0	1.0
1:17	LCS-327137	1.0	1.0	1.0
1:18	2112968-002D	1.0	1.0	1.0
1:19	2112968-002DMS	1.0	1.0	1.0
1:20	2112968-002DMSD	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
1:21	2112968-002DDL	1.0	1.0	1.0
1:22	2112968-002DPDS	1.0	1.0	1.0
1:23	2112968-001D	1.0	1.0	1.0
1:24	2112968-003D	1.0	1.0	1.0
1:25	2112B60-001D	1.0	1.0	1.0
1:26	2112C19-001B	1.0	1.0	1.0
1:27	2112C19-002B	1.0	1.0	1.0
1:28	MB-327340	1.0	1.0	1.0
1:29	LCS-327340	1.0	1.0	1.0
1:30	2112I03-001A	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0

Rack:Tube	Sample Label	Weight (g)	Volume (mL)	Dilution
S1:1	Cont Calib Blank	1.0	1.0	1.0
1:31	2112I03-001AMS	1.0	1.0	1.0
1:32	2112I03-001AMSD	1.0	1.0	1.0
1:33	2112I03-001ADL	1.0	1.0	1.0
1:34	2112I03-001APDS	1.0	1.0	1.0
1:35	2112H09-001A	1.0	1.0	1.0
1:36	2112I13-001A	1.0	1.0	1.0
1:37	2112C17-001A	1.0	1.0	1.0
1:38	MB-327350	1.0	1.0	1.0
1:39	LCS-327350	1.0	1.0	1.0
1:40	2112B48-003A	1.0	1.0	1.0
S1:4	Interf Check A	1.0	1.0	1.0
S1:5	Interf Check AB	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
1:41	2112B48-003AMS	1.0	1.0	1.0
1:42	2112B48-003AMSD	1.0	1.0	1.0
1:43	2112B48-003ADL	1.0	1.0	1.0
1:44	2112B48-003APDS	1.0	1.0	1.0
1:45	2112B48-001A	1.0	1.0	1.0
1:46	2112B48-002A	1.0	1.0	1.0
1:47	2112A80-001B	1.0	1.0	1.0
1:48	2112A80-002B	1.0	1.0	1.0
1:49	2112A80-003B	1.0	1.0	1.0
1:50	2112A80-004D	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
1:51	2112H10-003A	1.0	1.0	1.0
1:52	2112H10-004A	1.0	1.0	1.0
1:53	2112H10-005A	1.0	1.0	1.0
1:54	2112H10-006A	1.0	1.0	1.0
1:55	2112H10-007A	1.0	1.0	1.0
1:56	2112H10-008A	1.0	1.0	1.0
1:57	2112H10-009A	1.0	1.0	1.0
1:58	2112H10-010A	1.0	1.0	1.0
1:59	2112H10-011C	1.0	1.0	1.0
1:60	2112H10-012C	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
2:1	2112A77-001A	1.0	1.0	1.0
2:2	2112A78-001A	1.0	1.0	1.0
2:3	2112B48-003A/20X	1.0	1.0	1.0
2:4	2112B48-003AMS/20X	1.0	1.0	1.0
2:5	2112B48-003AMSD/20X	1.0	1.0	1.0
2:6	2112B48-003ADL/100X	1.0	1.0	1.0
2:7	2112B48-003APDS/40X	1.0	1.0	1.0

Rack:Tube	Sample Label	Weight (g)	Volume (mL)	Dilution
2:8	2112A77-001A/10X	1.0	1.0	1.0
2:9	MB-327222	1.0	1.0	1.0
2:10	2112795-001B/10X	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
2:11	2112908-001B/10X	1.0	1.0	1.0
2:12	2112908-002B/10X	1.0	1.0	1.0
2:13	2112908-003B/10X	1.0	1.0	1.0
2:14	MB-327403	1.0	1.0	1.0
2:15	LCS-327403	1.0	1.0	1.0
2:16	2112H10-002C	1.0	1.0	1.0
2:17	2112H10-002CMS	1.0	1.0	1.0
2:18	2112H10-002CMSD	1.0	1.0	1.0
2:19	2112H10-002CDL	1.0	1.0	1.0
2:20	2112H10-002CPDS	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
2:21	2112F77-027A	1.0	1.0	1.0
2:22	2112F77-027ADUP	1.0	1.0	1.0
2:23	2112B15-001B	1.0	1.0	1.0
2:24	2112B15-002B	1.0	1.0	1.0
2:25	2112D01-001C	1.0	1.0	1.0
2:26	2112E26-001A	1.0	1.0	1.0
2:27	2112F21-001B	1.0	1.0	1.0
2:28	2112F21-002B	1.0	1.0	1.0
2:29	2112F21-003B	1.0	1.0	1.0
2:30	2112F22-001B	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
2:31	2112G62-010B	1.0	1.0	1.0
2:32	2112H10-001C	1.0	1.0	1.0
S1:4	Interf Check A	1.0	1.0	1.0
S1:5	Interf Check AB	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
2:33	Sample 93	1.0	1.0	1.0
2:34	Sample 94	1.0	1.0	1.0
2:35	Sample 95	1.0	1.0	1.0
2:36	Sample 96	1.0	1.0	1.0
2:37	Sample 97	1.0	1.0	1.0
2:38	Sample 98	1.0	1.0	1.0
2:39	Sample 99	1.0	1.0	1.0
2:40	Sample 100	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
2:41	Sample 101	1.0	1.0	1.0
2:42	Sample 102	1.0	1.0	1.0
2:43	Sample 103	1.0	1.0	1.0

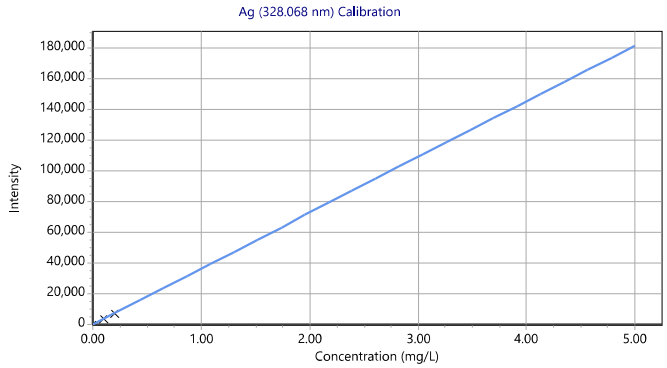
211215A REP.esws

Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D

Rack:Tube	Sample Label	Weight (g)	Volume (mL)	Dilution
2:44	Sample 104	1.0	1.0	1.0
2:45	Sample 105	1.0	1.0	1.0
2:46	Sample 106	1.0	1.0	1.0
2:47	Sample 107	1.0	1.0	1.0
2:48	Sample 108	1.0	1.0	1.0
2:49	Sample 109	1.0	1.0	1.0
2:50	Sample 110	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
2:51	Sample 111	1.0	1.0	1.0
S1:4	Interf Check A	1.0	1.0	1.0
S1:5	Interf Check AB	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0

Calibration Curves:



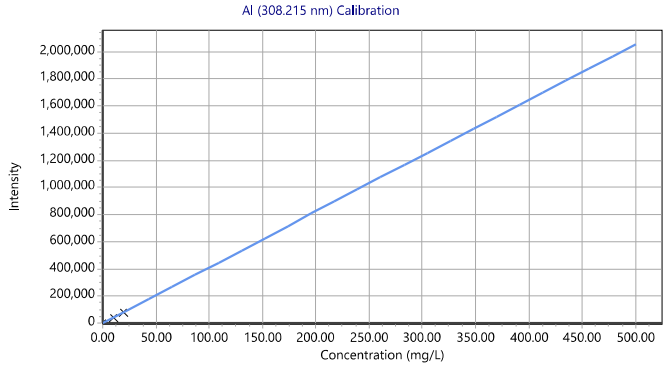
Ag (328.068 nm)
Intensity = 36328.16257821 * Concentration + 3.46738931
Correlation coefficient: 0.99947

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.46739	0.00000	0.00000	N/A
ICAL 1	188.25070	0.00500	0.00509	1.73006
ICAL 2	3817.17353	0.10000	0.10498	4.97933
ICAL 3	7178.57640	0.20000	0.19751	1.24591

211215A REP.esws

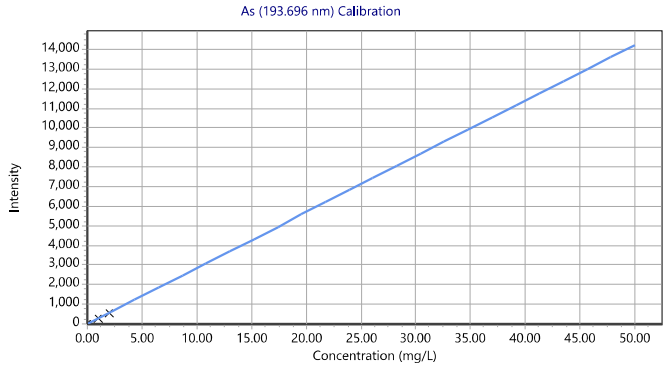
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



Al (308.215 nm)
Intensity = 4109.24915017 * Concentration + 390.42693796
Correlation coefficient: 0.99972

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	390.31960	0.00000	-0.00003	N/A
ICAL 1	1213.65624	0.20000	0.20034	0.16785
ICAL 2	42475.26460	10.00000	10.24149	2.41491
ICAL 3	80829.91028	20.00000	19.57523	2.12387



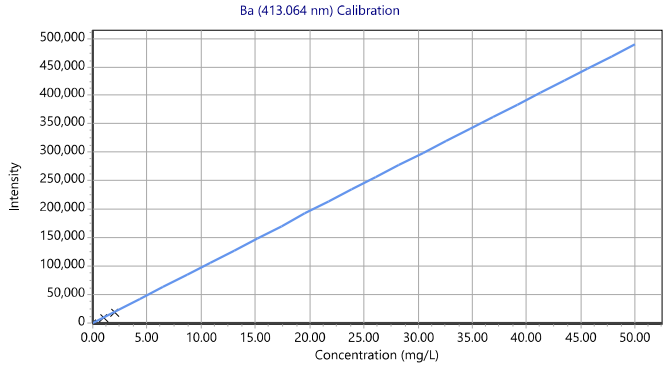
As (193.696 nm)
Intensity = 284.69537543 * Concentration + 2.34210796
Correlation coefficient: 0.99954

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.60734	0.00000	0.00444	N/A
ICAL 1	16.53134	0.05000	0.04984	0.31992
ICAL 2	295.03797	1.00000	1.02810	2.81019
ICAL 3	554.56743	2.00000	1.93971	3.01470

211215A REP.esws

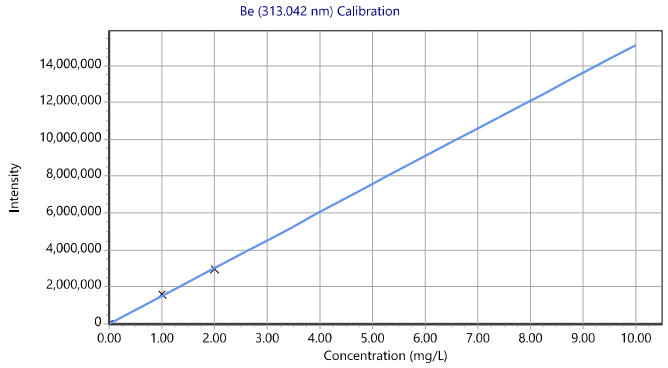
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



Ba (413.064 nm)
Intensity = 9801.02352832 * Concentration + 53.07891759
Correlation coefficient: 0.99956

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	53.07892	0.00000	0.00000	N/A
ICAL 1	159.66873	0.01000	0.01088	8.75375
ICAL 2	10305.29898	1.00000	1.04604	4.60357
ICAL 3	19429.48481	2.00000	1.97698	1.15111



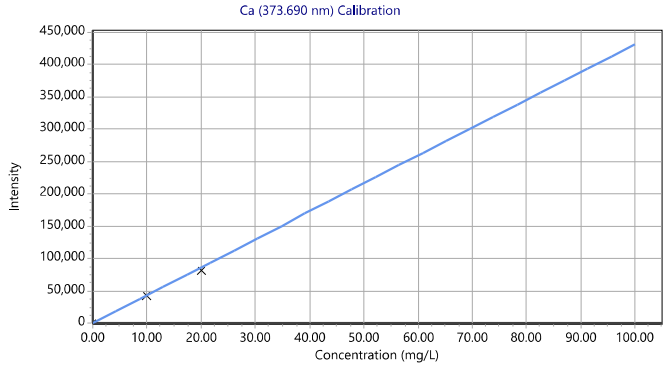
Be (313.042 nm)
Intensity = 1512258.11942178 * Concentration + 432.45798909
Correlation coefficient: 0.99948

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	432.45799	0.00000	0.00000	N/A
ICAL 1	7480.61915	0.00500	0.00466	6.78627
ICAL 2	1588056.66793	1.00000	1.04984	4.98368
ICAL 3	2987266.93440	2.00000	1.97508	1.24588

211215A REP.esws

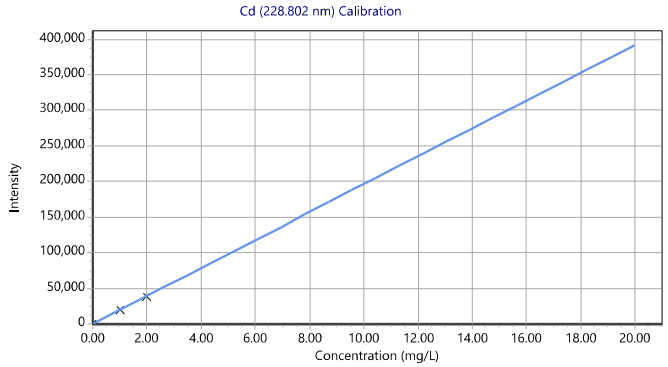
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



Ca (373.690 nm)
Intensity = 4310.62406481 * Concentration + 60.86569033
Correlation coefficient: 0.99958

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	59.68675	0.00000	-0.00027	N/A
ICAL 1	505.50488	0.10000	0.10315	3.14961
ICAL 2	43047.93217	10.00000	9.97235	0.27647
ICAL 3	81437.16860	20.00000	18.87808	5.60960



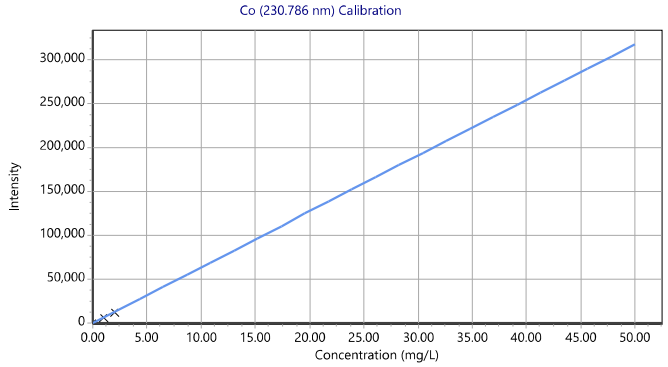
Cd (228.802 nm)
Intensity = 19609.44852890 * Concentration + 16.82105167
Correlation coefficient: 0.99956

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	16.82105	0.00000	0.00000	N/A
ICAL 1	117.32148	0.00500	0.00513	2.50204
ICAL 2	20524.56574	1.00000	1.04581	4.58094
ICAL 3	38786.56390	2.00000	1.97710	1.14525

211215A REP.esws

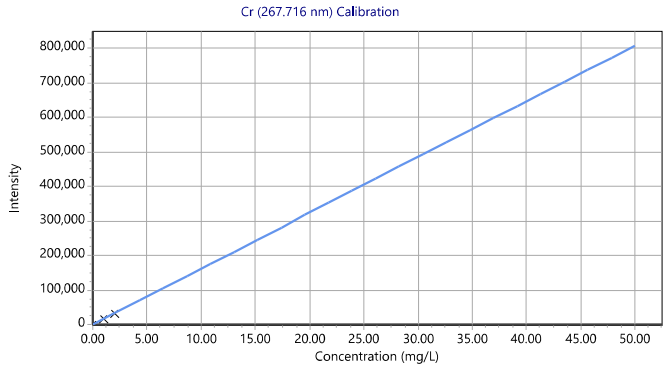
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



Co (230.786 nm)
Intensity = 6352.63796600 * Concentration + 8.72013664
Correlation coefficient: 0.99944

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	8.72014	0.00000	0.00000	N/A
ICAL 1	70.60430	0.01000	0.00974	2.58510
ICAL 2	6688.76733	1.00000	1.05154	5.15391
ICAL 3	12550.29967	2.00000	1.97423	1.28841



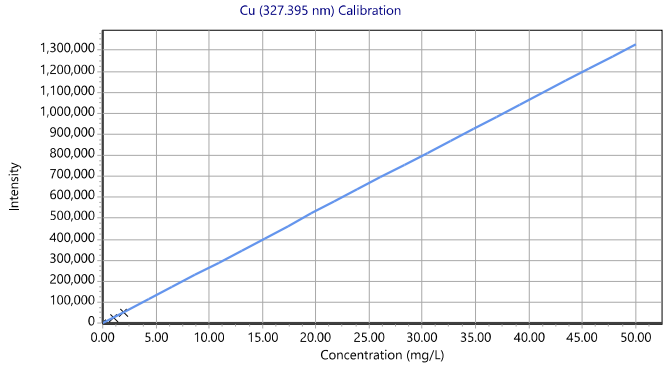
Cr (267.716 nm)
Intensity = 16164.45970027 * Concentration + 15.13895788
Correlation coefficient: 0.99958

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	15.13896	0.00000	0.00000	N/A
ICAL 1	184.58286	0.01000	0.01048	4.82497
ICAL 2	16906.15382	1.00000	1.04495	4.49477
ICAL 3	31980.74178	2.00000	1.97752	1.12381

211215A REP.esws

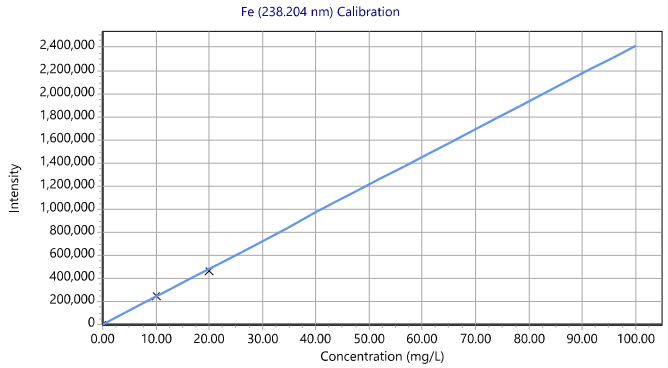
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



Cu (327.395 nm)
Intensity = 26602.49571532 * Concentration + 16.72661717
Correlation coefficient: 0.99971

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	16.72662	0.00000	0.00000	N/A
ICAL 1	275.92232	0.01000	0.00974	2.56715
ICAL 2	27609.53315	1.00000	1.03723	3.72262
ICAL 3	52726.59678	2.00000	1.98139	0.93059



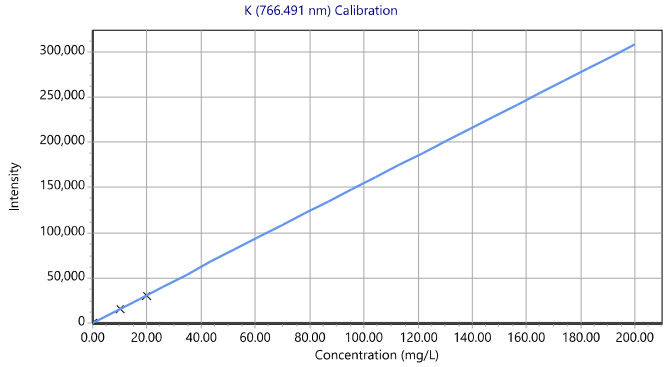
Fe (238.204 nm)
Intensity = 24168.95485977 * Concentration + 45.20163272
Correlation coefficient: 0.99940

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	45.08687	0.00000	0.00000	N/A
ICAL 1	2554.60413	0.10000	0.10383	3.82751
ICAL 2	246575.80657	10.00000	10.20030	2.00301
ICAL 3	461860.37383	20.00000	19.10778	4.46108

211215A REP.esws

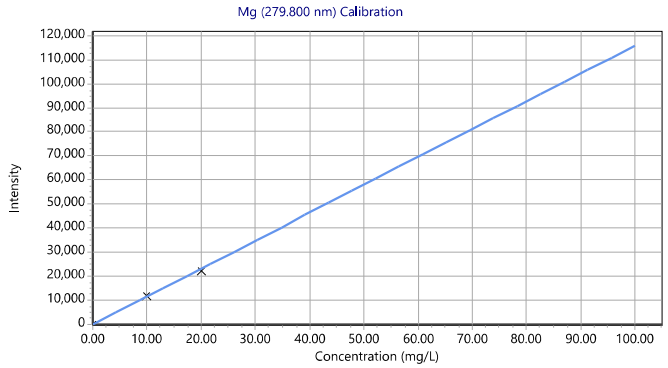
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



K (766.491 nm)
Intensity = 1540.15258776 * Concentration + 356.88435559
Correlation coefficient: 0.99986

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	346.16327	0.00000	-0.00696	N/A
ICAL 1	1135.31207	0.50000	0.50542	1.08449
ICAL 2	15949.32970	10.00000	10.12396	1.23961
ICAL 3	30577.56598	20.00000	19.62188	1.89062



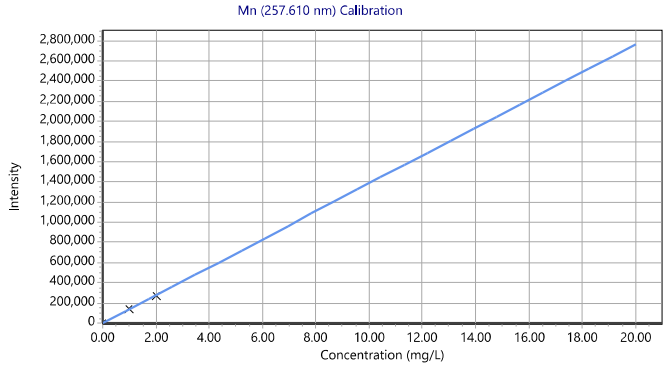
Mg (279.800 nm)
Intensity = 1159.02270428 * Concentration + 7.63182240
Correlation coefficient: 0.99958

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	7.45944	0.00000	-0.00015	N/A
ICAL 1	125.98232	0.10000	0.10211	2.11232
ICAL 2	11862.39307	10.00000	10.22824	2.28239
ICAL 3	22442.88727	20.00000	19.35705	3.21477

211215A REP.esws

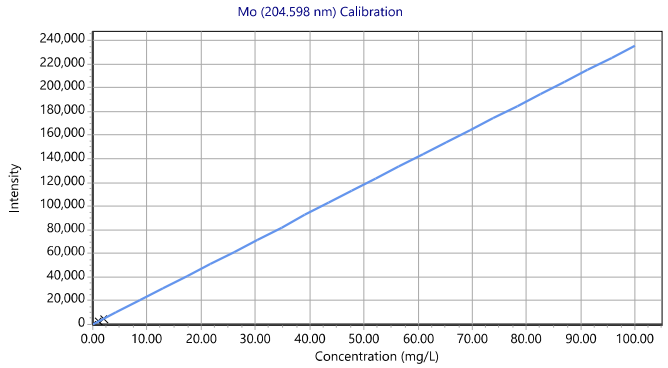
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



Mn (257.610 nm)
Intensity = 138282.48144729 * Concentration + 16.94042190
Correlation coefficient: 0.99952

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	16.94042	0.00000	0.00000	N/A
ICAL 1	730.60935	0.00500	0.00516	3.21899
ICAL 2	144938.47864	1.00000	1.04801	4.80108
ICAL 3	273262.31929	2.00000	1.97599	1.20029



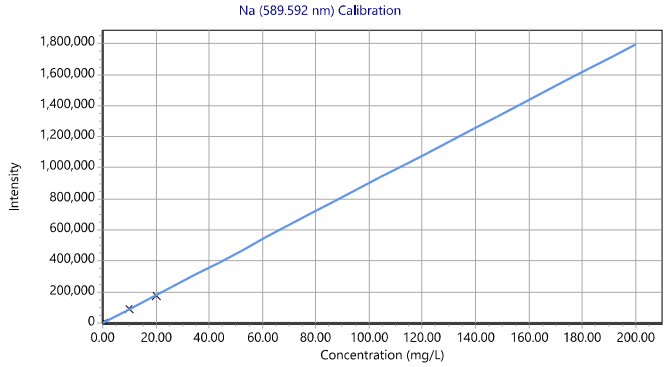
Mo (204.598 nm)
Intensity = 2357.65403956 * Concentration + 5.20872827
Correlation coefficient: 0.99959

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	5.20873	0.00000	0.00000	N/A
ICAL 1	118.97465	0.05000	0.04825	3.49227
ICAL 2	2423.96575	1.00000	1.02592	2.59169
ICAL 3	4588.85648	2.00000	1.94416	2.79219

211215A REP.esws

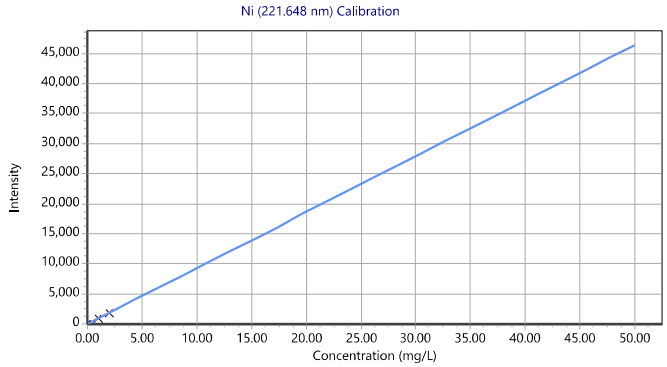
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



Na (589.592 nm)
Intensity = 8978.41400952 * Concentration + 1387.33339055
Correlation coefficient: 0.99981

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1387.33339	0.00000	0.00000	N/A
ICAL 1	9842.95059	1.00000	0.94177	5.82282
ICAL 2	93712.72885	10.00000	10.28304	2.83041
ICAL 3	179711.12574	20.00000	19.86139	0.69304



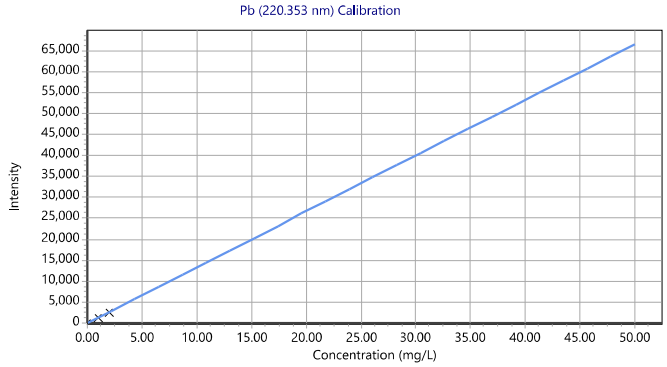
Ni (221.648 nm)
Intensity = 928.93104812 * Concentration + 0.79350933
Correlation coefficient: 0.99943

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	0.79351	0.00000	0.00000	N/A
ICAL 1	20.29204	0.02000	0.02099	4.95143
ICAL 2	978.17347	1.00000	1.05216	5.21555
ICAL 3	1834.42195	2.00000	1.97391	1.30438

211215A REP.esws

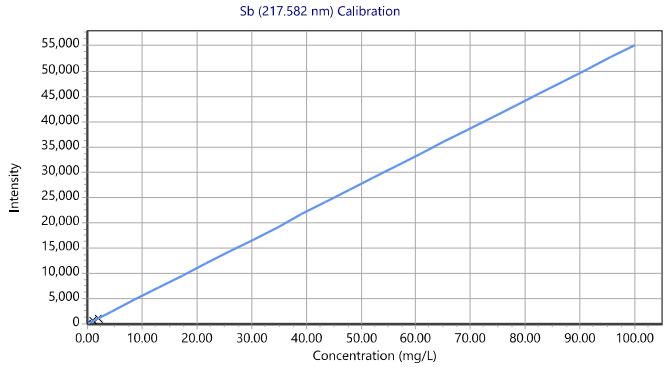
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



Pb (220.353 nm)
Intensity = 1330.85006298 * Concentration + 1.60450571
Correlation coefficient: 0.99953

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1.60451	0.00000	0.00000	N/A
ICAL 1	13.75694	0.01000	0.00913	8.68665
ICAL 2	1394.86781	1.00000	1.04690	4.68973
ICAL 3	2632.10379	2.00000	1.97656	1.17221



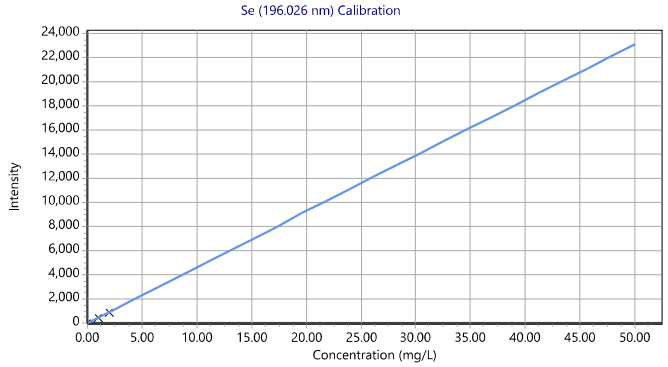
Sb (217.582 nm)
Intensity = 551.63691051 * Concentration + 3.88247316
Correlation coefficient: 0.99960

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.88247	0.00000	0.00000	N/A
ICAL 1	13.79992	0.02000	0.01798	10.10890
ICAL 2	579.37103	1.00000	1.04324	4.32379
ICAL 3	1095.24163	2.00000	1.97840	1.07994

211215A REP.esws

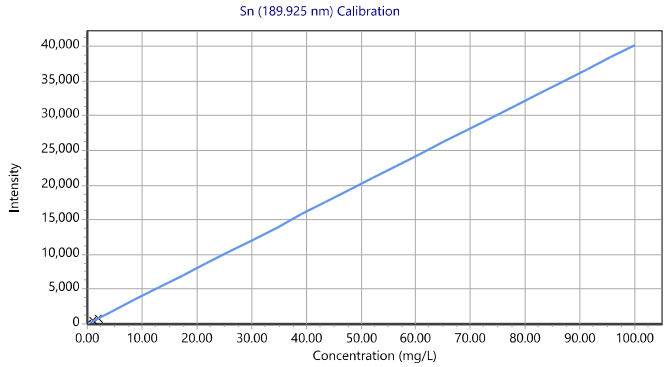
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



Se (196.026 nm)
Intensity = 462.26344675 * Concentration + 3.47679013
Correlation coefficient: 0.99945

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.47679	0.00000	0.00000	N/A
ICAL 1	13.87376	0.02000	0.02249	12.45720
ICAL 2	489.42453	1.00000	1.05124	5.12355
ICAL 3	916.15002	2.00000	1.97436	1.28213



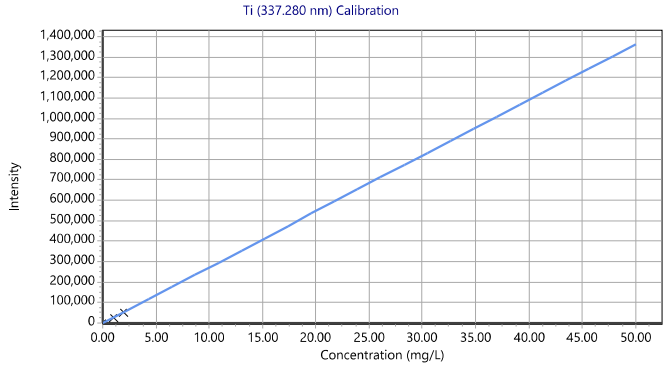
Sn (189.925 nm)
Intensity = 402.51787040 * Concentration + 3.19243215
Correlation coefficient: 0.99943

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.19243	0.00000	0.00000	N/A
ICAL 1	22.48989	0.05000	0.04794	4.11625
ICAL 2	426.32446	1.00000	1.05121	5.12130
ICAL 3	797.94181	2.00000	1.97444	1.27775

211215A REP.esws

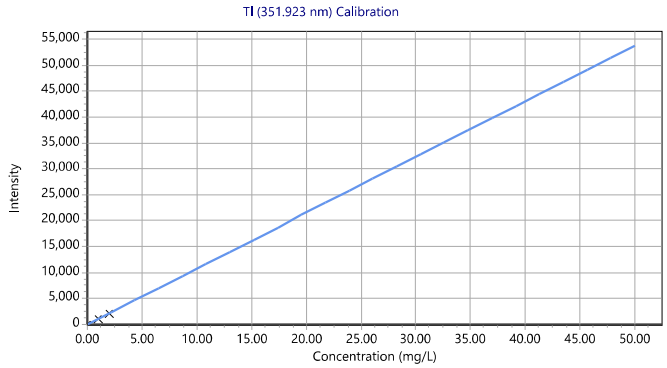
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



Ti (337.280 nm)
Intensity = 27279.05583856 * Concentration + 17.84772697
Correlation coefficient: 0.99962

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	17.84773	0.00000	0.00000	N/A
ICAL 1	1378.16179	0.05000	0.04987	0.26678
ICAL 2	28448.53035	1.00000	1.04222	4.22165
ICAL 3	54000.23698	2.00000	1.97890	1.05525



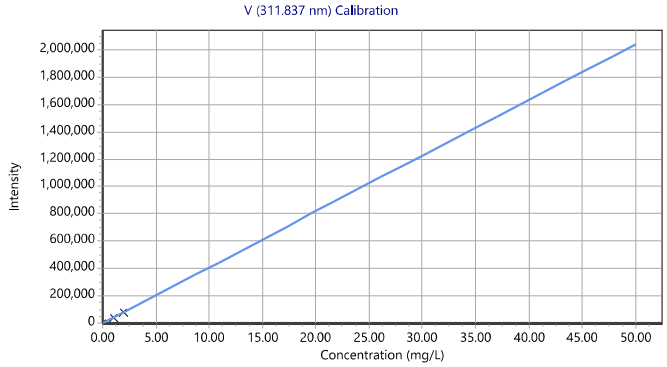
Tl (351.923 nm)
Intensity = 1075.85008020 * Concentration + 8.86566897
Correlation coefficient: 0.99979

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	8.16748	0.00000	-0.00065	N/A
ICAL 1	31.28211	0.02000	0.02084	4.18015
ICAL 2	1109.53021	1.00000	1.02306	2.30650
ICAL 3	2126.74591	2.00000	1.96856	1.57178

211215A REP.esws

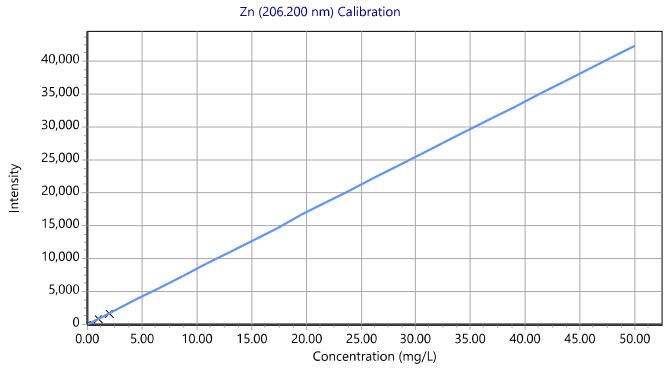
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



V (311.837 nm)
Intensity = 40837.36411962 * Concentration + 9.22403165
Correlation coefficient: 0.99963

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	9.22403	0.00000	0.00000	N/A
ICAL 1	382.70104	0.01000	0.00915	8.54527
ICAL 2	42545.06283	1.00000	1.04159	4.15912
ICAL 3	80834.88941	2.00000	1.97921	1.03957



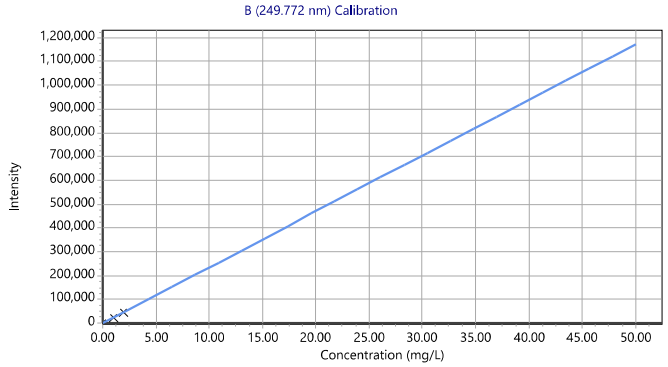
Zn (206.200 nm)
Intensity = 847.53703424 * Concentration + 3.14402783
Correlation coefficient: 0.99939

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.14403	0.00000	0.00000	N/A
ICAL 1	20.98041	0.02000	0.02104	5.22480
ICAL 2	896.21463	1.00000	1.05372	5.37246
ICAL 3	1675.44246	2.00000	1.97313	1.34364

211215A REP.esws

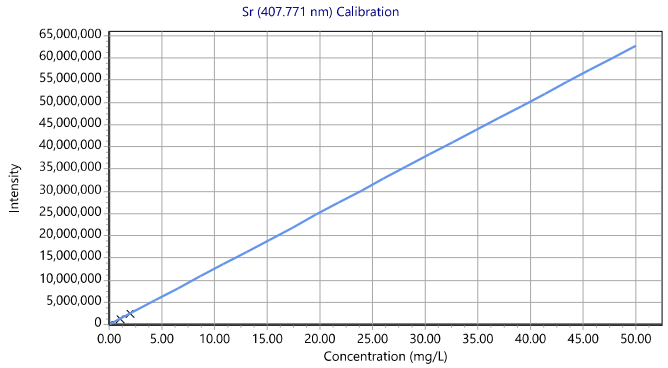
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



B (249.772 nm)
Intensity = 23451.60666136 * Concentration + 61.82628188
Correlation coefficient: 0.99975

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	61.82628	0.00000	0.00000	N/A
ICAL 1	1224.72747	0.05000	0.04959	0.82546
ICAL 2	24015.90751	1.00000	1.02143	2.14260
ICAL 3	45995.58330	2.00000	1.95866	2.06693



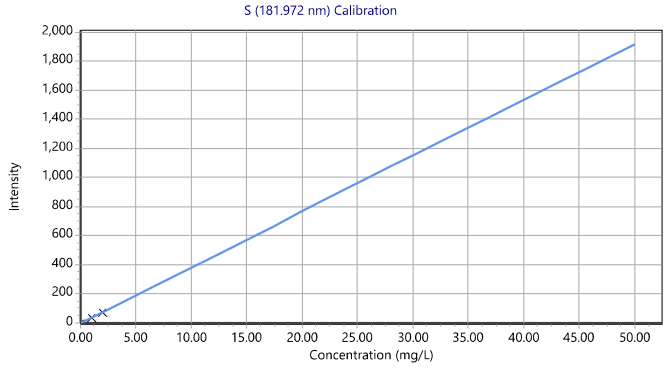
Sr (407.771 nm)
Intensity = 1255966.76067296 * Concentration
Correlation coefficient: 0.99972

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	139.40138	0.00000	0.00011	N/A
ICAL 1	64858.00741	0.05000	0.05164	3.27982
ICAL 2	1259863.88820	1.00000	1.00310	0.31029
ICAL 3	2401036.48201	2.00000	1.91170	4.41481

211215A REP.esws

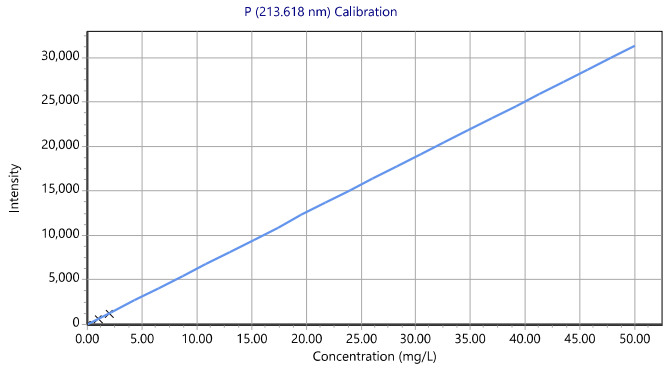
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



S (181.972 nm)
Intensity = 38.36821527 * Concentration
Correlation coefficient: 0.99975

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-0.91727	0.00000	-0.02391	N/A
ICAL 1	2.38704	0.05000	0.06221	24.42793
ICAL 2	39.35889	1.00000	1.02582	2.58201
ICAL 3	76.22938	2.00000	1.98678	0.66077



P (213.618 nm)
Intensity = 627.53483644 * Concentration + 2.97760310
Correlation coefficient: 0.99982

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	2.97760	0.00000	0.00000	N/A
ICAL 1	28.15119	0.05000	0.04012	19.76991
ICAL 2	643.58011	1.00000	1.02082	2.08238
ICAL 3	1242.57012	2.00000	1.97534	1.23317

Detailed Results

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 09:22:01	Blank	Ag (328.068 nm)	N/A	0.00000 (mg/L)	3.46739	> 100.00
12/15/2021 09:22:01	Blank	Al (308.215 nm)	N/A	0.00000 (mg/L)	390.31960	1.20
12/15/2021 09:22:01	Blank	As (193.696 nm)	N/A	0.00000 (mg/L)	3.60734	38.97

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 09:22:01	Blank	B (249.772 nm)	N/A	0.00000 (mg/L)	61.82628	1.13
12/15/2021 09:22:01	Blank	Ba (413.064 nm)	N/A	0.00000 (mg/L)	53.07892	8.56
12/15/2021 09:22:01	Blank	Be (313.042 nm)	N/A	0.00000 (mg/L)	432.45799	0.54
12/15/2021 09:22:01	Blank	Ca (373.690 nm)	N/A	0.00000 (mg/L)	59.68675	2.85
12/15/2021 09:22:01	Blank	Cd (228.802 nm)	N/A	0.00000 (mg/L)	16.82105	25.88
12/15/2021 09:22:01	Blank	Co (230.786 nm)	N/A	0.00000 (mg/L)	8.72014	41.03
12/15/2021 09:22:01	Blank	Cr (267.716 nm)	N/A	0.00000 (mg/L)	15.13896	26.32
12/15/2021 09:22:01	Blank	Cu (327.395 nm)	N/A	0.00000 (mg/L)	16.72662	88.89
12/15/2021 09:22:01	Blank	Fe (238.204 nm)	N/A	0.00000 (mg/L)	45.08687	4.57
12/15/2021 09:22:01	Blank	K (766.491 nm)	N/A	0.00000 (mg/L)	346.16327	8.77
12/15/2021 09:22:01	Blank	Mg (279.800 nm)	N/A	0.00000 (mg/L)	7.45944	16.24
12/15/2021 09:22:01	Blank	Mn (257.610 nm)	N/A	0.00000 (mg/L)	16.94042	2.74
12/15/2021 09:22:01	Blank	Mo (204.598 nm)	N/A	0.00000 (mg/L)	5.20873	36.56
12/15/2021 09:22:01	Blank	Na (589.592 nm)	N/A	0.00000 (mg/L)	1387.33339	1.44
12/15/2021 09:22:01	Blank	Ni (221.648 nm)	N/A	0.00000 (mg/L)	0.79351	> 100.00
12/15/2021 09:22:01	Blank	P (213.618 nm)	N/A	0.00000 (mg/L)	2.97760	11.13
12/15/2021 09:22:01	Blank	Pb (220.353 nm)	N/A	0.00000 (mg/L)	1.60451	39.24
12/15/2021 09:22:01	Blank	S (181.972 nm)	N/A	0.00000 (mg/L)	-0.91727	31.18
12/15/2021 09:22:01	Blank	Sb (217.582 nm)	N/A	0.00000 (mg/L)	3.88247	21.49
12/15/2021 09:22:01	Blank	Se (196.026 nm)	N/A	0.00000 (mg/L)	3.47679	33.41
12/15/2021 09:22:01	Blank	Sn (189.925 nm)	N/A	0.00000 (mg/L)	3.19243	15.75
12/15/2021 09:22:01	Blank	Sr (407.771 nm)	N/A	0.00000 (mg/L)	139.40138	15.22
12/15/2021 09:22:01	Blank	Ti (337.280 nm)	N/A	0.00000 (mg/L)	17.84773	29.92
12/15/2021 09:22:01	Blank	Tl (351.923 nm)	N/A	0.00000 (mg/L)	8.16748	49.97
12/15/2021 09:22:01	Blank	V (311.837 nm)	N/A	0.00000 (mg/L)	9.22403	18.65
12/15/2021 09:22:01	Blank	Zn (206.200 nm)	N/A	0.00000 (mg/L)	3.14403	61.46
12/15/2021 09:24:51	ICAL 1	Ag (328.068 nm)	N/A	0.00500 (mg/L)	188.25070	6.74
12/15/2021 09:24:51	ICAL 1	Al (308.215 nm)	N/A	0.20000 (mg/L)	1213.65624	1.54
12/15/2021 09:24:51	ICAL 1	As (193.696 nm)	N/A	0.05000 (mg/L)	16.53134	1.41
12/15/2021 09:24:51	ICAL 1	B (249.772 nm)	N/A	0.05000 (mg/L)	1224.72747	2.81
12/15/2021 09:24:51	ICAL 1	Ba (413.064 nm)	N/A	0.01000 (mg/L)	159.66873	2.01
12/15/2021 09:24:51	ICAL 1	Be (313.042 nm)	N/A	0.00500 (mg/L)	7480.61915	2.23
12/15/2021 09:24:51	ICAL 1	Ca (373.690 nm)	N/A	0.10000 (mg/L)	505.50488	1.14
12/15/2021 09:24:51	ICAL 1	Cd (228.802 nm)	N/A	0.00500 (mg/L)	117.32148	5.13
12/15/2021 09:24:51	ICAL 1	Co (230.786 nm)	N/A	0.01000 (mg/L)	70.60430	2.07
12/15/2021 09:24:51	ICAL 1	Cr (267.716 nm)	N/A	0.01000 (mg/L)	184.58286	2.56
12/15/2021 09:24:51	ICAL 1	Cu (327.395 nm)	N/A	0.01000 (mg/L)	275.92232	6.06
12/15/2021 09:24:51	ICAL 1	Fe (238.204 nm)	N/A	0.10000 (mg/L)	2554.60413	2.29
12/15/2021 09:24:51	ICAL 1	K (766.491 nm)	N/A	0.50000 (mg/L)	1135.31207	2.50
12/15/2021 09:24:51	ICAL 1	Mg (279.800 nm)	N/A	0.10000 (mg/L)	125.98232	3.67
12/15/2021 09:24:51	ICAL 1	Mn (257.610 nm)	N/A	0.00500 (mg/L)	730.60935	2.35
12/15/2021 09:24:51	ICAL 1	Mo (204.598 nm)	N/A	0.05000 (mg/L)	118.97465	5.22
12/15/2021 09:24:51	ICAL 1	Na (589.592 nm)	N/A	1.00000 (mg/L)	9842.95059	2.47
12/15/2021 09:24:51	ICAL 1	Ni (221.648 nm)	N/A	0.02000 (mg/L)	20.29204	1.30
12/15/2021 09:24:51	ICAL 1	P (213.618 nm)	N/A	0.05000 (mg/L)	28.15119	6.62
12/15/2021 09:24:51	ICAL 1	Pb (220.353 nm)	N/A	0.01000 (mg/L)	13.75694	17.18
12/15/2021 09:24:51	ICAL 1	S (181.972 nm)	N/A	0.05000 (mg/L)	2.38704	17.46
12/15/2021 09:24:51	ICAL 1	Sb (217.582 nm)	N/A	0.02000 (mg/L)	13.79992	8.74

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 09:24:51	ICAL 1	Se (196.026 nm)	N/A	0.02000 (mg/L)	13.87376	4.44
12/15/2021 09:24:51	ICAL 1	Sn (189.925 nm)	N/A	0.05000 (mg/L)	22.48989	4.10
12/15/2021 09:24:51	ICAL 1	Sr (407.771 nm)	N/A	0.05000 (mg/L)	64858.00741	1.71
12/15/2021 09:24:51	ICAL 1	Ti (337.280 nm)	N/A	0.05000 (mg/L)	1378.16179	2.70
12/15/2021 09:24:51	ICAL 1	Tl (351.923 nm)	N/A	0.02000 (mg/L)	31.28211	20.65
12/15/2021 09:24:51	ICAL 1	V (311.837 nm)	N/A	0.01000 (mg/L)	382.70104	0.62
12/15/2021 09:24:51	ICAL 1	Zn (206.200 nm)	N/A	0.02000 (mg/L)	20.98041	1.96
12/15/2021 09:27:42	ICAL 2	Ag (328.068 nm)	N/A	0.10000 (mg/L)	3817.17353	1.76
12/15/2021 09:27:42	ICAL 2	Al (308.215 nm)	N/A	10.00000 (mg/L)	42475.26460	1.72
12/15/2021 09:27:42	ICAL 2	As (193.696 nm)	N/A	1.00000 (mg/L)	295.03797	1.60
12/15/2021 09:27:42	ICAL 2	B (249.772 nm)	N/A	1.00000 (mg/L)	24015.90751	1.80
12/15/2021 09:27:42	ICAL 2	Ba (413.064 nm)	N/A	1.00000 (mg/L)	10305.29898	1.81
12/15/2021 09:27:42	ICAL 2	Be (313.042 nm)	N/A	1.00000 (mg/L)	1588056.66793	2.09
12/15/2021 09:27:42	ICAL 2	Ca (373.690 nm)	N/A	10.00000 (mg/L)	43047.93217	1.75
12/15/2021 09:27:42	ICAL 2	Cd (228.802 nm)	N/A	1.00000 (mg/L)	20524.56574	1.84
12/15/2021 09:27:42	ICAL 2	Co (230.786 nm)	N/A	1.00000 (mg/L)	6688.76733	1.89
12/15/2021 09:27:42	ICAL 2	Cr (267.716 nm)	N/A	1.00000 (mg/L)	16906.15382	1.69
12/15/2021 09:27:42	ICAL 2	Cu (327.395 nm)	N/A	1.00000 (mg/L)	27609.53315	1.75
12/15/2021 09:27:42	ICAL 2	Fe (238.204 nm)	N/A	10.00000 (mg/L)	246575.80657	1.74
12/15/2021 09:27:42	ICAL 2	K (766.491 nm)	N/A	10.00000 (mg/L)	15949.32970	1.59
12/15/2021 09:27:42	ICAL 2	Mg (279.800 nm)	N/A	10.00000 (mg/L)	11862.39307	1.68
12/15/2021 09:27:42	ICAL 2	Mn (257.610 nm)	N/A	1.00000 (mg/L)	144938.47864	1.73
12/15/2021 09:27:42	ICAL 2	Mo (204.598 nm)	N/A	1.00000 (mg/L)	2423.96575	2.09
12/15/2021 09:27:42	ICAL 2	Na (589.592 nm)	N/A	10.00000 (mg/L)	93712.72885	1.58
12/15/2021 09:27:42	ICAL 2	Ni (221.648 nm)	N/A	1.00000 (mg/L)	978.17347	1.82
12/15/2021 09:27:42	ICAL 2	P (213.618 nm)	N/A	1.00000 (mg/L)	643.58011	1.49
12/15/2021 09:27:42	ICAL 2	Pb (220.353 nm)	N/A	1.00000 (mg/L)	1394.86781	1.65
12/15/2021 09:27:42	ICAL 2	S (181.972 nm)	N/A	1.00000 (mg/L)	39.35889	1.68
12/15/2021 09:27:42	ICAL 2	Sb (217.582 nm)	N/A	1.00000 (mg/L)	579.37103	1.65
12/15/2021 09:27:42	ICAL 2	Se (196.026 nm)	N/A	1.00000 (mg/L)	489.42453	2.30
12/15/2021 09:27:42	ICAL 2	Sn (189.925 nm)	N/A	1.00000 (mg/L)	426.32446	0.59
12/15/2021 09:27:42	ICAL 2	Sr (407.771 nm)	N/A	1.00000 (mg/L)	1259863.88820	2.27
12/15/2021 09:27:42	ICAL 2	Ti (337.280 nm)	N/A	1.00000 (mg/L)	28448.53035	1.77
12/15/2021 09:27:42	ICAL 2	Tl (351.923 nm)	N/A	1.00000 (mg/L)	1109.53021	2.21
12/15/2021 09:27:42	ICAL 2	V (311.837 nm)	N/A	1.00000 (mg/L)	42545.06283	1.67
12/15/2021 09:27:42	ICAL 2	Zn (206.200 nm)	N/A	1.00000 (mg/L)	896.21463	1.57
12/15/2021 09:30:32	ICAL 3	Ag (328.068 nm)	N/A	0.20000 (mg/L)	7178.57640	1.64
12/15/2021 09:30:32	ICAL 3	Al (308.215 nm)	N/A	20.00000 (mg/L)	80829.91028	1.66
12/15/2021 09:30:32	ICAL 3	As (193.696 nm)	N/A	2.00000 (mg/L)	554.56743	1.88
12/15/2021 09:30:32	ICAL 3	B (249.772 nm)	N/A	2.00000 (mg/L)	45995.58330	2.00
12/15/2021 09:30:32	ICAL 3	Ba (413.064 nm)	N/A	2.00000 (mg/L)	19429.48481	1.89
12/15/2021 09:30:32	ICAL 3	Be (313.042 nm)	N/A	2.00000 (mg/L)	2987266.93440	1.89
12/15/2021 09:30:32	ICAL 3	Ca (373.690 nm)	N/A	20.00000 (mg/L)	81437.16860	1.94
12/15/2021 09:30:32	ICAL 3	Cd (228.802 nm)	N/A	2.00000 (mg/L)	38786.56390	2.05
12/15/2021 09:30:32	ICAL 3	Co (230.786 nm)	N/A	2.00000 (mg/L)	12550.29967	1.86
12/15/2021 09:30:32	ICAL 3	Cr (267.716 nm)	N/A	2.00000 (mg/L)	31980.74178	1.75
12/15/2021 09:30:32	ICAL 3	Cu (327.395 nm)	N/A	2.00000 (mg/L)	52726.59678	1.97
12/15/2021 09:30:32	ICAL 3	Fe (238.204 nm)	N/A	20.00000 (mg/L)	461860.37383	1.95

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 09:30:32	ICAL 3	K (766.491 nm)	N/A	20.00000 (mg/L)	30577.56598	1.89
12/15/2021 09:30:32	ICAL 3	Mg (279.800 nm)	N/A	20.00000 (mg/L)	22442.88727	1.95
12/15/2021 09:30:32	ICAL 3	Mn (257.610 nm)	N/A	2.00000 (mg/L)	273262.31929	1.91
12/15/2021 09:30:32	ICAL 3	Mo (204.598 nm)	N/A	2.00000 (mg/L)	4588.85648	2.60
12/15/2021 09:30:32	ICAL 3	Na (589.592 nm)	N/A	20.00000 (mg/L)	179711.12574	1.86
12/15/2021 09:30:32	ICAL 3	Ni (221.648 nm)	N/A	2.00000 (mg/L)	1834.42195	2.03
12/15/2021 09:30:32	ICAL 3	P (213.618 nm)	N/A	2.00000 (mg/L)	1242.57012	1.94
12/15/2021 09:30:32	ICAL 3	Pb (220.353 nm)	N/A	2.00000 (mg/L)	2632.10379	1.85
12/15/2021 09:30:32	ICAL 3	S (181.972 nm)	N/A	2.00000 (mg/L)	76.22938	1.43
12/15/2021 09:30:32	ICAL 3	Sb (217.582 nm)	N/A	2.00000 (mg/L)	1095.24163	1.68
12/15/2021 09:30:32	ICAL 3	Se (196.026 nm)	N/A	2.00000 (mg/L)	916.15002	1.96
12/15/2021 09:30:32	ICAL 3	Sn (189.925 nm)	N/A	2.00000 (mg/L)	797.94181	1.84
12/15/2021 09:30:32	ICAL 3	Sr (407.771 nm)	N/A	2.00000 (mg/L)	2401036.48201	2.08
12/15/2021 09:30:32	ICAL 3	Ti (337.280 nm)	N/A	2.00000 (mg/L)	54000.23698	1.96
12/15/2021 09:30:32	ICAL 3	Tl (351.923 nm)	N/A	2.00000 (mg/L)	2126.74591	1.90
12/15/2021 09:30:32	ICAL 3	V (311.837 nm)	N/A	2.00000 (mg/L)	80834.88941	1.91
12/15/2021 09:30:32	ICAL 3	Zn (206.200 nm)	N/A	2.00000 (mg/L)	1675.44246	2.31
12/15/2021 09:33:23	Lab Control Sample	Ag (328.068 nm)	1.74	0.19884 (mg/L)	7226.79008	1.74
12/15/2021 09:33:23	Lab Control Sample	Al (308.215 nm)	1.45	19.69544 (mg/L)	81323.89292	1.44
12/15/2021 09:33:23	Lab Control Sample	As (193.696 nm)	1.91	1.95833 (mg/L)	559.86927	1.90
12/15/2021 09:33:23	Lab Control Sample	B (249.772 nm)	1.80	1.97810 (mg/L)	46451.56408	1.80
12/15/2021 09:33:23	Lab Control Sample	Ba (413.064 nm)	1.73	1.99297 (mg/L)	19586.21781	1.72
12/15/2021 09:33:23	Lab Control Sample	Be (313.042 nm)	1.68	1.99833 (mg/L)	3022423.91354	1.68
12/15/2021 09:33:23	Lab Control Sample	Ca (373.690 nm)	1.82	19.06132 (mg/L)	82227.05680	1.82
12/15/2021 09:33:23	Lab Control Sample	Cd (228.802 nm)	1.77	1.99323 (mg/L)	39102.99347	1.77
12/15/2021 09:33:23	Lab Control Sample	Co (230.786 nm)	1.88	1.98914 (mg/L)	12645.02653	1.88
12/15/2021 09:33:23	Lab Control Sample	Cr (267.716 nm)	1.57	1.99022 (mg/L)	32186.02456	1.57
12/15/2021 09:33:23	Lab Control Sample	Cu (327.395 nm)	1.82	1.99544 (mg/L)	53100.30166	1.82
12/15/2021 09:33:23	Lab Control Sample	Fe (238.204 nm)	1.87	19.27612 (mg/L)	465928.80311	1.87
12/15/2021 09:33:23	Lab Control Sample	K (766.491 nm)	1.63	19.80529 (mg/L)	30860.06012	1.61
12/15/2021 09:33:23	Lab Control Sample	Mg (279.800 nm)	1.82	19.51673 (mg/L)	22627.96523	1.82
12/15/2021 09:33:23	Lab Control Sample	Mn (257.610 nm)	1.78	1.99263 (mg/L)	275562.18456	1.78
12/15/2021 09:33:23	Lab Control Sample	Mo (204.598 nm)	2.36	1.96274 (mg/L)	4632.66178	2.36
12/15/2021 09:33:23	Lab Control Sample	Na (589.592 nm)	1.66	20.04258 (mg/L)	181337.94444	1.65
12/15/2021 09:33:23	Lab Control Sample	Ni (221.648 nm)	2.10	1.99137 (mg/L)	1850.63588	2.10
12/15/2021 09:33:23	Lab Control Sample	P (213.618 nm)	1.39	1.99029 (mg/L)	1251.95660	1.39
12/15/2021 09:33:23	Lab Control Sample	Pb (220.353 nm)	1.93	1.99121 (mg/L)	2651.60738	1.93
12/15/2021 09:33:23	Lab Control Sample	S (181.972 nm)	1.41	2.02977 (mg/L)	77.87869	1.41
12/15/2021 09:33:23	Lab Control Sample	Sb (217.582 nm)	1.73	1.99361 (mg/L)	1103.63156	1.73
12/15/2021 09:33:23	Lab Control Sample	Se (196.026 nm)	1.80	1.99943 (mg/L)	927.73983	1.79
12/15/2021 09:33:23	Lab Control Sample	Sn (189.925 nm)	1.82	1.99620 (mg/L)	806.69692	1.81
12/15/2021 09:33:23	Lab Control Sample	Sr (407.771 nm)	1.83	1.92531 (mg/L)	2418122.12603	1.83
12/15/2021 09:33:23	Lab Control Sample	Ti (337.280 nm)	1.81	1.99658 (mg/L)	54482.58573	1.81
12/15/2021 09:33:23	Lab Control Sample	Tl (351.923 nm)	1.90	1.99007 (mg/L)	2149.88049	1.90
12/15/2021 09:33:23	Lab Control Sample	V (311.837 nm)	1.89	1.99451 (mg/L)	81459.65221	1.89
12/15/2021 09:33:23	Lab Control Sample	Zn (206.200 nm)	2.21	1.98690 (mg/L)	1687.11252	2.20
12/15/2021 09:36:14	Initial Calib Verif	Ag (328.068 nm)	1.93	0.05020 (mg/L)	1827.14328	1.93
12/15/2021 09:36:14	Initial Calib Verif	Al (308.215 nm)	1.70	4.90033 (mg/L)	20527.09420	1.67

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 09:36:14	Initial Calib Verif	As (193.696 nm)	0.92	0.49252 (mg/L)	142.56090	0.90
12/15/2021 09:36:14	Initial Calib Verif	B (249.772 nm)	1.66	0.51812 (mg/L)	12212.54634	1.65
12/15/2021 09:36:14	Initial Calib Verif	Ba (413.064 nm)	1.53	0.50961 (mg/L)	5047.82572	1.51
12/15/2021 09:36:14	Initial Calib Verif	Be (313.042 nm)	2.62	0.50153 (mg/L)	758873.03548	2.62
12/15/2021 09:36:14	Initial Calib Verif	Ca (373.690 nm)	1.80	4.81831 (mg/L)	20830.80836	1.80
12/15/2021 09:36:14	Initial Calib Verif	Cd (228.802 nm)	1.69	0.49821 (mg/L)	9786.46506	1.68
12/15/2021 09:36:14	Initial Calib Verif	Co (230.786 nm)	1.66	0.51260 (mg/L)	3265.07187	1.66
12/15/2021 09:36:14	Initial Calib Verif	Cr (267.716 nm)	1.76	0.50745 (mg/L)	8217.79983	1.76
12/15/2021 09:36:14	Initial Calib Verif	Cu (327.395 nm)	1.68	0.49577 (mg/L)	13205.31566	1.68
12/15/2021 09:36:14	Initial Calib Verif	Fe (238.204 nm)	1.76	4.99061 (mg/L)	120663.06575	1.76
12/15/2021 09:36:14	Initial Calib Verif	K (766.491 nm)	1.66	4.76687 (mg/L)	7698.58692	1.58
12/15/2021 09:36:14	Initial Calib Verif	Mg (279.800 nm)	1.71	4.97451 (mg/L)	5773.20193	1.71
12/15/2021 09:36:14	Initial Calib Verif	Mn (257.610 nm)	1.75	0.51326 (mg/L)	70991.22404	1.75
12/15/2021 09:36:14	Initial Calib Verif	Mo (204.598 nm)	2.04	0.49900 (mg/L)	1181.68133	2.03
12/15/2021 09:36:14	Initial Calib Verif	Na (589.592 nm)	1.53	4.86529 (mg/L)	45069.88321	1.49
12/15/2021 09:36:14	Initial Calib Verif	Ni (221.648 nm)	2.29	0.51403 (mg/L)	478.29114	2.29
12/15/2021 09:36:14	Initial Calib Verif	P (213.618 nm)	1.92	0.49733 (mg/L)	315.07029	1.90
12/15/2021 09:36:14	Initial Calib Verif	Pb (220.353 nm)	1.92	0.50730 (mg/L)	676.75020	1.91
12/15/2021 09:36:14	Initial Calib Verif	S (181.972 nm)	7.65	0.58632 Q (mg/L)	22.49587 Q	7.65
12/15/2021 09:36:14	Initial Calib Verif	Sb (217.582 nm)	1.86	0.50823 (mg/L)	284.24307	1.83
12/15/2021 09:36:14	Initial Calib Verif	Se (196.026 nm)	1.91	0.51926 (mg/L)	243.51209	1.88
12/15/2021 09:36:14	Initial Calib Verif	Sn (189.925 nm)	1.27	0.51356 (mg/L)	209.90782	1.25
12/15/2021 09:36:14	Initial Calib Verif	Sr (407.771 nm)	2.40	0.49610 (mg/L)	623091.22180	2.40
12/15/2021 09:36:14	Initial Calib Verif	Ti (337.280 nm)	1.79	0.51026 (mg/L)	13937.33822	1.79
12/15/2021 09:36:14	Initial Calib Verif	Tl (351.923 nm)	1.45	0.48312 (mg/L)	528.62678	1.42
12/15/2021 09:36:14	Initial Calib Verif	V (311.837 nm)	1.75	0.50130 (mg/L)	20480.88868	1.75
12/15/2021 09:36:14	Initial Calib Verif	Zn (206.200 nm)	2.27	0.51450 (mg/L)	439.19858	2.26
12/15/2021 09:43:07	Initial Calib Blank	Ag (328.068 nm)	> 100.00	0.00001 u (mg/L)	3.87751	79.92
12/15/2021 09:43:07	Initial Calib Blank	Al (308.215 nm)	28.19	0.00250 (mg/L)	400.68635	0.72
12/15/2021 09:43:07	Initial Calib Blank	As (193.696 nm)	> 100.00	-0.00176 u (mg/L)	1.84001	38.92
12/15/2021 09:43:07	Initial Calib Blank	B (249.772 nm)	8.57	0.00136 (mg/L)	93.79223	2.92
12/15/2021 09:43:07	Initial Calib Blank	Ba (413.064 nm)	> 100.00	0.00090 u (mg/L)	61.89041	15.51
12/15/2021 09:43:07	Initial Calib Blank	Be (313.042 nm)	65.43	0.00000 (mg/L)	437.54845	0.76
12/15/2021 09:43:07	Initial Calib Blank	Ca (373.690 nm)	21.73	-0.00157 u (mg/L)	54.10081	2.72
12/15/2021 09:43:07	Initial Calib Blank	Cd (228.802 nm)	75.76	-0.00009 u (mg/L)	14.98904	9.26
12/15/2021 09:43:07	Initial Calib Blank	Co (230.786 nm)	> 100.00	0.00007 u (mg/L)	9.17398	14.20
12/15/2021 09:43:07	Initial Calib Blank	Cr (267.716 nm)	98.34	-0.00027 u (mg/L)	10.73708	40.32
12/15/2021 09:43:07	Initial Calib Blank	Cu (327.395 nm)	> 100.00	0.00000 u (mg/L)	16.76651	13.26
12/15/2021 09:43:07	Initial Calib Blank	Fe (238.204 nm)	15.62	0.00038 (mg/L)	54.40358	2.64
12/15/2021 09:43:07	Initial Calib Blank	K (766.491 nm)	10.63	-0.05141 u (mg/L)	277.69876	3.03
12/15/2021 09:43:07	Initial Calib Blank	Mg (279.800 nm)	95.79	-0.00121 u (mg/L)	6.23091	21.54
12/15/2021 09:43:07	Initial Calib Blank	Mn (257.610 nm)	> 100.00	0.00001 u (mg/L)	17.82495	12.49
12/15/2021 09:43:07	Initial Calib Blank	Mo (204.598 nm)	> 100.00	0.00063 u (mg/L)	6.69635	32.55
12/15/2021 09:43:07	Initial Calib Blank	Na (589.592 nm)	10.44	-0.01593 u (mg/L)	1244.32050	1.20
12/15/2021 09:43:07	Initial Calib Blank	Ni (221.648 nm)	> 100.00	-0.00008 u (mg/L)	0.71628	> 100.00
12/15/2021 09:43:07	Initial Calib Blank	P (213.618 nm)	56.92	-0.00263 u (mg/L)	1.32894	70.62
12/15/2021 09:43:07	Initial Calib Blank	Pb (220.353 nm)	> 100.00	-0.00027 u (mg/L)	1.24714	> 100.00
12/15/2021 09:43:07	Initial Calib Blank	S (181.972 nm)	> 100.00	-0.00271 u (mg/L)	-0.10409	> 100.00

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 09:43:07	Initial Calib Blank	Sb (217.582 nm)	45.66	0.00237 (mg/L)	5.18894	11.50
12/15/2021 09:43:07	Initial Calib Blank	Se (196.026 nm)	5.98	0.00725 (mg/L)	6.82908	2.94
12/15/2021 09:43:07	Initial Calib Blank	Sn (189.925 nm)	> 100.00	-0.00019 u (mg/L)	3.11405	39.47
12/15/2021 09:43:07	Initial Calib Blank	Sr (407.771 nm)	23.01	0.00013 (mg/L)	159.01706	23.01
12/15/2021 09:43:07	Initial Calib Blank	Ti (337.280 nm)	92.19	0.00017 u (mg/L)	22.39218	18.71
12/15/2021 09:43:07	Initial Calib Blank	Tl (351.923 nm)	> 100.00	-0.00091 u (mg/L)	7.88173	45.45
12/15/2021 09:43:07	Initial Calib Blank	V (311.837 nm)	30.50	-0.00013 u (mg/L)	4.11691	37.83
12/15/2021 09:43:07	Initial Calib Blank	Zn (206.200 nm)	> 100.00	-0.00049 u (mg/L)	2.73135	15.87
12/15/2021 09:45:56	CRI	Ag (328.068 nm)	1.94	0.00507 (mg/L)	187.49685	1.90
12/15/2021 09:45:56	CRI	Al (308.215 nm)	1.05	0.20800 (mg/L)	1245.14025	0.72
12/15/2021 09:45:56	CRI	As (193.696 nm)	5.91	0.04358 (mg/L)	14.74778	4.97
12/15/2021 09:45:56	CRI	B (249.772 nm)	2.04	0.05286 (mg/L)	1301.44735	1.94
12/15/2021 09:45:56	CRI	Ba (413.064 nm)	4.60	0.01091 (mg/L)	160.03799	3.07
12/15/2021 09:45:56	CRI	Be (313.042 nm)	2.40	0.00477 (mg/L)	7645.35352	2.26
12/15/2021 09:45:56	CRI	Ca (373.690 nm)	2.77	0.10661 (mg/L)	520.41662	2.45
12/15/2021 09:45:56	CRI	Cd (228.802 nm)	3.88	0.00540 (mg/L)	122.63067	3.35
12/15/2021 09:45:56	CRI	Co (230.786 nm)	4.20	0.01006 (mg/L)	72.60606	3.70
12/15/2021 09:45:56	CRI	Cr (267.716 nm)	2.57	0.01097 (mg/L)	192.48102	2.37
12/15/2021 09:45:56	CRI	Cu (327.395 nm)	2.48	0.01008 (mg/L)	284.92554	2.34
12/15/2021 09:45:56	CRI	Fe (238.204 nm)	2.07	0.10767 (mg/L)	2647.59096	2.03
12/15/2021 09:45:56	CRI	K (766.491 nm)	6.10	0.43076 (mg/L)	1020.31515	3.97
12/15/2021 09:45:56	CRI	Mg (279.800 nm)	1.37	0.10492 (mg/L)	129.23809	1.29
12/15/2021 09:45:56	CRI	Mn (257.610 nm)	2.41	0.00538 (mg/L)	760.78523	2.35
12/15/2021 09:45:56	CRI	Mo (204.598 nm)	3.88	0.05108 (mg/L)	125.64702	3.71
12/15/2021 09:45:56	CRI	Na (589.592 nm)	2.42	0.93730 (mg/L)	9802.78602	2.08
12/15/2021 09:45:56	CRI	Ni (221.648 nm)	8.75	0.02079 (mg/L)	20.10931	8.41
12/15/2021 09:45:56	CRI	P (213.618 nm)	7.04	0.04016 (mg/L)	28.18026	6.29
12/15/2021 09:45:56	CRI	Pb (220.353 nm)	9.16	0.01143 (mg/L)	16.81799	8.29
12/15/2021 09:45:56	CRI	S (181.972 nm)	36.05	0.08564 R (mg/L)	3.28567 R	36.05
12/15/2021 09:45:56	CRI	Sb (217.582 nm)	13.23	0.01736 (mg/L)	13.46055	9.42
12/15/2021 09:45:56	CRI	Se (196.026 nm)	12.74	0.02351 (mg/L)	14.34360	9.66
12/15/2021 09:45:56	CRI	Sn (189.925 nm)	7.05	0.05266 (mg/L)	24.38853	6.13
12/15/2021 09:45:56	CRI	Sr (407.771 nm)	1.99	0.05412 (mg/L)	67968.42827	1.99
12/15/2021 09:45:56	CRI	Ti (337.280 nm)	2.84	0.05175 (mg/L)	1429.42526	2.80
12/15/2021 09:45:56	CRI	Tl (351.923 nm)	12.85	0.01833 (mg/L)	28.58084	8.86
12/15/2021 09:45:56	CRI	V (311.837 nm)	2.12	0.00957 (mg/L)	400.19783	2.07
12/15/2021 09:45:56	CRI	Zn (206.200 nm)	6.72	0.02177 (mg/L)	21.59297	5.74
12/15/2021 09:51:48	Interf Check A	Ag (328.068 nm)	> 100.00	0.00004 u (mg/L)	4.98119	57.20
12/15/2021 09:51:48	Interf Check A	Al (308.215 nm)	1.90	275.53390 (mg/L)	1132627.86416	1.90
12/15/2021 09:51:48	Interf Check A	As (193.696 nm)	> 100.00	0.00301 u (mg/L)	3.19775	> 100.00
12/15/2021 09:51:48	Interf Check A	B (249.772 nm)	1.52	0.04262 (mg/L)	1061.44487	1.43
12/15/2021 09:51:48	Interf Check A	Ba (413.064 nm)	10.61	0.00227 (mg/L)	75.36843	3.14
12/15/2021 09:51:48	Interf Check A	Be (313.042 nm)	0.61	0.00024 (mg/L)	789.25827	0.28
12/15/2021 09:51:48	Interf Check A	Ca (373.690 nm)	1.78	250.31178 o (mg/L)	1079060.85593	1.77
12/15/2021 09:51:48	Interf Check A	Cd (228.802 nm)	33.93	0.00089 (mg/L)	34.30536	17.29
12/15/2021 09:51:48	Interf Check A	Co (230.786 nm)	21.92	0.00199 (mg/L)	21.37876	12.98
12/15/2021 09:51:48	Interf Check A	Cr (267.716 nm)	8.29	0.00186 (mg/L)	45.25714	5.52
12/15/2021 09:51:48	Interf Check A	Cu (327.395 nm)	10.82	0.00094 (mg/L)	41.78572	6.49

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 09:51:48	Interf Check A	Fe (238.204 nm)	1.37	91.28669 (mg/L)	2206349.20713	1.37
12/15/2021 09:51:48	Interf Check A	K (766.491 nm)	31.21	-0.05629 u (mg/L)	270.18730	10.02
12/15/2021 09:51:48	Interf Check A	Mg (279.800 nm)	1.95	271.32867 o (mg/L)	314483.71706	1.95
12/15/2021 09:51:48	Interf Check A	Mn (257.610 nm)	5.34	0.00101 (mg/L)	156.88334	4.76
12/15/2021 09:51:48	Interf Check A	Mo (204.598 nm)	18.27	0.00933 (mg/L)	27.20593	14.77
12/15/2021 09:51:48	Interf Check A	Na (589.592 nm)	5.52	0.13370 (mg/L)	2587.75069	2.56
12/15/2021 09:51:48	Interf Check A	Ni (221.648 nm)	55.52	0.00401 (mg/L)	4.51769	45.77
12/15/2021 09:51:48	Interf Check A	P (213.618 nm)	> 100.00	0.00069 u (mg/L)	3.41046	38.80
12/15/2021 09:51:48	Interf Check A	Pb (220.353 nm)	54.21	-0.00842 u (mg/L)	-9.59494	63.28
12/15/2021 09:51:48	Interf Check A	S (181.972 nm)	> 100.00	0.01985 u (mg/L)	0.76163	> 100.00
12/15/2021 09:51:48	Interf Check A	Sb (217.582 nm)	> 100.00	0.00215 u (mg/L)	5.07091	46.89
12/15/2021 09:51:48	Interf Check A	Se (196.026 nm)	> 100.00	0.00201 u (mg/L)	4.40710	63.96
12/15/2021 09:51:48	Interf Check A	Sn (189.925 nm)	11.06	0.00772 (mg/L)	6.30150	5.46
12/15/2021 09:51:48	Interf Check A	Sr (407.771 nm)	2.55	0.00992 (mg/L)	12460.21112	2.55
12/15/2021 09:51:48	Interf Check A	Ti (337.280 nm)	16.93	0.00083 (mg/L)	40.56672	9.48
12/15/2021 09:51:48	Interf Check A	Tl (351.923 nm)	27.12	0.01298 (mg/L)	22.82970	16.59
12/15/2021 09:51:48	Interf Check A	V (311.837 nm)	15.10	0.00055 (mg/L)	31.48577	10.67
12/15/2021 09:51:48	Interf Check A	Zn (206.200 nm)	32.68	0.00612 (mg/L)	8.33355	20.35
12/15/2021 09:54:41	Interf Check AB	Ag (328.068 nm)	1.36	0.05248 (mg/L)	1909.85591	1.36
12/15/2021 09:54:41	Interf Check AB	Al (308.215 nm)	1.62	262.67785 (mg/L)	1079799.17655	1.62
12/15/2021 09:54:41	Interf Check AB	As (193.696 nm)	3.57	0.47135 (mg/L)	136.53395	3.51
12/15/2021 09:54:41	Interf Check AB	B (249.772 nm)	1.77	0.48879 (mg/L)	11524.68914	1.76
12/15/2021 09:54:41	Interf Check AB	Ba (413.064 nm)	1.52	0.49704 (mg/L)	4924.53457	1.50
12/15/2021 09:54:41	Interf Check AB	Be (313.042 nm)	2.19	0.49973 (mg/L)	756152.85838	2.19
12/15/2021 09:54:41	Interf Check AB	Ca (373.690 nm)	1.75	238.37481 o (mg/L)	1027605.06972	1.75
12/15/2021 09:54:41	Interf Check AB	Cd (228.802 nm)	1.83	0.51490 (mg/L)	10113.64575	1.83
12/15/2021 09:54:41	Interf Check AB	Co (230.786 nm)	1.67	0.48174 (mg/L)	3069.04007	1.67
12/15/2021 09:54:41	Interf Check AB	Cr (267.716 nm)	1.63	0.49512 (mg/L)	8018.42964	1.63
12/15/2021 09:54:41	Interf Check AB	Cu (327.395 nm)	1.43	0.53849 (mg/L)	14341.88341	1.43
12/15/2021 09:54:41	Interf Check AB	Fe (238.204 nm)	1.32	89.71617 (mg/L)	2168391.35830	1.32
12/15/2021 09:54:41	Interf Check AB	K (766.491 nm)	1.86	5.73676 (mg/L)	9192.37626	1.78
12/15/2021 09:54:41	Interf Check AB	Mg (279.800 nm)	1.62	258.56319 o (mg/L)	299688.24377	1.62
12/15/2021 09:54:41	Interf Check AB	Mn (257.610 nm)	1.66	0.49525 (mg/L)	68501.86463	1.66
12/15/2021 09:54:41	Interf Check AB	Mo (204.598 nm)	2.68	0.50597 (mg/L)	1198.09975	2.67
12/15/2021 09:54:41	Interf Check AB	Na (589.592 nm)	1.62	5.73201 (mg/L)	52851.72182	1.58
12/15/2021 09:54:41	Interf Check AB	Ni (221.648 nm)	1.27	0.47899 (mg/L)	445.73962	1.27
12/15/2021 09:54:41	Interf Check AB	P (213.618 nm)	1.57	0.47289 (mg/L)	299.73382	1.55
12/15/2021 09:54:41	Interf Check AB	Pb (220.353 nm)	2.14	0.48662 (mg/L)	649.22085	2.13
12/15/2021 09:54:41	Interf Check AB	S (181.972 nm)	3.78	0.57933 (mg/L)	22.22767	3.78
12/15/2021 09:54:41	Interf Check AB	Sb (217.582 nm)	2.09	0.49503 (mg/L)	276.95899	2.06
12/15/2021 09:54:41	Interf Check AB	Se (196.026 nm)	2.34	0.47859 (mg/L)	224.71337	2.31
12/15/2021 09:54:41	Interf Check AB	Sn (189.925 nm)	1.01	0.49512 (mg/L)	202.48515	1.00
12/15/2021 09:54:41	Interf Check AB	Sr (407.771 nm)	1.70	0.50966 (mg/L)	640110.40492	1.70
12/15/2021 09:54:41	Interf Check AB	Ti (337.280 nm)	1.56	0.50895 (mg/L)	13901.54494	1.56
12/15/2021 09:54:41	Interf Check AB	Tl (351.923 nm)	3.33	0.53358 (mg/L)	582.92227	3.28
12/15/2021 09:54:41	Interf Check AB	V (311.837 nm)	1.38	0.50822 (mg/L)	20763.57640	1.37
12/15/2021 09:54:41	Interf Check AB	Zn (206.200 nm)	1.36	0.48103 (mg/L)	410.83618	1.35
12/15/2021 09:57:31	CRI	Ag (328.068 nm)	2.70	0.00534 (mg/L)	197.35130	2.65

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 09:57:31	CRI	Al (308.215 nm)	2.28	0.22239 (mg/L)	1304.27967	1.59
12/15/2021 09:57:31	CRI	As (193.696 nm)	12.29	0.04331 (mg/L)	14.67354	10.33
12/15/2021 09:57:31	CRI	B (249.772 nm)	1.01	0.05400 (mg/L)	1328.11959	0.97
12/15/2021 09:57:31	CRI	Ba (413.064 nm)	1.99	0.01246 (mg/L)	175.20267	1.39
12/15/2021 09:57:31	CRI	Be (313.042 nm)	1.83	0.00511 (mg/L)	8167.02474	1.74
12/15/2021 09:57:31	CRI	Ca (373.690 nm)	2.51	0.11962 (mg/L)	576.50741	2.25
12/15/2021 09:57:31	CRI	Cd (228.802 nm)	3.76	0.00533 (mg/L)	121.41251	3.24
12/15/2021 09:57:31	CRI	Co (230.786 nm)	3.12	0.01087 (mg/L)	77.75728	2.77
12/15/2021 09:57:31	CRI	Cr (267.716 nm)	3.00	0.01110 (mg/L)	194.60454	2.77
12/15/2021 09:57:31	CRI	Cu (327.395 nm)	5.72	0.01005 (mg/L)	284.09467	5.38
12/15/2021 09:57:31	CRI	Fe (238.204 nm)	0.84	0.11751 (mg/L)	2885.35129	0.83
12/15/2021 09:57:31	CRI	K (766.491 nm)	2.61	0.41687 (mg/L)	998.93308	1.68
12/15/2021 09:57:31	CRI	Mg (279.800 nm)	1.87	0.11565 (mg/L)	141.67193	1.77
12/15/2021 09:57:31	CRI	Mn (257.610 nm)	1.90	0.00549 (mg/L)	776.26070	1.85
12/15/2021 09:57:31	CRI	Mo (204.598 nm)	0.35	0.05244 (mg/L)	128.83778	0.33
12/15/2021 09:57:31	CRI	Na (589.592 nm)	1.75	0.95731 (mg/L)	9982.49147	1.50
12/15/2021 09:57:31	CRI	Ni (221.648 nm)	7.72	0.02284 (mg/L)	22.01233	7.44
12/15/2021 09:57:31	CRI	P (213.618 nm)	2.74	0.04116 (mg/L)	28.80836	2.46
12/15/2021 09:57:31	CRI	Pb (220.353 nm)	7.73	0.01180 (mg/L)	17.31103	7.02
12/15/2021 09:57:31	CRI	S (181.972 nm)	32.04	0.04367 (mg/L)	1.67566	32.04
12/15/2021 09:57:31	CRI	Sb (217.582 nm)	9.67	0.02235 (mg/L)	16.20998	7.36
12/15/2021 09:57:31	CRI	Se (196.026 nm)	4.12	0.02601 (mg/L)	15.50150	3.20
12/15/2021 09:57:31	CRI	Sn (189.925 nm)	4.46	0.05230 (mg/L)	24.24460	3.87
12/15/2021 09:57:31	CRI	Sr (407.771 nm)	2.20	0.05456 (mg/L)	68523.26724	2.20
12/15/2021 09:57:31	CRI	Ti (337.280 nm)	2.03	0.05304 (mg/L)	1464.81439	2.00
12/15/2021 09:57:31	CRI	Tl (351.923 nm)	13.92	0.01514 (mg/L)	25.15464	9.01
12/15/2021 09:57:31	CRI	V (311.837 nm)	1.56	0.00984 (mg/L)	410.91966	1.52
12/15/2021 09:57:31	CRI	Zn (206.200 nm)	0.71	0.02111 (mg/L)	21.03883	0.60
12/15/2021 10:00:20	CRI-2	Ag (328.068 nm)	5.13	0.00281 (mg/L)	105.57312	4.96
12/15/2021 10:00:20	CRI-2	Al (308.215 nm)	1.46	0.12115 (mg/L)	888.24851	0.82
12/15/2021 10:00:20	CRI-2	As (193.696 nm)	7.37	0.02876 (mg/L)	10.53109	5.73
12/15/2021 10:00:20	CRI-2	B (249.772 nm)	1.58	0.02803 (mg/L)	719.20472	1.45
12/15/2021 10:00:20	CRI-2	Ba (413.064 nm)	3.08	0.00626 (mg/L)	114.47402	1.65
12/15/2021 10:00:20	CRI-2	Be (313.042 nm)	1.88	0.00256 (mg/L)	4300.86439	1.69
12/15/2021 10:00:20	CRI-2	Ca (373.690 nm)	0.54	0.08153 (mg/L)	412.33029	0.46
12/15/2021 10:00:20	CRI-2	Cd (228.802 nm)	3.01	0.00291 (mg/L)	73.91667	2.33
12/15/2021 10:00:20	CRI-2	Co (230.786 nm)	6.96	0.00537 (mg/L)	42.86038	5.54
12/15/2021 10:00:20	CRI-2	Cr (267.716 nm)	3.09	0.00598 (mg/L)	111.76520	2.67
12/15/2021 10:00:20	CRI-2	Cu (327.395 nm)	7.43	0.00527 (mg/L)	156.95228	6.64
12/15/2021 10:00:20	CRI-2	Fe (238.204 nm)	1.25	0.07341 (mg/L)	1819.42560	1.22
12/15/2021 10:00:20	CRI-2	K (766.491 nm)	9.03	0.19558 (mg/L)	658.11055	4.13
12/15/2021 10:00:20	CRI-2	Mg (279.800 nm)	1.66	0.06454 (mg/L)	82.43579	1.51
12/15/2021 10:00:20	CRI-2	Mn (257.610 nm)	2.05	0.00299 (mg/L)	430.95631	1.97
12/15/2021 10:00:20	CRI-2	Mo (204.598 nm)	6.17	0.02735 (mg/L)	69.70101	5.70
12/15/2021 10:00:20	CRI-2	Na (589.592 nm)	2.69	0.51099 (mg/L)	5975.22395	2.07
12/15/2021 10:00:20	CRI-2	Ni (221.648 nm)	4.42	0.01080 (mg/L)	10.82709	4.09
12/15/2021 10:00:20	CRI-2	P (213.618 nm)	28.51	0.02109 (mg/L)	16.21048	23.27
12/15/2021 10:00:20	CRI-2	Pb (220.353 nm)	29.53	0.00473 (mg/L)	7.90308	23.53

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 10:00:20	CRI-2	S (181.972 nm)	25.86	0.03829 (mg/L)	1.46920	25.86
12/15/2021 10:00:20	CRI-2	Sb (217.582 nm)	20.17	0.00688 (mg/L)	7.67554	9.97
12/15/2021 10:00:20	CRI-2	Se (196.026 nm)	7.91	0.01594 (mg/L)	10.84744	5.37
12/15/2021 10:00:20	CRI-2	Sn (189.925 nm)	0.89	0.02726 (mg/L)	14.16482	0.69
12/15/2021 10:00:20	CRI-2	Sr (407.771 nm)	2.38	0.02822 (mg/L)	35443.51114	2.38
12/15/2021 10:00:20	CRI-2	Ti (337.280 nm)	2.23	0.02742 (mg/L)	765.87821	2.18
12/15/2021 10:00:20	CRI-2	Tl (351.923 nm)	92.52	0.01278 u (mg/L)	22.61813	56.26
12/15/2021 10:00:20	CRI-2	V (311.837 nm)	1.55	0.00477 (mg/L)	204.15061	1.48
12/15/2021 10:00:20	CRI-2	Zn (206.200 nm)	2.34	0.01724 (mg/L)	17.75978	1.92
12/15/2021 10:03:09	CRI-5	Ag (328.068 nm)	16.28	0.00118 (mg/L)	46.40742	15.07
12/15/2021 10:03:09	CRI-5	Al (308.215 nm)	1.28	0.05177 (mg/L)	603.14379	0.45
12/15/2021 10:03:09	CRI-5	As (193.696 nm)	16.92	0.00986 (mg/L)	5.14881	9.23
12/15/2021 10:03:09	CRI-5	B (249.772 nm)	3.28	0.01081 (mg/L)	315.37274	2.64
12/15/2021 10:03:09	CRI-5	Ba (413.064 nm)	31.38	0.00246 (mg/L)	77.21754	9.81
12/15/2021 10:03:09	CRI-5	Be (313.042 nm)	2.41	0.00092 (mg/L)	1816.78250	1.84
12/15/2021 10:03:09	CRI-5	Ca (373.690 nm)	1.45	0.03748 (mg/L)	222.41144	1.05
12/15/2021 10:03:09	CRI-5	Cd (228.802 nm)	8.13	0.00110 (mg/L)	38.45588	4.57
12/15/2021 10:03:09	CRI-5	Co (230.786 nm)	35.57	0.00191 (mg/L)	20.85339	20.69
12/15/2021 10:03:09	CRI-5	Cr (267.716 nm)	5.16	0.00243 (mg/L)	54.37579	3.72
12/15/2021 10:03:09	CRI-5	Cu (327.395 nm)	9.85	0.00170 (mg/L)	62.03121	7.20
12/15/2021 10:03:09	CRI-5	Fe (238.204 nm)	1.40	0.02838 (mg/L)	731.18130	1.31
12/15/2021 10:03:09	CRI-5	K (766.491 nm)	62.75	0.02648 (mg/L)	397.67023	6.44
12/15/2021 10:03:09	CRI-5	Mg (279.800 nm)	3.24	0.02579 (mg/L)	37.51943	2.58
12/15/2021 10:03:09	CRI-5	Mn (257.610 nm)	2.57	0.00113 (mg/L)	173.07188	2.32
12/15/2021 10:03:09	CRI-5	Mo (204.598 nm)	15.39	0.01089 (mg/L)	30.88969	12.79
12/15/2021 10:03:09	CRI-5	Na (589.592 nm)	3.10	0.23370 (mg/L)	3485.56062	1.87
12/15/2021 10:03:09	CRI-5	Ni (221.648 nm)	20.22	0.00581 (mg/L)	6.18869	17.62
12/15/2021 10:03:09	CRI-5	P (213.618 nm)	34.65	0.00662 (mg/L)	7.13222	20.18
12/15/2021 10:03:09	CRI-5	Pb (220.353 nm)	26.10	0.00208 (mg/L)	4.37198	16.52
12/15/2021 10:03:09	CRI-5	S (181.972 nm)	31.02	0.01744 (mg/L)	0.66922	31.02
12/15/2021 10:03:09	CRI-5	Sb (217.582 nm)	> 100.00	0.00230 u (mg/L)	5.14988	37.50
12/15/2021 10:03:09	CRI-5	Se (196.026 nm)	58.67	0.00660 (mg/L)	6.52558	27.41
12/15/2021 10:03:09	CRI-5	Sn (189.925 nm)	15.37	0.00961 (mg/L)	7.05988	8.42
12/15/2021 10:03:09	CRI-5	Sr (407.771 nm)	1.74	0.01048 (mg/L)	13166.96263	1.74
12/15/2021 10:03:09	CRI-5	Ti (337.280 nm)	2.52	0.01009 (mg/L)	292.97274	2.37
12/15/2021 10:03:09	CRI-5	Tl (351.923 nm)	> 100.00	0.00004 u (mg/L)	8.90668	44.85
12/15/2021 10:03:09	CRI-5	V (311.837 nm)	11.37	0.00140 (mg/L)	66.45961	9.79
12/15/2021 10:03:09	CRI-5	Zn (206.200 nm)	26.19	0.00464 (mg/L)	7.07907	14.56
12/15/2021 10:06:44	CRI-MIDLEVEL	Ag (328.068 nm)	1.49	0.10388 (mg/L)	3777.33732	1.49
12/15/2021 10:06:44	CRI-MIDLEVEL	Al (308.215 nm)	1.52	10.21487 (mg/L)	42365.86997	1.50
12/15/2021 10:06:44	CRI-MIDLEVEL	As (193.696 nm)	0.95	1.01533 (mg/L)	291.40093	0.95
12/15/2021 10:06:44	CRI-MIDLEVEL	B (249.772 nm)	1.76	1.02769 (mg/L)	24162.78717	1.76
12/15/2021 10:06:44	CRI-MIDLEVEL	Ba (413.064 nm)	1.49	1.05586 (mg/L)	10401.54530	1.49
12/15/2021 10:06:44	CRI-MIDLEVEL	Be (313.042 nm)	1.67	1.04848 (mg/L)	1586008.99884	1.67
12/15/2021 10:06:44	CRI-MIDLEVEL	Ca (373.690 nm)	1.54	10.07291 (mg/L)	43481.38414	1.53
12/15/2021 10:06:44	CRI-MIDLEVEL	Cd (228.802 nm)	1.81	1.03813 (mg/L)	20374.01172	1.81
12/15/2021 10:06:44	CRI-MIDLEVEL	Co (230.786 nm)	1.73	1.06047 (mg/L)	6745.48293	1.72
12/15/2021 10:06:44	CRI-MIDLEVEL	Cr (267.716 nm)	1.55	1.04865 (mg/L)	16966.03353	1.55

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 10:06:44	CRI-MIDLEVEL	Cu (327.395 nm)	1.60	1.03000 (mg/L)	27417.19535	1.60
12/15/2021 10:06:44	CRI-MIDLEVEL	Fe (238.204 nm)	1.53	10.28699 (mg/L)	248670.90743	1.53
12/15/2021 10:06:44	CRI-MIDLEVEL	K (766.491 nm)	1.28	9.96122 (mg/L)	15698.67585	1.25
12/15/2021 10:06:44	CRI-MIDLEVEL	Mg (279.800 nm)	1.49	10.28580 (mg/L)	11929.10715	1.49
12/15/2021 10:06:44	CRI-MIDLEVEL	Mn (257.610 nm)	1.54	1.05422 (mg/L)	145797.42546	1.54
12/15/2021 10:06:44	CRI-MIDLEVEL	Mo (204.598 nm)	1.83	1.03232 (mg/L)	2439.05959	1.83
12/15/2021 10:06:44	CRI-MIDLEVEL	Na (589.592 nm)	1.46	10.17017 (mg/L)	92699.30813	1.44
12/15/2021 10:06:44	CRI-MIDLEVEL	Ni (221.648 nm)	1.76	1.06603 (mg/L)	991.06274	1.76
12/15/2021 10:06:44	CRI-MIDLEVEL	P (213.618 nm)	1.49	1.01201 (mg/L)	638.05206	1.48
12/15/2021 10:06:44	CRI-MIDLEVEL	Pb (220.353 nm)	1.25	1.05677 (mg/L)	1408.00132	1.25
12/15/2021 10:06:44	CRI-MIDLEVEL	S (181.972 nm)	2.03	1.06228 (mg/L)	40.75788	2.03
12/15/2021 10:06:44	CRI-MIDLEVEL	Sb (217.582 nm)	1.50	1.03950 (mg/L)	577.31079	1.49
12/15/2021 10:06:44	CRI-MIDLEVEL	Se (196.026 nm)	1.89	1.04054 (mg/L)	484.48235	1.87
12/15/2021 10:06:44	CRI-MIDLEVEL	Sn (189.925 nm)	1.67	1.05316 (mg/L)	427.10707	1.66
12/15/2021 10:06:44	CRI-MIDLEVEL	Sr (407.771 nm)	2.04	0.99381 (mg/L)	1248194.63024	2.04
12/15/2021 10:06:44	CRI-MIDLEVEL	Ti (337.280 nm)	1.60	1.04941 (mg/L)	28644.69554	1.60
12/15/2021 10:06:44	CRI-MIDLEVEL	Tl (351.923 nm)	1.89	1.01845 (mg/L)	1104.56891	1.87
12/15/2021 10:06:44	CRI-MIDLEVEL	V (311.837 nm)	1.50	1.04725 (mg/L)	42776.32651	1.50
12/15/2021 10:06:44	CRI-MIDLEVEL	Zn (206.200 nm)	1.52	1.06997 (mg/L)	909.98505	1.52
12/15/2021 10:09:34	LCR 1	Ag (328.068 nm)	1.90	2.34618 (mg/L)	85235.98391	1.90
12/15/2021 10:09:34	LCR 1	Al (308.215 nm)	1.79	203.16946 (mg/L)	835264.36179	1.79
12/15/2021 10:09:34	LCR 1	As (193.696 nm)	1.52	19.39062 (mg/L)	5522.76135	1.52
12/15/2021 10:09:34	LCR 1	B (249.772 nm)	1.03	0.06955 (mg/L)	1692.86248	1.00
12/15/2021 10:09:34	LCR 1	Ba (413.064 nm)	1.72	18.81941 (mg/L)	184502.56049	1.72
12/15/2021 10:09:34	LCR 1	Be (313.042 nm)	1.56	16.95577 o (mg/L)	25641929.18981	1.56
12/15/2021 10:09:34	LCR 1	Ca (373.690 nm)	1.69	190.75796 o (mg/L)	822346.72595	1.69
12/15/2021 10:09:34	LCR 1	Cd (228.802 nm)	1.66	19.60980 (mg/L)	384554.12077	1.66
12/15/2021 10:09:34	LCR 1	Co (230.786 nm)	1.57	18.51476 (mg/L)	117626.28076	1.57
12/15/2021 10:09:34	LCR 1	Cr (267.716 nm)	1.68	18.81540 (mg/L)	304155.84570	1.68
12/15/2021 10:09:34	LCR 1	Cu (327.395 nm)	2.41	20.79548 (mg/L)	553228.32062	2.41
12/15/2021 10:09:34	LCR 1	Fe (238.204 nm)	1.17	152.07553 o (mg/L)	3675551.83942	1.17
12/15/2021 10:09:34	LCR 1	K (766.491 nm)	1.80	213.32195 o (mg/L)	328905.23076	1.79
12/15/2021 10:09:34	LCR 1	Mg (279.800 nm)	1.71	191.12592 o (mg/L)	221526.91059	1.71
12/15/2021 10:09:34	LCR 1	Mn (257.610 nm)	1.72	18.16789 (mg/L)	2512318.17888	1.72
12/15/2021 10:09:34	LCR 1	Mo (204.598 nm)	1.91	19.08230 (mg/L)	44994.66737	1.91
12/15/2021 10:09:34	LCR 1	Na (589.592 nm)	2.04	208.61629 o (mg/L)	1874430.79266	2.04
12/15/2021 10:09:34	LCR 1	Ni (221.648 nm)	1.74	18.19825 (mg/L)	16905.71039	1.74
12/15/2021 10:09:34	LCR 1	P (213.618 nm)	1.83	0.16221 (mg/L)	104.76822	1.78
12/15/2021 10:09:34	LCR 1	Pb (220.353 nm)	1.52	18.56173 (mg/L)	24704.48988	1.52
12/15/2021 10:09:34	LCR 1	S (181.972 nm)	> 100.00	0.00660 u (mg/L)	0.25337	> 100.00
12/15/2021 10:09:34	LCR 1	Sb (217.582 nm)	1.58	19.82242 (mg/L)	10938.65835	1.58
12/15/2021 10:09:34	LCR 1	Se (196.026 nm)	1.61	19.19778 (mg/L)	8877.91014	1.61
12/15/2021 10:09:34	LCR 1	Sn (189.925 nm)	1.74	18.69592 (mg/L)	7528.63604	1.73
12/15/2021 10:09:34	LCR 1	Sr (407.771 nm)	0.69	0.00802 (mg/L)	10073.45636	0.69
12/15/2021 10:09:34	LCR 1	Ti (337.280 nm)	1.73	19.31786 (mg/L)	526990.72747	1.73
12/15/2021 10:09:34	LCR 1	Tl (351.923 nm)	1.91	20.85413 (mg/L)	22444.78048	1.91
12/15/2021 10:09:34	LCR 1	V (311.837 nm)	1.90	19.78461 (mg/L)	807960.40084	1.90
12/15/2021 10:09:34	LCR 1	Zn (206.200 nm)	1.62	17.82074 (mg/L)	15106.87807	1.62

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 10:12:24	LCR 2	Ag (328.068 nm)	1.70	1.01188 (mg/L)	36763.31882	1.70
12/15/2021 10:12:24	LCR 2	Al (308.215 nm)	1.84	110.49738 (mg/L)	454451.70511	1.84
12/15/2021 10:12:24	LCR 2	As (193.696 nm)	1.65	10.47866 (mg/L)	2985.56954	1.65
12/15/2021 10:12:24	LCR 2	B (249.772 nm)	1.73	0.03916 (mg/L)	980.30527	1.62
12/15/2021 10:12:24	LCR 2	Ba (413.064 nm)	1.92	10.49157 (mg/L)	102881.16438	1.91
12/15/2021 10:12:24	LCR 2	Be (313.042 nm)	2.22	9.98561 o (mg/L)	15101258.32710	2.22
12/15/2021 10:12:24	LCR 2	Ca (373.690 nm)	2.11	104.22605 o (mg/L)	449340.20503	2.11
12/15/2021 10:12:24	LCR 2	Cd (228.802 nm)	2.05	10.78758 (mg/L)	211555.27737	2.05
12/15/2021 10:12:24	LCR 2	Co (230.786 nm)	1.84	10.43937 (mg/L)	66326.24860	1.84
12/15/2021 10:12:24	LCR 2	Cr (267.716 nm)	1.81	10.44012 (mg/L)	168774.02284	1.81
12/15/2021 10:12:24	LCR 2	Cu (327.395 nm)	2.05	11.23388 (mg/L)	298866.09093	2.05
12/15/2021 10:12:24	LCR 2	Fe (238.204 nm)	1.60	92.07793 (mg/L)	2225472.57934	1.60
12/15/2021 10:12:24	LCR 2	K (766.491 nm)	1.69	114.11506 (mg/L)	176111.49471	1.69
12/15/2021 10:12:24	LCR 2	Mg (279.800 nm)	1.86	104.71029 o (mg/L)	121369.23024	1.86
12/15/2021 10:12:24	LCR 2	Mn (257.610 nm)	1.78	10.32462 (mg/L)	1427731.20741	1.78
12/15/2021 10:12:24	LCR 2	Mo (204.598 nm)	1.95	10.62370 (mg/L)	25052.20925	1.95
12/15/2021 10:12:24	LCR 2	Na (589.592 nm)	1.70	113.49987 (mg/L)	1020436.16518	1.70
12/15/2021 10:12:24	LCR 2	Ni (221.648 nm)	1.76	10.31859 (mg/L)	9586.04785	1.76
12/15/2021 10:12:24	LCR 2	P (213.618 nm)	2.12	-0.35171 u (mg/L)	-217.73436	2.14
12/15/2021 10:12:24	LCR 2	Pb (220.353 nm)	1.79	10.36203 (mg/L)	13791.91332	1.79
12/15/2021 10:12:24	LCR 2	S (181.972 nm)	> 100.00	0.01078 u (mg/L)	0.41355	> 100.00
12/15/2021 10:12:24	LCR 2	Sb (217.582 nm)	1.66	10.81075 (mg/L)	5967.48959	1.66
12/15/2021 10:12:24	LCR 2	Se (196.026 nm)	1.52	10.51739 (mg/L)	4865.28328	1.51
12/15/2021 10:12:24	LCR 2	Sn (189.925 nm)	1.83	10.55638 (mg/L)	4252.32263	1.83
12/15/2021 10:12:24	LCR 2	Sr (407.771 nm)	0.73	0.00597 (mg/L)	7498.04417	0.73
12/15/2021 10:12:24	LCR 2	Ti (337.280 nm)	1.92	10.73150 (mg/L)	292762.97267	1.92
12/15/2021 10:12:24	LCR 2	Tl (351.923 nm)	1.98	11.02346 (mg/L)	11868.45189	1.98
12/15/2021 10:12:24	LCR 2	V (311.837 nm)	1.77	10.97731 (mg/L)	448293.67124	1.77
12/15/2021 10:12:24	LCR 2	Zn (206.200 nm)	1.81	10.19432 (mg/L)	8643.20935	1.81
12/15/2021 10:15:14	LCR 3	Ag (328.068 nm)	1.52	0.53977 (mg/L)	19612.24274	1.52
12/15/2021 10:15:14	LCR 3	Al (308.215 nm)	1.81	53.32979 (mg/L)	219535.83552	1.81
12/15/2021 10:15:14	LCR 3	As (193.696 nm)	1.50	5.14839 (mg/L)	1468.06623	1.49
12/15/2021 10:15:14	LCR 3	B (249.772 nm)	1.55	0.02052 (mg/L)	542.95498	1.38
12/15/2021 10:15:14	LCR 3	Ba (413.064 nm)	1.86	5.29591 (mg/L)	51958.37511	1.85
12/15/2021 10:15:14	LCR 3	Be (313.042 nm)	1.78	5.15554 (mg/L)	7796941.05187	1.78
12/15/2021 10:15:14	LCR 3	Ca (373.690 nm)	1.69	51.65062 (mg/L)	222707.27901	1.69
12/15/2021 10:15:14	LCR 3	Cd (228.802 nm)	1.87	5.31605 (mg/L)	104261.64046	1.87
12/15/2021 10:15:14	LCR 3	Co (230.786 nm)	1.52	5.25353 (mg/L)	33382.50611	1.52
12/15/2021 10:15:14	LCR 3	Cr (267.716 nm)	1.73	5.21618 (mg/L)	84331.81893	1.73
12/15/2021 10:15:14	LCR 3	Cu (327.395 nm)	1.50	5.40036 (mg/L)	143679.79096	1.50
12/15/2021 10:15:14	LCR 3	Fe (238.204 nm)	1.63	48.92157 (mg/L)	1182428.38192	1.63
12/15/2021 10:15:14	LCR 3	K (766.491 nm)	1.37	54.63904 (mg/L)	84509.35037	1.37
12/15/2021 10:15:14	LCR 3	Mg (279.800 nm)	1.73	51.95778 (mg/L)	60227.87861	1.73
12/15/2021 10:15:14	LCR 3	Mn (257.610 nm)	1.87	5.21389 (mg/L)	721005.91613	1.87
12/15/2021 10:15:14	LCR 3	Mo (204.598 nm)	1.81	5.26221 (mg/L)	12411.67272	1.81
12/15/2021 10:15:14	LCR 3	Na (589.592 nm)	1.14	55.05058 (mg/L)	495654.22670	1.14
12/15/2021 10:15:14	LCR 3	Ni (221.648 nm)	1.75	5.27653 (mg/L)	4902.33064	1.75
12/15/2021 10:15:14	LCR 3	P (213.618 nm)	6.50	0.04203 (mg/L)	29.35283	5.84

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 10:15:14	LCR 3	Pb (220.353 nm)	1.31	5.22834 (mg/L)	6959.74555	1.31
12/15/2021 10:15:14	LCR 3	S (181.972 nm)	> 100.00	0.00464 u (mg/L)	0.17808	> 100.00
12/15/2021 10:15:14	LCR 3	Sb (217.582 nm)	1.40	5.29567 (mg/L)	2925.17089	1.40
12/15/2021 10:15:14	LCR 3	Se (196.026 nm)	1.49	5.22294 (mg/L)	2417.85114	1.49
12/15/2021 10:15:14	LCR 3	Sn (189.925 nm)	1.86	5.30804 (mg/L)	2139.77466	1.86
12/15/2021 10:15:14	LCR 3	Sr (407.771 nm)	1.28	0.00385 (mg/L)	4833.17232	1.28
12/15/2021 10:15:14	LCR 3	Ti (337.280 nm)	1.73	5.33103 (mg/L)	145443.33515	1.73
12/15/2021 10:15:14	LCR 3	Tl (351.923 nm)	1.67	5.28294 (mg/L)	5692.51185	1.67
12/15/2021 10:15:14	LCR 3	V (311.837 nm)	1.58	5.41708 (mg/L)	221228.66440	1.58
12/15/2021 10:15:14	LCR 3	Zn (206.200 nm)	1.83	5.23385 (mg/L)	4439.02412	1.83
12/15/2021 10:18:04	LCR-Pb-Inhouse	Ag (328.068 nm)	> 100.00	0.00016 u (mg/L)	9.29879	> 100.00
12/15/2021 10:18:04	LCR-Pb-Inhouse	Al (308.215 nm)	41.22	-0.00229 u (mg/L)	381.01613	1.02
12/15/2021 10:18:04	LCR-Pb-Inhouse	As (193.696 nm)	47.42	0.01235 (mg/L)	5.85927	28.46
12/15/2021 10:18:04	LCR-Pb-Inhouse	B (249.772 nm)	1.73	92.98695 o (mg/L)	2180755.10667	1.73
12/15/2021 10:18:04	LCR-Pb-Inhouse	Ba (413.064 nm)	10.43	0.00216 (mg/L)	74.20545	2.97
12/15/2021 10:18:04	LCR-Pb-Inhouse	Be (313.042 nm)	13.29	0.00054 (mg/L)	1248.79289	8.68
12/15/2021 10:18:04	LCR-Pb-Inhouse	Ca (373.690 nm)	3.74	0.03768 (mg/L)	223.30596	2.72
12/15/2021 10:18:04	LCR-Pb-Inhouse	Cd (228.802 nm)	28.88	0.00070 (mg/L)	30.57617	12.99
12/15/2021 10:18:04	LCR-Pb-Inhouse	Co (230.786 nm)	35.12	0.00064 (mg/L)	12.80239	11.20
12/15/2021 10:18:04	LCR-Pb-Inhouse	Cr (267.716 nm)	8.86	0.00297 (mg/L)	63.09293	6.74
12/15/2021 10:18:04	LCR-Pb-Inhouse	Cu (327.395 nm)	96.50	0.00040 (mg/L)	27.50043	37.80
12/15/2021 10:18:04	LCR-Pb-Inhouse	Fe (238.204 nm)	6.38	0.01656 (mg/L)	445.35290	5.74
12/15/2021 10:18:04	LCR-Pb-Inhouse	K (766.491 nm)	28.67	0.09367 (mg/L)	501.15586	8.25
12/15/2021 10:18:04	LCR-Pb-Inhouse	Mg (279.800 nm)	40.93	0.00701 (mg/L)	15.76217	21.11
12/15/2021 10:18:04	LCR-Pb-Inhouse	Mn (257.610 nm)	7.64	0.00090 (mg/L)	140.91301	6.72
12/15/2021 10:18:04	LCR-Pb-Inhouse	Mo (204.598 nm)	2.96	0.00833 (mg/L)	24.83926	2.34
12/15/2021 10:18:04	LCR-Pb-Inhouse	Na (589.592 nm)	6.14	0.08585 (mg/L)	2158.16778	2.19
12/15/2021 10:18:04	LCR-Pb-Inhouse	Ni (221.648 nm)	56.81	0.00384 (mg/L)	4.35931	46.47
12/15/2021 10:18:04	LCR-Pb-Inhouse	P (213.618 nm)	1.45	94.63213 o (mg/L)	59387.93590	1.45
12/15/2021 10:18:04	LCR-Pb-Inhouse	Pb (220.353 nm)	1.77	211.69122 o (mg/L)	281730.88262	1.77
12/15/2021 10:18:04	LCR-Pb-Inhouse	S (181.972 nm)	1.26	93.22525 o (mg/L)	3576.88641	1.26
12/15/2021 10:18:04	LCR-Pb-Inhouse	Sb (217.582 nm)	8.28	0.03913 (mg/L)	25.46770	7.02
12/15/2021 10:18:04	LCR-Pb-Inhouse	Se (196.026 nm)	27.95	0.01754 (mg/L)	11.58491	19.56
12/15/2021 10:18:04	LCR-Pb-Inhouse	Sn (189.925 nm)	> 100.00	0.00225 u (mg/L)	4.09762	66.30
12/15/2021 10:18:04	LCR-Pb-Inhouse	Sr (407.771 nm)	2.07	8.09089 (mg/L)	10161893.39933	2.07
12/15/2021 10:18:04	LCR-Pb-Inhouse	Ti (337.280 nm)	2.78	0.00247 (mg/L)	85.21874	2.20
12/15/2021 10:18:04	LCR-Pb-Inhouse	Tl (351.923 nm)	15.75	-0.00722 u (mg/L)	1.10073	> 100.00
12/15/2021 10:18:04	LCR-Pb-Inhouse	V (311.837 nm)	13.37	0.00075 (mg/L)	39.93285	10.28
12/15/2021 10:18:04	LCR-Pb-Inhouse	Zn (206.200 nm)	36.95	0.00563 (mg/L)	7.91449	22.27
12/15/2021 10:46:29	MB-327123	Ag (328.068 nm)	17.01	0.00029 (mg/L)	14.03048	12.80
12/15/2021 10:46:29	MB-327123	Al (308.215 nm)	46.30	0.01830 (mg/L)	465.61369	7.48
12/15/2021 10:46:29	MB-327123	As (193.696 nm)	41.03	0.00202 (mg/L)	2.91709	8.09
12/15/2021 10:46:29	MB-327123	B (249.772 nm)	9.50	0.02226 (mg/L)	583.75021	8.49
12/15/2021 10:46:29	MB-327123	Ba (413.064 nm)	13.79	0.00661 (mg/L)	117.82424	7.57
12/15/2021 10:46:29	MB-327123	Be (313.042 nm)	> 100.00	0.00067 (mg/L)	1443.14079	78.10
12/15/2021 10:46:29	MB-327123	Ca (373.690 nm)	6.02	0.20759 (mg/L)	955.70807	5.64
12/15/2021 10:46:29	MB-327123	Cd (228.802 nm)	> 100.00	0.00039 u (mg/L)	24.42388	43.52
12/15/2021 10:46:29	MB-327123	Co (230.786 nm)	> 100.00	0.00034 u (mg/L)	10.86220	31.74

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 14:19:18	MB-327222	Sn (189.925 nm)	34.70	-0.00079 u (mg/L)	2.87511	3.83
12/15/2021 14:19:18	MB-327222	Sr (407.771 nm)	10.49	0.00014 (mg/L)	169.96103	10.49
12/15/2021 14:19:18	MB-327222	Ti (337.280 nm)	55.39	0.00036 (mg/L)	27.56038	19.52
12/15/2021 14:19:18	MB-327222	Tl (351.923 nm)	66.32	-0.00383 u (mg/L)	4.74566	57.58
12/15/2021 14:19:18	MB-327222	V (311.837 nm)	99.14	-0.00007 u (mg/L)	6.48571	41.86
12/15/2021 14:19:18	MB-327222	Zn (206.200 nm)	> 100.00	-0.00023 u (mg/L)	2.94814	29.27
12/15/2021 14:22:08	2112795-001B/10X	Ag (328.068 nm)	35.03	0.00030 (mg/L)	14.35153	26.56
12/15/2021 14:22:08	2112795-001B/10X	Al (308.215 nm)	1.64	39.24736 (mg/L)	161667.59059	1.63
12/15/2021 14:22:08	2112795-001B/10X	As (193.696 nm)	> 100.00	-0.00106 u (mg/L)	2.03906	48.79
12/15/2021 14:22:08	2112795-001B/10X	B (249.772 nm)	2.18	0.01288 (mg/L)	363.85687	1.81
12/15/2021 14:22:08	2112795-001B/10X	Ba (413.064 nm)	2.20	0.02695 (mg/L)	317.19008	1.83
12/15/2021 14:22:08	2112795-001B/10X	Be (313.042 nm)	6.90	0.00010 (mg/L)	578.86124	1.75
12/15/2021 14:22:08	2112795-001B/10X	Ca (373.690 nm)	1.38	5.50695 (mg/L)	23799.24929	1.37
12/15/2021 14:22:08	2112795-001B/10X	Cd (228.802 nm)	> 100.00	-0.00004 u (mg/L)	16.03042	16.39
12/15/2021 14:22:08	2112795-001B/10X	Co (230.786 nm)	34.46	0.00010 (mg/L)	9.32506	2.24
12/15/2021 14:22:08	2112795-001B/10X	Cr (267.716 nm)	2.86	0.00987 (mg/L)	174.68108	2.62
12/15/2021 14:22:08	2112795-001B/10X	Cu (327.395 nm)	1.65	0.26298 (mg/L)	7012.53566	1.65
12/15/2021 14:22:08	2112795-001B/10X	Fe (238.204 nm)	1.62	0.65279 (mg/L)	15822.37114	1.62
12/15/2021 14:22:08	2112795-001B/10X	K (766.491 nm)	1.51	4.09032 (mg/L)	6656.59395	1.43
12/15/2021 14:22:08	2112795-001B/10X	Mg (279.800 nm)	1.72	1.04524 (mg/L)	1219.08485	1.71
12/15/2021 14:22:08	2112795-001B/10X	Mn (257.610 nm)	1.71	0.03081 (mg/L)	4278.02121	1.70
12/15/2021 14:22:08	2112795-001B/10X	Mo (204.598 nm)	8.24	0.00429 (mg/L)	15.31471	5.44
12/15/2021 14:22:08	2112795-001B/10X	Na (589.592 nm)	1.42	70.79168 (mg/L)	636984.30326	1.42
12/15/2021 14:22:08	2112795-001B/10X	Ni (221.648 nm)	5.21	-0.01449 u (mg/L)	-12.67102	5.54
12/15/2021 14:22:08	2112795-001B/10X	P (213.618 nm)	1.59	3.76053 (mg/L)	2362.84049	1.58
12/15/2021 14:22:08	2112795-001B/10X	Pb (220.353 nm)	> 100.00	0.00047 u (mg/L)	2.22796	> 100.00
12/15/2021 14:22:08	2112795-001B/10X	S (181.972 nm)	1.41	15.23629 (mg/L)	584.58907	1.41
12/15/2021 14:22:08	2112795-001B/10X	Sb (217.582 nm)	1.56	1.39929 (mg/L)	775.78422	1.55
12/15/2021 14:22:08	2112795-001B/10X	Se (196.026 nm)	48.28	0.00390 (mg/L)	5.28023	16.49
12/15/2021 14:22:08	2112795-001B/10X	Sn (189.925 nm)	> 100.00	0.00279 u (mg/L)	4.31615	27.78
12/15/2021 14:22:08	2112795-001B/10X	Sr (407.771 nm)	1.83	0.02714 (mg/L)	34086.60649	1.83
12/15/2021 14:22:08	2112795-001B/10X	Ti (337.280 nm)	6.28	0.00403 (mg/L)	127.89101	5.41
12/15/2021 14:22:08	2112795-001B/10X	Tl (351.923 nm)	> 100.00	-0.00122 u (mg/L)	7.55252	33.02
12/15/2021 14:22:08	2112795-001B/10X	V (311.837 nm)	4.23	0.00162 (mg/L)	75.47781	3.71
12/15/2021 14:22:08	2112795-001B/10X	Zn (206.200 nm)	3.87	0.04997 (mg/L)	45.49738	3.60
12/15/2021 14:24:58	Cont Calib Verif	Ag (328.068 nm)	1.65	0.10107 (mg/L)	3675.25270	1.65
12/15/2021 14:24:58	Cont Calib Verif	Al (308.215 nm)	1.74	9.96913 (mg/L)	41356.07375	1.73
12/15/2021 14:24:58	Cont Calib Verif	As (193.696 nm)	1.68	0.96724 (mg/L)	277.71130	1.67
12/15/2021 14:24:58	Cont Calib Verif	B (249.772 nm)	2.02	1.00266 (mg/L)	23575.84640	2.01
12/15/2021 14:24:58	Cont Calib Verif	Ba (413.064 nm)	1.95	1.05811 (mg/L)	10423.63475	1.94
12/15/2021 14:24:58	Cont Calib Verif	Be (313.042 nm)	1.79	1.00580 (mg/L)	1521457.01938	1.79
12/15/2021 14:24:58	Cont Calib Verif	Ca (373.690 nm)	1.76	9.97674 (mg/L)	43066.83923	1.76
12/15/2021 14:24:58	Cont Calib Verif	Cd (228.802 nm)	1.92	1.02775 (mg/L)	20170.34836	1.92
12/15/2021 14:24:58	Cont Calib Verif	Co (230.786 nm)	1.89	1.04277 (mg/L)	6633.02925	1.89
12/15/2021 14:24:58	Cont Calib Verif	Cr (267.716 nm)	1.83	1.01535 (mg/L)	16427.69711	1.83
12/15/2021 14:24:58	Cont Calib Verif	Cu (327.395 nm)	2.04	1.00407 (mg/L)	26727.61716	2.04
12/15/2021 14:24:58	Cont Calib Verif	Fe (238.204 nm)	1.81	10.02495 (mg/L)	242337.80867	1.81
12/15/2021 14:24:58	Cont Calib Verif	K (766.491 nm)	1.50	9.98590 (mg/L)	15736.69920	1.46

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 14:24:58	Cont Calib Verif	Mg (279.800 nm)	1.70	9.99123 (mg/L)	11587.69030	1.70
12/15/2021 14:24:58	Cont Calib Verif	Mn (257.610 nm)	1.81	1.04007 (mg/L)	143840.40385	1.81
12/15/2021 14:24:58	Cont Calib Verif	Mo (204.598 nm)	2.15	1.01900 (mg/L)	2407.66616	2.15
12/15/2021 14:24:58	Cont Calib Verif	Na (589.592 nm)	1.56	10.20237 (mg/L)	92988.44662	1.54
12/15/2021 14:24:58	Cont Calib Verif	Ni (221.648 nm)	1.66	1.06334 (mg/L)	988.55855	1.66
12/15/2021 14:24:58	Cont Calib Verif	P (213.618 nm)	1.71	0.97921 (mg/L)	617.46631	1.70
12/15/2021 14:24:58	Cont Calib Verif	Pb (220.353 nm)	1.53	1.03120 (mg/L)	1373.97177	1.53
12/15/2021 14:24:58	Cont Calib Verif	S (181.972 nm)	2.33	0.98326 (mg/L)	37.72579	2.33
12/15/2021 14:24:58	Cont Calib Verif	Sb (217.582 nm)	1.75	1.02011 (mg/L)	566.61318	1.74
12/15/2021 14:24:58	Cont Calib Verif	Se (196.026 nm)	2.22	1.03240 (mg/L)	480.71983	2.20
12/15/2021 14:24:58	Cont Calib Verif	Sn (189.925 nm)	1.38	1.04976 (mg/L)	425.73930	1.37
12/15/2021 14:24:58	Cont Calib Verif	Sr (407.771 nm)	1.90	0.91534 (mg/L)	1149637.58570	1.90
12/15/2021 14:24:58	Cont Calib Verif	Ti (337.280 nm)	1.75	1.03831 (mg/L)	28341.90095	1.75
12/15/2021 14:24:58	Cont Calib Verif	Tl (351.923 nm)	1.82	0.97391 (mg/L)	1056.64645	1.80
12/15/2021 14:24:58	Cont Calib Verif	V (311.837 nm)	1.79	1.05006 (mg/L)	42890.76703	1.79
12/15/2021 14:24:58	Cont Calib Verif	Zn (206.200 nm)	1.76	1.06072 (mg/L)	902.14476	1.75
12/15/2021 14:27:47	Cont Calib Blank	Ag (328.068 nm)	34.59	0.00041 (mg/L)	18.46765	28.09
12/15/2021 14:27:47	Cont Calib Blank	Al (308.215 nm)	8.15	-0.01882 u (mg/L)	313.10281	2.01
12/15/2021 14:27:47	Cont Calib Blank	As (193.696 nm)	39.60	0.00224 (mg/L)	2.97921	8.47
12/15/2021 14:27:47	Cont Calib Blank	B (249.772 nm)	30.80	0.00469 (mg/L)	171.77851	19.72
12/15/2021 14:27:47	Cont Calib Blank	Ba (413.064 nm)	88.49	0.00099 (mg/L)	62.77722	13.67
12/15/2021 14:27:47	Cont Calib Blank	Be (313.042 nm)	23.65	0.00010 (mg/L)	580.90746	6.04
12/15/2021 14:27:47	Cont Calib Blank	Ca (373.690 nm)	70.30	0.00172 (mg/L)	68.28161	7.63
12/15/2021 14:27:47	Cont Calib Blank	Cd (228.802 nm)	> 100.00	-0.00003 u (mg/L)	16.14432	6.34
12/15/2021 14:27:47	Cont Calib Blank	Co (230.786 nm)	> 100.00	0.00000 u (mg/L)	8.70854	6.11
12/15/2021 14:27:47	Cont Calib Blank	Cr (267.716 nm)	89.42	0.00009 u (mg/L)	16.54707	7.61
12/15/2021 14:27:47	Cont Calib Blank	Cu (327.395 nm)	> 100.00	-0.00005 u (mg/L)	15.48455	14.60
12/15/2021 14:27:47	Cont Calib Blank	Fe (238.204 nm)	21.89	0.00183 (mg/L)	89.37646	10.82
12/15/2021 14:27:47	Cont Calib Blank	K (766.491 nm)	5.04	-0.09273 u (mg/L)	214.06362	3.36
12/15/2021 14:27:47	Cont Calib Blank	Mg (279.800 nm)	> 100.00	-0.00050 u (mg/L)	7.05588	10.63
12/15/2021 14:27:47	Cont Calib Blank	Mn (257.610 nm)	6.08	0.00008 (mg/L)	27.81224	2.38
12/15/2021 14:27:47	Cont Calib Blank	Mo (204.598 nm)	28.28	0.00286 (mg/L)	11.95177	15.95
12/15/2021 14:27:47	Cont Calib Blank	Na (589.592 nm)	6.59	-0.03884 u (mg/L)	1038.60023	2.21
12/15/2021 14:27:47	Cont Calib Blank	Ni (221.648 nm)	81.16	0.00086 (mg/L)	1.58991	40.65
12/15/2021 14:27:47	Cont Calib Blank	P (213.618 nm)	> 100.00	-0.00039 u (mg/L)	2.73578	14.64
12/15/2021 14:27:47	Cont Calib Blank	Pb (220.353 nm)	26.34	-0.00217 u (mg/L)	-1.28647	59.19
12/15/2021 14:27:47	Cont Calib Blank	S (181.972 nm)	> 100.00	0.00979 u (mg/L)	0.37566	> 100.00
12/15/2021 14:27:47	Cont Calib Blank	Sb (217.582 nm)	> 100.00	0.00124 u (mg/L)	4.56662	25.07
12/15/2021 14:27:47	Cont Calib Blank	Se (196.026 nm)	21.24	0.01103 (mg/L)	8.57554	12.63
12/15/2021 14:27:47	Cont Calib Blank	Sn (189.925 nm)	> 100.00	-0.00105 u (mg/L)	2.76837	25.30
12/15/2021 14:27:47	Cont Calib Blank	Sr (407.771 nm)	4.99	0.00016 (mg/L)	204.25538	4.99
12/15/2021 14:27:47	Cont Calib Blank	Ti (337.280 nm)	24.26	0.00033 (mg/L)	26.89273	8.16
12/15/2021 14:27:47	Cont Calib Blank	Tl (351.923 nm)	> 100.00	0.00003 u (mg/L)	8.89473	37.42
12/15/2021 14:27:47	Cont Calib Blank	V (311.837 nm)	> 100.00	-0.00001 u (mg/L)	8.64507	86.57
12/15/2021 14:27:47	Cont Calib Blank	Zn (206.200 nm)	> 100.00	-0.00082 u (mg/L)	2.44685	38.18
12/15/2021 14:30:37	2112908-001B/10X	Ag (328.068 nm)	> 100.00	0.00006 u (mg/L)	5.72330	> 100.00
12/15/2021 14:30:37	2112908-001B/10X	Al (308.215 nm)	5.03	0.00762 (mg/L)	421.75519	0.37
12/15/2021 14:30:37	2112908-001B/10X	As (193.696 nm)	> 100.00	-0.00204 u (mg/L)	1.76215	60.13

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 14:30:37	2112908-001B/10X	B (249.772 nm)	1.15	0.01798 (mg/L)	483.42597	1.00
12/15/2021 14:30:37	2112908-001B/10X	Ba (413.064 nm)	8.60	0.00451 (mg/L)	97.24550	3.91
12/15/2021 14:30:37	2112908-001B/10X	Be (313.042 nm)	4.73	0.00012 (mg/L)	616.21849	1.41
12/15/2021 14:30:37	2112908-001B/10X	Ca (373.690 nm)	1.39	0.91910 (mg/L)	4022.74583	1.37
12/15/2021 14:30:37	2112908-001B/10X	Cd (228.802 nm)	> 100.00	-0.00002 u (mg/L)	16.46867	21.52
12/15/2021 14:30:37	2112908-001B/10X	Co (230.786 nm)	80.79	-0.00046 u (mg/L)	5.82924	40.07
12/15/2021 14:30:37	2112908-001B/10X	Cr (267.716 nm)	75.47	0.00021 (mg/L)	18.55123	13.88
12/15/2021 14:30:37	2112908-001B/10X	Cu (327.395 nm)	> 100.00	-0.00005 u (mg/L)	15.47894	27.88
12/15/2021 14:30:37	2112908-001B/10X	Fe (238.204 nm)	0.57	0.01026 (mg/L)	293.17387	0.48
12/15/2021 14:30:37	2112908-001B/10X	K (766.491 nm)	1.77	2.11332 (mg/L)	3611.71219	1.59
12/15/2021 14:30:37	2112908-001B/10X	Mg (279.800 nm)	0.84	0.29292 (mg/L)	347.13796	0.82
12/15/2021 14:30:37	2112908-001B/10X	Mn (257.610 nm)	2.19	0.00100 (mg/L)	154.81389	1.95
12/15/2021 14:30:37	2112908-001B/10X	Mo (204.598 nm)	48.10	0.00084 (mg/L)	7.18759	13.24
12/15/2021 14:30:37	2112908-001B/10X	Na (589.592 nm)	1.44	47.20260 (mg/L)	425191.85086	1.44
12/15/2021 14:30:37	2112908-001B/10X	Ni (221.648 nm)	94.28	0.00057 u (mg/L)	1.31901	37.56
12/15/2021 14:30:37	2112908-001B/10X	P (213.618 nm)	1.87	2.00080 (mg/L)	1258.54630	1.87
12/15/2021 14:30:37	2112908-001B/10X	Pb (220.353 nm)	> 100.00	-0.00072 u (mg/L)	0.64419	> 100.00
12/15/2021 14:30:37	2112908-001B/10X	S (181.972 nm)	1.18	16.79706 (mg/L)	644.47313	1.18
12/15/2021 14:30:37	2112908-001B/10X	Sb (217.582 nm)	> 100.00	0.00062 u (mg/L)	4.22284	36.90
12/15/2021 14:30:37	2112908-001B/10X	Se (196.026 nm)	6.59	0.00246 (mg/L)	4.61357	1.62
12/15/2021 14:30:37	2112908-001B/10X	Sn (189.925 nm)	> 100.00	0.00184 u (mg/L)	3.93503	40.73
12/15/2021 14:30:37	2112908-001B/10X	Sr (407.771 nm)	2.17	0.01648 (mg/L)	20693.01767	2.17
12/15/2021 14:30:37	2112908-001B/10X	Ti (337.280 nm)	> 100.00	0.00015 u (mg/L)	21.94118	27.54
12/15/2021 14:30:37	2112908-001B/10X	Tl (351.923 nm)	66.61	0.00218 (mg/L)	11.20866	13.92
12/15/2021 14:30:37	2112908-001B/10X	V (311.837 nm)	> 100.00	0.00004 u (mg/L)	10.65843	61.51
12/15/2021 14:30:37	2112908-001B/10X	Zn (206.200 nm)	7.53	0.01157 (mg/L)	12.94770	5.70
12/15/2021 14:35:49	2112908-002B/10X	Ag (328.068 nm)	47.22	0.00023 (mg/L)	11.83111	33.38
12/15/2021 14:35:49	2112908-002B/10X	Al (308.215 nm)	2.54	0.02058 (mg/L)	474.97530	0.45
12/15/2021 14:35:49	2112908-002B/10X	As (193.696 nm)	> 100.00	-0.00130 u (mg/L)	1.97229	70.54
12/15/2021 14:35:49	2112908-002B/10X	B (249.772 nm)	2.49	0.01876 (mg/L)	501.84211	2.19
12/15/2021 14:35:49	2112908-002B/10X	Ba (413.064 nm)	15.44	0.00337 (mg/L)	86.08365	5.92
12/15/2021 14:35:49	2112908-002B/10X	Be (313.042 nm)	14.99	0.00007 (mg/L)	531.51717	2.79
12/15/2021 14:35:49	2112908-002B/10X	Ca (373.690 nm)	1.38	0.89128 (mg/L)	3902.81911	1.36
12/15/2021 14:35:49	2112908-002B/10X	Cd (228.802 nm)	96.33	-0.00008 u (mg/L)	15.21123	10.20
12/15/2021 14:35:49	2112908-002B/10X	Co (230.786 nm)	99.81	-0.00042 u (mg/L)	6.04159	44.25
12/15/2021 14:35:49	2112908-002B/10X	Cr (267.716 nm)	27.38	0.00038 (mg/L)	21.36105	7.97
12/15/2021 14:35:49	2112908-002B/10X	Cu (327.395 nm)	> 100.00	-0.00009 u (mg/L)	14.20184	36.86
12/15/2021 14:35:49	2112908-002B/10X	Fe (238.204 nm)	0.82	0.01246 (mg/L)	346.29017	0.71
12/15/2021 14:35:49	2112908-002B/10X	K (766.491 nm)	2.34	1.86263 (mg/L)	3225.62408	2.08
12/15/2021 14:35:49	2112908-002B/10X	Mg (279.800 nm)	2.79	0.27788 (mg/L)	329.70409	2.72
12/15/2021 14:35:49	2112908-002B/10X	Mn (257.610 nm)	0.79	0.00107 (mg/L)	164.37451	0.71
12/15/2021 14:35:49	2112908-002B/10X	Mo (204.598 nm)	51.87	0.00109 (mg/L)	7.78533	17.17
12/15/2021 14:35:49	2112908-002B/10X	Na (589.592 nm)	1.26	46.78201 (mg/L)	421415.58397	1.26
12/15/2021 14:35:49	2112908-002B/10X	Ni (221.648 nm)	55.35	-0.00117 u (mg/L)	-0.29523	> 100.00
12/15/2021 14:35:49	2112908-002B/10X	P (213.618 nm)	1.46	1.93827 (mg/L)	1219.30694	1.46
12/15/2021 14:35:49	2112908-002B/10X	Pb (220.353 nm)	> 100.00	-0.00109 u (mg/L)	0.15357	> 100.00
12/15/2021 14:35:49	2112908-002B/10X	S (181.972 nm)	1.23	16.02113 (mg/L)	614.70203	1.23
12/15/2021 14:35:49	2112908-002B/10X	Sb (217.582 nm)	45.11	0.00400 (mg/L)	6.08968	16.35

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 14:35:49	2112908-002B/10X	Se (196.026 nm)	28.56	0.00640 (mg/L)	6.43524	13.13
12/15/2021 14:35:49	2112908-002B/10X	Sn (189.925 nm)	23.14	-0.00162 u (mg/L)	2.54139	5.93
12/15/2021 14:35:49	2112908-002B/10X	Sr (407.771 nm)	1.70	0.01616 (mg/L)	20294.12068	1.70
12/15/2021 14:35:49	2112908-002B/10X	Ti (337.280 nm)	> 100.00	0.00012 u (mg/L)	21.06332	21.40
12/15/2021 14:35:49	2112908-002B/10X	Tl (351.923 nm)	> 100.00	-0.00130 u (mg/L)	7.46310	31.20
12/15/2021 14:35:49	2112908-002B/10X	V (311.837 nm)	> 100.00	-0.00002 u (mg/L)	8.23286	65.21
12/15/2021 14:35:49	2112908-002B/10X	Zn (206.200 nm)	12.50	0.00968 (mg/L)	11.34756	9.04
12/15/2021 14:38:39	2112908-003B/10X	Ag (328.068 nm)	25.82	0.00039 (mg/L)	17.66642	20.75
12/15/2021 14:38:39	2112908-003B/10X	Al (308.215 nm)	8.90	0.01466 (mg/L)	450.66696	1.19
12/15/2021 14:38:39	2112908-003B/10X	As (193.696 nm)	> 100.00	-0.00072 u (mg/L)	2.13670	23.51
12/15/2021 14:38:39	2112908-003B/10X	B (249.772 nm)	2.72	0.01575 (mg/L)	431.22184	2.33
12/15/2021 14:38:39	2112908-003B/10X	Ba (413.064 nm)	4.99	0.00571 (mg/L)	109.03272	2.56
12/15/2021 14:38:39	2112908-003B/10X	Be (313.042 nm)	1.89	0.00007 (mg/L)	530.76869	0.35
12/15/2021 14:38:39	2112908-003B/10X	Ca (373.690 nm)	1.47	1.01404 (mg/L)	4432.03233	1.45
12/15/2021 14:38:39	2112908-003B/10X	Cd (228.802 nm)	> 100.00	0.00000 u (mg/L)	16.81754	11.30
12/15/2021 14:38:39	2112908-003B/10X	Co (230.786 nm)	> 100.00	-0.00002 u (mg/L)	8.60532	16.15
12/15/2021 14:38:39	2112908-003B/10X	Cr (267.716 nm)	27.38	0.00036 (mg/L)	20.87860	7.53
12/15/2021 14:38:39	2112908-003B/10X	Cu (327.395 nm)	> 100.00	0.00007 u (mg/L)	18.58036	32.19
12/15/2021 14:38:39	2112908-003B/10X	Fe (238.204 nm)	2.58	0.01084 (mg/L)	307.16463	2.20
12/15/2021 14:38:39	2112908-003B/10X	K (766.491 nm)	1.19	1.53917 (mg/L)	2727.43631	1.04
12/15/2021 14:38:39	2112908-003B/10X	Mg (279.800 nm)	1.65	0.32333 (mg/L)	382.37809	1.62
12/15/2021 14:38:39	2112908-003B/10X	Mn (257.610 nm)	1.99	0.00097 (mg/L)	151.29114	1.77
12/15/2021 14:38:39	2112908-003B/10X	Mo (204.598 nm)	51.82	0.00033 (mg/L)	5.97680	6.66
12/15/2021 14:38:39	2112908-003B/10X	Na (589.592 nm)	1.25	53.15314 (mg/L)	478618.23515	1.25
12/15/2021 14:38:39	2112908-003B/10X	Ni (221.648 nm)	> 100.00	0.00129 u (mg/L)	1.99600	70.30
12/15/2021 14:38:39	2112908-003B/10X	P (213.618 nm)	1.34	1.89836 (mg/L)	1194.26262	1.34
12/15/2021 14:38:39	2112908-003B/10X	Pb (220.353 nm)	48.86	-0.00045 u (mg/L)	1.00026	29.52
12/15/2021 14:38:39	2112908-003B/10X	S (181.972 nm)	1.31	17.74864 (mg/L)	680.98367	1.31
12/15/2021 14:38:39	2112908-003B/10X	Sb (217.582 nm)	> 100.00	0.00131 u (mg/L)	4.60454	17.71
12/15/2021 14:38:39	2112908-003B/10X	Se (196.026 nm)	18.88	0.00267 (mg/L)	4.71035	4.95
12/15/2021 14:38:39	2112908-003B/10X	Sn (189.925 nm)	> 100.00	0.00029 u (mg/L)	3.31108	32.43
12/15/2021 14:38:39	2112908-003B/10X	Sr (407.771 nm)	1.81	0.01861 (mg/L)	23371.44874	1.81
12/15/2021 14:38:39	2112908-003B/10X	Ti (337.280 nm)	> 100.00	0.00005 u (mg/L)	19.21490	18.82
12/15/2021 14:38:39	2112908-003B/10X	Tl (351.923 nm)	> 100.00	-0.00111 u (mg/L)	7.67510	15.99
12/15/2021 14:38:39	2112908-003B/10X	V (311.837 nm)	> 100.00	-0.00004 u (mg/L)	7.53648	37.23
12/15/2021 14:38:39	2112908-003B/10X	Zn (206.200 nm)	5.08	0.00865 (mg/L)	10.47139	3.56
12/15/2021 14:43:01	MB-327403	Ag (328.068 nm)	> 100.00	0.00007 u (mg/L)	5.98118	98.04
12/15/2021 14:43:01	MB-327403	Al (308.215 nm)	11.51	0.02219 (mg/L)	481.62138	2.18
12/15/2021 14:43:01	MB-327403	As (193.696 nm)	39.72	0.00284 (mg/L)	3.14963	10.18
12/15/2021 14:43:01	MB-327403	B (249.772 nm)	3.87	0.00352 (mg/L)	144.39971	2.22
12/15/2021 14:43:01	MB-327403	Ba (413.064 nm)	44.99	0.00074 (mg/L)	60.35791	5.43
12/15/2021 14:43:01	MB-327403	Be (313.042 nm)	5.91	0.00007 (mg/L)	536.47356	1.15
12/15/2021 14:43:01	MB-327403	Ca (373.690 nm)	1.98	0.04520 (mg/L)	255.69512	1.51
12/15/2021 14:43:01	MB-327403	Cd (228.802 nm)	49.48	-0.00016 u (mg/L)	13.65261	11.48
12/15/2021 14:43:01	MB-327403	Co (230.786 nm)	> 100.00	-0.00005 u (mg/L)	8.39486	12.04
12/15/2021 14:43:01	MB-327403	Cr (267.716 nm)	> 100.00	0.00011 u (mg/L)	16.96721	12.85
12/15/2021 14:43:01	MB-327403	Cu (327.395 nm)	46.31	-0.00027 u (mg/L)	9.57174	34.61
12/15/2021 14:43:01	MB-327403	Fe (238.204 nm)	4.04	0.00694 (mg/L)	213.01116	3.18

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 14:43:01	MB-327403	K (766.491 nm)	41.45	0.62285 (mg/L)	1316.16233	30.21
12/15/2021 14:43:01	MB-327403	Mg (279.800 nm)	43.01	0.00321 (mg/L)	11.34866	14.09
12/15/2021 14:43:01	MB-327403	Mn (257.610 nm)	0.43	0.00105 (mg/L)	162.48611	0.39
12/15/2021 14:43:01	MB-327403	Mo (204.598 nm)	> 100.00	0.00007 u (mg/L)	5.36357	35.30
12/15/2021 14:43:01	MB-327403	Na (589.592 nm)	1.38	479.22089 o (mg/L)	4304030.92089	1.38
12/15/2021 14:43:01	MB-327403	Ni (221.648 nm)	> 100.00	0.00061 u (mg/L)	1.35551	94.87
12/15/2021 14:43:01	MB-327403	P (213.618 nm)	67.27	0.00436 (mg/L)	5.71088	32.20
12/15/2021 14:43:01	MB-327403	Pb (220.353 nm)	> 100.00	-0.00021 u (mg/L)	1.32678	73.61
12/15/2021 14:43:01	MB-327403	S (181.972 nm)	> 100.00	0.00362 u (mg/L)	0.13893	> 100.00
12/15/2021 14:43:01	MB-327403	Sb (217.582 nm)	32.56	-0.00610 u (mg/L)	0.51697	> 100.00
12/15/2021 14:43:01	MB-327403	Se (196.026 nm)	37.05	0.00631 (mg/L)	6.39482	16.90
12/15/2021 14:43:01	MB-327403	Sn (189.925 nm)	> 100.00	-0.00056 u (mg/L)	2.96722	50.10
12/15/2021 14:43:01	MB-327403	Sr (407.771 nm)	7.58	0.00018 (mg/L)	222.77857	7.58
12/15/2021 14:43:01	MB-327403	Ti (337.280 nm)	36.77	0.00021 (mg/L)	23.53307	8.88
12/15/2021 14:43:01	MB-327403	Tl (351.923 nm)	> 100.00	0.00187 u (mg/L)	10.87755	19.18
12/15/2021 14:43:01	MB-327403	V (311.837 nm)	> 100.00	0.00000 u (mg/L)	9.16138	41.32
12/15/2021 14:43:01	MB-327403	Zn (206.200 nm)	> 100.00	0.00003 u (mg/L)	3.16563	22.01
12/15/2021 14:45:51	LCS-327403	Ag (328.068 nm)	1.58	0.09759 (mg/L)	3548.80701	1.58
12/15/2021 14:45:51	LCS-327403	Al (308.215 nm)	1.53	9.87188 (mg/L)	40956.45698	1.52
12/15/2021 14:45:51	LCS-327403	As (193.696 nm)	1.47	0.94897 (mg/L)	272.51066	1.46
12/15/2021 14:45:51	LCS-327403	B (249.772 nm)	1.52	0.96779 (mg/L)	22758.05783	1.51
12/15/2021 14:45:51	LCS-327403	Ba (413.064 nm)	1.65	0.96137 (mg/L)	9475.51502	1.64
12/15/2021 14:45:51	LCS-327403	Be (313.042 nm)	1.54	0.94724 (mg/L)	1432908.84156	1.54
12/15/2021 14:45:51	LCS-327403	Ca (373.690 nm)	1.54	9.66875 (mg/L)	41739.19562	1.53
12/15/2021 14:45:51	LCS-327403	Cd (228.802 nm)	1.44	1.00693 (mg/L)	19762.06896	1.44
12/15/2021 14:45:51	LCS-327403	Co (230.786 nm)	1.71	0.96038 (mg/L)	6109.64804	1.71
12/15/2021 14:45:51	LCS-327403	Cr (267.716 nm)	1.53	0.94815 (mg/L)	15341.52560	1.53
12/15/2021 14:45:51	LCS-327403	Cu (327.395 nm)	1.57	1.00659 (mg/L)	26794.40001	1.56
12/15/2021 14:45:51	LCS-327403	Fe (238.204 nm)	1.51	9.19919 (mg/L)	222380.12863	1.51
12/15/2021 14:45:51	LCS-327403	K (766.491 nm)	3.20	13.69060 (mg/L)	21442.50092	3.14
12/15/2021 14:45:51	LCS-327403	Mg (279.800 nm)	1.42	8.84064 (mg/L)	10254.13840	1.42
12/15/2021 14:45:51	LCS-327403	Mn (257.610 nm)	1.49	0.96210 (mg/L)	133059.10914	1.49
12/15/2021 14:45:51	LCS-327403	Mo (204.598 nm)	1.51	0.96448 (mg/L)	2279.11516	1.51
12/15/2021 14:45:51	LCS-327403	Na (589.592 nm)	1.23	501.24962 o (mg/L)	4501813.95469	1.23
12/15/2021 14:45:51	LCS-327403	Ni (221.648 nm)	1.68	0.96971 (mg/L)	901.58709	1.68
12/15/2021 14:45:51	LCS-327403	P (213.618 nm)	0.68	0.96222 (mg/L)	606.80632	0.67
12/15/2021 14:45:51	LCS-327403	Pb (220.353 nm)	1.24	0.95175 (mg/L)	1268.24249	1.24
12/15/2021 14:45:51	LCS-327403	S (181.972 nm)	2.29	0.95357 (mg/L)	36.58687	2.29
12/15/2021 14:45:51	LCS-327403	Sb (217.582 nm)	1.70	0.96545 (mg/L)	536.46266	1.68
12/15/2021 14:45:51	LCS-327403	Se (196.026 nm)	1.91	1.00812 (mg/L)	469.49239	1.90
12/15/2021 14:45:51	LCS-327403	Sn (189.925 nm)	1.78	0.96910 (mg/L)	393.27205	1.76
12/15/2021 14:45:51	LCS-327403	Sr (407.771 nm)	1.45	0.90277 (mg/L)	1133846.99138	1.45
12/15/2021 14:45:51	LCS-327403	Ti (337.280 nm)	1.52	0.96879 (mg/L)	26445.60416	1.52
12/15/2021 14:45:51	LCS-327403	Tl (351.923 nm)	2.67	0.94721 (mg/L)	1027.91913	2.65
12/15/2021 14:45:51	LCS-327403	V (311.837 nm)	1.44	1.00717 (mg/L)	41139.46102	1.44
12/15/2021 14:45:51	LCS-327403	Zn (206.200 nm)	1.92	0.98776 (mg/L)	840.31043	1.91
12/15/2021 14:48:41	2112H10-002C	Ag (328.068 nm)	55.23	0.00013 (mg/L)	8.28945	32.13
12/15/2021 14:48:41	2112H10-002C	Al (308.215 nm)	1.60	0.11862 (mg/L)	877.85937	0.89

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 14:48:41	2112H10-002C	As (193.696 nm)	30.15	-0.00246 u (mg/L)	1.64284	12.83
12/15/2021 14:48:41	2112H10-002C	B (249.772 nm)	7.04	0.01189 (mg/L)	340.58899	5.76
12/15/2021 14:48:41	2112H10-002C	Ba (413.064 nm)	1.44	0.03223 (mg/L)	369.00296	1.23
12/15/2021 14:48:41	2112H10-002C	Be (313.042 nm)	15.05	0.00012 (mg/L)	617.54054	4.51
12/15/2021 14:48:41	2112H10-002C	Ca (373.690 nm)	1.61	6.08372 (mg/L)	26285.49163	1.61
12/15/2021 14:48:41	2112H10-002C	Cd (228.802 nm)	98.42	0.00008 u (mg/L)	18.41822	8.53
12/15/2021 14:48:41	2112H10-002C	Co (230.786 nm)	83.46	0.00032 (mg/L)	10.75248	15.78
12/15/2021 14:48:41	2112H10-002C	Cr (267.716 nm)	43.25	0.00018 (mg/L)	18.05661	6.99
12/15/2021 14:48:41	2112H10-002C	Cu (327.395 nm)	> 100.00	0.00022 u (mg/L)	22.66458	33.46
12/15/2021 14:48:41	2112H10-002C	Fe (238.204 nm)	0.53	0.02791 (mg/L)	719.84029	0.50
12/15/2021 14:48:41	2112H10-002C	K (766.491 nm)	1.97	1.92166 (mg/L)	3316.53014	1.76
12/15/2021 14:48:41	2112H10-002C	Mg (279.800 nm)	1.56	1.97030 (mg/L)	2291.25578	1.56
12/15/2021 14:48:41	2112H10-002C	Mn (257.610 nm)	1.61	0.07941 (mg/L)	10998.05041	1.61
12/15/2021 14:48:41	2112H10-002C	Mo (204.598 nm)	> 100.00	0.00042 u (mg/L)	6.19608	41.05
12/15/2021 14:48:41	2112H10-002C	Na (589.592 nm)	1.38	221.84891 o (mg/L)	1993238.65902	1.38
12/15/2021 14:48:41	2112H10-002C	Ni (221.648 nm)	60.23	0.00055 (mg/L)	1.30688	23.66
12/15/2021 14:48:41	2112H10-002C	P (213.618 nm)	80.42	-0.00328 u (mg/L)	0.91667	> 100.00
12/15/2021 14:48:41	2112H10-002C	Pb (220.353 nm)	77.89	-0.00101 u (mg/L)	0.25974	> 100.00
12/15/2021 14:48:41	2112H10-002C	S (181.972 nm)	> 100.00	0.02883 (mg/L)	1.10623	> 100.00
12/15/2021 14:48:41	2112H10-002C	Sb (217.582 nm)	> 100.00	0.00159 u (mg/L)	4.76105	43.69
12/15/2021 14:48:41	2112H10-002C	Se (196.026 nm)	37.56	0.01086 (mg/L)	8.49627	22.19
12/15/2021 14:48:41	2112H10-002C	Sn (189.925 nm)	> 100.00	0.00176 u (mg/L)	3.90285	20.72
12/15/2021 14:48:41	2112H10-002C	Sr (407.771 nm)	1.43	0.01199 (mg/L)	15057.61041	1.43
12/15/2021 14:48:41	2112H10-002C	Ti (337.280 nm)	5.17	0.00406 (mg/L)	128.63369	4.45
12/15/2021 14:48:41	2112H10-002C	Tl (351.923 nm)	> 100.00	0.00076 u (mg/L)	9.67920	25.98
12/15/2021 14:48:41	2112H10-002C	V (311.837 nm)	> 100.00	-0.00002 u (mg/L)	8.30684	93.14
12/15/2021 14:48:41	2112H10-002C	Zn (206.200 nm)	25.56	0.00556 (mg/L)	7.85645	15.33
12/15/2021 14:51:52	2112H10-002CMS	Ag (328.068 nm)	1.74	0.10077 (mg/L)	3664.10528	1.73
12/15/2021 14:51:52	2112H10-002CMS	Al (308.215 nm)	1.64	10.31757 (mg/L)	42787.87815	1.63
12/15/2021 14:51:52	2112H10-002CMS	As (193.696 nm)	1.62	0.97907 (mg/L)	281.07811	1.61
12/15/2021 14:51:52	2112H10-002CMS	B (249.772 nm)	1.62	1.00217 (mg/L)	23564.43887	1.61
12/15/2021 14:51:52	2112H10-002CMS	Ba (413.064 nm)	1.35	1.04915 (mg/L)	10335.80374	1.35
12/15/2021 14:51:52	2112H10-002CMS	Be (313.042 nm)	1.67	0.99594 (mg/L)	1506543.33645	1.67
12/15/2021 14:51:52	2112H10-002CMS	Ca (373.690 nm)	1.60	16.20345 (mg/L)	69907.83878	1.60
12/15/2021 14:51:52	2112H10-002CMS	Cd (228.802 nm)	1.81	1.03440 (mg/L)	20300.76008	1.81
12/15/2021 14:51:52	2112H10-002CMS	Co (230.786 nm)	1.60	1.01734 (mg/L)	6471.50414	1.60
12/15/2021 14:51:52	2112H10-002CMS	Cr (267.716 nm)	1.56	0.99871 (mg/L)	16158.81076	1.56
12/15/2021 14:51:52	2112H10-002CMS	Cu (327.395 nm)	1.87	1.04040 (mg/L)	27693.88464	1.87
12/15/2021 14:51:52	2112H10-002CMS	Fe (238.204 nm)	1.56	9.72492 (mg/L)	235086.38378	1.56
12/15/2021 14:51:52	2112H10-002CMS	K (766.491 nm)	1.52	13.18436 (mg/L)	20662.81769	1.49
12/15/2021 14:51:52	2112H10-002CMS	Mg (279.800 nm)	1.50	11.46759 (mg/L)	13298.82326	1.50
12/15/2021 14:51:52	2112H10-002CMS	Mn (257.610 nm)	1.55	1.08950 (mg/L)	150675.55449	1.55
12/15/2021 14:51:52	2112H10-002CMS	Mo (204.598 nm)	1.79	1.01632 (mg/L)	2401.35078	1.79
12/15/2021 14:51:52	2112H10-002CMS	Na (589.592 nm)	1.36	236.20984 o (mg/L)	2122177.06263	1.36
12/15/2021 14:51:52	2112H10-002CMS	Ni (221.648 nm)	1.34	1.02609 (mg/L)	953.95983	1.34
12/15/2021 14:51:52	2112H10-002CMS	P (213.618 nm)	1.55	0.97793 (mg/L)	616.66338	1.54
12/15/2021 14:51:52	2112H10-002CMS	Pb (220.353 nm)	1.15	1.00394 (mg/L)	1337.69885	1.15
12/15/2021 14:51:52	2112H10-002CMS	S (181.972 nm)	0.73	1.01166 (mg/L)	38.81573	0.73

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 14:51:52	2112H10-002CMS	Sb (217.582 nm)	2.13	1.00704 (mg/L)	559.40259	2.11
12/15/2021 14:51:52	2112H10-002CMS	Se (196.026 nm)	2.41	1.04843 (mg/L)	488.12696	2.39
12/15/2021 14:51:52	2112H10-002CMS	Sn (189.925 nm)	1.53	1.01721 (mg/L)	412.63847	1.52
12/15/2021 14:51:52	2112H10-002CMS	Sr (407.771 nm)	1.74	0.95566 (mg/L)	1200276.96201	1.74
12/15/2021 14:51:52	2112H10-002CMS	Ti (337.280 nm)	1.64	1.02864 (mg/L)	28078.11113	1.64
12/15/2021 14:51:52	2112H10-002CMS	Tl (351.923 nm)	1.70	0.98192 (mg/L)	1065.26912	1.69
12/15/2021 14:51:52	2112H10-002CMS	V (311.837 nm)	1.52	1.05551 (mg/L)	43113.30065	1.52
12/15/2021 14:51:52	2112H10-002CMS	Zn (206.200 nm)	1.63	1.04426 (mg/L)	888.19375	1.62
12/15/2021 14:54:41	2112H10-002CMSD	Ag (328.068 nm)	1.63	0.10063 (mg/L)	3659.10296	1.63
12/15/2021 14:54:41	2112H10-002CMSD	Al (308.215 nm)	1.59	10.31555 (mg/L)	42779.59843	1.57
12/15/2021 14:54:41	2112H10-002CMSD	As (193.696 nm)	0.75	0.97842 (mg/L)	280.89442	0.75
12/15/2021 14:54:41	2112H10-002CMSD	B (249.772 nm)	1.60	1.00290 (mg/L)	23581.52292	1.59
12/15/2021 14:54:41	2112H10-002CMSD	Ba (413.064 nm)	1.37	1.04918 (mg/L)	10336.09887	1.36
12/15/2021 14:54:41	2112H10-002CMSD	Be (313.042 nm)	1.91	1.00314 (mg/L)	1517436.69128	1.91
12/15/2021 14:54:41	2112H10-002CMSD	Ca (373.690 nm)	1.60	16.15595 (mg/L)	69703.07303	1.60
12/15/2021 14:54:41	2112H10-002CMSD	Cd (228.802 nm)	1.38	1.03754 (mg/L)	20362.35016	1.38
12/15/2021 14:54:41	2112H10-002CMSD	Co (230.786 nm)	1.66	1.01600 (mg/L)	6463.01322	1.66
12/15/2021 14:54:41	2112H10-002CMSD	Cr (267.716 nm)	1.53	0.99785 (mg/L)	16144.84277	1.53
12/15/2021 14:54:41	2112H10-002CMSD	Cu (327.395 nm)	1.54	1.04530 (mg/L)	27824.23803	1.53
12/15/2021 14:54:41	2112H10-002CMSD	Fe (238.204 nm)	1.59	9.73578 (mg/L)	235348.94752	1.59
12/15/2021 14:54:41	2112H10-002CMSD	K (766.491 nm)	1.49	13.21236 (mg/L)	20705.93765	1.46
12/15/2021 14:54:41	2112H10-002CMSD	Mg (279.800 nm)	1.54	11.46669 (mg/L)	13297.78456	1.54
12/15/2021 14:54:41	2112H10-002CMSD	Mn (257.610 nm)	1.58	1.08952 (mg/L)	150678.76128	1.58
12/15/2021 14:54:41	2112H10-002CMSD	Mo (204.598 nm)	1.87	1.01604 (mg/L)	2400.68496	1.87
12/15/2021 14:54:41	2112H10-002CMSD	Na (589.592 nm)	1.22	235.13480 o (mg/L)	2112524.91152	1.22
12/15/2021 14:54:41	2112H10-002CMSD	Ni (221.648 nm)	1.28	1.02968 (mg/L)	957.29237	1.28
12/15/2021 14:54:41	2112H10-002CMSD	P (213.618 nm)	1.70	0.99059 (mg/L)	624.60890	1.69
12/15/2021 14:54:41	2112H10-002CMSD	Pb (220.353 nm)	1.66	1.00740 (mg/L)	1342.30210	1.66
12/15/2021 14:54:41	2112H10-002CMSD	S (181.972 nm)	1.18	1.00423 (mg/L)	38.53058	1.18
12/15/2021 14:54:41	2112H10-002CMSD	Sb (217.582 nm)	2.19	1.01162 (mg/L)	561.93169	2.17
12/15/2021 14:54:41	2112H10-002CMSD	Se (196.026 nm)	1.03	1.05660 (mg/L)	491.90323	1.02
12/15/2021 14:54:41	2112H10-002CMSD	Sn (189.925 nm)	1.67	1.01612 (mg/L)	412.20047	1.66
12/15/2021 14:54:41	2112H10-002CMSD	Sr (407.771 nm)	2.01	0.95904 (mg/L)	1204528.33800	2.01
12/15/2021 14:54:41	2112H10-002CMSD	Ti (337.280 nm)	1.62	1.02572 (mg/L)	27998.50642	1.62
12/15/2021 14:54:41	2112H10-002CMSD	Tl (351.923 nm)	2.25	0.98791 (mg/L)	1071.70931	2.23
12/15/2021 14:54:41	2112H10-002CMSD	V (311.837 nm)	1.53	1.05733 (mg/L)	43187.90917	1.53
12/15/2021 14:54:41	2112H10-002CMSD	Zn (206.200 nm)	1.61	1.04747 (mg/L)	890.91451	1.60
12/15/2021 14:57:31	2112H10-002CDL	Ag (328.068 nm)	1.10	0.02056 (mg/L)	750.34370	1.09
12/15/2021 14:57:31	2112H10-002CDL	Al (308.215 nm)	1.37	2.09382 (mg/L)	8994.45672	1.31
12/15/2021 14:57:31	2112H10-002CDL	As (193.696 nm)	3.97	0.20299 (mg/L)	60.13115	3.81
12/15/2021 14:57:31	2112H10-002CDL	B (249.772 nm)	1.02	0.20807 (mg/L)	4941.38889	1.01
12/15/2021 14:57:31	2112H10-002CDL	Ba (413.064 nm)	1.04	0.22546 (mg/L)	2262.81374	1.02
12/15/2021 14:57:31	2112H10-002CDL	Be (313.042 nm)	1.55	0.20917 (mg/L)	316751.17661	1.55
12/15/2021 14:57:31	2112H10-002CDL	Ca (373.690 nm)	1.29	3.35020 (mg/L)	14502.32895	1.29
12/15/2021 14:57:31	2112H10-002CDL	Cd (228.802 nm)	1.80	0.21323 (mg/L)	4198.19269	1.79
12/15/2021 14:57:31	2112H10-002CDL	Co (230.786 nm)	0.96	0.21534 (mg/L)	1376.69227	0.96
12/15/2021 14:57:31	2112H10-002CDL	Cr (267.716 nm)	1.40	0.20980 (mg/L)	3406.44460	1.39
12/15/2021 14:57:31	2112H10-002CDL	Cu (327.395 nm)	1.42	0.21258 (mg/L)	5672.00045	1.41

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 14:57:31	2112H10-002CDL	Fe (238.204 nm)	1.39	2.08106 (mg/L)	50342.13221	1.39
12/15/2021 14:57:31	2112H10-002CDL	K (766.491 nm)	0.35	2.70197 (mg/L)	4518.33411	0.32
12/15/2021 14:57:31	2112H10-002CDL	Mg (279.800 nm)	1.27	2.46186 (mg/L)	2860.98767	1.27
12/15/2021 14:57:31	2112H10-002CDL	Mn (257.610 nm)	1.27	0.23066 (mg/L)	31912.97331	1.27
12/15/2021 14:57:31	2112H10-002CDL	Mo (204.598 nm)	1.74	0.21086 (mg/L)	502.34683	1.72
12/15/2021 14:57:31	2112H10-002CDL	Na (589.592 nm)	1.21	49.38965 (mg/L)	444828.01682	1.20
12/15/2021 14:57:31	2112H10-002CDL	Ni (221.648 nm)	1.36	0.21766 (mg/L)	202.98124	1.35
12/15/2021 14:57:31	2112H10-002CDL	P (213.618 nm)	1.02	0.18982 (mg/L)	122.09819	0.99
12/15/2021 14:57:31	2112H10-002CDL	Pb (220.353 nm)	2.75	0.21186 (mg/L)	283.55275	2.74
12/15/2021 14:57:31	2112H10-002CDL	S (181.972 nm)	15.55	0.23050 (mg/L)	8.84396	15.55
12/15/2021 14:57:31	2112H10-002CDL	Sb (217.582 nm)	5.26	0.21069 (mg/L)	120.10410	5.09
12/15/2021 14:57:31	2112H10-002CDL	Se (196.026 nm)	1.98	0.22402 (mg/L)	107.03503	1.91
12/15/2021 14:57:31	2112H10-002CDL	Sn (189.925 nm)	5.36	0.21674 (mg/L)	90.43591	5.17
12/15/2021 14:57:31	2112H10-002CDL	Sr (407.771 nm)	2.15	0.19937 (mg/L)	250406.86051	2.15
12/15/2021 14:57:31	2112H10-002CDL	Ti (337.280 nm)	1.39	0.21431 (mg/L)	5863.90080	1.39
12/15/2021 14:57:31	2112H10-002CDL	Tl (351.923 nm)	3.61	0.19491 (mg/L)	218.56377	3.46
12/15/2021 14:57:31	2112H10-002CDL	V (311.837 nm)	1.31	0.21593 (mg/L)	8827.37534	1.31
12/15/2021 14:57:31	2112H10-002CDL	Zn (206.200 nm)	1.99	0.22538 (mg/L)	194.16265	1.95
12/15/2021 15:01:21	2112H10-002CPDS	Ag (328.068 nm)	1.60	0.10185 (mg/L)	3703.64610	1.60
12/15/2021 15:01:21	2112H10-002CPDS	Al (308.215 nm)	1.53	10.25615 (mg/L)	42535.50524	1.52
12/15/2021 15:01:21	2112H10-002CPDS	As (193.696 nm)	2.01	0.98403 (mg/L)	282.48997	1.99
12/15/2021 15:01:21	2112H10-002CPDS	B (249.772 nm)	1.60	5.04542 (mg/L)	118385.12636	1.60
12/15/2021 15:01:21	2112H10-002CPDS	Ba (413.064 nm)	1.51	1.05407 (mg/L)	10384.05534	1.50
12/15/2021 15:01:21	2112H10-002CPDS	Be (313.042 nm)	2.01	1.00829 (mg/L)	1525221.08536	2.01
12/15/2021 15:01:21	2112H10-002CPDS	Ca (373.690 nm)	1.57	13.14293 (mg/L)	56715.09612	1.57
12/15/2021 15:01:21	2112H10-002CPDS	Cd (228.802 nm)	1.68	1.03472 (mg/L)	20307.12609	1.68
12/15/2021 15:01:21	2112H10-002CPDS	Co (230.786 nm)	1.62	1.03407 (mg/L)	6577.79830	1.62
12/15/2021 15:01:21	2112H10-002CPDS	Cr (267.716 nm)	1.60	1.00982 (mg/L)	16338.31290	1.60
12/15/2021 15:01:21	2112H10-002CPDS	Cu (327.395 nm)	1.49	1.04280 (mg/L)	27757.74167	1.49
12/15/2021 15:01:21	2112H10-002CPDS	Fe (238.204 nm)	1.59	9.94375 (mg/L)	240375.28293	1.59
12/15/2021 15:01:21	2112H10-002CPDS	K (766.491 nm)	1.30	11.77867 (mg/L)	18497.83455	1.27
12/15/2021 15:01:21	2112H10-002CPDS	Mg (279.800 nm)	1.56	10.72319 (mg/L)	12436.05296	1.56
12/15/2021 15:01:21	2112H10-002CPDS	Mn (257.610 nm)	1.50	1.07331 (mg/L)	148436.97366	1.50
12/15/2021 15:01:21	2112H10-002CPDS	Mo (204.598 nm)	1.65	1.01456 (mg/L)	2397.18288	1.65
12/15/2021 15:01:21	2112H10-002CPDS	Na (589.592 nm)	1.16	123.66031 (mg/L)	1111660.78090	1.16
12/15/2021 15:01:21	2112H10-002CPDS	Ni (221.648 nm)	1.59	1.04961 (mg/L)	975.80753	1.59
12/15/2021 15:01:21	2112H10-002CPDS	P (213.618 nm)	1.39	10.05744 (mg/L)	6314.36978	1.39
12/15/2021 15:01:21	2112H10-002CPDS	Pb (220.353 nm)	1.60	1.01885 (mg/L)	1357.53774	1.59
12/15/2021 15:01:21	2112H10-002CPDS	S (181.972 nm)	1.54	5.03691 (mg/L)	193.25742	1.54
12/15/2021 15:01:21	2112H10-002CPDS	Sb (217.582 nm)	1.09	1.00947 (mg/L)	560.74081	1.08
12/15/2021 15:01:21	2112H10-002CPDS	Se (196.026 nm)	2.04	1.04479 (mg/L)	486.44555	2.03
12/15/2021 15:01:21	2112H10-002CPDS	Sn (189.925 nm)	1.59	1.02299 (mg/L)	414.96587	1.58
12/15/2021 15:01:21	2112H10-002CPDS	Sr (407.771 nm)	1.96	4.49889 (mg/L)	5650459.76673	1.96
12/15/2021 15:01:21	2112H10-002CPDS	Ti (337.280 nm)	1.52	1.02731 (mg/L)	28042.01142	1.52
12/15/2021 15:01:21	2112H10-002CPDS	Tl (351.923 nm)	1.78	0.98347 (mg/L)	1066.93276	1.76
12/15/2021 15:01:21	2112H10-002CPDS	V (311.837 nm)	1.48	1.06834 (mg/L)	43637.42100	1.47
12/15/2021 15:01:21	2112H10-002CPDS	Zn (206.200 nm)	1.60	1.05551 (mg/L)	897.72695	1.59
12/15/2021 15:04:11	Cont Calib Verif	Ag (328.068 nm)	1.47	0.10185 (mg/L)	3703.61048	1.47

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 15:04:11	Cont Calib Verif	Al (308.215 nm)	1.52	10.05640 (mg/L)	41714.68571	1.50
12/15/2021 15:04:11	Cont Calib Verif	As (193.696 nm)	1.33	0.97785 (mg/L)	280.73244	1.32
12/15/2021 15:04:11	Cont Calib Verif	B (249.772 nm)	1.32	1.02371 (mg/L)	24069.46033	1.31
12/15/2021 15:04:11	Cont Calib Verif	Ba (413.064 nm)	1.51	1.06432 (mg/L)	10484.51342	1.51
12/15/2021 15:04:11	Cont Calib Verif	Be (313.042 nm)	1.54	1.01654 (mg/L)	1537698.78432	1.54
12/15/2021 15:04:11	Cont Calib Verif	Ca (373.690 nm)	1.49	10.07377 (mg/L)	43485.11360	1.48
12/15/2021 15:04:11	Cont Calib Verif	Cd (228.802 nm)	1.63	1.03387 (mg/L)	20290.39212	1.62
12/15/2021 15:04:11	Cont Calib Verif	Co (230.786 nm)	1.54	1.04750 (mg/L)	6663.10283	1.54
12/15/2021 15:04:11	Cont Calib Verif	Cr (267.716 nm)	1.48	1.02364 (mg/L)	16561.73241	1.48
12/15/2021 15:04:11	Cont Calib Verif	Cu (327.395 nm)	1.74	1.01616 (mg/L)	27049.21191	1.74
12/15/2021 15:04:11	Cont Calib Verif	Fe (238.204 nm)	1.56	10.08802 (mg/L)	243862.00746	1.56
12/15/2021 15:04:11	Cont Calib Verif	K (766.491 nm)	1.19	10.53673 (mg/L)	16585.05727	1.16
12/15/2021 15:04:11	Cont Calib Verif	Mg (279.800 nm)	1.53	10.04293 (mg/L)	11647.61541	1.53
12/15/2021 15:04:11	Cont Calib Verif	Mn (257.610 nm)	1.50	1.04831 (mg/L)	144980.44714	1.50
12/15/2021 15:04:11	Cont Calib Verif	Mo (204.598 nm)	1.81	1.02895 (mg/L)	2431.10586	1.81
12/15/2021 15:04:11	Cont Calib Verif	Na (589.592 nm)	1.14	10.62995 (mg/L)	96827.42966	1.13
12/15/2021 15:04:11	Cont Calib Verif	Ni (221.648 nm)	1.53	1.07088 (mg/L)	995.56326	1.53
12/15/2021 15:04:11	Cont Calib Verif	P (213.618 nm)	1.58	0.98134 (mg/L)	618.80501	1.58
12/15/2021 15:04:11	Cont Calib Verif	Pb (220.353 nm)	1.44	1.03991 (mg/L)	1385.57456	1.44
12/15/2021 15:04:11	Cont Calib Verif	S (181.972 nm)	0.95	0.98523 (mg/L)	37.80168	0.95
12/15/2021 15:04:11	Cont Calib Verif	Sb (217.582 nm)	1.40	1.03696 (mg/L)	575.90514	1.39
12/15/2021 15:04:11	Cont Calib Verif	Se (196.026 nm)	1.83	1.04380 (mg/L)	485.98813	1.82
12/15/2021 15:04:11	Cont Calib Verif	Sn (189.925 nm)	1.23	1.05297 (mg/L)	427.03086	1.22
12/15/2021 15:04:11	Cont Calib Verif	Sr (407.771 nm)	1.56	0.93946 (mg/L)	1179929.62658	1.56
12/15/2021 15:04:11	Cont Calib Verif	Ti (337.280 nm)	1.50	1.04612 (mg/L)	28554.99207	1.50
12/15/2021 15:04:11	Cont Calib Verif	Tl (351.923 nm)	1.95	0.99598 (mg/L)	1080.39225	1.94
12/15/2021 15:04:11	Cont Calib Verif	V (311.837 nm)	1.46	1.06059 (mg/L)	43321.06222	1.46
12/15/2021 15:04:11	Cont Calib Verif	Zn (206.200 nm)	1.54	1.06473 (mg/L)	905.54507	1.53
12/15/2021 15:07:00	Cont Calib Blank	Ag (328.068 nm)	54.40	0.00049 (mg/L)	21.36041	45.57
12/15/2021 15:07:00	Cont Calib Blank	Al (308.215 nm)	5.35	0.00720 (mg/L)	420.02054	0.38
12/15/2021 15:07:00	Cont Calib Blank	As (193.696 nm)	93.87	0.00255 u (mg/L)	3.06941	22.24
12/15/2021 15:07:00	Cont Calib Blank	B (249.772 nm)	20.50	0.00735 (mg/L)	234.29442	15.09
12/15/2021 15:07:00	Cont Calib Blank	Ba (413.064 nm)	62.43	0.00055 (mg/L)	58.44979	5.74
12/15/2021 15:07:00	Cont Calib Blank	Be (313.042 nm)	10.30	0.00012 (mg/L)	607.09213	2.96
12/15/2021 15:07:00	Cont Calib Blank	Ca (373.690 nm)	> 100.00	-0.00003 u (mg/L)	60.74427	1.96
12/15/2021 15:07:00	Cont Calib Blank	Cd (228.802 nm)	> 100.00	0.00001 u (mg/L)	17.08545	18.37
12/15/2021 15:07:00	Cont Calib Blank	Co (230.786 nm)	> 100.00	-0.00017 u (mg/L)	7.61657	21.41
12/15/2021 15:07:00	Cont Calib Blank	Cr (267.716 nm)	26.84	0.00033 (mg/L)	20.54679	7.06
12/15/2021 15:07:00	Cont Calib Blank	Cu (327.395 nm)	10.39	-0.00048 u (mg/L)	3.90572	34.11
12/15/2021 15:07:00	Cont Calib Blank	Fe (238.204 nm)	15.11	0.00174 (mg/L)	87.27167	7.28
12/15/2021 15:07:00	Cont Calib Blank	K (766.491 nm)	27.93	0.09761 (mg/L)	507.22204	8.28
12/15/2021 15:07:00	Cont Calib Blank	Mg (279.800 nm)	> 100.00	0.00028 u (mg/L)	7.95098	32.08
12/15/2021 15:07:00	Cont Calib Blank	Mn (257.610 nm)	19.43	0.00007 (mg/L)	26.40833	6.97
12/15/2021 15:07:00	Cont Calib Blank	Mo (204.598 nm)	17.28	0.00315 (mg/L)	12.62516	10.15
12/15/2021 15:07:00	Cont Calib Blank	Na (589.592 nm)	7.57	0.09976 (mg/L)	2282.99257	2.97
12/15/2021 15:07:00	Cont Calib Blank	Ni (221.648 nm)	> 100.00	-0.00020 u (mg/L)	0.60528	90.96
12/15/2021 15:07:00	Cont Calib Blank	P (213.618 nm)	> 100.00	-0.00112 u (mg/L)	2.27457	59.54
12/15/2021 15:07:00	Cont Calib Blank	Pb (220.353 nm)	> 100.00	0.00073 u (mg/L)	2.57911	59.68

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 15:07:00	Cont Calib Blank	S (181.972 nm)	> 100.00	0.02637 u (mg/L)	1.01159	> 100.00
12/15/2021 15:07:00	Cont Calib Blank	Sb (217.582 nm)	> 100.00	0.00374 u (mg/L)	5.94605	47.39
12/15/2021 15:07:00	Cont Calib Blank	Se (196.026 nm)	53.02	0.00705 (mg/L)	6.73733	25.66
12/15/2021 15:07:00	Cont Calib Blank	Sn (189.925 nm)	> 100.00	-0.00069 u (mg/L)	2.91441	12.20
12/15/2021 15:07:00	Cont Calib Blank	Sr (407.771 nm)	17.11	0.00019 (mg/L)	237.71344	17.11
12/15/2021 15:07:00	Cont Calib Blank	Ti (337.280 nm)	6.13	0.00040 (mg/L)	28.86897	2.34
12/15/2021 15:07:00	Cont Calib Blank	Tl (351.923 nm)	> 100.00	-0.00240 u (mg/L)	6.28276	67.75
12/15/2021 15:07:00	Cont Calib Blank	V (311.837 nm)	29.63	-0.00016 u (mg/L)	2.73112	70.43
12/15/2021 15:07:00	Cont Calib Blank	Zn (206.200 nm)	42.81	-0.00064 u (mg/L)	2.60456	8.87
12/15/2021 15:09:50	2112F77-027A	Ag (328.068 nm)	51.52	-0.00008 u (mg/L)	0.53561	> 100.00
12/15/2021 15:09:50	2112F77-027A	Al (308.215 nm)	1.63	1.90606 (mg/L)	8222.91899	1.56
12/15/2021 15:09:50	2112F77-027A	As (193.696 nm)	> 100.00	0.00323 u (mg/L)	3.26150	42.30
12/15/2021 15:09:50	2112F77-027A	B (249.772 nm)	1.03	0.00948 (mg/L)	284.24680	0.81
12/15/2021 15:09:50	2112F77-027A	Ba (413.064 nm)	2.04	0.01439 (mg/L)	194.08184	1.48
12/15/2021 15:09:50	2112F77-027A	Be (313.042 nm)	7.64	0.00008 (mg/L)	550.74858	1.64
12/15/2021 15:09:50	2112F77-027A	Ca (373.690 nm)	1.74	6.85870 (mg/L)	29626.13860	1.74
12/15/2021 15:09:50	2112F77-027A	Cd (228.802 nm)	> 100.00	0.00001 u (mg/L)	16.95847	29.36
12/15/2021 15:09:50	2112F77-027A	Co (230.786 nm)	64.03	0.00030 (mg/L)	10.64539	11.58
12/15/2021 15:09:50	2112F77-027A	Cr (267.716 nm)	13.10	0.00087 (mg/L)	29.14397	6.29
12/15/2021 15:09:50	2112F77-027A	Cu (327.395 nm)	> 100.00	0.00002 u (mg/L)	17.30395	14.32
12/15/2021 15:09:50	2112F77-027A	Fe (238.204 nm)	3.23	0.00556 (mg/L)	179.61741	2.42
12/15/2021 15:09:50	2112F77-027A	K (766.491 nm)	11.23	2.08778 (mg/L)	3572.37742	10.11
12/15/2021 15:09:50	2112F77-027A	Mg (279.800 nm)	27.39	0.00480 (mg/L)	13.19946	11.55
12/15/2021 15:09:50	2112F77-027A	Mn (257.610 nm)	23.33	0.00020 (mg/L)	44.88778	14.52
12/15/2021 15:09:50	2112F77-027A	Mo (204.598 nm)	13.46	0.00266 (mg/L)	11.47938	7.35
12/15/2021 15:09:50	2112F77-027A	Na (589.592 nm)	1.54	404.03553 o (mg/L)	3628985.62306	1.53
12/15/2021 15:09:50	2112F77-027A	Ni (221.648 nm)	10.08	-0.00834 u (mg/L)	-6.95751	11.23
12/15/2021 15:09:50	2112F77-027A	P (213.618 nm)	> 100.00	0.00075 u (mg/L)	3.44693	47.08
12/15/2021 15:09:50	2112F77-027A	Pb (220.353 nm)	> 100.00	-0.00146 u (mg/L)	-0.34096	> 100.00
12/15/2021 15:09:50	2112F77-027A	S (181.972 nm)	2.93	1.37553 (mg/L)	52.77654	2.93
12/15/2021 15:09:50	2112F77-027A	Sb (217.582 nm)	> 100.00	-0.00047 u (mg/L)	3.62475	61.07
12/15/2021 15:09:50	2112F77-027A	Se (196.026 nm)	22.93	0.00879 (mg/L)	7.54078	12.36
12/15/2021 15:09:50	2112F77-027A	Sn (189.925 nm)	9.42	0.00289 (mg/L)	4.35557	2.51
12/15/2021 15:09:50	2112F77-027A	Sr (407.771 nm)	1.85	0.02508 (mg/L)	31503.59483	1.85
12/15/2021 15:09:50	2112F77-027A	Ti (337.280 nm)	70.07	0.00035 (mg/L)	27.33943	24.33
12/15/2021 15:09:50	2112F77-027A	Tl (351.923 nm)	> 100.00	-0.00119 u (mg/L)	7.58202	37.74
12/15/2021 15:09:50	2112F77-027A	V (311.837 nm)	1.75	0.02018 (mg/L)	833.48194	1.73
12/15/2021 15:09:50	2112F77-027A	Zn (206.200 nm)	> 100.00	0.00074 u (mg/L)	3.76737	58.89
12/15/2021 15:12:40	2112F77-027ADUP	Ag (328.068 nm)	55.24	0.00026 (mg/L)	12.77913	40.25
12/15/2021 15:12:40	2112F77-027ADUP	Al (308.215 nm)	1.56	0.32440 (mg/L)	1723.47406	1.20
12/15/2021 15:12:40	2112F77-027ADUP	As (193.696 nm)	> 100.00	0.00401 (mg/L)	3.48238	34.17
12/15/2021 15:12:40	2112F77-027ADUP	B (249.772 nm)	1.59	0.00848 (mg/L)	260.60451	1.21
12/15/2021 15:12:40	2112F77-027ADUP	Ba (413.064 nm)	3.62	0.01874 (mg/L)	236.70390	2.81
12/15/2021 15:12:40	2112F77-027ADUP	Be (313.042 nm)	1.00	0.00008 (mg/L)	547.56271	0.21
12/15/2021 15:12:40	2112F77-027ADUP	Ca (373.690 nm)	1.19	13.74660 (mg/L)	59317.29013	1.19
12/15/2021 15:12:40	2112F77-027ADUP	Cd (228.802 nm)	> 100.00	0.00004 u (mg/L)	17.57180	20.02
12/15/2021 15:12:40	2112F77-027ADUP	Co (230.786 nm)	51.45	0.00031 (mg/L)	10.71292	9.57
12/15/2021 15:12:40	2112F77-027ADUP	Cr (267.716 nm)	14.56	0.00095 (mg/L)	30.42548	7.32

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 15:35:23	2112F22-001B	P (213.618 nm)	2.18	0.94445 (mg/L)	595.65192	2.17
12/15/2021 15:35:23	2112F22-001B	Pb (220.353 nm)	> 100.00	-0.00123 u (mg/L)	-0.03366	> 100.00
12/15/2021 15:35:23	2112F22-001B	S (181.972 nm)	1.76	21.24256 (mg/L)	815.03925	1.76
12/15/2021 15:35:23	2112F22-001B	Sb (217.582 nm)	72.42	-0.00326 u (mg/L)	2.08336	62.54
12/15/2021 15:35:23	2112F22-001B	Se (196.026 nm)	40.94	0.00613 (mg/L)	6.31231	18.39
12/15/2021 15:35:23	2112F22-001B	Sn (189.925 nm)	> 100.00	0.00414 u (mg/L)	4.86053	56.08
12/15/2021 15:35:23	2112F22-001B	Sr (407.771 nm)	1.54	0.00535 (mg/L)	6720.06877	1.54
12/15/2021 15:35:23	2112F22-001B	Ti (337.280 nm)	7.41	0.00162 (mg/L)	62.05980	5.28
12/15/2021 15:35:23	2112F22-001B	Tl (351.923 nm)	44.69	-0.00142 u (mg/L)	7.33755	9.31
12/15/2021 15:35:23	2112F22-001B	V (311.837 nm)	24.25	0.00035 (mg/L)	23.34343	14.67
12/15/2021 15:35:23	2112F22-001B	Zn (206.200 nm)	2.59	8.74547 (mg/L)	7415.25592	2.59
12/15/2021 15:38:13	Cont Calib Verif	Ag (328.068 nm)	1.32	0.10112 (mg/L)	3677.13598	1.32
12/15/2021 15:38:13	Cont Calib Verif	Al (308.215 nm)	1.76	9.96690 (mg/L)	41346.91156	1.74
12/15/2021 15:38:13	Cont Calib Verif	As (193.696 nm)	1.74	0.97125 (mg/L)	278.85239	1.73
12/15/2021 15:38:13	Cont Calib Verif	B (249.772 nm)	1.97	0.99932 (mg/L)	23497.39027	1.97
12/15/2021 15:38:13	Cont Calib Verif	Ba (413.064 nm)	1.68	1.05987 (mg/L)	10440.84712	1.68
12/15/2021 15:38:13	Cont Calib Verif	Be (313.042 nm)	2.16	1.01025 (mg/L)	1528186.42941	2.16
12/15/2021 15:38:13	Cont Calib Verif	Ca (373.690 nm)	1.82	10.02731 (mg/L)	43284.82046	1.82
12/15/2021 15:38:13	Cont Calib Verif	Cd (228.802 nm)	1.97	1.02702 (mg/L)	20156.14899	1.97
12/15/2021 15:38:13	Cont Calib Verif	Co (230.786 nm)	1.82	1.04677 (mg/L)	6658.48393	1.81
12/15/2021 15:38:13	Cont Calib Verif	Cr (267.716 nm)	1.89	1.01559 (mg/L)	16431.55398	1.89
12/15/2021 15:38:13	Cont Calib Verif	Cu (327.395 nm)	1.79	1.01816 (mg/L)	27102.30862	1.79
12/15/2021 15:38:13	Cont Calib Verif	Fe (238.204 nm)	1.79	9.99959 (mg/L)	241724.88261	1.79
12/15/2021 15:38:13	Cont Calib Verif	K (766.491 nm)	0.93	10.62457 (mg/L)	16720.34526	0.91
12/15/2021 15:38:13	Cont Calib Verif	Mg (279.800 nm)	1.75	9.97701 (mg/L)	11571.21724	1.75
12/15/2021 15:38:13	Cont Calib Verif	Mn (257.610 nm)	1.83	1.03603 (mg/L)	143282.04115	1.83
12/15/2021 15:38:13	Cont Calib Verif	Mo (204.598 nm)	2.10	1.01935 (mg/L)	2408.49300	2.09
12/15/2021 15:38:13	Cont Calib Verif	Na (589.592 nm)	1.14	10.76124 (mg/L)	98006.17306	1.12
12/15/2021 15:38:13	Cont Calib Verif	Ni (221.648 nm)	2.00	1.06673 (mg/L)	991.71554	2.00
12/15/2021 15:38:13	Cont Calib Verif	P (213.618 nm)	1.14	0.98208 (mg/L)	619.26802	1.13
12/15/2021 15:38:13	Cont Calib Verif	Pb (220.353 nm)	1.96	1.03170 (mg/L)	1374.63662	1.96
12/15/2021 15:38:13	Cont Calib Verif	S (181.972 nm)	4.77	1.00597 (mg/L)	38.59711	4.77
12/15/2021 15:38:13	Cont Calib Verif	Sb (217.582 nm)	1.51	1.01665 (mg/L)	564.70238	1.50
12/15/2021 15:38:13	Cont Calib Verif	Se (196.026 nm)	2.09	1.02660 (mg/L)	478.03461	2.07
12/15/2021 15:38:13	Cont Calib Verif	Sn (189.925 nm)	1.74	1.03306 (mg/L)	419.01649	1.73
12/15/2021 15:38:13	Cont Calib Verif	Sr (407.771 nm)	1.88	0.92860 (mg/L)	1166296.67975	1.88
12/15/2021 15:38:13	Cont Calib Verif	Ti (337.280 nm)	1.76	1.03689 (mg/L)	28303.10833	1.76
12/15/2021 15:38:13	Cont Calib Verif	Tl (351.923 nm)	14.46	0.80040 Q (mg/L)	869.97820 Q	14.31
12/15/2021 15:38:13	Cont Calib Verif	V (311.837 nm)	1.73	1.05047 (mg/L)	42907.76614	1.73
12/15/2021 15:38:13	Cont Calib Verif	Zn (206.200 nm)	1.66	1.06092 (mg/L)	902.31699	1.65
12/15/2021 15:41:02	Cont Calib Blank	Ag (328.068 nm)	39.45	0.00017 (mg/L)	9.73939	25.41
12/15/2021 15:41:02	Cont Calib Blank	Al (308.215 nm)	20.42	-0.00690 u (mg/L)	362.06484	1.60
12/15/2021 15:41:02	Cont Calib Blank	As (193.696 nm)	> 100.00	0.00231 u (mg/L)	2.99967	43.68
12/15/2021 15:41:02	Cont Calib Blank	B (249.772 nm)	42.74	0.00309 (mg/L)	134.34561	23.07
12/15/2021 15:41:02	Cont Calib Blank	Ba (413.064 nm)	26.12	0.00091 (mg/L)	62.00466	3.76
12/15/2021 15:41:02	Cont Calib Blank	Be (313.042 nm)	11.05	0.00018 (mg/L)	709.54598	4.32
12/15/2021 15:41:02	Cont Calib Blank	Ca (373.690 nm)	79.46	0.00122 (mg/L)	66.13910	6.34
12/15/2021 15:41:02	Cont Calib Blank	Cd (228.802 nm)	68.39	-0.00021 u (mg/L)	12.63915	22.63

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 15:41:02	Cont Calib Blank	Co (230.786 nm)	> 100.00	-0.00019 u (mg/L)	7.52596	38.17
12/15/2021 15:41:02	Cont Calib Blank	Cr (267.716 nm)	23.42	0.00036 (mg/L)	20.99080	6.53
12/15/2021 15:41:02	Cont Calib Blank	Cu (327.395 nm)	71.57	-0.00028 u (mg/L)	9.18123	58.82
12/15/2021 15:41:02	Cont Calib Blank	Fe (238.204 nm)	24.90	0.00192 (mg/L)	91.66192	12.62
12/15/2021 15:41:02	Cont Calib Blank	K (766.491 nm)	25.67	0.15929 (mg/L)	602.21590	10.46
12/15/2021 15:41:02	Cont Calib Blank	Mg (279.800 nm)	> 100.00	0.00004 u (mg/L)	7.67723	35.20
12/15/2021 15:41:02	Cont Calib Blank	Mn (257.610 nm)	24.57	0.00008 (mg/L)	28.28646	9.86
12/15/2021 15:41:02	Cont Calib Blank	Mo (204.598 nm)	44.10	0.00240 (mg/L)	10.87827	22.98
12/15/2021 15:41:02	Cont Calib Blank	Na (589.592 nm)	7.99	0.22871 (mg/L)	3440.78659	4.77
12/15/2021 15:41:02	Cont Calib Blank	Ni (221.648 nm)	48.15	0.00158 (mg/L)	2.26107	31.25
12/15/2021 15:41:02	Cont Calib Blank	P (213.618 nm)	68.13	0.00308 (mg/L)	4.91234	26.83
12/15/2021 15:41:02	Cont Calib Blank	Pb (220.353 nm)	> 100.00	0.00014 u (mg/L)	1.78700	> 100.00
12/15/2021 15:41:02	Cont Calib Blank	S (181.972 nm)	42.63	0.05690 Z (mg/L)	2.18318 Z	42.63
12/15/2021 15:41:02	Cont Calib Blank	Sb (217.582 nm)	84.24	0.00376 (mg/L)	5.95449	29.31
12/15/2021 15:41:02	Cont Calib Blank	Se (196.026 nm)	13.55	0.00796 (mg/L)	7.15576	6.97
12/15/2021 15:41:02	Cont Calib Blank	Sn (189.925 nm)	> 100.00	0.00162 u (mg/L)	3.84649	29.38
12/15/2021 15:41:02	Cont Calib Blank	Sr (407.771 nm)	11.94	0.00018 (mg/L)	229.12611	11.94
12/15/2021 15:41:02	Cont Calib Blank	Ti (337.280 nm)	31.57	0.00035 (mg/L)	27.37014	10.98
12/15/2021 15:41:02	Cont Calib Blank	Tl (351.923 nm)	44.08	0.02915 Z (mg/L)	40.22742 Z	34.36
12/15/2021 15:41:02	Cont Calib Blank	V (311.837 nm)	> 100.00	-0.00004 u (mg/L)	7.75144	65.74
12/15/2021 15:41:02	Cont Calib Blank	Zn (206.200 nm)	18.28	0.00039 (mg/L)	3.47166	1.72
12/15/2021 15:43:51	2112G62-010B	Ag (328.068 nm)	> 100.00	0.00003 u (mg/L)	4.63221	> 100.00
12/15/2021 15:43:51	2112G62-010B	Al (308.215 nm)	1.21	0.04134 (mg/L)	560.28843	0.37
12/15/2021 15:43:51	2112G62-010B	As (193.696 nm)	> 100.00	-0.00106 u (mg/L)	2.04076	46.68
12/15/2021 15:43:51	2112G62-010B	B (249.772 nm)	1.10	0.00677 (mg/L)	220.66823	0.79
12/15/2021 15:43:51	2112G62-010B	Ba (413.064 nm)	4.03	0.01077 (mg/L)	158.59473	2.68
12/15/2021 15:43:51	2112G62-010B	Be (313.042 nm)	15.07	0.00007 (mg/L)	535.20884	2.89
12/15/2021 15:43:51	2112G62-010B	Ca (373.690 nm)	1.62	0.28995 (mg/L)	1310.73430	1.54
12/15/2021 15:43:51	2112G62-010B	Cd (228.802 nm)	66.45	-0.00025 u (mg/L)	11.93600	27.20
12/15/2021 15:43:51	2112G62-010B	Co (230.786 nm)	1.98	0.03929 (mg/L)	258.31432	1.91
12/15/2021 15:43:51	2112G62-010B	Cr (267.716 nm)	14.23	0.00109 (mg/L)	32.79786	7.66
12/15/2021 15:43:51	2112G62-010B	Cu (327.395 nm)	5.95	0.00614 (mg/L)	180.13727	5.40
12/15/2021 15:43:51	2112G62-010B	Fe (238.204 nm)	1.68	0.03805 (mg/L)	964.94275	1.60
12/15/2021 15:43:51	2112G62-010B	K (766.491 nm)	11.98	0.53843 (mg/L)	1186.15370	8.37
12/15/2021 15:43:51	2112G62-010B	Mg (279.800 nm)	2.97	0.05079 (mg/L)	66.49301	2.63
12/15/2021 15:43:51	2112G62-010B	Mn (257.610 nm)	1.90	0.03191 (mg/L)	4429.24469	1.89
12/15/2021 15:43:51	2112G62-010B	Mo (204.598 nm)	> 100.00	0.00032 u (mg/L)	5.96528	20.15
12/15/2021 15:43:51	2112G62-010B	Na (589.592 nm)	1.67	217.97491 o (mg/L)	1958456.29770	1.67
12/15/2021 15:43:51	2112G62-010B	Ni (221.648 nm)	2.33	0.07957 (mg/L)	74.70889	2.31
12/15/2021 15:43:51	2112G62-010B	P (213.618 nm)	> 100.00	0.00033 u (mg/L)	3.18684	13.24
12/15/2021 15:43:51	2112G62-010B	Pb (220.353 nm)	> 100.00	-0.00078 u (mg/L)	0.57268	> 100.00
12/15/2021 15:43:51	2112G62-010B	S (181.972 nm)	28.48	0.04343 (mg/L)	1.66627	28.48
12/15/2021 15:43:51	2112G62-010B	Sb (217.582 nm)	77.29	0.00559 (mg/L)	6.96583	34.21
12/15/2021 15:43:51	2112G62-010B	Se (196.026 nm)	36.69	0.00935 (mg/L)	7.79872	20.33
12/15/2021 15:43:51	2112G62-010B	Sn (189.925 nm)	> 100.00	0.00241 (mg/L)	4.16365	25.67
12/15/2021 15:43:51	2112G62-010B	Sr (407.771 nm)	1.26	0.00162 (mg/L)	2036.34124	1.26
12/15/2021 15:43:51	2112G62-010B	Ti (337.280 nm)	8.93	0.00098 (mg/L)	44.58128	5.36
12/15/2021 15:43:51	2112G62-010B	Tl (351.923 nm)	> 100.00	0.00222 u (mg/L)	11.25913	43.62

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 15:43:51	2112G62-010B	V (311.837 nm)	> 100.00	-0.00007 u (mg/L)	6.37618	57.11
12/15/2021 15:43:51	2112G62-010B	Zn (206.200 nm)	12.66	0.00578 (mg/L)	8.04383	7.71
12/15/2021 15:46:41	2112H10-001C	Ag (328.068 nm)	> 100.00	0.00010 u (mg/L)	7.20130	> 100.00
12/15/2021 15:46:41	2112H10-001C	Al (308.215 nm)	0.24	1.33324 (mg/L)	5869.05489	0.23
12/15/2021 15:46:41	2112H10-001C	As (193.696 nm)	> 100.00	0.00200 u (mg/L)	2.91158	63.50
12/15/2021 15:46:41	2112H10-001C	B (249.772 nm)	3.13	0.01102 (mg/L)	320.19479	2.53
12/15/2021 15:46:41	2112H10-001C	Ba (413.064 nm)	1.97	0.03525 (mg/L)	398.59674	1.70
12/15/2021 15:46:41	2112H10-001C	Be (313.042 nm)	8.64	0.00003 (mg/L)	478.23768	0.83
12/15/2021 15:46:41	2112H10-001C	Ca (373.690 nm)	1.77	3.05894 (mg/L)	13246.78681	1.76
12/15/2021 15:46:41	2112H10-001C	Cd (228.802 nm)	67.98	-0.00013 u (mg/L)	14.23129	12.37
12/15/2021 15:46:41	2112H10-001C	Co (230.786 nm)	> 100.00	-0.00012 u (mg/L)	7.93676	17.67
12/15/2021 15:46:41	2112H10-001C	Cr (267.716 nm)	9.11	0.00217 (mg/L)	50.17529	6.36
12/15/2021 15:46:41	2112H10-001C	Cu (327.395 nm)	> 100.00	0.00022 u (mg/L)	22.59620	44.77
12/15/2021 15:46:41	2112H10-001C	Fe (238.204 nm)	1.36	0.52724 (mg/L)	12788.10990	1.36
12/15/2021 15:46:41	2112H10-001C	K (766.491 nm)	7.98	0.92591 (mg/L)	1782.93077	6.39
12/15/2021 15:46:41	2112H10-001C	Mg (279.800 nm)	2.70	0.35746 (mg/L)	421.94168	2.65
12/15/2021 15:46:41	2112H10-001C	Mn (257.610 nm)	1.49	0.01393 (mg/L)	1943.75096	1.47
12/15/2021 15:46:41	2112H10-001C	Mo (204.598 nm)	> 100.00	0.00011 u (mg/L)	5.47956	8.73
12/15/2021 15:46:41	2112H10-001C	Na (589.592 nm)	1.44	241.96093 o (mg/L)	2173812.76443	1.44
12/15/2021 15:46:41	2112H10-001C	Ni (221.648 nm)	58.81	-0.00269 u (mg/L)	-1.70971	86.10
12/15/2021 15:46:41	2112H10-001C	P (213.618 nm)	6.79	0.03885 (mg/L)	27.35782	6.05
12/15/2021 15:46:41	2112H10-001C	Pb (220.353 nm)	> 100.00	-0.00032 u (mg/L)	1.18297	60.05
12/15/2021 15:46:41	2112H10-001C	S (181.972 nm)	29.25	0.11501 (mg/L)	4.41281	29.25
12/15/2021 15:46:41	2112H10-001C	Sb (217.582 nm)	57.20	-0.00250 u (mg/L)	2.50195	31.56
12/15/2021 15:46:41	2112H10-001C	Se (196.026 nm)	80.90	0.00382 (mg/L)	5.24320	27.26
12/15/2021 15:46:41	2112H10-001C	Sn (189.925 nm)	> 100.00	0.00168 (mg/L)	3.86890	17.75
12/15/2021 15:46:41	2112H10-001C	Sr (407.771 nm)	4.51	0.00852 (mg/L)	10706.23605	4.51
12/15/2021 15:46:41	2112H10-001C	Ti (337.280 nm)	3.14	0.09028 (mg/L)	2480.64805	3.12
12/15/2021 15:46:41	2112H10-001C	Tl (351.923 nm)	> 100.00	0.00100 u (mg/L)	9.94539	15.42
12/15/2021 15:46:41	2112H10-001C	V (311.837 nm)	4.82	0.00116 (mg/L)	56.41597	4.03
12/15/2021 15:46:41	2112H10-001C	Zn (206.200 nm)	2.97	0.02547 (mg/L)	24.72745	2.59
12/15/2021 15:49:32	Interf Check A	Ag (328.068 nm)	26.87	0.00023 (mg/L)	11.74031	18.93
12/15/2021 15:49:32	Interf Check A	Al (308.215 nm)	2.50	268.49033 (mg/L)	1103684.06779	2.50
12/15/2021 15:49:32	Interf Check A	As (193.696 nm)	> 100.00	0.00253 u (mg/L)	3.06347	83.65
12/15/2021 15:49:32	Interf Check A	B (249.772 nm)	2.76	0.04215 (mg/L)	1050.40444	2.60
12/15/2021 15:49:32	Interf Check A	Ba (413.064 nm)	38.24	0.00158 (mg/L)	68.57365	8.64
12/15/2021 15:49:32	Interf Check A	Be (313.042 nm)	15.88	0.00007 (mg/L)	533.65382	3.01
12/15/2021 15:49:32	Interf Check A	Ca (373.690 nm)	2.54	249.83992 o (mg/L)	1077026.83932	2.54
12/15/2021 15:49:32	Interf Check A	Cd (228.802 nm)	7.30	0.00134 (mg/L)	43.08537	4.45
12/15/2021 15:49:32	Interf Check A	Co (230.786 nm)	25.73	0.00204 (mg/L)	21.70698	15.39
12/15/2021 15:49:32	Interf Check A	Cr (267.716 nm)	15.09	0.00164 (mg/L)	41.71372	9.62
12/15/2021 15:49:32	Interf Check A	Cu (327.395 nm)	42.22	0.00118 (mg/L)	48.05675	27.52
12/15/2021 15:49:32	Interf Check A	Fe (238.204 nm)	2.48	88.70822 (mg/L)	2144030.25072	2.48
12/15/2021 15:49:32	Interf Check A	K (766.491 nm)	0.53	0.84694 K (mg/L)	1661.30592 K	0.42
12/15/2021 15:49:32	Interf Check A	Mg (279.800 nm)	2.54	262.87216 o (mg/L)	304682.43156	2.54
12/15/2021 15:49:32	Interf Check A	Mn (257.610 nm)	5.54	0.00097 (mg/L)	151.17861	4.92
12/15/2021 15:49:32	Interf Check A	Mo (204.598 nm)	34.77	0.01026 (mg/L)	29.38914	28.61
12/15/2021 15:49:32	Interf Check A	Na (589.592 nm)	1.50	0.80309 (mg/L)	8597.81284	1.25

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 15:49:32	Interf Check A	Ni (221.648 nm)	36.04	0.00814 (mg/L)	8.35164	32.62
12/15/2021 15:49:32	Interf Check A	P (213.618 nm)	> 100.00	-0.00022 u (mg/L)	2.83674	69.11
12/15/2021 15:49:32	Interf Check A	Pb (220.353 nm)	39.94	-0.00580 u (mg/L)	-6.11542	50.42
12/15/2021 15:49:32	Interf Check A	S (181.972 nm)	68.64	0.05905 K (mg/L)	2.26549 K	68.64
12/15/2021 15:49:32	Interf Check A	Sb (217.582 nm)	> 100.00	0.00111 u (mg/L)	4.49388	33.75
12/15/2021 15:49:32	Interf Check A	Se (196.026 nm)	> 100.00	0.00312 u (mg/L)	4.91957	67.31
12/15/2021 15:49:32	Interf Check A	Sn (189.925 nm)	62.87	0.01074 (mg/L)	7.51560	36.17
12/15/2021 15:49:32	Interf Check A	Sr (407.771 nm)	0.97	0.00980 (mg/L)	12309.44601	0.97
12/15/2021 15:49:32	Interf Check A	Ti (337.280 nm)	5.47	0.00092 (mg/L)	42.91696	3.20
12/15/2021 15:49:32	Interf Check A	Tl (351.923 nm)	53.64	0.01147 (mg/L)	21.20722	31.22
12/15/2021 15:49:32	Interf Check A	V (311.837 nm)	28.92	0.00077 (mg/L)	40.76491	22.37
12/15/2021 15:49:32	Interf Check A	Zn (206.200 nm)	37.55	0.00579 (mg/L)	8.04817	22.88
12/15/2021 15:52:25	Interf Check AB	Ag (328.068 nm)	1.78	0.05232 (mg/L)	1904.29149	1.77
12/15/2021 15:52:25	Interf Check AB	Al (308.215 nm)	2.04	262.06065 (mg/L)	1077262.93505	2.04
12/15/2021 15:52:25	Interf Check AB	As (193.696 nm)	2.09	0.47421 (mg/L)	137.34721	2.05
12/15/2021 15:52:25	Interf Check AB	B (249.772 nm)	2.36	0.48707 (mg/L)	11484.46035	2.35
12/15/2021 15:52:25	Interf Check AB	Ba (413.064 nm)	2.14	0.50951 (mg/L)	5046.82639	2.12
12/15/2021 15:52:25	Interf Check AB	Be (313.042 nm)	2.14	0.49352 (mg/L)	746761.77362	2.14
12/15/2021 15:52:25	Interf Check AB	Ca (373.690 nm)	2.01	244.07515 o (mg/L)	1052177.06290	2.01
12/15/2021 15:52:25	Interf Check AB	Cd (228.802 nm)	2.43	0.52084 (mg/L)	10230.21614	2.43
12/15/2021 15:52:25	Interf Check AB	Co (230.786 nm)	2.14	0.48365 (mg/L)	3081.14723	2.13
12/15/2021 15:52:25	Interf Check AB	Cr (267.716 nm)	2.18	0.49155 (mg/L)	7960.79261	2.18
12/15/2021 15:52:25	Interf Check AB	Cu (327.395 nm)	2.47	0.53581 (mg/L)	14270.52673	2.46
12/15/2021 15:52:25	Interf Check AB	Fe (238.204 nm)	2.06	89.09279 (mg/L)	2153324.89513	2.06
12/15/2021 15:52:25	Interf Check AB	K (766.491 nm)	1.72	6.48972 (mg/L)	10352.03850	1.66
12/15/2021 15:52:25	Interf Check AB	Mg (279.800 nm)	2.19	255.96951 o (mg/L)	296682.11057	2.19
12/15/2021 15:52:25	Interf Check AB	Mn (257.610 nm)	2.09	0.50160 (mg/L)	69379.12993	2.09
12/15/2021 15:52:25	Interf Check AB	Mo (204.598 nm)	2.56	0.51321 (mg/L)	1215.18338	2.55
12/15/2021 15:52:25	Interf Check AB	Na (589.592 nm)	1.92	6.39524 G (mg/L)	58806.43429 G	1.88
12/15/2021 15:52:25	Interf Check AB	Ni (221.648 nm)	1.81	0.49053 (mg/L)	456.45882	1.81
12/15/2021 15:52:25	Interf Check AB	P (213.618 nm)	2.54	0.46328 (mg/L)	293.70183	2.52
12/15/2021 15:52:25	Interf Check AB	Pb (220.353 nm)	1.83	0.48335 (mg/L)	644.87474	1.83
12/15/2021 15:52:25	Interf Check AB	S (181.972 nm)	1.75	0.50042 (mg/L)	19.20040	1.75
12/15/2021 15:52:25	Interf Check AB	Sb (217.582 nm)	2.51	0.49804 (mg/L)	278.62144	2.48
12/15/2021 15:52:25	Interf Check AB	Se (196.026 nm)	3.33	0.47761 (mg/L)	224.26010	3.28
12/15/2021 15:52:25	Interf Check AB	Sn (189.925 nm)	3.28	0.50117 (mg/L)	204.92051	3.23
12/15/2021 15:52:25	Interf Check AB	Sr (407.771 nm)	2.30	0.49273 (mg/L)	618858.47777	2.30
12/15/2021 15:52:25	Interf Check AB	Ti (337.280 nm)	2.06	0.51600 (mg/L)	14093.74014	2.06
12/15/2021 15:52:25	Interf Check AB	Tl (351.923 nm)	5.87	0.49415 (mg/L)	540.49825	5.77
12/15/2021 15:52:25	Interf Check AB	V (311.837 nm)	2.02	0.52409 (mg/L)	21411.79550	2.02
12/15/2021 15:52:25	Interf Check AB	Zn (206.200 nm)	1.39	0.48721 (mg/L)	416.07438	1.38
12/15/2021 15:55:16	Cont Calib Verif	Ag (328.068 nm)	1.59	0.10235 (mg/L)	3721.59468	1.59
12/15/2021 15:55:16	Cont Calib Verif	Al (308.215 nm)	1.30	10.09211 (mg/L)	41861.40576	1.29
12/15/2021 15:55:16	Cont Calib Verif	As (193.696 nm)	2.13	0.98416 (mg/L)	282.52865	2.11
12/15/2021 15:55:16	Cont Calib Verif	B (249.772 nm)	1.65	1.00294 (mg/L)	23582.36097	1.65
12/15/2021 15:55:16	Cont Calib Verif	Ba (413.064 nm)	1.33	1.06872 (mg/L)	10527.67028	1.32
12/15/2021 15:55:16	Cont Calib Verif	Be (313.042 nm)	2.13	1.01450 (mg/L)	1534617.66542	2.13
12/15/2021 15:55:16	Cont Calib Verif	Ca (373.690 nm)	1.43	10.15577 (mg/L)	43838.58424	1.43

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 15:55:16	Cont Calib Verif	Cd (228.802 nm)	1.77	1.03214 (mg/L)	20256.51523	1.77
12/15/2021 15:55:16	Cont Calib Verif	Co (230.786 nm)	1.50	1.05341 (mg/L)	6700.63051	1.50
12/15/2021 15:55:16	Cont Calib Verif	Cr (267.716 nm)	1.52	1.02565 (mg/L)	16594.23314	1.52
12/15/2021 15:55:16	Cont Calib Verif	Cu (327.395 nm)	1.66	1.01087 (mg/L)	26908.42315	1.65
12/15/2021 15:55:16	Cont Calib Verif	Fe (238.204 nm)	1.35	10.14081 (mg/L)	245138.08567	1.35
12/15/2021 15:55:16	Cont Calib Verif	K (766.491 nm)	1.25	10.37509 (mg/L)	16336.10336	1.22
12/15/2021 15:55:16	Cont Calib Verif	Mg (279.800 nm)	1.40	10.09113 (mg/L)	11703.48473	1.40
12/15/2021 15:55:16	Cont Calib Verif	Mn (257.610 nm)	1.48	1.05071 (mg/L)	145311.32994	1.48
12/15/2021 15:55:16	Cont Calib Verif	Mo (204.598 nm)	1.82	1.03200 (mg/L)	2438.31815	1.82
12/15/2021 15:55:16	Cont Calib Verif	Na (589.592 nm)	1.34	10.60430 (mg/L)	96597.09063	1.32
12/15/2021 15:55:16	Cont Calib Verif	Ni (221.648 nm)	1.30	1.07064 (mg/L)	995.34389	1.30
12/15/2021 15:55:16	Cont Calib Verif	P (213.618 nm)	1.82	0.98654 (mg/L)	622.06358	1.81
12/15/2021 15:55:16	Cont Calib Verif	Pb (220.353 nm)	1.34	1.04372 (mg/L)	1390.63578	1.34
12/15/2021 15:55:16	Cont Calib Verif	S (181.972 nm)	1.48	0.97347 (mg/L)	37.35032	1.48
12/15/2021 15:55:16	Cont Calib Verif	Sb (217.582 nm)	1.65	1.02482 (mg/L)	569.20988	1.64
12/15/2021 15:55:16	Cont Calib Verif	Se (196.026 nm)	1.63	1.03643 (mg/L)	482.58020	1.62
12/15/2021 15:55:16	Cont Calib Verif	Sn (189.925 nm)	1.08	1.05265 (mg/L)	426.90179	1.07
12/15/2021 15:55:16	Cont Calib Verif	Sr (407.771 nm)	1.68	0.94756 (mg/L)	1190097.93196	1.68
12/15/2021 15:55:16	Cont Calib Verif	Ti (337.280 nm)	1.52	1.04755 (mg/L)	28594.02121	1.52
12/15/2021 15:55:16	Cont Calib Verif	Tl (351.923 nm)	5.03	0.94892 (mg/L)	1029.76269	4.98
12/15/2021 15:55:16	Cont Calib Verif	V (311.837 nm)	1.43	1.06245 (mg/L)	43396.69199	1.43
12/15/2021 15:55:16	Cont Calib Verif	Zn (206.200 nm)	1.75	1.06766 (mg/L)	908.02502	1.74
12/15/2021 15:58:05	Cont Calib Blank	Ag (328.068 nm)	67.24	0.00023 (mg/L)	11.98888	47.79
12/15/2021 15:58:05	Cont Calib Blank	Al (308.215 nm)	20.99	0.01352 (mg/L)	445.98931	2.62
12/15/2021 15:58:05	Cont Calib Blank	As (193.696 nm)	> 100.00	0.00062 u (mg/L)	2.51955	38.76
12/15/2021 15:58:05	Cont Calib Blank	B (249.772 nm)	35.09	0.00347 (mg/L)	143.19602	19.94
12/15/2021 15:58:05	Cont Calib Blank	Ba (413.064 nm)	> 100.00	0.00002 u (mg/L)	53.24939	13.78
12/15/2021 15:58:05	Cont Calib Blank	Be (313.042 nm)	20.88	0.00011 (mg/L)	598.57502	5.79
12/15/2021 15:58:05	Cont Calib Blank	Ca (373.690 nm)	97.74	0.00199 u (mg/L)	69.44188	12.07
12/15/2021 15:58:05	Cont Calib Blank	Cd (228.802 nm)	> 100.00	-0.00008 u (mg/L)	15.33836	12.50
12/15/2021 15:58:05	Cont Calib Blank	Co (230.786 nm)	> 100.00	0.00002 u (mg/L)	8.81890	43.76
12/15/2021 15:58:05	Cont Calib Blank	Cr (267.716 nm)	59.29	0.00028 (mg/L)	19.65948	13.63
12/15/2021 15:58:05	Cont Calib Blank	Cu (327.395 nm)	> 100.00	-0.00010 u (mg/L)	14.12066	30.23
12/15/2021 15:58:05	Cont Calib Blank	Fe (238.204 nm)	38.80	0.00352 (mg/L)	130.28847	25.34
12/15/2021 15:58:05	Cont Calib Blank	K (766.491 nm)	85.22	0.02780 (mg/L)	399.70021	9.13
12/15/2021 15:58:05	Cont Calib Blank	Mg (279.800 nm)	> 100.00	0.00329 u (mg/L)	11.44777	46.15
12/15/2021 15:58:05	Cont Calib Blank	Mn (257.610 nm)	63.15	0.00009 (mg/L)	29.86555	27.33
12/15/2021 15:58:05	Cont Calib Blank	Mo (204.598 nm)	72.16	0.00207 (mg/L)	10.09501	34.93
12/15/2021 15:58:05	Cont Calib Blank	Na (589.592 nm)	6.81	0.12258 (mg/L)	2487.95157	3.01
12/15/2021 15:58:05	Cont Calib Blank	Ni (221.648 nm)	> 100.00	0.00060 u (mg/L)	1.35325	46.20
12/15/2021 15:58:05	Cont Calib Blank	P (213.618 nm)	> 100.00	0.00003 u (mg/L)	2.99513	29.80
12/15/2021 15:58:05	Cont Calib Blank	Pb (220.353 nm)	> 100.00	-0.00074 u (mg/L)	0.61976	> 100.00
12/15/2021 15:58:05	Cont Calib Blank	S (181.972 nm)	> 100.00	0.01129 u (mg/L)	0.43314	> 100.00
12/15/2021 15:58:05	Cont Calib Blank	Sb (217.582 nm)	> 100.00	0.00164 u (mg/L)	4.78654	57.24
12/15/2021 15:58:05	Cont Calib Blank	Se (196.026 nm)	27.94	0.00961 (mg/L)	7.91712	15.67
12/15/2021 15:58:05	Cont Calib Blank	Sn (189.925 nm)	> 100.00	-0.00061 u (mg/L)	2.94752	35.02
12/15/2021 15:58:05	Cont Calib Blank	Sr (407.771 nm)	21.19	0.00017 (mg/L)	211.09673	21.19
12/15/2021 15:58:05	Cont Calib Blank	Ti (337.280 nm)	54.90	0.00025 (mg/L)	24.74014	15.30

211215A REP.esws

Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
12/15/2021 15:58:05	Cont Calib Blank	Tl (351.923 nm)	16.67	0.01407 (mg/L)	23.99988	10.51
12/15/2021 15:58:05	Cont Calib Blank	V (311.837 nm)	28.80	-0.00009 u (mg/L)	5.73776	17.50
12/15/2021 15:58:05	Cont Calib Blank	Zn (206.200 nm)	> 100.00	-0.00072 u (mg/L)	2.53108	56.75

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Injection Log

Directory: C:\MS-9\New\Raw Data\S211214

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	S21121401.D	1.	DFTPP	TUNE DFTPP_4	14 Dec 2021 09:36
2	1	S21121402.D	1.	DFTPP	TUNE DFTPP_4	14 Dec 2021 10:02
3	1	S21121403.D	1.	DFTPP	TUNE DFTPP_4	14 Dec 2021 10:27
4	3	S21121404.D	1.	EX40	CCV 625.1	14 Dec 2021 11:19
5	2	S21121405.D	1.	bna40	CCV 8270_TCL4.2_W	14 Dec 2021 10:53
6	2	S21121408.D	1.	bna60	CCV 8270_TCL4.2_W	14 Dec 2021 16:54
7	24	S21121439.D	1.	2112C96-018B	SAMP 8270_TCL4.2_W	14 Dec 2021 17:20
8	25	S21121440.D	1.	LCS-327119	LCS 1311_B	14 Dec 2021 17:46
9	26	S21121441.D	1.	2112C61-004B	SAMP 8270_TCL4.2_W	14 Dec 2021 11:45
10	27	S21121442.D	1.	2112C61-005D	SAMP 8270_TCL4.2_W	14 Dec 2021 12:11
11	28	S21121443.D	1.	2112C61-006D	SAMP 8270_TCL4.2_W	14 Dec 2021 13:52
12	29	S21121444.D	1.	2112C61-007D	SAMP 8270_TCL4.2_W	14 Dec 2021 14:17
13	34	S21121449.D	1.	2112C29-017B	SAMP 8270_TCL4.2_W	14 Dec 2021 18:38
14	35	S21121450.D	1.	2112A10-001D	SAMP 8270_TCL4.2_W	14 Dec 2021 19:04
15	36	S21121451.D	1.	2112C45-005D	SAMP 8270_TCL4.2_W	14 Dec 2021 19:30
16	37	S21121452.D	1.	2112C45-006D	SAMP 8270_TCL4.2_W	14 Dec 2021 19:55
17	38	S21121453.D	1.	MB-327269	MBLK 8270_TCL4.2_S	14 Dec 2021 12:36
18	39	S21121454.D	1.	LCS-327269	LCS 8270_TCL4.2_S	14 Dec 2021 13:02
19	40	S21121455.D	1.	2112G62-004D	SAMP 8270_TCL4.2_S	14 Dec 2021 13:27
20	41	S21121456.D	1.	MB-327248	MBLK 8270_TCL4.2_W	14 Dec 2021 14:43
21	42	S21121457.D	1.	LCS-327248	LCS 8270_TCL4.2_W	14 Dec 2021 15:08
22	43	S21121458.D	1.	2112G62-003C	SAMP 8270_TCL4.2_W	14 Dec 2021 15:36
23	44	S21121459.D	1.	2112G62-003CMS	MS 8270_TCL4.2_W	14 Dec 2021 20:21
24	45	S21121460.D	1.	2112G62-003CMSD	MSD 8270_TCL4.2_W	14 Dec 2021 20:47
25	46	S21121461.D	1.	2112G62-001C	SAMP 8270_TCL4.2_W	14 Dec 2021 16:02
26	47	S21121462.D	1.	2112D95-001B	SAMP 1311_B	14 Dec 2021 16:28
27	48	S21121463.D	1.	2112E60-001B	SAMP 1311_B	14 Dec 2021 21:13
28	49	S21121464.D	1.	2112E60-002B	SAMP 1311_B	14 Dec 2021 21:39
29	50	S21121465.D	1.	2112C13-001B	SAMP 1311_B	14 Dec 2021 22:06
30	51	S21121466.D	1.	2112A79-001B	SAMP 1311_B	14 Dec 2021 22:32
31	52	S21121467.D	1.	MB-327197	MBLK 8270_SC_TCL4.2_S	14 Dec 2021 22:59
32	53	S21121468.D	1.	LCS-327197	LCS 8270_SC_TCL4.2_S	14 Dec 2021 23:25
33	54	S21121469.D	1.	2112F13-012A	SAMP 8270_SC_TCL4.2_S	14 Dec 2021 23:51

Injection Log

Directory: C:\MS-9\New\Raw Data\S211214

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
34	55	S21121470.D	1.	2112F13-012AMS	MS 8270_SC_TCL4.2_S	15 Dec 2021 00:18
35	56	S21121471.D	1.	2112F13-012AMSD	MSD 8270_SC_TCL4.2_S	15 Dec 2021 00:45
36	57	S21121472.D	1.	2112692-001B	SAMP 8270_SC_TCL4.2_S	15 Dec 2021 01:11
37	58	S21121473.D	1.	2112822-004B	SAMP 8270_SC_TCL4.2_S	15 Dec 2021 01:37
38	59	S21121474.D	1.	2112A80-001B	SAMP 8270_SC_TCL4.2_S	15 Dec 2021 02:04
39	60	S21121475.D	1.	2112A80-002B	SAMP 8270_SC_TCL4.2_S	15 Dec 2021 02:30
40	61	S21121476.D	1.	2112A80-003B	SAMP 8270_SC_TCL4.2_S	15 Dec 2021 02:56
41	62	S21121477.D	1.	2112A80-004B	SAMP 8270_SC_TCL4.2_S	15 Dec 2021 03:22
42	30	S21121490.D	1.	2112C96-019B	SAMP 8270_TCL4.2_W	14 Dec 2021 18:12

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121405.D
Acq On : 14 Dec 2021 10:53 am
Operator : YH
Sample : bna40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 13:58:55 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	114	0.00
2		Pyridine	60.000	52.693	12.2	101	0.00
3	T	2-Picoline	60.000	55.291	7.8	103	-0.03
4	T	Methyl methanesulfonate	60.000	41.015	31.6#	79	0.00
5	S	2-Fluorophenol	60.000	52.328	12.8	98	0.02
6	T	Ethyl methanesulfonate	60.000	52.617	12.3	99	0.00
7	P	Benzaldehyde	60.000	59.530	0.8	110	0.00
8	T	Aniline	60.000	37.299	37.8#	70	0.00
9	S	Phenol-d5	60.000	58.583	2.4	112	0.03
10	P	Phenol	60.000	52.351	12.7	107	0.03
11	P	Bis(2-chloroethyl)ether	60.000	54.874	8.5	107	0.00
12	P	2-Chlorophenol	60.000	60.402	-0.7	114	0.00
13	T	1,3-Dichlorobenzene	60.000	57.759	3.7	109	0.00
14	CCC	1,4-Dichlorobenzene	60.000	57.419	4.3	109	0.00
15	T	1,2-Dichlorobenzene	60.000	59.151	1.4	112	0.00
16	T	Benzyl alcohol	60.000	49.393	17.7	95	0.00
17	T	Bis(2-chloroisopropyl)ether	60.000	42.881	28.5#	82	0.00
18	P	2-Methylphenol	60.000	57.546	4.1	109	0.01
19	T	3,4-Methylphenol	120.000	117.015	2.5	109	0.01
20	PC	N-Nitrosodi-n-propylamine	60.000	55.709	7.2	104	-0.01
21	T	N-Nitrosodimethylamine	60.000	48.215	19.6	90	0.00
22	T	Hexachloroethane	60.000	56.773	5.4	109	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	113	0.00
24	S	Nitrobenzene-d5	60.000	54.345	9.4	103	0.00
25	P	Acetophenone	120.000	112.668	6.1	107	0.00
26	P	Nitrobenzene	60.000	56.416	6.0	107	0.00
27	T	N-Nitrosopiperidine	60.000	57.499	4.2	110	0.00
28	P	Isophorone	60.000	54.889	8.5	103	0.00
29	P	2-Nitrophenol	60.000	58.839	1.9	108	0.00
30	P	2,4-Dimethylphenol	60.000	55.637	7.3	105	0.00
31	P	Bis(2-chloroethoxy)methane	60.000	55.180	8.0	103	0.00
32	P	2,4-Dichlorophenol	60.000	57.837	3.6	109	0.00
33	T	1,2,4-Trichlorobenzene	60.000	58.143	3.1	112	0.00
34	P	Naphthalene	60.000	59.698	0.5	114	0.00
35	T	Benzoic acid	60.000	0.000	100.0#	0	-5.62#
36	T	2,6-Dichlorophenol	60.000	57.740	3.8	108	0.00
37	P	4-Chloroaniline	60.000	50.583	15.7	94	0.00
38	P	Hexachlorobutadiene	60.000	56.581	5.7	108	0.00
39	T	a,a-Dimethylphenethylamine	60.000	43.156	28.1#	82	-0.09
40	P	Caprolactam	60.000	62.199	-3.7	113	-0.03
41	P	4-Chloro-3-methylphenol	60.000	54.540	9.1	101	0.02
42	T	N-Nitrosodi-n-butylamine	60.000	47.129	21.5	79	0.00
43	P	2-Methylnaphthalene	60.000	58.754	2.1	111	0.00
44	T	1-Methylnaphthalene	60.000	58.290	2.9	109	0.00
45	I	Acenaphthene-d10	40.000	40.000	0.0	118	0.00
46	T	1,2,4,5-Tetrachlorobenzene	60.000	55.493	7.5	111	0.00
47	P	Hexachlorocyclopentadiene	60.000	51.098	14.8	100	0.00
48	P	2,4,6-Trichlorophenol	60.000	49.907	16.8	97	0.00
49	P	2,4,5-Trichlorophenol	60.000	45.440	24.3	88	0.01
50	S	2-Fluorobiphenyl	60.000	59.299	1.2	114	0.00
51		Biphenyl	60.000	59.076	1.5	115	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121405.D
Acq On : 14 Dec 2021 10:53 am
Operator : YH
Sample : bna40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 13:58:55 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	P	2-Chloronaphthalene	60.000	57.906	3.5	115	0.00
53	T	1-Chloronaphthalene	60.000	57.806	3.7	109	0.00
54	P	2-Nitroaniline	60.000	46.002	23.3	89	0.00
55	P	3-Nitroaniline	60.000	51.120	14.8	98	0.00
56	T	Pentachlorobenzene	60.000	55.543	7.4	108	0.00
57	T	4-Nitroaniline	60.000	51.949	13.4	101	0.00
58	T	2-Naphthylamine	60.000	38.211	36.3#	75	0.00
59	T	1-Naphthylamine	60.000	31.056	48.2#	61	0.00
60	P	Dimethyl phthalate	60.000	60.451	-0.8	117	0.00
61	P	Acenaphthylene	60.000	57.493	4.2	111	0.00
62	P	2,6-Dinitrotoluene	60.000	60.681	-1.1	114	0.00
63	P	Acenaphthene	60.000	60.838	-1.4	119	0.00
64	P	2,4-Dinitrophenol	60.000	38.473	35.9#	69	0.04
65	P	Dibenzofuran	60.000	58.835	1.9	116	0.00
66	P	4-Nitrophenol	60.000	40.498	32.5#	74	0.04
67	P	2,4-Dinitrotoluene	60.000	59.273	1.2	113	0.00
68	T	2,3,4,6-Tetrachlorophenol	60.000	41.929	30.1#	78	0.00
69	P	Diethyl phthalate	60.000	60.003	-0.0	115	0.00
70	P	Fluorene	60.000	59.281	1.2	116	0.00
71	P	4-Chlorophenyl phenyl ether	60.000	58.850	1.9	113	0.00
72	S	2,4,6-Tribromophenol	60.000	50.354	16.1	97	0.00
73	I	Phenanthrene-d10	40.000	40.000	0.0	122	0.00
74	P	4,6-Dinitro-2-methylphenol	60.000	35.732	40.4#	65	0.00
75	T	Azobenzene	60.000	59.793	0.3	120	0.00
76	T	1,2-Diphenylhydrazine	60.000	56.831	5.3	114	0.00
77	CCC	Diphenylamine	60.000	55.538	7.4	110	0.00
78	P	N-Nitrosodiphenylamine	60.000	56.036	6.6	111	0.00
79	P	4-Bromophenyl phenyl ether	60.000	55.733	7.1	113	0.00
80	T	Phenacetin	60.000	56.287	6.2	111	0.00
81	P	Hexachlorobenzene	60.000	58.391	2.7	118	0.00
82	P	Atrazine	60.000	49.727	17.1	98	0.00
83	T	4-Aminobiphenyl	60.000	39.809	33.7#	79	0.00
84	P	Pentachlorophenol	60.000	34.118	43.1#	68	0.00
85	T	Pentachloronitrobenzene	60.000	51.313	14.5	102	0.00
86	T	Pronamide	60.000	53.368	11.1	106	0.00
87	P	Phenanthrene	60.000	56.364	6.1	113	0.00
88	P	Anthracene	60.000	56.233	6.3	113	0.00
89	P	Carbazole	60.000	59.566	0.7	118	0.00
90	P	Di-n-butyl phthalate	60.000	59.804	0.3	118	0.00
91	P	Fluoranthene	60.000	58.257	2.9	116	0.00
92	I	Chrysene-d12	40.000	40.000	0.0	122	0.00
93	P	Pyrene	60.000	57.550	4.1	116	0.00
94	S	4-Terphenyl-d14	60.000	56.312	6.1	114	0.00
95	T	Benzidine	60.000	30.119	49.8#	60	-0.01
96	T	p-Dimethylaminoazobenzene	60.000	54.742	8.8	107	0.00
97	P	Butyl benzyl phthalate	60.000	59.184	1.4	117	0.00
98	P	Benz(a)anthracene	60.000	56.909	5.2	115	0.00
99	P	3,3'-Dichlorobenzidine	60.000	53.095	11.5	106	0.00
100	P	Chrysene	60.000	57.120	4.8	116	0.00
101	P	Bis(2-ethylhexyl)phthalate	60.000	59.053	1.6	115	0.00
102	P	Di-n-octyl phthalate	60.000	60.580	-1.0	120	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121405.D
Acq On : 14 Dec 2021 10:53 am
Operator : YH
Sample : bna40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 13:58:55 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	60.000	56.864	5.2	109	-0.01
104	I	Perylene-d12	40.000	40.000	0.0	130	-0.01
105	P	Benzo[b]fluoranthene	60.000	50.807	15.3	108	0.01
106	P	Benzo[k]fluoranthene	60.000	65.575	-9.3	140	0.00
107	P	Benzo[a]pyrene	60.000	60.539	-0.9	127	0.00
108	T	Dibenz(a,j)acridine	60.000	60.544	-0.9	124	0.00
109		Indeno[1,2,3-cd]pyrene	60.000	58.482	2.5	121	0.00
110	P	Dibenz(a,h)anthracene	60.000	60.366	-0.6	123	0.00
111	P	Benzo[g,h,i]perylene	60.000	58.541	2.4	124	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121405.D
Acq On : 14 Dec 2021 10:53 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 13:58:55 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	114	0.00
2		Pyridine	1.678	1.474	12.2	101	0.00
3	T	2-Picoline	1.646	1.517	7.8	103	0.00
4	T	Methyl methanesulfonate	0.820	0.561	31.6#	79	0.00
5	S	2-Fluorophenol	1.373	1.197	12.8	98	0.00
6	T	Ethyl methanesulfonate	1.239	1.087	12.3	99	0.00
7	P	Benzaldehyde	0.942	0.934	0.8	110	0.00
8	T	Aniline	1.016	0.632	37.8#	70	0.00
9	S	Phenol-d5	1.679	1.640	2.3	112	0.00
10	P	Phenol	1.995	1.741	12.7	107	0.00
11	P	Bis(2-chloroethyl)ether	1.405	1.285	8.5	107	0.00
12	P	2-Chlorophenol	1.491	1.501	-0.7	114	0.00
13	T	1,3-Dichlorobenzene	1.651	1.589	3.8	109	0.00
14	CCC	1,4-Dichlorobenzene	1.660	1.588	4.3	109	0.00
15	T	1,2-Dichlorobenzene	1.574	1.552	1.4	112	0.00
16	T	Benzyl alcohol	0.994	0.818	17.7	95	0.00
17	T	Bis(2-chloroisopropyl)ether	2.652	1.895	28.5#	82	0.00
18	P	2-Methylphenol	1.196	1.147	4.1	109	0.00
19	T	3,4-Methylphenol	1.538	1.500	2.5	109	0.00
20	PC	N-Nitrosodi-n-propylamine	1.035	0.961	7.1	104	0.00
21	T	N-Nitrosodimethylamine	0.925	0.743	19.7	90	0.00
22	T	Hexachloroethane	0.637	0.603	5.3	109	0.00
23	I	Naphthalene-d8	1.000	1.000	0.0	113	0.00
24	S	Nitrobenzene-d5	0.371	0.336	9.4	103	0.00
25	P	Acetophenone	0.503	0.472	6.2	107	0.00
26	P	Nitrobenzene	0.185	0.174	5.9	107	0.00
27	T	N-Nitrosopiperidine	0.187	0.179	4.3	110	0.00
28	P	Isophorone	0.733	0.671	8.5	103	0.00
29	P	2-Nitrophenol	0.192	0.188	2.1	108	0.00
30	P	2,4-Dimethylphenol	0.329	0.305	7.3	105	0.00
31	P	Bis(2-chloroethoxy)methane	0.429	0.395	7.9	103	0.00
32	P	2,4-Dichlorophenol	0.292	0.281	3.8	109	0.00
33	T	1,2,4-Trichlorobenzene	0.323	0.313	3.1	112	0.00
34	P	Naphthalene	1.117	1.111	0.5	114	0.00
35	T	Benzoic acid	0.210	0.000	100.0#	0#	-5.62#
36	T	2,6-Dichlorophenol	0.284	0.274	3.5	108	0.00
37	P	4-Chloroaniline	0.455	0.384	15.6	94	0.00
38	P	Hexachlorobutadiene	0.158	0.149	5.7	108	0.00
39	T	a,a-Dimethylphenethylamine	1.198	0.862	28.0#	82	0.00
40	P	Caprolactam	0.115	0.120	-4.3	113	0.00
41	P	4-Chloro-3-methylphenol	0.306	0.278	9.2	101	0.00
42	T	N-Nitrosodi-n-butylamine	0.279	0.219	21.5	79	0.00
43	P	2-Methylnaphthalene	0.638	0.624	2.2	111	0.00
44	T	1-Methylnaphthalene	0.617	0.599	2.9	109	0.00
45	I	Acenaphthene-d10	1.000	1.000	0.0	118	0.00
46	T	1,2,4,5-Tetrachlorobenzene	0.535	0.494	7.7	111	0.00
47	P	Hexachlorocyclopentadiene	0.326	0.277	15.0	100	0.00
48	P	2,4,6-Trichlorophenol	0.372	0.309	16.9	97	0.00
49	P	2,4,5-Trichlorophenol	0.394	0.298	24.4	88	0.00
50	S	2-Fluorobiphenyl	1.315	1.300	1.1	114	0.00
51		Biphenyl	1.572	1.548	1.5	115	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121405.D
Acq On : 14 Dec 2021 10:53 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 13:58:55 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	P	2-Chloronaphthalene	1.214	1.172	3.5	115	0.00
53	T	1-Chloronaphthalene	1.070	1.031	3.6	109	0.00
54	P	2-Nitroaniline	0.423	0.325	23.2	89	0.00
55	P	3-Nitroaniline	0.392	0.334	14.8	98	0.00
56	T	Pentachlorobenzene	0.443	0.410	7.4	108	0.00
57	T	4-Nitroaniline	0.385	0.333	13.5	101	0.00
58	T	2-Naphthylamine	1.269	0.808	36.3#	75	0.00
59	T	1-Naphthylamine	1.321	0.684	48.2#	61	0.00
60	P	Dimethyl phthalate	1.310	1.320	-0.8	117	0.00
61	P	Acenaphthylene	1.915	1.835	4.2	111	0.00
62	P	2,6-Dinitrotoluene	0.298	0.302	-1.3	114	0.00
63	P	Acenaphthene	1.148	1.164	-1.4	119	0.00
64	P	2,4-Dinitrophenol	0.161	0.092	42.9#	69	0.00
65	P	Dibenzofuran	1.678	1.645	2.0	116	0.00
66	P	4-Nitrophenol	0.211	0.143	32.2#	74	0.00
67	P	2,4-Dinitrotoluene	0.411	0.406	1.2	113	0.00
68	T	2,3,4,6-Tetrachlorophenol	0.293	0.204	30.4#	78	0.00
69	P	Diethyl phthalate	1.344	1.344	0.0	115	0.00
70	P	Fluorene	1.395	1.378	1.2	116	0.00
71	P	4-Chlorophenyl phenyl ether	0.582	0.571	1.9	113	0.00
72	S	2,4,6-Tribromophenol	0.130	0.113	13.1	97	0.00
73	I	Phenanthrene-d10	1.000	1.000	0.0	122	0.00
74	P	4,6-Dinitro-2-methylphenol	0.135	0.073	45.9#	65	0.00
75	T	Azobenzene	0.803	0.800	0.4	120	0.00
76	T	1,2-Diphenylhydrazine	0.191	0.181	5.2	114	0.00
77	CCC	Diphenylamine	0.139	0.129	7.2	110	0.00
78	P	N-Nitrosodiphenylamine	0.693	0.647	6.6	111	0.00
79	P	4-Bromophenyl phenyl ether	0.199	0.185	7.0	113	0.00
80	T	Phenacetin	0.421	0.395	6.2	111	0.00
81	P	Hexachlorobenzene	0.189	0.184	2.6	118	0.00
82	P	Atrazine	0.191	0.158	17.3	98	0.00
83	T	4-Aminobiphenyl	0.843	0.559	33.7#	79	0.00
84	P	Pentachlorophenol	0.141	0.080	43.3#	68	0.00
85	T	Pentachloronitrobenzene	0.086	0.074	14.0	102	0.00
86	T	Pronamide	0.304	0.271	10.9	106	0.00
87	P	Phenanthrene	1.180	1.109	6.0	113	0.00
88	P	Anthracene	1.188	1.114	6.2	113	0.00
89	P	Carbazole	1.002	0.995	0.7	118	0.00
90	P	Di-n-butyl phthalate	1.368	1.363	0.4	118	0.00
91	P	Fluoranthene	1.233	1.197	2.9	116	0.00
92	I	Chrysene-d12	1.000	1.000	0.0	122	0.00
93	P	Pyrene	1.553	1.489	4.1	116	0.00
94	S	4-Terphenyl-d14	1.018	0.956	6.1	114	0.00
95	T	Benzidine	0.697	0.350	49.8#	60	0.00
96	T	p-Dimethylaminoazobenzene	0.273	0.249	8.8	107	0.00
97	P	Butyl benzyl phthalate	0.747	0.737	1.3	117	0.00
98	P	Benz(a)anthracene	1.343	1.274	5.1	115	0.00
99	P	3,3'-Dichlorobenzidine	0.470	0.416	11.5	106	0.00
100	P	Chrysene	1.327	1.263	4.8	116	0.00
101	P	Bis(2-ethylhexyl)phthalate	0.994	0.978	1.6	115	0.00
102	P	Di-n-octyl phthalate	1.729	1.745	-0.9	120	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121405.D
Acq On : 14 Dec 2021 10:53 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 13:58:55 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	0.389	0.369	5.1	109	0.00
104	I	Perylene-d12	1.000	1.000	0.0	130	0.00
105	P	Benzo[b]fluoranthene	1.452	1.229	15.4	108	0.00
106	P	Benzo[k]fluoranthene	1.297	1.418	-9.3	140	0.00
107	P	Benzo[a]pyrene	1.249	1.260	-0.9	127	0.00
108	T	Dibenz(a,j)acridine	1.049	1.058	-0.9	124	0.00
109		Indeno[1,2,3-cd]pyrene	1.482	1.445	2.5	121	0.00
110	P	Dibenz(a,h)anthracene	1.212	1.220	-0.7	123	0.00
111	P	Benzo[g,h,i]perylene	1.225	1.195	2.4	124	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121408.D
Acq On : 14 Dec 2021 4:54 pm
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 09:37:08 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	121	0.00
2		Pyridine	1.678	1.387	17.3	100	0.00
3	T	2-Picoline	1.646	1.509	8.3	109	0.00
4	T	Methyl methanesulfonate	0.820	0.597	27.2#	89	0.00
5	S	2-Fluorophenol	1.373	1.244	9.4	108	0.00
6	T	Ethyl methanesulfonate	1.239	1.084	12.5	104	0.00
7	P	Benzaldehyde	0.942	0.974	-3.4	121	0.00
8	T	Aniline	1.016	0.627	38.3#	73	0.00
9	S	Phenol-d5	1.679	1.630	2.9	117	0.01
10	P	Phenol	1.995	1.684	15.6	109	0.01
11	P	Bis(2-chloroethyl)ether	1.405	1.268	9.8	111	0.00
12	P	2-Chlorophenol	1.491	1.492	-0.1	120	0.00
13	T	1,3-Dichlorobenzene	1.651	1.580	4.3	115	0.00
14	CCC	1,4-Dichlorobenzene	1.660	1.553	6.4	113	0.00
15	T	1,2-Dichlorobenzene	1.574	1.549	1.6	119	0.00
16	T	Benzyl alcohol	0.994	0.847	14.8	104	0.00
17	T	Bis(2-chloroisopropyl)ether	2.652	1.926	27.4#	88	0.00
18	P	2-Methylphenol	1.196	1.150	3.8	115	0.00
19	T	3,4-Methylphenol	1.538	1.476	4.0	114	0.00
20	PC	N-Nitrosodi-n-propylamine	1.035	0.955	7.7	110	0.00
21	T	N-Nitrosodimethylamine	0.925	0.688	25.6#	89	0.00
22	T	Hexachloroethane	0.637	0.584	8.3	111	0.00
23	I	Naphthalene-d8	1.000	1.000	0.0	120	0.00
24	S	Nitrobenzene-d5	0.371	0.340	8.4	110	0.00
25	P	Acetophenone	0.503	0.471	6.4	112	0.00
26	P	Nitrobenzene	0.185	0.176	4.9	114	0.00
27	T	N-Nitrosopiperidine	0.187	0.180	3.7	116	0.00
28	P	Isophorone	0.733	0.676	7.8	110	0.00
29	P	2-Nitrophenol	0.192	0.186	3.1	113	0.00
30	P	2,4-Dimethylphenol	0.329	0.305	7.3	111	0.00
31	P	Bis(2-chloroethoxy)methane	0.429	0.376	12.4	104	0.00
32	P	2,4-Dichlorophenol	0.292	0.272	6.8	112	0.00
33	T	1,2,4-Trichlorobenzene	0.323	0.315	2.5	119	0.00
34	P	Naphthalene	1.117	1.110	0.6	121	0.00
35	T	Benzoic acid	0.210	0.000	100.0#	0#	-5.62#
36	T	2,6-Dichlorophenol	0.284	0.275	3.2	115	0.00
37	P	4-Chloroaniline	0.455	0.376	17.4	98	0.00
38	P	Hexachlorobutadiene	0.158	0.147	7.0	113	0.00
39	T	a,a-Dimethylphenethylamine	1.198	0.917	23.5	92	0.04
40	P	Caprolactam	0.115	0.122	-6.1	122	0.02
41	P	4-Chloro-3-methylphenol	0.306	0.268	12.4	103	0.00
42	T	N-Nitrosodi-n-butylamine	0.279	0.228	18.3	88	0.00
43	P	2-Methylnaphthalene	0.638	0.636	0.3	120	0.00
44	T	1-Methylnaphthalene	0.617	0.621	-0.6	119	0.00
45	I	Acenaphthene-d10	1.000	1.000	0.0	129	0.00
46	T	1,2,4,5-Tetrachlorobenzene	0.535	0.488	8.8	120	0.00
47	P	Hexachlorocyclopentadiene	0.326	0.165	49.4#	65	0.00
48	P	2,4,6-Trichlorophenol	0.372	0.320	14.0	109	0.00
49	P	2,4,5-Trichlorophenol	0.394	0.347	11.9	112	0.00
50	S	2-Fluorobiphenyl	1.315	1.266	3.7	121	0.00
51		Biphenyl	1.572	1.518	3.4	124	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121408.D
Acq On : 14 Dec 2021 4:54 pm
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 09:37:08 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	P	2-Chloronaphthalene	1.214	1.166	4.0	126	0.00
53	T	1-Chloronaphthalene	1.070	0.979	8.5	113	0.00
54	P	2-Nitroaniline	0.423	0.339	19.9	102	0.00
55	P	3-Nitroaniline	0.392	0.329	16.1	105	0.00
56	T	Pentachlorobenzene	0.443	0.411	7.2	118	0.00
57	T	4-Nitroaniline	0.385	0.337	12.5	111	0.00
58	T	2-Naphthylamine	1.269	0.811	36.1#	82	0.00
59	T	1-Naphthylamine	1.321	0.684	48.2#	66	0.00
60	P	Dimethyl phthalate	1.310	1.279	2.4	124	0.00
61	P	Acenaphthylene	1.915	1.813	5.3	120	0.00
62	P	2,6-Dinitrotoluene	0.298	0.298	0.0	123	0.00
63	P	Acenaphthene	1.148	1.107	3.6	124	0.00
64	P	2,4-Dinitrophenol	0.161	0.127	21.1	104	-0.02
65	P	Dibenzofuran	1.678	1.614	3.8	124	0.00
66	P	4-Nitrophenol	0.211	0.150	28.9#	86	0.00
67	P	2,4-Dinitrotoluene	0.411	0.410	0.2	125	0.00
68	T	2,3,4,6-Tetrachlorophenol	0.293	0.188	35.8#	79	0.00
69	P	Diethyl phthalate	1.344	1.314	2.2	123	0.00
70	P	Fluorene	1.395	1.363	2.3	126	0.00
71	P	4-Chlorophenyl phenyl ether	0.582	0.563	3.3	122	0.00
72	S	2,4,6-Tribromophenol	0.130	0.111	14.6	105	0.00
73	I	Phenanthrene-d10	1.000	1.000	0.0	134	0.00
74	P	4,6-Dinitro-2-methylphenol	0.135	0.081	40.0#	78	0.00
75	T	Azobenzene	0.803	0.779	3.0	128	0.00
76	T	1,2-Diphenylhydrazine	0.191	0.174	8.9	119	0.00
77	CCC	Diphenylamine	0.139	0.128	7.9	120	0.00
78	P	N-Nitrosodiphenylamine	0.693	0.639	7.8	120	0.00
79	P	4-Bromophenyl phenyl ether	0.199	0.183	8.0	121	0.00
80	T	Phenacetin	0.421	0.397	5.7	122	0.00
81	P	Hexachlorobenzene	0.189	0.183	3.2	128	0.00
82	P	Atrazine	0.191	0.159	16.8	107	0.00
83	T	4-Aminobiphenyl	0.843	0.632	25.0#	98	0.00
84	P	Pentachlorophenol	0.141	0.071	49.6#	66	0.00
85	T	Pentachloronitrobenzene	0.086	0.072	16.3	109	0.00
86	T	Pronamide	0.304	0.267	12.2	114	0.00
87	P	Phenanthrene	1.180	1.088	7.8	121	0.00
88	P	Anthracene	1.188	1.096	7.7	121	0.00
89	P	Carbazole	1.002	1.016	-1.4	132	0.00
90	P	Di-n-butyl phthalate	1.368	1.348	1.5	128	0.00
91	P	Fluoranthene	1.233	1.199	2.8	126	0.00
92	I	Chrysene-d12	1.000	1.000	0.0	128	0.00
93	P	Pyrene	1.553	1.554	-0.1	126	0.00
94	S	4-Terphenyl-d14	1.018	0.959	5.8	120	0.00
95	T	Benzidine	0.697	0.291	58.2#	52	0.00
96	T	p-Dimethylaminoazobenzene	0.273	0.257	5.9	115	0.00
97	P	Butyl benzyl phthalate	0.747	0.759	-1.6	126	0.00
98	P	Benz(a)anthracene	1.343	1.302	3.1	123	0.00
99	P	3,3'-Dichlorobenzidine	0.470	0.442	6.0	117	0.00
100	P	Chrysene	1.327	1.248	6.0	120	0.00
101	P	Bis(2-ethylhexyl)phthalate	0.994	1.022	-2.8	126	0.00
102	P	Di-n-octyl phthalate	1.729	1.819	-5.2	131	0.00

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Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121408.D
Acq On : 14 Dec 2021 4:54 pm
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 09:37:08 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	0.389	0.395	-1.5	123	0.01
104	I	Perylene-d12	1.000	1.000	0.0	145	0.00
105	P	Benzo[b]fluoranthene	1.452	1.220	16.0	120	0.00
106	P	Benzo[k]fluoranthene	1.297	1.348	-3.9	149	0.01
107	P	Benzo[a]pyrene	1.249	1.228	1.7	138	0.00
108	T	Dibenz(a,j)acridine	1.049	1.080	-3.0	142	0.01
109		Indeno[1,2,3-cd]pyrene	1.482	1.438	3.0	135	0.01
110	P	Dibenz(a,h)anthracene	1.212	1.202	0.8	136	0.01
111	P	Benzo[g,h,i]perylene	1.225	1.151	6.0	134	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121408.D
Acq On : 14 Dec 2021 4:54 pm
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 09:37:08 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	121	0.00
2		Pyridine	60.000	49.592	17.3	100	0.00
3	T	2-Picoline	60.000	55.025	8.3	109	0.00
4	T	Methyl methanesulfonate	60.000	43.683	27.2#	89	0.00
5	S	2-Fluorophenol	60.000	54.382	9.4	108	0.00
6	T	Ethyl methanesulfonate	60.000	52.481	12.5	104	0.00
7	P	Benzaldehyde	60.000	62.066	-3.4	121	0.00
8	T	Aniline	60.000	37.015	38.3#	73	0.00
9	S	Phenol-d5	60.000	58.226	3.0	117	0.01
10	P	Phenol	60.000	50.656	15.6	109	0.01
11	P	Bis(2-chloroethyl)ether	60.000	54.112	9.8	111	0.00
12	P	2-Chlorophenol	60.000	60.054	-0.1	120	0.00
13	T	1,3-Dichlorobenzene	60.000	57.418	4.3	115	0.00
14	CCC	1,4-Dichlorobenzene	60.000	56.148	6.4	113	0.00
15	T	1,2-Dichlorobenzene	60.000	59.038	1.6	119	0.00
16	T	Benzyl alcohol	60.000	51.133	14.8	104	0.00
17	T	Bis(2-chloroisopropyl)ether	60.000	43.586	27.4#	88	0.00
18	P	2-Methylphenol	60.000	57.715	3.8	115	0.00
19	T	3,4-Methylphenol	120.000	115.136	4.1	114	0.00
20	PC	N-Nitrosodi-n-propylamine	60.000	55.329	7.8	110	0.00
21	T	N-Nitrosodimethylamine	60.000	44.633	25.6#	89	0.00
22	T	Hexachloroethane	60.000	54.981	8.4	111	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	120	0.00
24	S	Nitrobenzene-d5	60.000	54.965	8.4	110	0.00
25	P	Acetophenone	120.000	112.321	6.4	112	0.00
26	P	Nitrobenzene	60.000	57.089	4.9	114	0.00
27	T	N-Nitrosopiperidine	60.000	57.718	3.8	116	0.00
28	P	Isophorone	60.000	55.338	7.8	110	0.00
29	P	2-Nitrophenol	60.000	58.141	3.1	113	0.00
30	P	2,4-Dimethylphenol	60.000	55.604	7.3	111	0.00
31	P	Bis(2-chloroethoxy)methane	60.000	52.549	12.4	104	0.00
32	P	2,4-Dichlorophenol	60.000	55.925	6.8	112	0.00
33	T	1,2,4-Trichlorobenzene	60.000	58.475	2.5	119	0.00
34	P	Naphthalene	60.000	59.650	0.6	121	0.00
35	T	Benzoic acid	60.000	0.000	100.0#	0	-5.62#
36	T	2,6-Dichlorophenol	60.000	58.122	3.1	115	0.00
37	P	4-Chloroaniline	60.000	49.600	17.3	98	0.00
38	P	Hexachlorobutadiene	60.000	55.995	6.7	113	0.00
39	T	a,a-Dimethylphenethylamine	60.000	45.911	23.5	92	0.04
40	P	Caprolactam	60.000	63.304	-5.5	122	0.02
41	P	4-Chloro-3-methylphenol	60.000	52.540	12.4	103	0.00
42	T	N-Nitrosodi-n-butylamine	60.000	49.091	18.2	88	0.00
43	P	2-Methylnaphthalene	60.000	59.815	0.3	120	0.00
44	T	1-Methylnaphthalene	60.000	60.445	-0.7	119	0.00
45	I	Acenaphthene-d10	40.000	40.000	0.0	129	0.00
46	T	1,2,4,5-Tetrachlorobenzene	60.000	54.746	8.8	120	0.00
47	P	Hexachlorocyclopentadiene	60.000	30.340	49.4#	65	0.00
48	P	2,4,6-Trichlorophenol	60.000	51.665	13.9	109	0.00
49	P	2,4,5-Trichlorophenol	60.000	52.935	11.8	112	0.00
50	S	2-Fluorobiphenyl	60.000	57.726	3.8	121	0.00
51		Biphenyl	60.000	57.904	3.5	124	0.00

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121408.D
Acq On : 14 Dec 2021 4:54 pm
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 09:37:08 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	P	2-Chloronaphthalene	60.000	57.628	4.0	126	0.00
53	T	1-Chloronaphthalene	60.000	54.883	8.5	113	0.00
54	P	2-Nitroaniline	60.000	48.089	19.9	102	0.00
55	P	3-Nitroaniline	60.000	50.395	16.0	105	0.00
56	T	Pentachlorobenzene	60.000	55.684	7.2	118	0.00
57	T	4-Nitroaniline	60.000	52.539	12.4	111	0.00
58	T	2-Naphthylamine	60.000	38.371	36.0#	82	0.00
59	T	1-Naphthylamine	60.000	31.061	48.2#	66	0.00
60	P	Dimethyl phthalate	60.000	58.594	2.3	124	0.00
61	P	Acenaphthylene	60.000	56.814	5.3	120	0.00
62	P	2,6-Dinitrotoluene	60.000	59.867	0.2	123	0.00
63	P	Acenaphthene	60.000	57.834	3.6	124	0.00
64	P	2,4-Dinitrophenol	60.000	48.364	19.4	104	-0.02
65	P	Dibenzofuran	60.000	57.734	3.8	124	0.00
66	P	4-Nitrophenol	60.000	42.681	28.9#	86	0.00
67	P	2,4-Dinitrotoluene	60.000	59.884	0.2	125	0.00
68	T	2,3,4,6-Tetrachlorophenol	60.000	38.613	35.6#	79	0.00
69	P	Diethyl phthalate	60.000	58.679	2.2	123	0.00
70	P	Fluorene	60.000	58.612	2.3	126	0.00
71	P	4-Chlorophenyl phenyl ether	60.000	57.950	3.4	122	0.00
72	S	2,4,6-Tribromophenol	60.000	49.803	17.0	105	0.00
73	I	Phenanthrene-d10	40.000	40.000	0.0	134	0.00
74	P	4,6-Dinitro-2-methylphenol	60.000	38.708	35.5#	78	0.00
75	T	Azobenzene	60.000	58.203	3.0	128	0.00
76	T	1,2-Diphenylhydrazine	60.000	54.450	9.2	119	0.00
77	CCC	Diphenylamine	60.000	55.158	8.1	120	0.00
78	P	N-Nitrosodiphenylamine	60.000	55.332	7.8	120	0.00
79	P	4-Bromophenyl phenyl ether	60.000	54.903	8.5	121	0.00
80	T	Phenacetin	60.000	56.607	5.7	122	0.00
81	P	Hexachlorobenzene	60.000	58.032	3.3	128	0.00
82	P	Atrazine	60.000	50.056	16.6	107	0.00
83	T	4-Aminobiphenyl	60.000	44.954	25.1#	98	0.00
84	P	Pentachlorophenol	60.000	30.485	49.2#	66	0.00
85	T	Pentachloronitrobenzene	60.000	50.124	16.5	109	0.00
86	T	Pronamide	60.000	52.753	12.1	114	0.00
87	P	Phenanthrene	60.000	55.324	7.8	121	0.00
88	P	Anthracene	60.000	55.346	7.8	121	0.00
89	P	Carbazole	60.000	60.858	-1.4	132	0.00
90	P	Di-n-butyl phthalate	60.000	59.134	1.4	128	0.00
91	P	Fluoranthene	60.000	58.327	2.8	126	0.00
92	I	Chrysene-d12	40.000	40.000	0.0	128	0.00
93	P	Pyrene	60.000	60.048	-0.1	126	0.00
94	S	4-Terphenyl-d14	60.000	56.521	5.8	120	0.00
95	T	Benzidine	60.000	25.031	58.3#	52	0.00
96	T	p-Dimethylaminoazobenzene	60.000	56.426	6.0	115	0.00
97	P	Butyl benzyl phthalate	60.000	60.952	-1.6	126	0.00
98	P	Benz(a)anthracene	60.000	58.157	3.1	123	0.00
99	P	3,3'-Dichlorobenzidine	60.000	56.332	6.1	117	0.00
100	P	Chrysene	60.000	56.431	5.9	120	0.00
101	P	Bis(2-ethylhexyl)phthalate	60.000	61.734	-2.9	126	0.00
102	P	Di-n-octyl phthalate	60.000	63.118	-5.2	131	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121408.D
Acq On : 14 Dec 2021 4:54 pm
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 09:37:08 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	60.000	60.960	-1.6	123	0.01
104	I	Perylene-d12	40.000	40.000	0.0	145	0.00
105	P	Benzo[b]fluoranthene	60.000	50.406	16.0	120	0.00
106	P	Benzo[k]fluoranthene	60.000	62.375	-4.0	149	0.01
107	P	Benzo[a]pyrene	60.000	58.994	1.7	138	0.00
108	T	Dibenz(a,j)acridine	60.000	61.803	-3.0	142	0.01
109		Indeno[1,2,3-cd]pyrene	60.000	58.195	3.0	135	0.01
110	P	Dibenz(a,h)anthracene	60.000	59.473	0.9	136	0.01
111	P	Benzo[g,h,i]perylene	60.000	56.407	6.0	134	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

GC/MS QA-QC Check Report

Tune File : C:\MS-9\New\Raw Data\S211214\S21121405.D
Tune Time : 14 Dec 2021 10:53 am

Daily Calibration File : C:\MS-9\New\Raw Data\S211214\S21121405.D

(2FP)	(PHL)	(NBZ)	(FBP)	(DCB)	(NPT)	(ANT)
				45885	181972	101056

(TPH)	(PHN)	(CRY)	(PRY)
	180687	148493	135350

File	Sample	Surrogate Recovery %				Internal Standard Responses		
S21121440.D								
	LCS-327119	54	61	78	89	56012	228786	126043
		80	90			208913	170932	179201
S21121441.D								
	2112C61-00	26	17	54	58	49087	200750	110277
		50	52			195492	158616	155443
S21121442.D								
	2112C61-00	24	15	69	84	48874	196839	105362
		63	85			188093	151220	149012
S21121443.D								
	2112C61-00	20*	13	52	68	55446	229164	126453
		61	85			223009	170317	171571
S21121444.D								
	2112C61-00	33	19	76	80	54990	230130	124524
		72	90			224177	169998	175972
S21121449.D								
	2112C29-01	47	31	58	71	58843	243715	132775
		62	82			238431	178403	194112
S21121450.D								
	2112A10-00	53	37	66	83	50241	203966	111365
		67	86			200499	154013	161636
S21121451.D								
	2112C45-00	47	34	67	76	65400	269718	152865
		65	81			265354	206707	219082
S21121452.D								
	2112C45-00	56	40	66	82	54702	236024	127723
		70	90			222020	172496	182644
S21121453.D								
	MB-327269	53	52	55	73	44966	178661	98143
		60	81			170925	134693	132443
S21121454.D								
	LCS-327269	74	79	82	97	43276	171981	93516
		80	93			167226	136617	126085
S21121455.D								
	2112G62-00	55	55	54	67	51007	207654	112655
		63	66			200032	146561	165871
S21121456.D								
	MB-327248	55	38	66	79	54143	220048	121680
		68	81			218356	166798	172093
S21121457.D								

	LCS-327248	54	42	80	91	48366	193513	106977
		77	92			189672	152720	154824
S21121458.D								
	2112G62-00	28	16	64	74	63282	256410	136061
		62	71			247135	189365	209502
S21121459.D								
	2112G62-00	34	21	67	73	64489	264537	147948
		66	71			262124	204214	225325
S21121460.D								
	2112G62-00	35	24	76	82	59837	240661	131374
		72	80			230593	179387	191849
S21121461.D								
	2112G62-00	55	32	73	79	56476	240872	130260
		75	76			236875	178913	192372
S21121462.D								
	2112D95-00	62	55	75	87	59222	242172	132622
		69	92			237576	181597	192273
S21121463.D								
	2112E60-00	0*	0*	0*	75	43691	188654	74811
		89	89			168618	145237	154624
S21121464.D								
	2112E60-00	73	65	75	86	50127	207107	113980
		74	90			202025	156987	168682
S21121465.D								
	2112C13-00	76	68	79	91	49056	200738	108857
		77	94			195650	152061	163560
S21121466.D								
	2112A79-00	64	57	77	92	51453	209071	113660
		67	96			207365	160433	173741
S21121467.D								
(fails)	MB-327197	67	63	62	77	46830	189772	103480
		73	88			186711	148487	151218
S21121468.D								
(fails)	LCS-327197	85	88	93	110	40105	158630	85048
		94	108			152284	125087	127886
S21121469.D								
(fails)	2112F13-01	59	58	53	68	44308	186819	102933
		63	81			180391	137155	149535
S21121470.D								
(fails)	2112F13-01	68	71	73	83	48486	193427	107397
		72	89			186283	148391	155668
S21121471.D								
(fails)	2112F13-01	62	72	79	92	47925	187574	103994
		77	94			181614	143529	149755
S21121472.D								
(fails)	2112692-00	61	62	64	82	47562	192317	107096
		68	91			190668	145232	157341
S21121473.D								
(fails)	2112822-00	54	60	58	74	47015	192330	105309
		61	81			184352	142087	145344
S21121474.D								
(fails)	2112A80-00	52	50	51	66	52795	213527	114299
		59	73			210994	159471	168613

S21121475.D								
(fails)	2112A80-00	64	63	60	81	44609	181737	101473
		72	91			179682	137964	144129
S21121476.D								
(fails)	2112A80-00	63	64	65	81	48491	199511	112160
		76	93			196057	150993	156553
S21121477.D								
(fails)	2112A80-00	64	65	61	82	51240	209726	113678
		70	87			201761	153219	162944
S21121490.D								
	2112C96-01	30	18	74	90	51467	214339	118421
		67	92			211325	162822	173280

(fails) - fails 12hr time check * - fails criteria

Created: Wed Dec 15 10:25:48 2021 MS-9

GC/MS QA-QC Check Report

Tune File : C:\MS-9\New\Raw Data\S211214\S21121408.D
Tune Time : 14 Dec 2021 4:54 pm

Daily Calibration File : C:\MS-9\New\Raw Data\S211214\S21121408.D

		(2FP)	(PHL)	(NBZ)	(FBP)	(DCB)	(NPT)	(ANT)
						48525	192443	110687
			(TPH)			(PHN)	(CRY)	(PRY)
						197614	155447	151626

File	Sample	Surrogate Recovery %				Internal Standard Responses		
S21121439.D								
	2112C96-01	11*	8*	65	73	50932	213721	119683
		35	87			210842	164251	173786
S21121440.D								
	LCS-327119	54	61	78	89	56012	228786	126043
		80	90			208913	170932	179201
S21121441.D								
(fails)	2112C61-00	26	17	54	58	49087	200750	110277
		50	52			195492	158616	155443
S21121442.D								
(fails)	2112C61-00	24	15	69	84	48874	196839	105362
		63	85			188093	151220	149012
S21121443.D								
(fails)	2112C61-00	20*	13	52	68	55446	229164	126453
		61	85			223009	170317	171571
S21121444.D								
(fails)	2112C61-00	33	19	76	80	54990	230130	124524
		72	90			224177	169998	175972
S21121449.D								
	2112C29-01	47	31	58	71	58843	243715	132775
		62	82			238431	178403	194112
S21121450.D								
	2112A10-00	53	37	66	83	50241	203966	111365
		67	86			200499	154013	161636
S21121451.D								
	2112C45-00	47	34	67	76	65400	269718	152865
		65	81			265354	206707	219082
S21121452.D								
	2112C45-00	56	40	66	82	54702	236024	127723
		70	90			222020	172496	182644
S21121453.D								
(fails)	MB-327269	53	52	55	73	44966	178661	98143
		60	81			170925	134693	132443
S21121454.D								
(fails)	LCS-327269	74	79	82	97	43276	171981	93516
		80	93			167226	136617	126085
S21121455.D								
(fails)	2112G62-00	55	55	54	67	51007	207654	112655
		63	66			200032	146561	165871
S21121456.D								
(fails)	MB-327248	55	38	66	79	54143	220048	121680
		68	81			218356	166798	172093

S21121457.D								
(fails)	LCS-327248	54	42	80	91	48366	193513	106977
		77	92			189672	152720	154824
S21121458.D								
(fails)	2112G62-00	28	16	64	74	63282	256410	136061
		62	71			247135	189365	209502
S21121459.D								
	2112G62-00	34	21	67	73	64489	264537	147948
		66	71			262124	204214	225325
S21121460.D								
	2112G62-00	35	24	76	82	59837	240661	131374
		72	80			230593	179387	191849
S21121461.D								
(fails)	2112G62-00	55	32	73	79	56476	240872	130260
		75	76			236875	178913	192372
S21121462.D								
(fails)	2112D95-00	62	55	75	87	59222	242172	132622
		69	92			237576	181597	192273
S21121463.D								
	2112E60-00	0*	0*	0*	75	43691	188654	74811
		89	89			168618	145237	154624
S21121464.D								
	2112E60-00	73	65	75	86	50127	207107	113980
		74	90			202025	156987	168682
S21121465.D								
	2112C13-00	76	68	79	91	49056	200738	108857
		77	94			195650	152061	163560
S21121466.D								
	2112A79-00	64	57	77	92	51453	209071	113660
		67	96			207365	160433	173741
S21121467.D								
	MB-327197	67	63	62	77	46830	189772	103480
		73	88			186711	148487	151218
S21121468.D								
	LCS-327197	85	88	93	110	40105	158630	85048
		94	108			152284	125087	127886
S21121469.D								
	2112F13-01	59	58	53	68	44308	186819	102933
		63	81			180391	137155	149535
S21121470.D								
	2112F13-01	68	71	73	83	48486	193427	107397
		72	89			186283	148391	155668
S21121471.D								
	2112F13-01	62	72	79	92	47925	187574	103994
		77	94			181614	143529	149755
S21121472.D								
	2112692-00	61	62	64	82	47562	192317	107096
		68	91			190668	145232	157341
S21121473.D								
	2112822-00	54	60	58	74	47015	192330	105309
		61	81			184352	142087	145344
S21121474.D								

	2112A80-00	52	50	51	66	52795	213527	114299
		59	73			210994	159471	168613
S21121475.D								
	2112A80-00	64	63	60	81	44609	181737	101473
		72	91			179682	137964	144129
S21121476.D								
	2112A80-00	63	64	65	81	48491	199511	112160
		76	93			196057	150993	156553
S21121477.D								
	2112A80-00	64	65	61	82	51240	209726	113678
		70	87			201761	153219	162944
S21121490.D								
	2112C96-01	30	18	74	90	51467	214339	118421
		67	92			211325	162822	173280

(fails) - fails 12hr time check * - fails criteria

Created: Wed Dec 15 10:29:37 2021 MS-9

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121405.D
Acq On : 14 Dec 2021 10:53 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 13:58:55 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	3.925	152	45885	40.00	ng		0.00
23) Naphthalene-d8	...	5.557	136	181972	40.00	ng		0.00
45) Acenaphthene-d10	...	7.609	164	101056	40.00	ng		0.00
73) Phenanthrene-d10	...	9.264	188	180687	40.00	ng		0.00
92) Chrysene-d12	...	12.201	240	148493	40.00	ng		0.00
104) Perylene-d12	...	13.677	264	135350	40.00	ng		-0.01
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.551	112	82417	52.33	ng		0.02
Spiked Amount 100.000	Range 21 - 119		Recovery = 52.33%					
9) Phenol-d5	...	3.712	99	112852	58.58	ng		0.03
Spiked Amount 100.000	Range 10 - 121		Recovery = 58.58%					
24) Nitrobenzene-d5	...	4.694	82	91634	54.35	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 108.70%					
50) 2-Fluorobiphenyl	...	6.883	172	197078	59.30	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 118.60%#					
72) 2,4,6-Tribromophenol	...	8.529	330	17060	50.35	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 50.35%					
94) 4-Terphenyl-d14	...	11.066	244	212913	56.31	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 112.62%					
Target Compounds								Qvalue
2) Pyridine	...	1.251	79	101445	52.69	ng		95
3) 2-Picoline	...	1.853	93	104379	55.29	ng		95
4) Methyl methanesulfonate	...	2.304	80	38596	41.01	ng		92
6) Ethyl methanesulfonate	...	3.062	79	74795	52.62	ng		95
7) Benzaldehyde	...	3.391	105	64299	59.53	ng		97
8) Aniline	...	3.556	66	43480	37.30	ng	#	89
10) Phenol	...	3.729	94	119796	52.35	ng		89
11) Bis(2-chloroethyl)ether	...	3.641	93	88470	54.87	ng		99
12) 2-Chlorophenol	...	3.735	128	103320	60.40	ng		98
13) 1,3-Dichlorobenzene	...	3.846	146	109397	57.76	ng		97
14) 1,4-Dichlorobenzene	...	3.945	146	109311	57.42	ng		95
15) 1,2-Dichlorobenzene	...	4.146	146	106795	59.15	ng		96
16) Benzyl alcohol	...	4.232	108	56320	49.39	ng	#	68
17) Bis(2-chloroisopropyl)ether	...	4.362	45	130438	42.88	ng	#	61
18) 2-Methylphenol	...	4.479	107	78918	57.55	ng	#	80
19) 3,4-Methylphenol	...	4.706	107	206482	117.01	ng	#	81
20) N-Nitrosodi-n-propylamine	...	4.541	70	66167	55.71	ng		99
21) N-Nitrosodimethylamine	...	1.249	42	51159	48.22	ng		99
22) Hexachloroethane	...	4.561	117	41515	56.77	ng		96
25) Acetophenone	...	4.510	105	257663	112.67	ng		99
26) Nitrobenzene	...	4.717	123	47427	56.42	ng	#	25
27) N-Nitrosopiperidine	...	4.910	114	48833	57.50	ng		96
28) Isophorone	...	5.049	82	183136	54.89	ng		100
29) 2-Nitrophenol	...	5.128	139	51449	58.84	ng		96
30) 2,4-Dimethylphenol	...	5.327	122	83214	55.64	ng		97
31) Bis(2-chloroethoxy)methane	...	5.356	93	107696	55.18	ng		99
32) 2,4-Dichlorophenol	...	5.523	162	76756	57.84	ng		98
33) 1,2,4-Trichlorobenzene	...	5.509	180	85543	58.14	ng		99
34) Naphthalene	...	5.583	128	303267	59.70	ng		99
35) Benzoic acid	...	0.000	105	0	N.D.	d		
36) 2,6-Dichlorophenol	...	5.742	162	74694	57.74	ng		96
37) 4-Chloroaniline	...	5.742	127	104702	50.58	ng		96
38) Hexachlorobutadiene	...	5.764	225	40564	56.58	ng		99
39) a,a-Dimethylphenethylamine	...	5.645	58	235186	43.16	ng		75
40) Caprolactam	...	6.190	113	32634	62.20	ng		98

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121405.D
Acq On : 14 Dec 2021 10:53 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 13:58:55 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.477	107	75963	54.54	ng		94
42) N-Nitrosodi-n-butylamine	6.153	84	59850	47.13	ng		97
43) 2-Methylnaphthalene	6.426	141	170420	58.75	ng		99
44) 1-Methylnaphthalene	6.536	141	163497	58.29	ng		95
46) 1,2,4,5-Tetrachlorobenzene	6.633	216	74944	55.49	ng		99
47) Hexachlorocyclopentadiene	6.616	237	42036	51.10	ng		94
48) 2,4,6-Trichlorophenol	6.843	196	46842	49.91	ng		97
49) 2,4,5-Trichlorophenol	6.948	196	45199	45.44	ng	#	93
51) Biphenyl	6.985	154	234688	59.08	ng		97
52) 2-Chloronaphthalene	6.988	162	177653	57.91	ng		96
53) 1-Chloronaphthalene	7.005	162	156311	57.81	ng		99
54) 2-Nitroaniline	7.189	65	49196	46.00	ng		90
55) 3-Nitroaniline	7.677	138	50619	51.12	ng	#	93
56) Pentachlorobenzene	7.811	250	62173	55.54	ng		99
57) 4-Nitroaniline	8.381	138	50493	51.95	ng		92
58) 2-Naphthylamine	7.964	143	122466	38.21	ng		95
59) 1-Naphthylamine	8.063	143	103662	31.06	ng		97
60) Dimethyl phthalate	7.393	163	200024	60.45	ng		100
61) Acenaphthylene	7.447	152	278104	57.49	ng		99
62) 2,6-Dinitrotoluene	7.459	165	45724	60.68	ng		96
63) Acenaphthene	7.643	154	176477	60.84	ng		98
64) 2,4-Dinitrophenol	7.856	184	13922	38.47	ng		99
65) Dibenzofuran	7.850	168	249393	58.84	ng		100
66) 4-Nitrophenol	8.123	109	21606	40.50	ng		95
67) 2,4-Dinitrotoluene	7.930	165	61515	59.27	ng	#	82
68) 2,3,4,6-Tetrachlorophenol	8.066	232	30990	41.93	ng		95
69) Diethyl phthalate	8.191	149	203707	60.00	ng		99
70) Fluorene	8.231	166	208954	59.28	ng		98
71) 4-Chlorophenyl phenyl ether	8.256	204	86603	58.85	ng		99
74) 4,6-Dinitro-2-methylphenol	8.398	198	19741	35.73	ng	#	1
75) Azobenzene	8.435	77	216945	59.79	ng		92
76) 1,2-Diphenylhydrazine	8.435	182	49160	56.83	ng	#	80
77) Diphenylamine	8.415	170	34977	55.54	ng	#	94
78) N-Nitrosodiphenylamine	8.418	168	175297	56.04	ng		99
79) 4-Bromophenyl phenyl ether	8.793	248	50222	55.73	ng		99
80) Phenacetin	8.861	108	107083	56.29	ng		96
81) Hexachlorobenzene	8.849	284	49944	58.39	ng		98
82) Atrazine	9.065	200	42890	49.73	ng		97
83) 4-Aminobiphenyl	9.111	169	151624	39.81	ng		98
84) Pentachlorophenol	9.139	266	21681	34.12	ng		95
85) Pentachloronitrobenzene	9.099	237	19962	51.31	ng		95
86) Pronamide	9.230	173	73337	53.37	ng		99
87) Phenanthrene	9.292	178	300470	56.36	ng		100
88) Anthracene	9.349	178	301817	56.23	ng		99
89) Carbazole	9.587	167	269630	59.57	ng		98
90) Di-n-butyl phthalate	10.005	149	369540	59.80	ng		99
91) Fluoranthene	10.609	202	324553	58.26	ng		97
93) Pyrene	10.850	202	331715	57.55	ng		99
95) Benzidine	10.833	184	77897	30.12	ng		90
96) p-Dimethylaminoazobenzene	11.236	225	55534	54.74	ng		91
97) Butyl benzyl phthalate	11.645	149	164052	59.18	ng		96
98) Benz(a)anthracene	12.193	228	283763	56.91	ng		99
99) 3,3'-Dichlorobenzidine	12.207	252	92736	53.10	ng		97
100) Chrysene	12.227	228	281324	57.12	ng		99
101) Bis(2-ethylhexyl)phthalate	12.309	149	217832	59.05	ng		96
102) Di-n-octyl phthalate	12.990	149	388786	60.58	ng		99
103) 3-Methylcholanthrene	13.953	268	82126	56.86	ng		96

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121405.D
Acq On : 14 Dec 2021 10:53 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 13:58:55 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

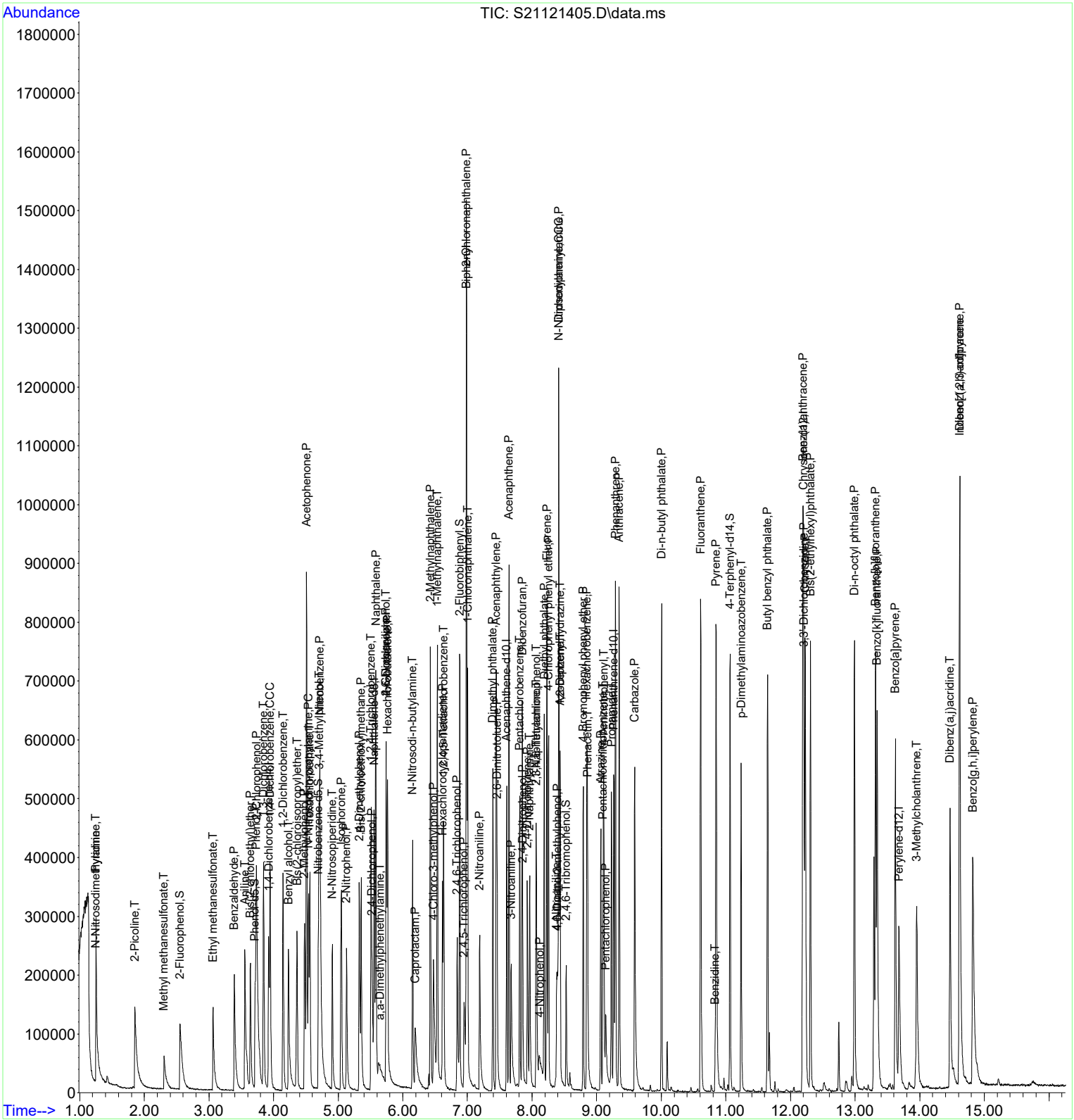
Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene	...	13.317	252	249579	50.81	ng		95
106) Benzo[k]fluoranthene	...	13.339	252	287789	65.57	ng		96
107) Benzo[a]pyrene	...	13.623	252	255782	60.54	ng		97
108) Dibenz(a,j)acridine	...	14.469	279	214843	60.54	ng		100
109) Indeno[1,2,3-cd]pyrene	...	14.617	276	293335	58.48	ng	#	79
110) Dibenz(a,h)anthracene	...	14.620	278	247656	60.37	ng		93
111) Benzo[g,h,i]perylene	...	14.821	276	242624	58.54	ng		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121405.D
Acq On : 14 Dec 2021 10:53 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 13:58:55 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121408.D
Acq On : 14 Dec 2021 4:54 pm
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 09:37:08 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	3.925	152	48525	40.00	ng		0.00
23) Naphthalene-d8	...	5.560	136	192443	40.00	ng		0.00
45) Acenaphthene-d10	...	7.612	164	110687	40.00	ng		0.00
73) Phenanthrene-d10	...	9.269	188	197614	40.00	ng		0.00
92) Chrysene-d12	...	12.207	240	155447	40.00	ng		0.00
104) Perylene-d12	...	13.686	264	151626	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.560	112	90580	54.38	ng		0.00
Spiked Amount 100.000	Range 21 - 119			Recovery = 54.38%				
9) Phenol-d5	...	3.726	99	118618	58.23	ng		0.01
Spiked Amount 100.000	Range 10 - 121			Recovery = 58.23%				
24) Nitrobenzene-d5	...	4.694	82	98012	54.97	ng		0.00
Spiked Amount 50.000	Range 34 - 114			Recovery = 109.94%				
50) 2-Fluorobiphenyl	...	6.883	172	210133	57.73	ng		0.00
Spiked Amount 50.000	Range 43 - 116			Recovery = 115.46%				
72) 2,4,6-Tribromophenol	...	8.534	330	18462	49.80	ng		0.00
Spiked Amount 100.000	Range 10 - 123			Recovery = 49.80%				
94) 4-Terphenyl-d14	...	11.072	244	223709	56.52	ng		0.00
Spiked Amount 50.000	Range 33 - 141			Recovery = 113.04%				
Target Compounds								Qvalue
2) Pyridine	...	1.251	79	100967	49.59	ng		99
3) 2-Picoline	...	1.853	93	109852	55.02	ng		99
4) Methyl methanesulfonate	...	2.304	80	43472	43.68	ng		98
6) Ethyl methanesulfonate	...	3.065	79	78893	52.48	ng		98
7) Benzaldehyde	...	3.389	105	70895	62.07	ng		98
8) Aniline	...	3.559	66	45632	37.01	ng	#	89
10) Phenol	...	3.743	94	122588	50.66	ng		90
11) Bis(2-chloroethyl)ether	...	3.641	93	92262	54.11	ng		99
12) 2-Chlorophenol	...	3.741	128	108635	60.05	ng		96
13) 1,3-Dichlorobenzene	...	3.846	146	115008	57.42	ng		96
14) 1,4-Dichlorobenzene	...	3.948	146	113041	56.15	ng		97
15) 1,2-Dichlorobenzene	...	4.146	146	112724	59.04	ng		96
16) Benzyl alcohol	...	4.234	108	61658	51.13	ng	#	67
17) Bis(2-chloroisopropyl)ether	...	4.365	45	140212	43.59	ng	#	61
18) 2-Methylphenol	...	4.487	107	83705	57.72	ng	#	79
19) 3,4-Methylphenol	...	4.711	107	214856	115.14	ng	#	82
20) N-Nitrosodi-n-propylamine	...	4.544	70	69496	55.33	ng		99
21) N-Nitrosodimethylamine	...	1.249	42	50083	44.63	ng		99
22) Hexachloroethane	...	4.564	117	42518	54.98	ng		99
25) Acetophenone	...	4.513	105	271650	112.32	ng		99
26) Nitrobenzene	...	4.720	123	50755	57.09	ng	#	29
27) N-Nitrosopiperidine	...	4.913	114	51840	57.72	ng		96
28) Isophorone	...	5.043	82	195257	55.34	ng		100
29) 2-Nitrophenol	...	5.131	139	53764	58.14	ng		97
30) 2,4-Dimethylphenol	...	5.333	122	87950	55.60	ng		99
31) Bis(2-chloroethoxy)methane	...	5.358	93	108463	52.55	ng		98
32) 2,4-Dichlorophenol	...	5.529	162	78489	55.93	ng		90
33) 1,2,4-Trichlorobenzene	...	5.512	180	90982	58.48	ng		98
34) Naphthalene	...	5.583	128	320461	59.65	ng		100
35) Benzoic acid	...	0.000	105	0	N.D.			
36) 2,6-Dichlorophenol	...	5.744	162	79514	58.12	ng		96
37) 4-Chloroaniline	...	5.744	127	108574	49.60	ng		96
38) Hexachlorobutadiene	...	5.764	225	42454	56.00	ng		97
39) a,a-Dimethylphenethylamine	...	5.688	58	264599	45.91	ng		70
40) Caprolactam	...	6.213	113	35125	63.30	ng		96

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121408.D
Acq On : 14 Dec 2021 4:54 pm
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 09:37:08 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.482	107	77388	52.54	ng		99
42) N-Nitrosodi-n-butylamine	6.156	84	65929	49.09	ng		94
43) 2-Methylnaphthalene	6.428	141	183481	59.81	ng		99
44) 1-Methylnaphthalene	6.536	141	179297	60.45	ng		97
46) 1,2,4,5-Tetrachlorobenzene	6.633	216	80981	54.75	ng		98
47) Hexachlorocyclopentadiene	6.619	237	27338	30.34	ng	#	89
48) 2,4,6-Trichlorophenol	6.846	196	53113	51.66	ng		97
49) 2,4,5-Trichlorophenol	6.953	196	57672	52.93	ng		98
51) Biphenyl	6.988	154	251954	57.90	ng		99
52) 2-Chloronaphthalene	6.988	162	193652	57.63	ng		97
53) 1-Chloronaphthalene	7.007	162	162550	54.88	ng		100
54) 2-Nitroaniline	7.192	65	56329	48.09	ng		95
55) 3-Nitroaniline	7.680	138	54657	50.40	ng	#	96
56) Pentachlorobenzene	7.813	250	68271	55.68	ng		99
57) 4-Nitroaniline	8.390	138	55934	52.54	ng		90
58) 2-Naphthylamine	7.970	143	134699	38.37	ng		95
59) 1-Naphthylamine	8.066	143	113560	31.06	ng		98
60) Dimethyl phthalate	7.399	163	212359	58.59	ng		99
61) Acenaphthylene	7.447	152	301011	56.81	ng		100
62) 2,6-Dinitrotoluene	7.462	165	49410	59.87	ng	#	71
63) Acenaphthene	7.646	154	183752	57.83	ng		99
64) 2,4-Dinitrophenol	7.839	184	21081	48.36	ng		99
65) Dibenzofuran	7.853	168	268051	57.73	ng		98
66) 4-Nitrophenol	8.126	109	24941	42.68	ng		88
67) 2,4-Dinitrotoluene	7.933	165	68072	59.88	ng	#	83
68) 2,3,4,6-Tetrachlorophenol	8.072	232	31259	38.61	ng		100
69) Diethyl phthalate	8.194	149	218198	58.68	ng		99
70) Fluorene	8.234	166	226287	58.61	ng		99
71) 4-Chlorophenyl phenyl ether	8.259	204	93405	57.95	ng		98
74) 4,6-Dinitro-2-methylphenol	8.401	198	23967	38.71	ng		95
75) Azobenzene	8.438	77	230957	58.20	ng		91
76) 1,2-Diphenylhydrazine	8.438	182	51513	54.45	ng	#	77
77) Diphenylamine	8.421	170	37992	55.16	ng		97
78) N-Nitrosodiphenylamine	8.421	168	189310	55.33	ng		99
79) 4-Bromophenyl phenyl ether	8.798	248	54109	54.90	ng		99
80) Phenacetin	8.866	108	117781	56.61	ng		96
81) Hexachlorobenzene	8.855	284	54287	58.03	ng		98
82) Atrazine	9.074	200	47218	50.06	ng		96
83) 4-Aminobiphenyl	9.116	169	187260	44.95	ng		98
84) Pentachlorophenol	9.147	266	21187	30.48	ng		98
85) Pentachloronitrobenzene	9.105	237	21326	50.12	ng		96
86) Pronamide	9.235	173	79283	52.75	ng		98
87) Phenanthrene	9.295	178	322555	55.32	ng		99
88) Anthracene	9.355	178	324883	55.35	ng		98
89) Carbazole	9.593	167	301286	60.86	ng		98
90) Di-n-butyl phthalate	10.010	149	399631	59.13	ng		99
91) Fluoranthene	10.615	202	355384	58.33	ng		98
93) Pyrene	10.856	202	362319	60.05	ng		99
95) Benzidine	10.839	184	67769	25.03	ng		95
96) p-Dimethylaminoazobenzene	11.245	225	59923	56.43	ng		94
97) Butyl benzyl phthalate	11.654	149	176867	60.95	ng		96
98) Benz(a)anthracene	12.199	228	303568	58.16	ng		99
99) 3,3'-Dichlorobenzidine	12.216	252	102997	56.33	ng		98
100) Chrysene	12.235	228	290948	56.43	ng		99
101) Bis(2-ethylhexyl)phthalate	12.318	149	238387	61.73	ng		95
102) Di-n-octyl phthalate	12.999	149	424042	63.12	ng		100
103) 3-Methylcholanthrene	13.964	268	92164	60.96	ng		97

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121408.D
Acq On : 14 Dec 2021 4:54 pm
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 09:37:08 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

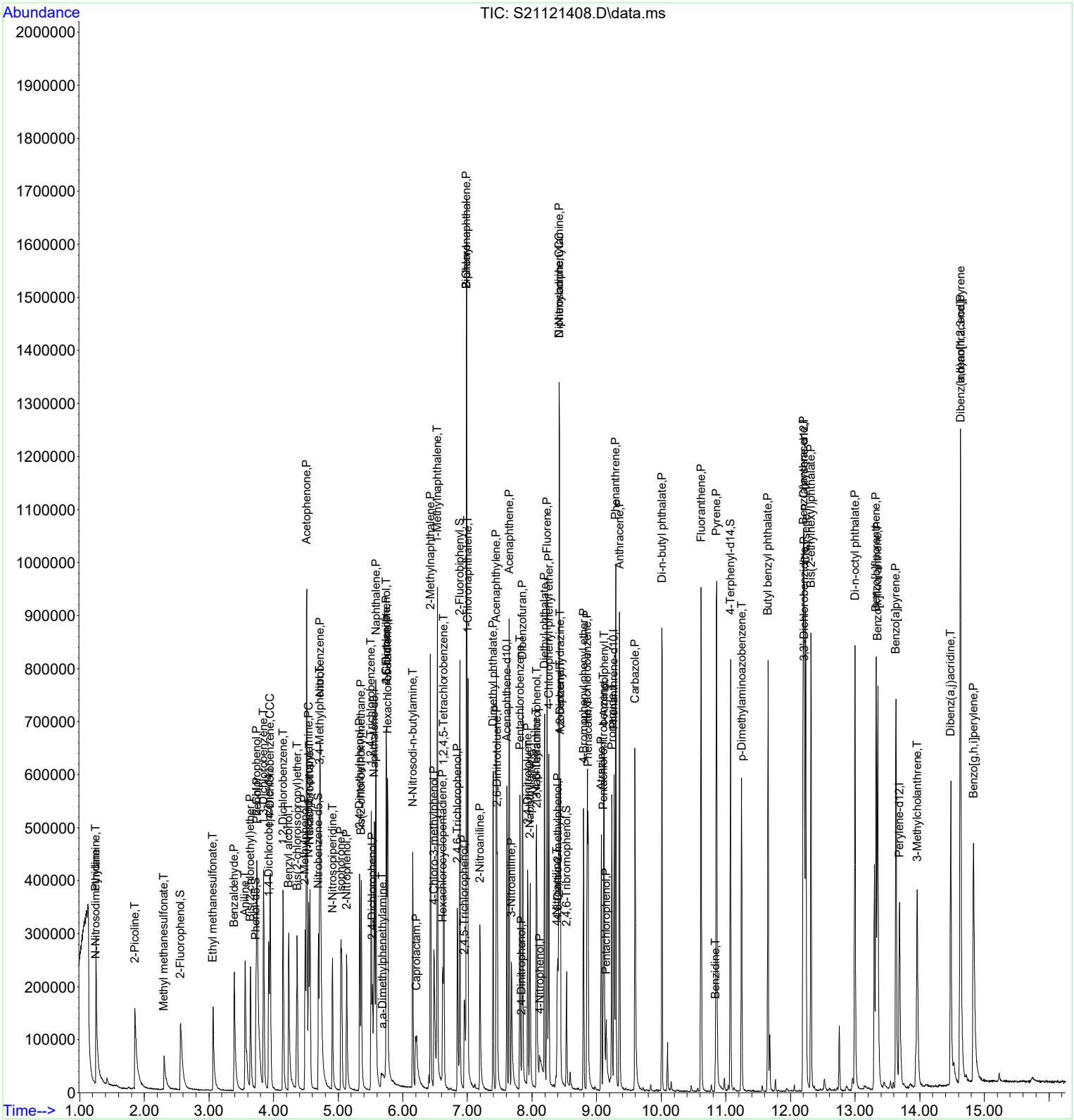
Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene	...	13.325	252	277383	50.41	ng		96
106) Benzo[k]fluoranthene	...	13.351	252	306664	62.37	ng		96
107) Benzo[a]pyrene	...	13.632	252	279226	58.99	ng		96
108) Dibenz(a,j)acridine	...	14.480	279	245684	61.80	ng		100
109) Indeno[1,2,3-cd]pyrene	...	14.631	276	326996	58.20	ng	#	79
110) Dibenz(a,h)anthracene	...	14.634	278	273329	59.47	ng		94
111) Benzo[g,h,i]perylene	...	14.832	276	261895	56.41	ng		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121408.D
Acq On : 14 Dec 2021 4:54 pm
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 09:37:08 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121456.D
Acq On : 14 Dec 2021 2:43 pm
Operator : YH
Sample : MB-327248
Misc : MBLK 8270_TCL4.2_W
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Dec 14 15:22:08 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.928	152	54143	40.00	ng	0.00
23) Naphthalene-d8	5.560	136	220048	40.00	ng	0.00
45) Acenaphthene-d10	7.612	164	121680	40.00	ng	0.00
73) Phenanthrene-d10	9.267	188	218356	40.00	ng	0.00
92) Chrysene-d12	12.204	240	166798	40.00	ng	0.00
104) Perylene-d12	13.683	264	172093	40.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.543	112	102949	55.39	ng	0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 55.39%			
9) Phenol-d5	3.729	99	87069	38.30	ng	0.02
Spiked Amount 100.000	Range 10 - 121		Recovery = 38.30%			
24) Nitrobenzene-d5	4.700	82	67270	32.99	ng	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 65.98%			
50) 2-Fluorobiphenyl	6.882	172	157624	39.39	ng	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 78.78%			
72) 2,4,6-Tribromophenol	8.531	330	28276	67.66	ng	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 67.66%			
94) 4-Terphenyl-d14	11.069	244	172528	40.62	ng	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 81.24%			

Target Compounds				Qvalue
2) Pyridine	0.000	79	0	N.D.
3) 2-Picoline	0.000	93	0	N.D.
4) Methyl methanesulfonate	0.000	80	0	N.D.
6) Ethyl methanesulfonate	0.000	79	0	N.D.
7) Benzaldehyde	0.000	105	0	N.D.
8) Aniline	0.000	66	0	N.D.
10) Phenol	0.000	94	0	N.D.
11) Bis(2-chloroethyl)ether	0.000	93	0	N.D.
12) 2-Chlorophenol	0.000	128	0	N.D.
13) 1,3-Dichlorobenzene	0.000	146	0	N.D.
14) 1,4-Dichlorobenzene	0.000	146	0	N.D.
15) 1,2-Dichlorobenzene	0.000	146	0	N.D.
16) Benzyl alcohol	0.000	108	0	N.D.
17) Bis(2-chloroisopropyl)ether	0.000	45	0	N.D.
18) 2-Methylphenol	0.000	107	0	N.D.
19) 3,4-Methylphenol	0.000	107	0	N.D.
20) N-Nitrosodi-n-propylamine	0.000	70	0	N.D.
21) N-Nitrosodimethylamine	0.000	42	0	N.D.
22) Hexachloroethane	0.000	117	0	N.D.
25) Acetophenone	0.000	105	0	N.D.
26) Nitrobenzene	0.000	123	0	N.D.
27) N-Nitrosopiperidine	0.000	114	0	N.D.
28) Isophorone	0.000	82	0	N.D.
29) 2-Nitrophenol	0.000	139	0	N.D.
30) 2,4-Dimethylphenol	0.000	122	0	N.D.
31) Bis(2-chloroethoxy)methane	0.000	93	0	N.D.
32) 2,4-Dichlorophenol	0.000	162	0	N.D.
33) 1,2,4-Trichlorobenzene	0.000	180	0	N.D.
34) Naphthalene	0.000	128	0	N.D.
35) Benzoic acid	0.000	105	0	N.D.
36) 2,6-Dichlorophenol	0.000	162	0	N.D.
37) 4-Chloroaniline	0.000	127	0	N.D.
38) Hexachlorobutadiene	0.000	225	0	N.D.
39) a,a-Dimethylphenethylamine	0.000	58	0	N.D.
40) Caprolactam	0.000	113	0	N.D.

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121456.D
Acq On : 14 Dec 2021 2:43 pm
Operator : YH
Sample : MB-327248
Misc : MBLK 8270_TCL4.2_W
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Dec 14 15:22:08 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 4-Chloro-3-methylphenol	...	0.000	107	0		N.D.
42) N-Nitrosodi-n-butylamine	...	0.000	84	0		N.D.
43) 2-Methylnaphthalene	...	0.000	141	0		N.D.
44) 1-Methylnaphthalene	...	0.000	141	0		N.D.
46) 1,2,4,5-Tetrachlorobenzene	...	0.000	216	0		N.D.
47) Hexachlorocyclopentadiene	...	0.000	237	0		N.D.
48) 2,4,6-Trichlorophenol	...	0.000	196	0		N.D.
49) 2,4,5-Trichlorophenol	...	0.000	196	0		N.D.
51) Biphenyl	...	0.000	154	0		N.D.
52) 2-Chloronaphthalene	...	0.000	162	0		N.D.
53) 1-Chloronaphthalene	...	0.000	162	0		N.D.
54) 2-Nitroaniline	...	0.000	65	0		N.D.
55) 3-Nitroaniline	...	0.000	138	0		N.D.
56) Pentachlorobenzene	...	0.000	250	0		N.D.
57) 4-Nitroaniline	...	0.000	138	0		N.D.
58) 2-Naphthylamine	...	0.000	143	0		N.D.
59) 1-Naphthylamine	...	0.000	143	0		N.D.
60) Dimethyl phthalate	...	0.000	163	0		N.D.
61) Acenaphthylene	...	0.000	152	0		N.D.
62) 2,6-Dinitrotoluene	...	0.000	165	0		N.D.
63) Acenaphthene	...	0.000	154	0		N.D.
64) 2,4-Dinitrophenol	...	0.000	184	0		N.D.
65) Dibenzofuran	...	0.000	168	0		N.D.
66) 4-Nitrophenol	...	0.000	109	0		N.D.
67) 2,4-Dinitrotoluene	...	0.000	165	0		N.D.
68) 2,3,4,6-Tetrachlorophenol	...	0.000	232	0		N.D.
69) Diethyl phthalate	...	0.000	149	0		N.D.
70) Fluorene	...	0.000	166	0		N.D.
71) 4-Chlorophenyl phenyl ether	...	0.000	204	0		N.D.
74) 4,6-Dinitro-2-methylphenol	...	0.000	198	0		N.D.
75) Azobenzene	...	0.000	77	0		N.D.
76) 1,2-Diphenylhydrazine	...	0.000	182	0		N.D.
77) Diphenylamine	...	0.000	170	0		N.D.
78) N-Nitrosodiphenylamine	...	0.000	168	0		N.D.
79) 4-Bromophenyl phenyl ether	...	0.000	248	0		N.D.
80) Phenacetin	...	0.000	108	0		N.D.
81) Hexachlorobenzene	...	0.000	284	0		N.D.
82) Atrazine	...	0.000	200	0		N.D.
83) 4-Aminobiphenyl	...	0.000	169	0		N.D.
84) Pentachlorophenol	...	0.000	266	0		N.D.
85) Pentachloronitrobenzene	...	0.000	237	0		N.D.
86) Pronamide	...	0.000	173	0		N.D.
87) Phenanthrene	...	0.000	178	0		N.D.
88) Anthracene	...	0.000	178	0		N.D.
89) Carbazole	...	0.000	167	0		N.D.
90) Di-n-butyl phthalate	...	0.000	149	0		N.D.
91) Fluoranthene	...	0.000	202	0		N.D.
93) Pyrene	...	0.000	202	0		N.D.
95) Benzidine	...	0.000	184	0		N.D.
96) p-Dimethylaminoazobenzene	...	0.000	225	0		N.D.
97) Butyl benzyl phthalate	...	0.000	149	0		N.D.
98) Benz(a)anthracene	...	0.000	228	0		N.D.
99) 3,3'-Dichlorobenzidine	...	0.000	252	0		N.D.
100) Chrysene	...	0.000	228	0		N.D.
101) Bis(2-ethylhexyl)phthalate	...	0.000	149	0		N.D.
102) Di-n-octyl phthalate	...	0.000	149	0		N.D.
103) 3-Methylcholanthrene	...	0.000	268	0		N.D.

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Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121456.D
Acq On : 14 Dec 2021 2:43 pm
Operator : YH
Sample : MB-327248
Misc : MBLK 8270_TCL4.2_W
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Dec 14 15:22:08 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

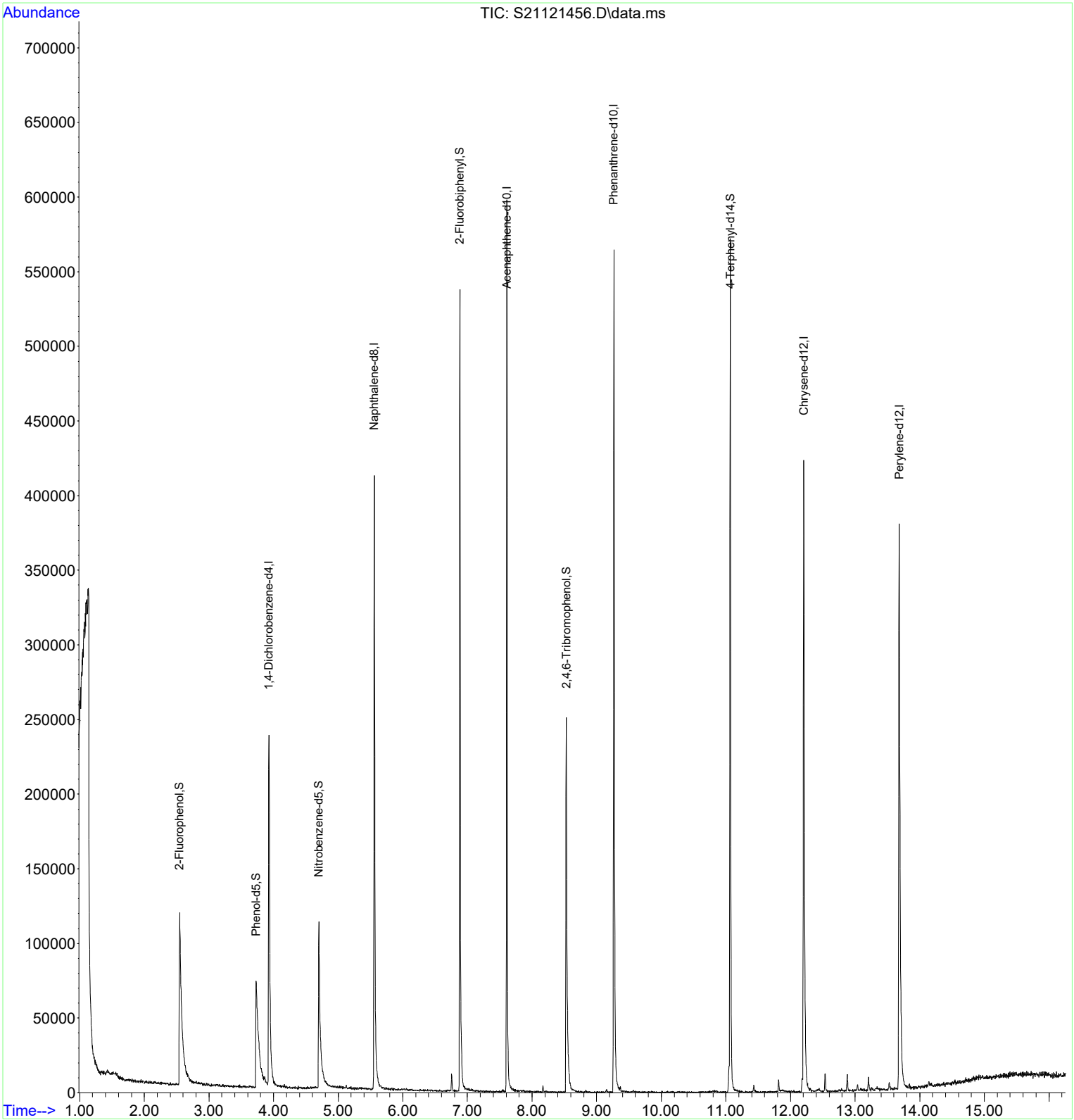
Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
105) Benzo[b]fluoranthene	...	0.000	252	0			N.D.
106) Benzo[k]fluoranthene	...	0.000	252	0			N.D.
107) Benzo[a]pyrene	...	0.000	252	0			N.D.
108) Dibenz(a,j)acridine	...	0.000	279	0			N.D.
109) Indeno[1,2,3-cd]pyrene	...	0.000	276	0			N.D.
110) Dibenz(a,h)anthracene	...	0.000	278	0			N.D.
111) Benzo[g,h,i]perylene	...	0.000	276	0			N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121456.D
Acq On : 14 Dec 2021 2:43 pm
Operator : YH
Sample : MB-327248
Misc : MBLK 8270_TCL4.2_W
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Dec 14 15:22:08 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121457.D
Acq On : 14 Dec 2021 3:08 pm
Operator : YH
Sample : LCS-327248
Misc : LCS 8270_TCL4.2_W
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Dec 14 15:27:15 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	3.925	152	48366	40.00	ng		0.00
23) Naphthalene-d8	...	5.560	136	193513	40.00	ng		0.00
45) Acenaphthene-d10	...	7.612	164	106977	40.00	ng		0.00
73) Phenanthrene-d10	...	9.269	188	189672	40.00	ng		0.00
92) Chrysene-d12	...	12.207	240	152720	40.00	ng		0.00
104) Perylene-d12	...	13.686	264	154824	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.546	112	89255	53.76	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 53.76%					
9) Phenol-d5	...	3.726	99	85924	42.32	ng		0.01
Spiked Amount 100.000	Range 10 - 121		Recovery = 42.32%					
24) Nitrobenzene-d5	...	4.694	82	72010	40.16	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 80.32%					
50) 2-Fluorobiphenyl	...	6.882	172	159726	45.40	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 90.80%					
72) 2,4,6-Tribromophenol	...	8.531	330	28487	76.89	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 76.89%					
94) 4-Terphenyl-d14	...	11.072	244	179170	46.08	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 92.16%					
Target Compounds					Qvalue			
2) Pyridine	...	0.000	79	0	N.D.			
3) 2-Picoline	...	0.000	93	0	N.D.			
4) Methyl methanesulfonate	...	0.000	80	0	N.D.			
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.			
7) Benzaldehyde	...	0.000	105	0	N.D.			
8) Aniline	...	0.000	66	0	N.D.	d		
10) Phenol	...	0.000	94	0	N.D.			
11) Bis(2-chloroethyl)ether	...	3.641	93	132466	77.95	ng		99
12) 2-Chlorophenol	...	3.723	128	191946	106.46	ng		96
13) 1,3-Dichlorobenzene	...	3.845	146	178194	89.26	ng		96
14) 1,4-Dichlorobenzene	...	3.948	146	243129	121.16	ng		96
15) 1,2-Dichlorobenzene	...	4.146	146	169311	88.97	ng		96
16) Benzyl alcohol	...	0.000	108	0	N.D.	d		
17) Bis(2-chloroisopropyl)ether	...	4.362	45	165720	51.69	ng		85
18) 2-Methylphenol	...	4.470	107	102890	71.18	ng	#	84
19) 3,4-Methylphenol	...	4.694	107	192051	103.25	ng	#	84
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.			
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D.			
22) Hexachloroethane	...	0.000	117	0	N.D.			
25) Acetophenone	...	0.000	105	0	N.D.			
26) Nitrobenzene	...	4.717	123	72040	80.58	ng		91
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.			
28) Isophorone	...	0.000	82	0	N.D.			
29) 2-Nitrophenol	...	0.000	139	0	N.D.			
30) 2,4-Dimethylphenol	...	5.321	122	122879	77.26	ng		98
31) Bis(2-chloroethoxy)methane	...	5.358	93	176150	84.87	ng		99
32) 2,4-Dichlorophenol	...	5.509	162	134985	95.65	ng		94
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.			
34) Naphthalene	...	5.585	128	482797	89.37	ng		100
35) Benzoic acid	...	0.000	105	0	N.D.	d		
36) 2,6-Dichlorophenol	...	5.741	162	110685	80.46	ng		98
37) 4-Chloroaniline	...	0.000	127	0	N.D.	d		
38) Hexachlorobutadiene	...	5.767	225	99884	131.01	ng		97
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D.			
40) Caprolactam	...	0.000	113	0	N.D.	d		

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121457.D
Acq On : 14 Dec 2021 3:08 pm
Operator : YH
Sample : LCS-327248
Misc : LCS 8270_TCL4.2_W
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Dec 14 15:27:15 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.451	107	162767	109.89	ng		97
42) N-Nitrosodi-n-butylamine	0.000	84	0	N.D.	d		
43) 2-Methylnaphthalene	0.000	141	0	N.D.	d		
44) 1-Methylnaphthalene	0.000	141	0	N.D.	d		
46) 1,2,4,5-Tetrachlorobenzene	0.000	216	0	N.D.			
47) Hexachlorocyclopentadiene	0.000	237	0	N.D.			
48) 2,4,6-Trichlorophenol	6.834	196	105787	106.47	ng		98
49) 2,4,5-Trichlorophenol	6.931	196	75861	72.04	ng		96
51) Biphenyl	0.000	154	0	N.D.	d		
52) 2-Chloronaphthalene	0.000	162	0	N.D.	d		
53) 1-Chloronaphthalene	0.000	162	0	N.D.	d		
54) 2-Nitroaniline	0.000	65	0	N.D.	d		
55) 3-Nitroaniline	0.000	138	0	N.D.			
56) Pentachlorobenzene	0.000	250	0	N.D.			
57) 4-Nitroaniline	0.000	138	0	N.D.	d		
58) 2-Naphthylamine	0.000	143	0	N.D.			
59) 1-Naphthylamine	0.000	143	0	N.D.			
60) Dimethyl phthalate	7.399	163	300327	85.74	ng		99
61) Acenaphthylene	7.450	152	463345	90.49	ng		99
62) 2,6-Dinitrotoluene	7.461	165	67924	85.15	ng	#	59
63) Acenaphthene	7.652	154	431221	140.43	ng		99
64) 2,4-Dinitrophenol	0.000	184	0	N.D.			
65) Dibenzofuran	0.000	168	0	N.D.	d		
66) 4-Nitrophenol	0.000	109	0	N.D.	d		
67) 2,4-Dinitrotoluene	7.930	165	99542	90.61	ng	#	85
68) 2,3,4,6-Tetrachlorophenol	8.063	232	54701	69.91	ng		98
69) Diethyl phthalate	8.194	149	344084	95.74	ng		100
70) Fluorene	8.236	166	346545	92.87	ng		99
71) 4-Chlorophenyl phenyl ether	0.000	204	0	N.D.			
74) 4,6-Dinitro-2-methylphenol	0.000	198	0	N.D.	d		
75) Azobenzene	8.441	77	391118	102.69	ng		88
76) 1,2-Diphenylhydrazine	8.441	182	84811	93.40	ng	#	72
77) Diphenylamine	8.426	170	79499	120.25	ng		97
78) N-Nitrosodiphenylamine	8.426	168	387039	117.86	ng		98
79) 4-Bromophenyl phenyl ether	8.798	248	74896	79.18	ng		97
80) Phenacetin	8.861	108	170256	85.25	ng		96
81) Hexachlorobenzene	8.855	284	80594	89.76	ng		99
82) Atrazine	0.000	200	0	N.D.			
83) 4-Aminobiphenyl	0.000	169	0	N.D.	d		
84) Pentachlorophenol	0.000	266	0	N.D.			
85) Pentachloronitrobenzene	9.105	237	33873	82.95	ng		91
86) Pronamide	9.235	173	148946	103.25	ng		98
87) Phenanthrene	0.000	178	0	N.D.	d		
88) Anthracene	9.354	178	513629	91.16	ng		99
89) Carbazole	0.000	167	0	N.D.	d		
90) Di-n-butyl phthalate	10.010	149	557778	85.99	ng		100
91) Fluoranthene	10.615	202	255651	43.72	ng		98
93) Pyrene	10.856	202	557087	93.98	ng		99
95) Benzidine	0.000	184	0	N.D.			
96) p-Dimethylaminoazobenzene	0.000	225	0	N.D.			
97) Butyl benzyl phthalate	0.000	149	0	N.D.	d		
98) Benz(a)anthracene	12.198	228	480399	93.68	ng		99
99) 3,3'-Dichlorobenzidine	12.213	252	124726	69.43	ng		96
100) Chrysene	12.235	228	435712	86.02	ng		100
101) Bis(2-ethylhexyl)phthalate	12.318	149	323791	85.35	ng		96
102) Di-n-octyl phthalate	12.993	149	309725	46.93	ng		100
103) 3-Methylcholanthrene	0.000	268	0	N.D.			

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121457.D
Acq On : 14 Dec 2021 3:08 pm
Operator : YH
Sample : LCS-327248
Misc : LCS 8270_TCL4.2_W
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Dec 14 15:27:15 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

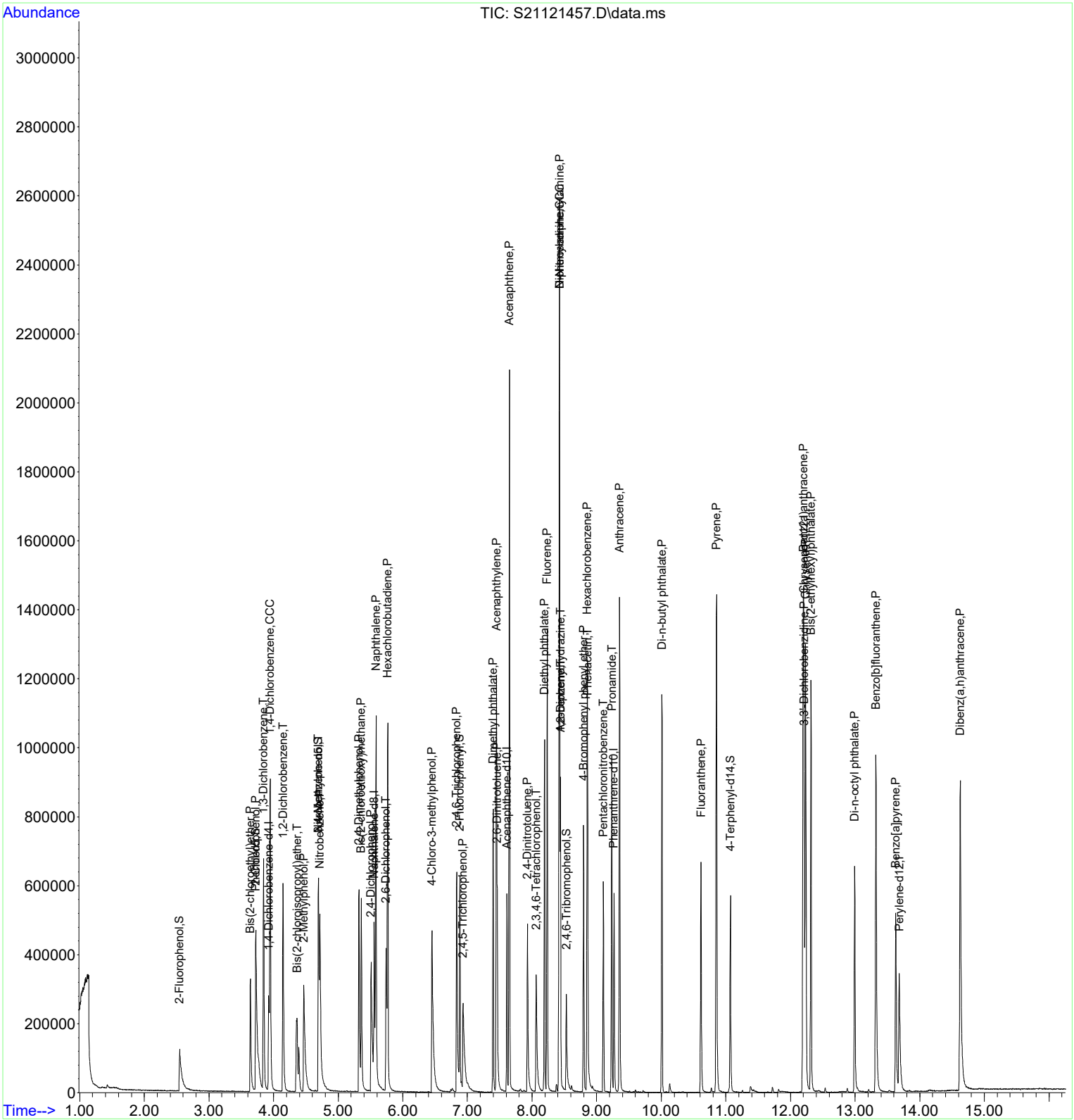
Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
105) Benzo[b]fluoranthene	...	13.322	252	412672	73.44	ng	96
106) Benzo[k]fluoranthene	...	0.000	252	0	N.D.	d	
107) Benzo[a]pyrene	...	13.629	252	208315	43.10	ng	96
108) Dibenz(a,j)acridine	...	0.000	279	0	N.D.	d	
109) Indeno[1,2,3-cd]pyrene	...	0.000	276	0	N.D.	d	
110) Dibenz(a,h)anthracene	...	14.628	278	430350	91.70	ng	94
111) Benzo[g,h,i]perylene	...	0.000	276	0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121457.D
Acq On : 14 Dec 2021 3:08 pm
Operator : YH
Sample : LCS-327248
Misc : LCS 8270_TCL4.2_W
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Dec 14 15:27:15 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121458.D
Acq On : 14 Dec 2021 3:36 pm
Operator : YH
Sample : 2112G62-003C
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Dec 14 16:56:25 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	3.925	152	63282	40.00	ng	0.00
23) Naphthalene-d8	...	5.560	136	256410	40.00	ng	0.00
45) Acenaphthene-d10	...	7.612	164	136061	40.00	ng	0.00
73) Phenanthrene-d10	...	9.267	188	247135	40.00	ng	0.00
92) Chrysene-d12	...	12.210	240	189365	40.00	ng	0.00
104) Perylene-d12	...	13.691	264	209502	40.00	ng	0.01
System Monitoring Compounds							
5) 2-Fluorophenol	...	2.557	112	61064	28.11	ng	0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 28.11%				
9) Phenol-d5	...	3.752	99	41208	15.51	ng	0.04
Spiked Amount 100.000	Range 10 - 121		Recovery = 15.51%				
24) Nitrobenzene-d5	...	4.697	82	75833	31.92	ng	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 63.84%				
50) 2-Fluorobiphenyl	...	6.883	172	166307	37.17	ng	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 74.34%				
72) 2,4,6-Tribromophenol	...	8.537	330	28684	61.79	ng	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 61.79%				
94) 4-Terphenyl-d14	...	11.072	244	171177	35.50	ng	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 71.00%				

Target Compounds					Qvalue
2) Pyridine	...	0.000	79	0	N.D.
3) 2-Picoline	...	0.000	93	0	N.D.
4) Methyl methanesulfonate	...	0.000	80	0	N.D.
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.
7) Benzaldehyde	...	0.000	105	0	N.D.
8) Aniline	...	0.000	66	0	N.D.
10) Phenol	...	0.000	94	0	N.D.
11) Bis(2-chloroethyl)ether	...	0.000	93	0	N.D.
12) 2-Chlorophenol	...	0.000	128	0	N.D.
13) 1,3-Dichlorobenzene	...	0.000	146	0	N.D.
14) 1,4-Dichlorobenzene	...	0.000	146	0	N.D.
15) 1,2-Dichlorobenzene	...	0.000	146	0	N.D.
16) Benzyl alcohol	...	0.000	108	0	N.D.
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0	N.D. d
18) 2-Methylphenol	...	0.000	107	0	N.D.
19) 3,4-Methylphenol	...	0.000	107	0	N.D.
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D.
22) Hexachloroethane	...	0.000	117	0	N.D.
25) Acetophenone	...	0.000	105	0	N.D. d
26) Nitrobenzene	...	0.000	123	0	N.D.
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.
28) Isophorone	...	0.000	82	0	N.D.
29) 2-Nitrophenol	...	0.000	139	0	N.D.
30) 2,4-Dimethylphenol	...	0.000	122	0	N.D.
31) Bis(2-chloroethoxy)methane	...	0.000	93	0	N.D.
32) 2,4-Dichlorophenol	...	0.000	162	0	N.D.
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.
34) Naphthalene	...	0.000	128	0	N.D. d
35) Benzoic acid	...	0.000	105	0	N.D.
36) 2,6-Dichlorophenol	...	0.000	162	0	N.D.
37) 4-Chloroaniline	...	0.000	127	0	N.D. d
38) Hexachlorobutadiene	...	0.000	225	0	N.D.
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D. d
40) Caprolactam	...	0.000	113	0	N.D.

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121458.D
Acq On : 14 Dec 2021 3:36 pm
Operator : YH
Sample : 2112G62-003C
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Dec 14 16:56:25 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 4-Chloro-3-methylphenol	...	0.000	107	0		N.D. d
42) N-Nitrosodi-n-butylamine	...	0.000	84	0		N.D.
43) 2-Methylnaphthalene	...	0.000	141	0		N.D.
44) 1-Methylnaphthalene	...	0.000	141	0		N.D.
46) 1,2,4,5-Tetrachlorobenzene	...	0.000	216	0		N.D.
47) Hexachlorocyclopentadiene	...	0.000	237	0		N.D.
48) 2,4,6-Trichlorophenol	...	0.000	196	0		N.D.
49) 2,4,5-Trichlorophenol	...	0.000	196	0		N.D.
51) Biphenyl	...	0.000	154	0		N.D. d
52) 2-Chloronaphthalene	...	0.000	162	0		N.D.
53) 1-Chloronaphthalene	...	0.000	162	0		N.D.
54) 2-Nitroaniline	...	0.000	65	0		N.D.
55) 3-Nitroaniline	...	0.000	138	0		N.D.
56) Pentachlorobenzene	...	0.000	250	0		N.D.
57) 4-Nitroaniline	...	0.000	138	0		N.D.
58) 2-Naphthylamine	...	0.000	143	0		N.D.
59) 1-Naphthylamine	...	0.000	143	0		N.D.
60) Dimethyl phthalate	...	0.000	163	0		N.D.
61) Acenaphthylene	...	0.000	152	0		N.D. d
62) 2,6-Dinitrotoluene	...	0.000	165	0		N.D.
63) Acenaphthene	...	0.000	154	0		N.D. d
64) 2,4-Dinitrophenol	...	0.000	184	0		N.D.
65) Dibenzofuran	...	0.000	168	0		N.D.
66) 4-Nitrophenol	...	0.000	109	0		N.D.
67) 2,4-Dinitrotoluene	...	0.000	165	0		N.D.
68) 2,3,4,6-Tetrachlorophenol	...	0.000	232	0		N.D.
69) Diethyl phthalate	...	0.000	149	0		N.D.
70) Fluorene	...	0.000	166	0		N.D.
71) 4-Chlorophenyl phenyl ether	...	0.000	204	0		N.D.
74) 4,6-Dinitro-2-methylphenol	...	0.000	198	0		N.D.
75) Azobenzene	...	0.000	77	0		N.D. d
76) 1,2-Diphenylhydrazine	...	0.000	182	0		N.D.
77) Diphenylamine	...	0.000	170	0		N.D.
78) N-Nitrosodiphenylamine	...	0.000	168	0		N.D. d
79) 4-Bromophenyl phenyl ether	...	0.000	248	0		N.D.
80) Phenacetin	...	0.000	108	0		N.D.
81) Hexachlorobenzene	...	0.000	284	0		N.D.
82) Atrazine	...	0.000	200	0		N.D.
83) 4-Aminobiphenyl	...	0.000	169	0		N.D.
84) Pentachlorophenol	...	0.000	266	0		N.D.
85) Pentachloronitrobenzene	...	0.000	237	0		N.D.
86) Pronamide	...	0.000	173	0		N.D.
87) Phenanthrene	...	0.000	178	0		N.D. d
88) Anthracene	...	0.000	178	0		N.D. d
89) Carbazole	...	0.000	167	0		N.D. d
90) Di-n-butyl phthalate	...	0.000	149	0		N.D. d
91) Fluoranthene	...	0.000	202	0		N.D. d
93) Pyrene	...	0.000	202	0		N.D. d
95) Benzidine	...	0.000	184	0		N.D. d
96) p-Dimethylaminoazobenzene	...	0.000	225	0		N.D.
97) Butyl benzyl phthalate	...	0.000	149	0		N.D.
98) Benz(a)anthracene	...	0.000	228	0		N.D. d
99) 3,3'-Dichlorobenzidine	...	0.000	252	0		N.D.
100) Chrysene	...	0.000	228	0		N.D. d
101) Bis(2-ethylhexyl)phthalate	...	0.000	149	0		N.D. d
102) Di-n-octyl phthalate	...	0.000	149	0		N.D. d
103) 3-Methylcholanthrene	...	0.000	268	0		N.D.

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121458.D
Acq On : 14 Dec 2021 3:36 pm
Operator : YH
Sample : 2112G62-003C
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Dec 14 16:56:25 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

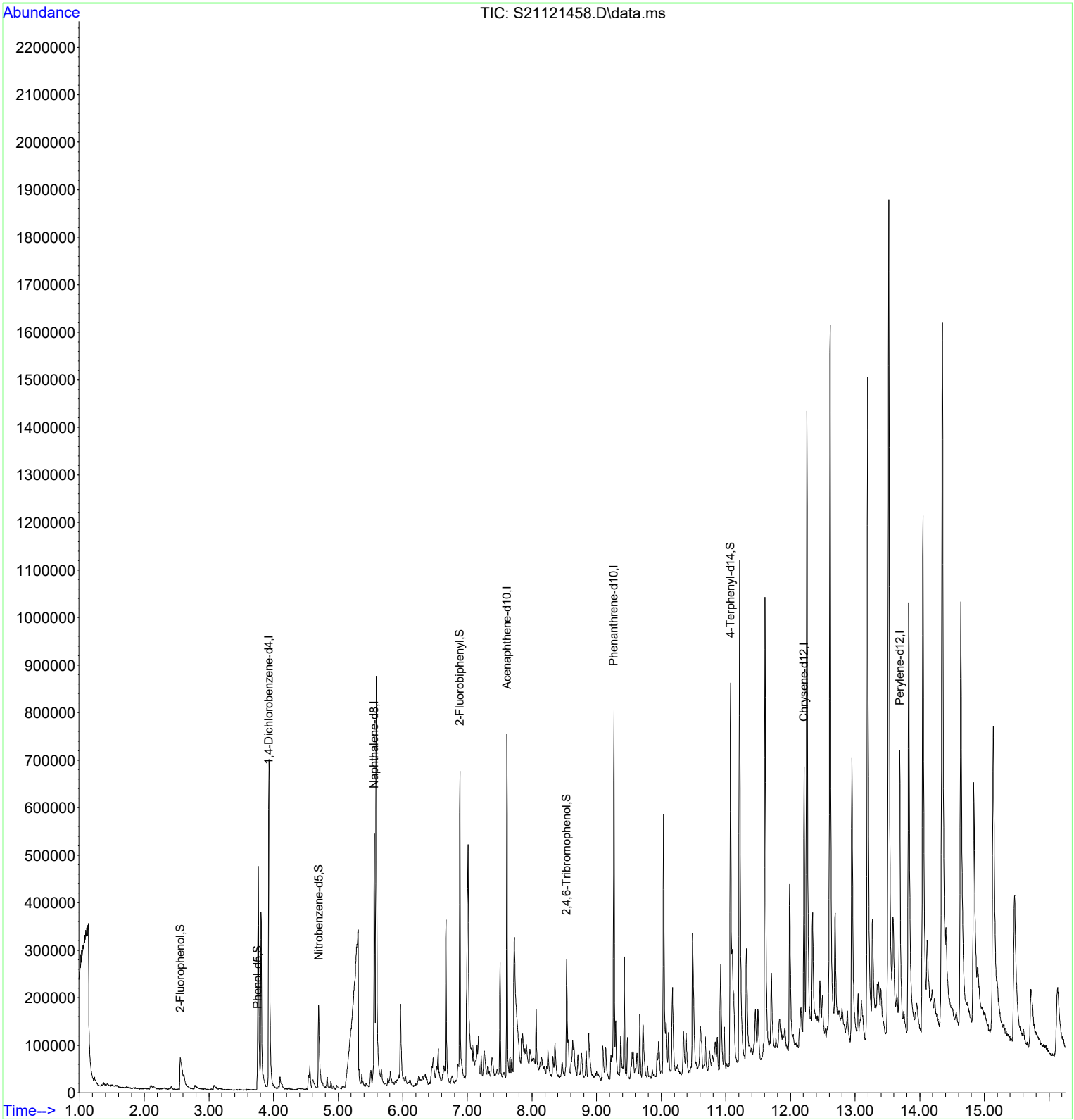
Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
105) Benzo[b]fluoranthene	...	0.000	252	0		N.D.	d
106) Benzo[k]fluoranthene	...	0.000	252	0		N.D.	d
107) Benzo[a]pyrene	...	0.000	252	0		N.D.	d
108) Dibenz(a,j)acridine	...	0.000	279	0		N.D.	
109) Indeno[1,2,3-cd]pyrene	...	0.000	276	0		N.D.	d
110) Dibenz(a,h)anthracene	...	0.000	278	0		N.D.	d
111) Benzo[g,h,i]perylene	...	0.000	276	0		N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121458.D
Acq On : 14 Dec 2021 3:36 pm
Operator : YH
Sample : 2112G62-003C
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Dec 14 16:56:25 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121459.D
Acq On : 14 Dec 2021 8:21 pm
Operator : YH
Sample : 2112G62-003CMS
Misc : MS 8270_TCL4.2_W
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Dec 15 09:44:44 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	3.925	152	64489	40.00	ng		0.00
23) Naphthalene-d8	...	5.557	136	264537	40.00	ng		0.00
45) Acenaphthene-d10	...	7.612	164	147948	40.00	ng		0.00
73) Phenanthrene-d10	...	9.269	188	262124	40.00	ng		0.00
92) Chrysene-d12	...	12.213	240	204214	40.00	ng		0.01
104) Perylene-d12	...	13.688	264	225325	40.00	ng		0.01
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.563	112	74226	33.53	ng		0.01
Spiked Amount 100.000	Range 21 - 119		Recovery = 33.53%					
9) Phenol-d5	...	3.755	99	57613	21.28	ng		0.04
Spiked Amount 100.000	Range 10 - 121		Recovery = 21.28%					
24) Nitrobenzene-d5	...	4.694	82	82418	33.62	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 67.24%					
50) 2-Fluorobiphenyl	...	6.882	172	177102	36.40	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 72.80%					
72) 2,4,6-Tribromophenol	...	8.540	330	33341	65.75	ng		0.01
Spiked Amount 100.000	Range 10 - 123		Recovery = 65.75%					
94) 4-Terphenyl-d14	...	11.069	244	185136	35.61	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 71.22%					
Target Compounds					Qvalue			
2) Pyridine	...	0.000	79	0	N.D.			
3) 2-Picoline	...	0.000	93	0	N.D.			
4) Methyl methanesulfonate	...	0.000	80	0	N.D.			
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.			
7) Benzaldehyde	...	0.000	105	0	N.D.			
8) Aniline	...	0.000	66	0	N.D. d			
10) Phenol	...	0.000	94	0	N.D.			
11) Bis(2-chloroethyl)ether	...	3.641	93	151463	66.84	ng		100
12) 2-Chlorophenol	...	3.743	128	198545	82.59	ng		97
13) 1,3-Dichlorobenzene	...	3.845	146	182758	68.66	ng		96
14) 1,4-Dichlorobenzene	...	3.948	146	248822	93.00	ng		97
15) 1,2-Dichlorobenzene	...	4.146	146	183061	72.14	ng		97
16) Benzyl alcohol	...	0.000	108	0	N.D. d			
17) Bis(2-chloroisopropyl)ether	...	4.359	45	188506	44.09	ng		80
18) 2-Methylphenol	...	4.478	107	102074	52.96	ng	#	83
19) 3,4-Methylphenol	...	4.708	107	171228	69.04	ng	#	55
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.			
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D.			
22) Hexachloroethane	...	0.000	117	0	N.D.			
25) Acetophenone	...	0.000	105	0	N.D.			
26) Nitrobenzene	...	4.717	123	81763	66.90	ng	#	67
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.			
28) Isophorone	...	0.000	82	0	N.D.			
29) 2-Nitrophenol	...	0.000	139	0	N.D.			
30) 2,4-Dimethylphenol	...	5.333	122	136637	62.84	ng		98
31) Bis(2-chloroethoxy)methane	...	5.358	93	196073	69.11	ng		99
32) 2,4-Dichlorophenol	...	5.529	162	171185	88.73	ng		94
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.			
34) Naphthalene	...	5.582	128	541883	73.38	ng		100
35) Benzoic acid	...	0.000	105	0	N.D. d			
36) 2,6-Dichlorophenol	...	5.747	162	125429	66.70	ng		98
37) 4-Chloroaniline	...	0.000	127	0	N.D. d			
38) Hexachlorobutadiene	...	5.767	225	107444	103.09	ng		97
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D. d			
40) Caprolactam	...	0.000	113	0	N.D. d			

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121459.D
Acq On : 14 Dec 2021 8:21 pm
Operator : YH
Sample : 2112G62-003CMS
Misc : MS 8270_TCL4.2_W
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Dec 15 09:44:44 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.465	107	168899	83.42	ng		96
42) N-Nitrosodi-n-butylamine	0.000	84	0	N.D.	d		
43) 2-Methylnaphthalene	0.000	141	0	N.D.	d		
44) 1-Methylnaphthalene	0.000	141	0	N.D.	d		
46) 1,2,4,5-Tetrachlorobenzene	0.000	216	0	N.D.			
47) Hexachlorocyclopentadiene	0.000	237	0	N.D.			
48) 2,4,6-Trichlorophenol	6.837	196	119794	87.18	ng		99
49) 2,4,5-Trichlorophenol	6.942	196	95377	65.49	ng		95
51) Biphenyl	0.000	154	0	N.D.	d		
52) 2-Chloronaphthalene	0.000	162	0	N.D.	d		
53) 1-Chloronaphthalene	0.000	162	0	N.D.	d		
54) 2-Nitroaniline	0.000	65	0	N.D.	d		
55) 3-Nitroaniline	0.000	138	0	N.D.			
56) Pentachlorobenzene	0.000	250	0	N.D.			
57) 4-Nitroaniline	0.000	138	0	N.D.	d		
58) 2-Naphthylamine	0.000	143	0	N.D.			
59) 1-Naphthylamine	0.000	143	0	N.D.			
60) Dimethyl phthalate	7.402	163	334208	68.99	ng		99
61) Acenaphthylene	7.450	152	502455	70.95	ng		99
62) 2,6-Dinitrotoluene	7.467	165	75814	68.72	ng	#	67
63) Acenaphthene	7.652	154	481339	113.34	ng		99
64) 2,4-Dinitrophenol	0.000	184	0	N.D.			
65) Dibenzofuran	0.000	168	0	N.D.	d		
66) 4-Nitrophenol	0.000	109	0	N.D.			
67) 2,4-Dinitrotoluene	7.933	165	107643	70.85	ng	#	86
68) 2,3,4,6-Tetrachlorophenol	8.083	232	51754	47.83	ng		93
69) Diethyl phthalate	8.196	149	388533	78.17	ng		100
70) Fluorene	8.236	166	388090	75.21	ng		99
71) 4-Chlorophenyl phenyl ether	0.000	204	0	N.D.			
74) 4,6-Dinitro-2-methylphenol	0.000	198	0	N.D.			
75) Azobenzene	8.441	77	436748	82.98	ng		94
76) 1,2-Diphenylhydrazine	8.441	182	96574	76.96	ng	#	76
77) Diphenylamine	8.429	170	91210	99.83	ng		98
78) N-Nitrosodiphenylamine	8.429	168	439836	96.92	ng		98
79) 4-Bromophenyl phenyl ether	8.798	248	87719	67.10	ng		98
80) Phenacetin	8.875	108	197407	71.53	ng		95
81) Hexachlorobenzene	8.855	284	92204	74.31	ng		98
82) Atrazine	0.000	200	0	N.D.			
83) 4-Aminobiphenyl	0.000	169	0	N.D.	d		
84) Pentachlorophenol	0.000	266	0	N.D.			
85) Pentachloronitrobenzene	9.105	237	36783	65.18	ng		94
86) Pronamide	9.241	173	167072	83.81	ng		97
87) Phenanthrene	0.000	178	0	N.D.	d		
88) Anthracene	9.354	178	577658	74.19	ng		99
89) Carbazole	0.000	167	0	N.D.			
90) Di-n-butyl phthalate	10.010	149	621518	69.33	ng		100
91) Fluoranthene	10.615	202	293886	36.36	ng		98
93) Pyrene	10.856	202	611387	77.13	ng		99
95) Benzidine	0.000	184	0	N.D.			
96) p-Dimethylaminoazobenzene	0.000	225	0	N.D.			
97) Butyl benzyl phthalate	0.000	149	0	N.D.			
98) Benz(a)anthracene	12.201	228	512309	74.71	ng		99
99) 3,3'-Dichlorobenzidine	0.000	252	0	N.D.			
100) Chrysene	12.241	228	489520	72.27	ng		100
101) Bis(2-ethylhexyl)phthalate	12.320	149	365071	71.96	ng		96
102) Di-n-octyl phthalate	12.999	149	345347	39.13	ng		99
103) 3-Methylcholanthrene	0.000	268	0	N.D.			

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121459.D
Acq On : 14 Dec 2021 8:21 pm
Operator : YH
Sample : 2112G62-003CMS
Misc : MS 8270_TCL4.2_W
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Dec 15 09:44:44 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

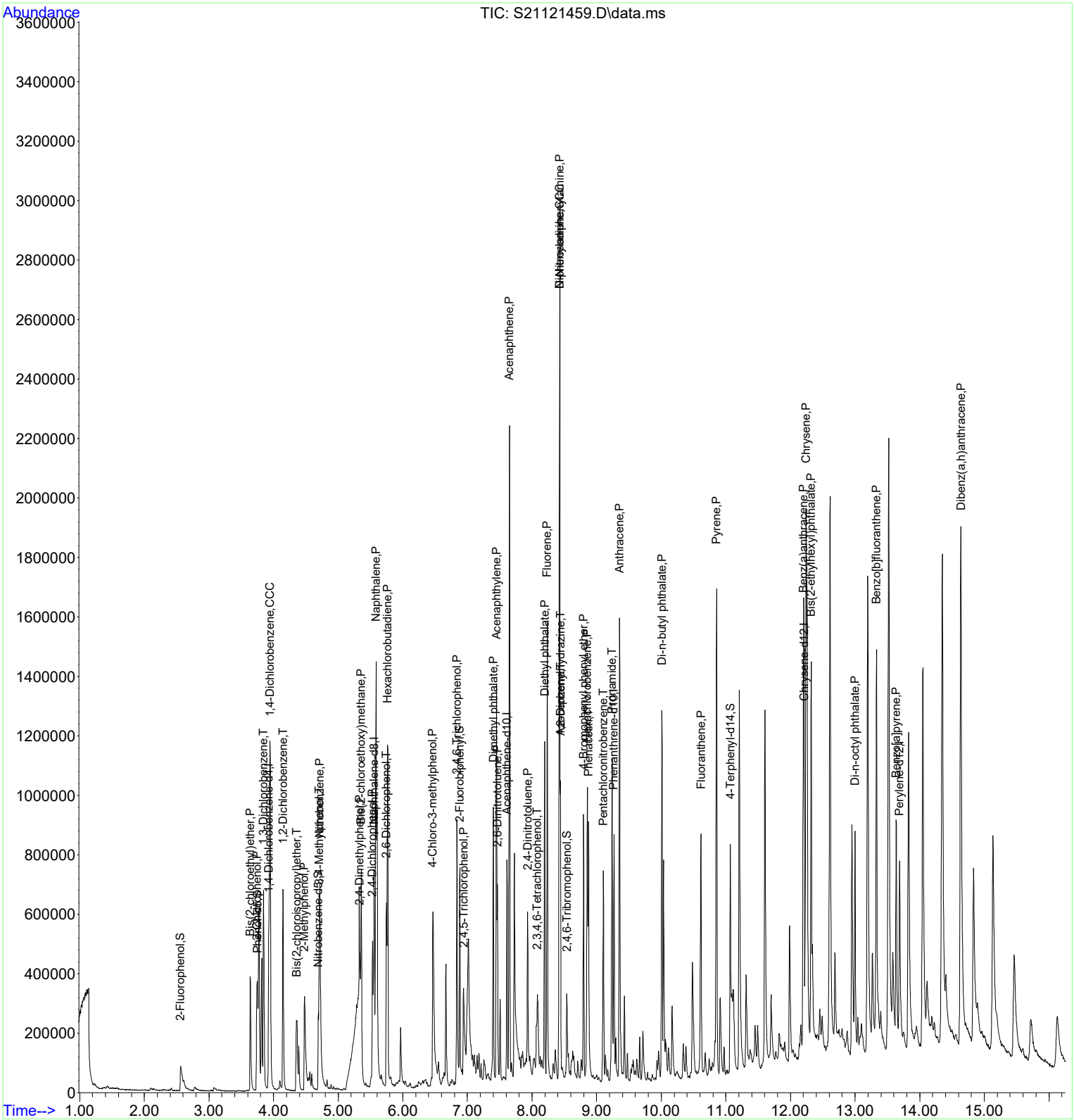
Internal Standards		R.T.	QIon	Response	Conc Units	Dev(Min)
105) Benzo[b]fluoranthene	...	13.331	252	510361	62.41 ng	97
106) Benzo[k]fluoranthene	...	0.000	252	0	N.D. d	
107) Benzo[a]pyrene	...	13.637	252	249746	35.51 ng	96
108) Dibenz(a,j)acridine	...	0.000	279	0	N.D. d	
109) Indeno[1,2,3-cd]pyrene	...	0.000	276	0	N.D. d	
110) Dibenz(a,h)anthracene	...	14.639	278	390617	57.19 ng	94
111) Benzo[g,h,i]perylene	...	0.000	276	0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121459.D
Acq On : 14 Dec 2021 8:21 pm
Operator : YH
Sample : 2112G62-003CMS
Misc : MS 8270_TCL4.2_W
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Dec 15 09:44:44 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121460.D
Acq On : 14 Dec 2021 8:47 pm
Operator : YH
Sample : 2112G62-003CMSD
Misc : MSD 8270_TCL4.2_W
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 15 09:47:34 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards			R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4		...	3.925	152	59837	40.00	ng		0.00
23) Naphthalene-d8		...	5.557	136	240661	40.00	ng		0.00
45) Acenaphthene-d10		...	7.612	164	131374	40.00	ng		0.00
73) Phenanthrene-d10		...	9.269	188	230593	40.00	ng		0.00
92) Chrysene-d12		...	12.213	240	179387	40.00	ng		0.01
104) Perylene-d12		...	13.691	264	191849	40.00	ng		0.01
System Monitoring Compounds									
5) 2-Fluorophenol		...	2.568	112	71484	34.80	ng		0.02
Spiked Amount	100.000	Range	21 - 119		Recovery =	34.80%			
9) Phenol-d5		...	3.766	99	59244	23.58	ng		0.05
Spiked Amount	100.000	Range	10 - 121		Recovery =	23.58%			
24) Nitrobenzene-d5		...	4.694	82	84614	37.94	ng		0.00
Spiked Amount	50.000	Range	34 - 114		Recovery =	75.88%			
50) 2-Fluorobiphenyl		...	6.882	172	176560	40.87	ng		0.00
Spiked Amount	50.000	Range	43 - 116		Recovery =	81.74%			
72) 2,4,6-Tribromophenol		...	8.540	330	32597	71.94	ng		0.01
Spiked Amount	100.000	Range	10 - 123		Recovery =	71.94%			
94) 4-Terphenyl-d14		...	11.072	244	183709	40.22	ng		0.00
Spiked Amount	50.000	Range	33 - 141		Recovery =	80.44%			
Target Compounds						Qvalue			
2) Pyridine		...	0.000	79	0	N.D.			
3) 2-Picoline		...	0.000	93	0	N.D.			
4) Methyl methanesulfonate		...	0.000	80	0	N.D.			
6) Ethyl methanesulfonate		...	0.000	79	0	N.D.			
7) Benzaldehyde		...	0.000	105	0	N.D.			
8) Aniline		...	0.000	66	0	N.D.			
10) Phenol		...	0.000	94	0	N.D.			
11) Bis(2-chloroethyl)ether		...	3.638	93	156567	74.47	ng		99
12) 2-Chlorophenol		...	3.752	128	202015	90.56	ng		97
13) 1,3-Dichlorobenzene		...	3.846	146	189869	76.87	ng		97
14) 1,4-Dichlorobenzene		...	3.948	146	262080	105.57	ng		97
15) 1,2-Dichlorobenzene		...	4.146	146	185184	78.65	ng		97
16) Benzyl alcohol		...	0.000	108	0	N.D.	d		
17) Bis(2-chloroisopropyl)ether		...	4.354	45	190264	47.96	ng		88
18) 2-Methylphenol		...	4.493	107	104776	58.59	ng	#	86
19) 3,4-Methylphenol		...	4.720	107	178772	77.69	ng	#	53
20) N-Nitrosodi-n-propylamine		...	0.000	70	0	N.D.			
21) N-Nitrosodimethylamine		...	0.000	42	0	N.D.			
22) Hexachloroethane		...	0.000	117	0	N.D.			
25) Acetophenone		...	0.000	105	0	N.D.			
26) Nitrobenzene		...	4.717	123	84302	75.82	ng	#	65
27) N-Nitrosopiperidine		...	0.000	114	0	N.D.			
28) Isophorone		...	0.000	82	0	N.D.			
29) 2-Nitrophenol		...	0.000	139	0	N.D.			
30) 2,4-Dimethylphenol		...	5.347	122	140485	71.02	ng		97
31) Bis(2-chloroethoxy)methane		...	5.361	93	199654	77.35	ng		96
32) 2,4-Dichlorophenol		...	5.540	162	173772	99.01	ng		95
33) 1,2,4-Trichlorobenzene		...	0.000	180	0	N.D.			
34) Naphthalene		...	5.585	128	532077	79.20	ng		99
35) Benzoic acid		...	0.000	105	0	N.D.	d		
36) 2,6-Dichlorophenol		...	5.750	162	129066	75.44	ng		97
37) 4-Chloroaniline		...	0.000	127	0	N.D.	d		
38) Hexachlorobutadiene		...	5.767	225	107567	113.45	ng		97
39) a,a-Dimethylphenethylamine		...	0.000	58	0	N.D.	d		
40) Caprolactam		...	0.000	113	0	N.D.	d		

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121460.D
Acq On : 14 Dec 2021 8:47 pm
Operator : YH
Sample : 2112G62-003CMSD
Misc : MSD 8270_TCL4.2_W
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 15 09:47:34 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.479	107	171026	92.85	ng		97
42) N-Nitrosodi-n-butylamine	0.000	84	0	N.D.	d		
43) 2-Methylnaphthalene	0.000	141	0	N.D.	d		
44) 1-Methylnaphthalene	0.000	141	0	N.D.	d		
46) 1,2,4,5-Tetrachlorobenzene	0.000	216	0	N.D.			
47) Hexachlorocyclopentadiene	0.000	237	0	N.D.			
48) 2,4,6-Trichlorophenol	6.843	196	120378	98.66	ng		99
49) 2,4,5-Trichlorophenol	6.951	196	97121	75.11	ng		98
51) Biphenyl	0.000	154	0	N.D.	d		
52) 2-Chloronaphthalene	0.000	162	0	N.D.	d		
53) 1-Chloronaphthalene	0.000	162	0	N.D.	d		
54) 2-Nitroaniline	0.000	65	0	N.D.	d		
55) 3-Nitroaniline	0.000	138	0	N.D.			
56) Pentachlorobenzene	0.000	250	0	N.D.			
57) 4-Nitroaniline	0.000	138	0	N.D.	d		
58) 2-Naphthylamine	0.000	143	0	N.D.			
59) 1-Naphthylamine	0.000	143	0	N.D.			
60) Dimethyl phthalate	7.405	163	328851	76.45	ng		99
61) Acenaphthylene	7.450	152	503103	80.00	ng		99
62) 2,6-Dinitrotoluene	7.467	165	75881	77.46	ng	#	65
63) Acenaphthene	7.652	154	474205	125.75	ng		98
64) 2,4-Dinitrophenol	0.000	184	0	N.D.			
65) Dibenzofuran	0.000	168	0	N.D.	d		
66) 4-Nitrophenol	0.000	109	0	N.D.			
67) 2,4-Dinitrotoluene	7.933	165	107227	79.48	ng		86
68) 2,3,4,6-Tetrachlorophenol	8.083	232	51193	53.28	ng		93
69) Diethyl phthalate	8.197	149	374191	84.78	ng		100
70) Fluorene	8.236	166	377400	82.36	ng		100
71) 4-Chlorophenyl phenyl ether	0.000	204	0	N.D.			
74) 4,6-Dinitro-2-methylphenol	0.000	198	0	N.D.			
75) Azobenzene	8.441	77	415169	89.66	ng		82
76) 1,2-Diphenylhydrazine	8.441	182	92498	83.79	ng	#	77
77) Diphenylamine	8.429	170	89045	110.79	ng		98
78) N-Nitrosodiphenylamine	8.429	168	428781	107.40	ng		99
79) 4-Bromophenyl phenyl ether	8.798	248	84941	73.86	ng		99
80) Phenacetin	8.878	108	193799	79.82	ng		96
81) Hexachlorobenzene	8.855	284	87224	79.91	ng		98
82) Atrazine	0.000	200	0	N.D.			
83) 4-Aminobiphenyl	0.000	169	0	N.D.	d		
84) Pentachlorophenol	0.000	266	0	N.D.			
85) Pentachloronitrobenzene	9.105	237	36377	73.27	ng		92
86) Pronamide	9.244	173	160955	91.78	ng		97
87) Phenanthrene	0.000	178	0	N.D.	d		
88) Anthracene	9.355	178	557672	81.42	ng		99
89) Carbazole	0.000	167	0	N.D.			
90) Di-n-butyl phthalate	10.013	149	608786	77.20	ng		99
91) Fluoranthene	10.615	202	278510	39.17	ng		98
93) Pyrene	10.856	202	588744	84.55	ng		99
95) Benzidine	0.000	184	0	N.D.			
96) p-Dimethylaminoazobenzene	0.000	225	0	N.D.			
97) Butyl benzyl phthalate	0.000	149	0	N.D.			
98) Benz(a)anthracene	12.204	228	506554	84.09	ng		99
99) 3,3'-Dichlorobenzidine	0.000	252	0	N.D.			
100) Chrysene	12.241	228	467321	78.54	ng		100
101) Bis(2-ethylhexyl)phthalate	12.321	149	352370	79.07	ng		95
102) Di-n-octyl phthalate	13.002	149	334101	43.09	ng		98
103) 3-Methylcholanthrene	0.000	268	0	N.D.			

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Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121460.D
Acq On : 14 Dec 2021 8:47 pm
Operator : YH
Sample : 2112G62-003CMSD
Misc : MSD 8270_TCL4.2_W
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 15 09:47:34 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

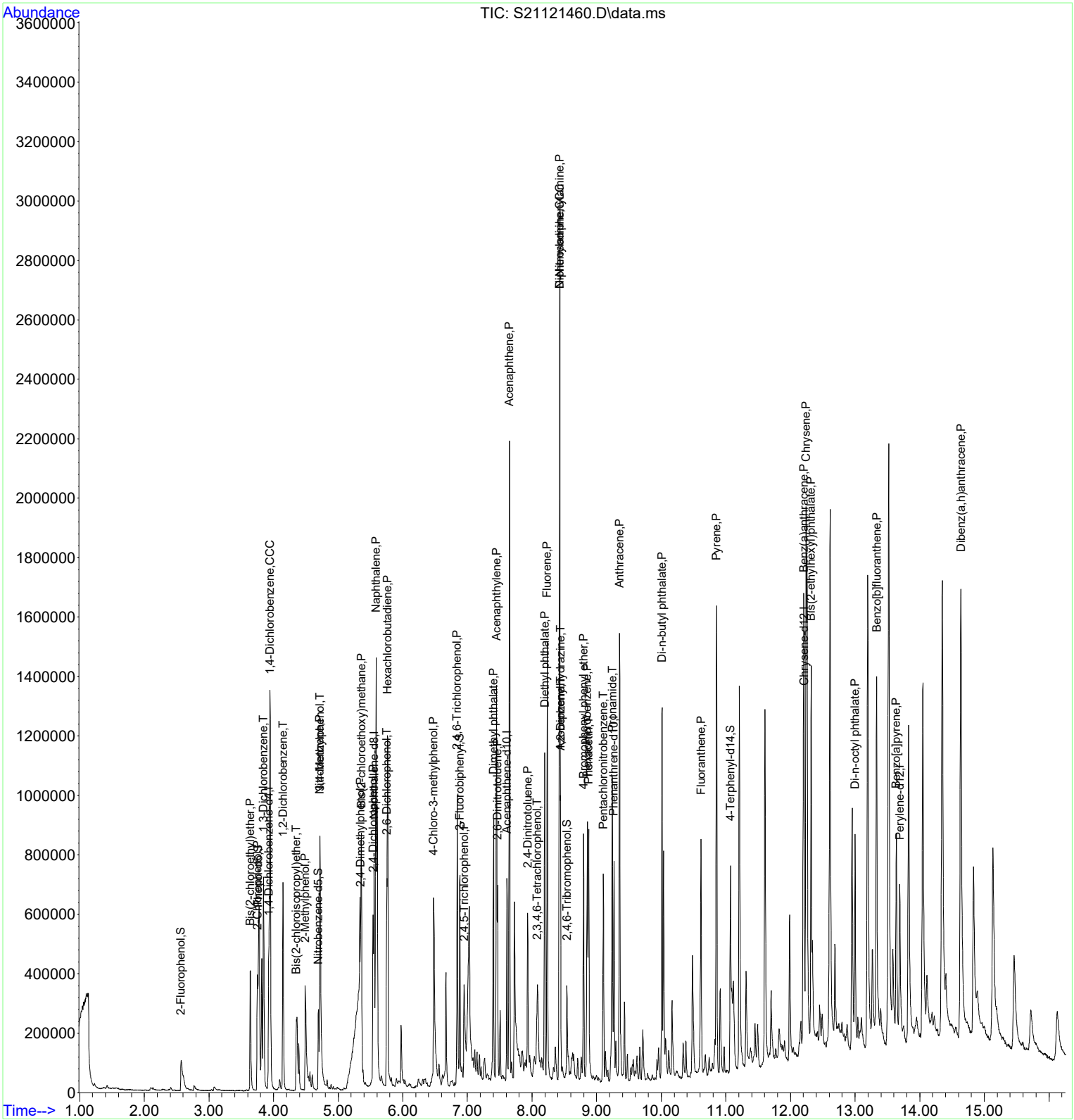
Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
105) Benzo[b]fluoranthene	...	13.334	252	492947	70.80	ng	97
106) Benzo[k]fluoranthene	...	0.000	252	0	N.D.	d	
107) Benzo[a]pyrene	...	13.637	252	233548	39.00	ng	96
108) Dibenz(a,j)acridine	...	0.000	279	0	N.D.	d	
109) Indeno[1,2,3-cd]pyrene	...	0.000	276	0	N.D.	d	
110) Dibenz(a,h)anthracene	...	14.639	278	349806	60.16	ng	94
111) Benzo[g,h,i]perylene	...	0.000	276	0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121460.D
Acq On : 14 Dec 2021 8:47 pm
Operator : YH
Sample : 2112G62-003CMSD
Misc : MSD 8270_TCL4.2_W
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 15 09:47:34 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121461.D
Acq On : 14 Dec 2021 4:02 pm
Operator : YH
Sample : 2112G62-001C
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Dec 14 16:58:25 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	3.925	152	56476	40.00	ng	0.00
23) Naphthalene-d8	...	5.560	136	240872	40.00	ng	0.00
45) Acenaphthene-d10	...	7.612	164	130260	40.00	ng	0.00
73) Phenanthrene-d10	...	9.270	188	236875	40.00	ng	0.00
92) Chrysene-d12	...	12.207	240	178913	40.00	ng	0.00
104) Perylene-d12	...	13.686	264	192372	40.00	ng	0.00
System Monitoring Compounds							
5) 2-Fluorophenol	...	2.568	112	105767	54.56	ng	0.02
Spiked Amount 100.000	Range 21 - 119		Recovery = 54.56%				
9) Phenol-d5	...	3.775	99	75108	31.68	ng	0.06
Spiked Amount 100.000	Range 10 - 121		Recovery = 31.68%				
24) Nitrobenzene-d5	...	4.697	82	82007	36.74	ng	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 73.48%				
50) 2-Fluorobiphenyl	...	6.883	172	168422	39.32	ng	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 78.64%				
72) 2,4,6-Tribromophenol	...	8.540	330	33693	74.81	ng	0.01
Spiked Amount 100.000	Range 10 - 123		Recovery = 74.81%				
94) 4-Terphenyl-d14	...	11.072	244	172696	37.91	ng	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 75.82%				

Target Compounds					Qvalue
2) Pyridine	...	0.000	79	0	N.D.
3) 2-Picoline	...	0.000	93	0	N.D.
4) Methyl methanesulfonate	...	0.000	80	0	N.D.
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.
7) Benzaldehyde	...	0.000	105	0	N.D. d
8) Aniline	...	0.000	66	0	N.D. d
10) Phenol	...	0.000	94	0	N.D.
11) Bis(2-chloroethyl)ether	...	0.000	93	0	N.D.
12) 2-Chlorophenol	...	0.000	128	0	N.D. d
13) 1,3-Dichlorobenzene	...	0.000	146	0	N.D.
14) 1,4-Dichlorobenzene	...	0.000	146	0	N.D.
15) 1,2-Dichlorobenzene	...	0.000	146	0	N.D.
16) Benzyl alcohol	...	0.000	108	0	N.D. d
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0	N.D. d
18) 2-Methylphenol	...	0.000	107	0	N.D. d
19) 3,4-Methylphenol	...	0.000	107	0	N.D. d
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D.
22) Hexachloroethane	...	0.000	117	0	N.D. d
25) Acetophenone	...	0.000	105	0	N.D. d
26) Nitrobenzene	...	0.000	123	0	N.D.
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.
28) Isophorone	...	0.000	82	0	N.D.
29) 2-Nitrophenol	...	0.000	139	0	N.D.
30) 2,4-Dimethylphenol	...	0.000	122	0	N.D. d
31) Bis(2-chloroethoxy)methane	...	0.000	93	0	N.D. d
32) 2,4-Dichlorophenol	...	0.000	162	0	N.D.
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.
34) Naphthalene	...	0.000	128	0	N.D. d
35) Benzoic acid	...	0.000	105	0	N.D.
36) 2,6-Dichlorophenol	...	0.000	162	0	N.D.
37) 4-Chloroaniline	...	0.000	127	0	N.D.
38) Hexachlorobutadiene	...	0.000	225	0	N.D.
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D. d
40) Caprolactam	...	0.000	113	0	N.D. d

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121461.D
Acq On : 14 Dec 2021 4:02 pm
Operator : YH
Sample : 2112G62-001C
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Dec 14 16:58:25 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 4-Chloro-3-methylphenol	...	0.000	107	0		N.D. d
42) N-Nitrosodi-n-butylamine	...	0.000	84	0		N.D. d
43) 2-Methylnaphthalene	...	0.000	141	0		N.D. d
44) 1-Methylnaphthalene	...	0.000	141	0		N.D. d
46) 1,2,4,5-Tetrachlorobenzene	...	0.000	216	0		N.D.
47) Hexachlorocyclopentadiene	...	0.000	237	0		N.D.
48) 2,4,6-Trichlorophenol	...	0.000	196	0		N.D.
49) 2,4,5-Trichlorophenol	...	0.000	196	0		N.D.
51) Biphenyl	...	0.000	154	0		N.D. d
52) 2-Chloronaphthalene	...	0.000	162	0		N.D.
53) 1-Chloronaphthalene	...	0.000	162	0		N.D.
54) 2-Nitroaniline	...	0.000	65	0		N.D. d
55) 3-Nitroaniline	...	0.000	138	0		N.D. d
56) Pentachlorobenzene	...	0.000	250	0		N.D.
57) 4-Nitroaniline	...	0.000	138	0		N.D.
58) 2-Naphthylamine	...	0.000	143	0		N.D.
59) 1-Naphthylamine	...	0.000	143	0		N.D.
60) Dimethyl phthalate	...	0.000	163	0		N.D.
61) Acenaphthylene	...	0.000	152	0		N.D. d
62) 2,6-Dinitrotoluene	...	0.000	165	0		N.D.
63) Acenaphthene	...	0.000	154	0		N.D. d
64) 2,4-Dinitrophenol	...	0.000	184	0		N.D.
65) Dibenzofuran	...	0.000	168	0		N.D.
66) 4-Nitrophenol	...	0.000	109	0		N.D. d
67) 2,4-Dinitrotoluene	...	0.000	165	0		N.D.
68) 2,3,4,6-Tetrachlorophenol	...	0.000	232	0		N.D.
69) Diethyl phthalate	...	0.000	149	0		N.D.
70) Fluorene	...	0.000	166	0		N.D.
71) 4-Chlorophenyl phenyl ether	...	0.000	204	0		N.D.
74) 4,6-Dinitro-2-methylphenol	...	0.000	198	0		N.D.
75) Azobenzene	...	0.000	77	0		N.D. d
76) 1,2-Diphenylhydrazine	...	0.000	182	0		N.D.
77) Diphenylamine	...	0.000	170	0		N.D.
78) N-Nitrosodiphenylamine	...	0.000	168	0		N.D.
79) 4-Bromophenyl phenyl ether	...	0.000	248	0		N.D.
80) Phenacetin	...	0.000	108	0		N.D.
81) Hexachlorobenzene	...	0.000	284	0		N.D.
82) Atrazine	...	0.000	200	0		N.D.
83) 4-Aminobiphenyl	...	0.000	169	0		N.D.
84) Pentachlorophenol	...	0.000	266	0		N.D.
85) Pentachloronitrobenzene	...	0.000	237	0		N.D.
86) Pronamide	...	0.000	173	0		N.D.
87) Phenanthrene	...	0.000	178	0		N.D. d
88) Anthracene	...	0.000	178	0		N.D. d
89) Carbazole	...	0.000	167	0		N.D.
90) Di-n-butyl phthalate	...	0.000	149	0		N.D. d
91) Fluoranthene	...	0.000	202	0		N.D. d
93) Pyrene	...	0.000	202	0		N.D. d
95) Benzidine	...	0.000	184	0		N.D.
96) p-Dimethylaminoazobenzene	...	0.000	225	0		N.D.
97) Butyl benzyl phthalate	...	0.000	149	0		N.D.
98) Benz(a)anthracene	...	0.000	228	0		N.D. d
99) 3,3'-Dichlorobenzidine	...	0.000	252	0		N.D.
100) Chrysene	...	0.000	228	0		N.D. d
101) Bis(2-ethylhexyl)phthalate	...	0.000	149	0		N.D. d
102) Di-n-octyl phthalate	...	0.000	149	0		N.D.
103) 3-Methylcholanthrene	...	0.000	268	0		N.D.

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Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121461.D
Acq On : 14 Dec 2021 4:02 pm
Operator : YH
Sample : 2112G62-001C
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Dec 14 16:58:25 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

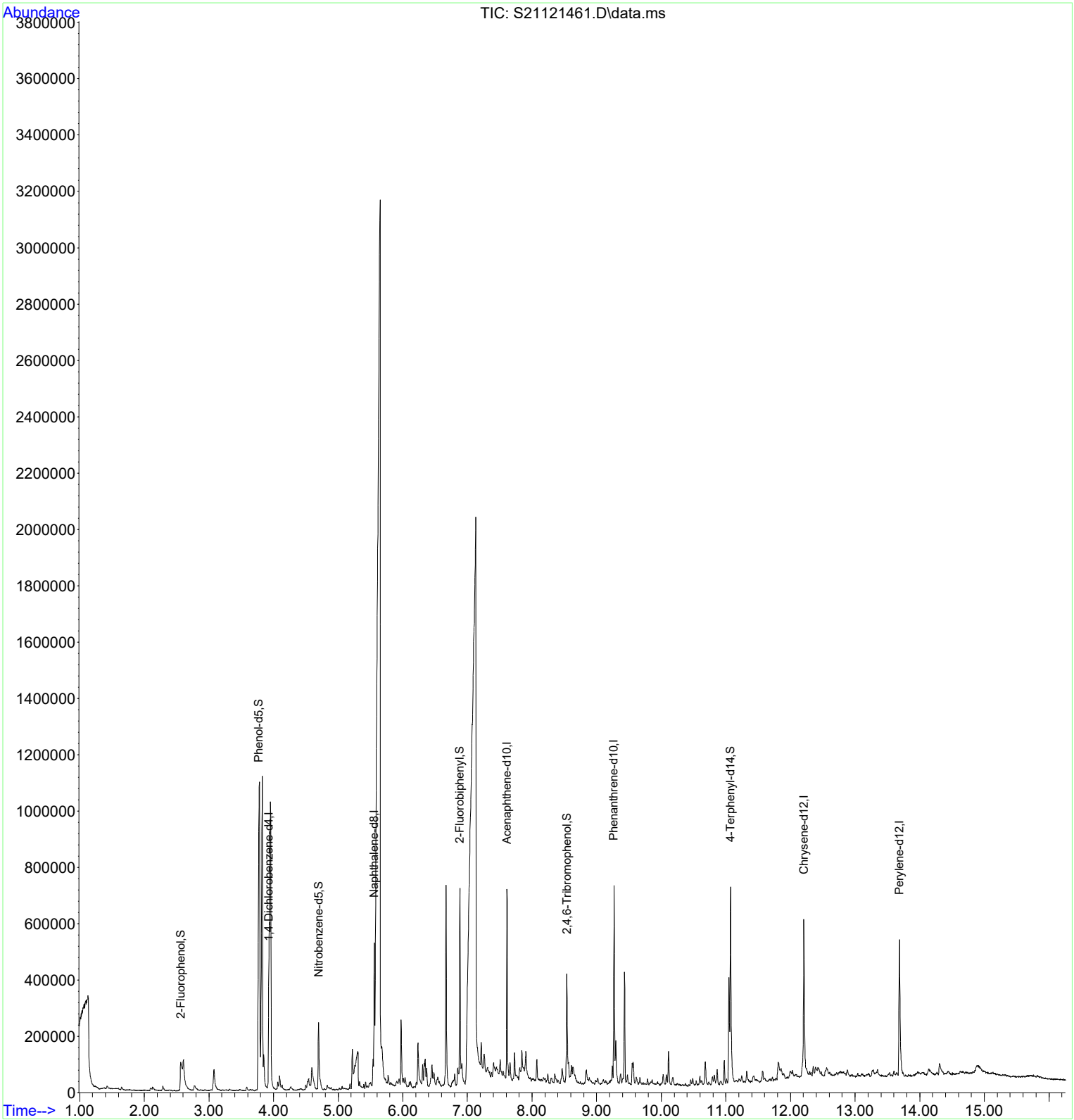
Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
105) Benzo[b]fluoranthene	...	0.000	252	0		N.D.	d
106) Benzo[k]fluoranthene	...	0.000	252	0		N.D.	d
107) Benzo[a]pyrene	...	0.000	252	0		N.D.	d
108) Dibenz(a,j)acridine	...	0.000	279	0		N.D.	
109) Indeno[1,2,3-cd]pyrene	...	0.000	276	0		N.D.	d
110) Dibenz(a,h)anthracene	...	0.000	278	0		N.D.	
111) Benzo[g,h,i]perylene	...	0.000	276	0		N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121461.D
Acq On : 14 Dec 2021 4:02 pm
Operator : YH
Sample : 2112G62-001C
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Dec 14 16:58:25 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration



Injection Log

Directory: C:\msdchem\1\DATA\R211214

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	R1121401.D	1.	DFTPP	TUNE DFTPP_4	14 Dec 2021 09:27
2	3	R1121403.D	1.	EX60	CCV 625.1	14 Dec 2021 10:18
3	2	R1121404.D	1.	BNA60	CCV 8270_TCL4.2_S	14 Dec 2021 09:52
4	2	R1121409.D	1.	BNA60	CCV 8270C_S	14 Dec 2021 17:35
5	60	R1121411.D	1.	2112D98-001B	SAMP 8270_TCL4.2_W	14 Dec 2021 10:44
6	61	R1121412.D	1.	2112D98-002B	SAMP 8270_TCL4.2_W	14 Dec 2021 11:09
7	62	R1121413.D	1.	2112D98-003B	SAMP 8270_TCL4.2_W	14 Dec 2021 11:34
8	63	R1121414.D	1.	2112D98-004B	SAMP 8270_TCL4.2_W	14 Dec 2021 11:59
9		R1121416.D	1.			
10	64	R1121420.D	1.	LCS-327166	LCS 8270_TCL4.2_W	14 Dec 2021 12:48
11	65	R1121421.D	1.	2112C61-008DMSD	MSD 8270_TCL4.2_W	14 Dec 2021 19:17
12	66	R1121422.D	1.	2112G62-005D	SAMP 8270_TCL4.2_S	14 Dec 2021 13:13
13	67	R1121423.D	1.	2112G62-007C	SAMP 8270_TCL4.2_S	14 Dec 2021 13:38
14	68	R1121424.D	1.	2112G62-008D	SAMP 8270_TCL4.2_S	14 Dec 2021 14:05
15	69	R1121425.D	1.	2112G62-009B	SAMP 8270_TCL4.2_S	14 Dec 2021 14:30
16	70	R1121426.D	1.	2112G62-002C	SAMP 8270_TCL4.2_W	14 Dec 2021 14:57
17	71	R1121427.D	1.	2112G62-011C	SAMP 8270_TCL4.2_W	14 Dec 2021 15:23
18	72	R1121428.D	1.	2112G62-012C	SAMP 8270_TCL4.2_W	14 Dec 2021 15:49
19	73	R1121429.D	1.	2112C61-001B	SAMP 1311_B	14 Dec 2021 16:16
20	74	R1121430.D	1.	2112G62-0006EMS	MS 8270_TCL4.2_S	14 Dec 2021 18:27
21	75	R1121431.D	1.	2112G62-0006EMSD	MSD 8270_TCL4.2_S	14 Dec 2021 18:52
22	76	R1121432.D	1.	2112G15-001B	SAMP 8270_TCL4.2_S	14 Dec 2021 19:42
23	77	R1121433.D	1.	2112G15-002B	SAMP 8270_TCL4.2_S	14 Dec 2021 20:06
24	78	R1121434.D	1.	2112G15-003B	SAMP 8270_TCL4.2_S	14 Dec 2021 20:32
25	79	R1121435.D	1.	2112G15-004B	SAMP 8270_TCL4.2_S	14 Dec 2021 20:58
26	80	R1121436.D	1.	2112C61-002B	SAMP 1311_B	14 Dec 2021 16:43
27	81	R1121437.D	1.	2112C61-003B	SAMP 1311_B	14 Dec 2021 17:09
28	82	R1121438.D	1.	2112G62-006E	SAMP 8270_TCL4.2_S	14 Dec 2021 18:01
29	83	R1121440.D	1.	MB-327066	MBLK 8270_TCL4.2_S	14 Dec 2021 21:23
30	84	R1121441.D	1.	LCS-327066	LCS 8270_TCL4.2_S	14 Dec 2021 21:49
31	85	R1121442.D	1.	2112822-007B	SAMP 8270_TCL4.2_S	14 Dec 2021 22:15

Injection Log

Directory: C:\msdchem\1\DATA\R211214

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
32	86	R1121443.D	1.	2112822-007BMS	SAMP 8270_TCL4.2_S	14 Dec 2021 22:41
33	87	R1121444.D	1.	2112822-007BMSD	MS 8270_TCL4.2_S	14 Dec 2021 23:07
34	88	R1121445.D	1.	2112822-005B	MSD 8270_TCL4.2_S	14 Dec 2021 23:33
35	89	R1121446.D	1.	2112822-006B	SAMP 8270_TCL4.2_S	14 Dec 2021 23:59
36	90	R1121447.D	1.	2112822-008B	SAMP 8270_TCL4.2_S	15 Dec 2021 00:25
37	91	R1121448.D	1.	2112822-009B	SAMP 8270_TCL4.2_S	15 Dec 2021 00:51
38	92	R1121449.D	1.	2112822-010B	SAMP 8270_TCL4.2_S	15 Dec 2021 01:17
39	93	R1121450.D	1.	2112822-011B	SAMP 8270_TCL4.2_S	15 Dec 2021 01:42

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121404.D
Acq On : 14 Dec 2021 9:52 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_S
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:12 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	93	-0.01
2		Pyridine	60.000	61.525	-2.5	96	0.00
3	T	2-Picoline	60.000	63.709	-6.2	101	-0.01
4	T	Methyl methanesulfonate	60.000	66.278	-10.5	102	-0.02
5	S	2-Fluorophenol	60.000	67.178	-12.0	103	-0.02
6	T	Ethyl methanesulfonate	60.000	64.147	-6.9	99	-0.02
7	C	Benzaldehyde	60.000	64.741	-7.9#	109	-0.02
8	T	Aniline	60.000	61.443	-2.4	92	-0.02
9	S	Phenol-d5	60.000	70.978	-18.3	110	-0.02
10	C	Phenol	60.000	61.489	-2.5#	95	-0.01
11	T	Bis(2-chloroethyl)ether	60.000	63.850	-6.4	98	-0.01
12	T	2-Chlorophenol	60.000	66.647	-11.1	103	-0.02
13	T	1,3-Dichlorobenzene	60.000	63.954	-6.6	98	-0.01
14	CCC	1,4-Dichlorobenzene	60.000	63.144	-5.2	97	-0.01
15	T	1,2-Dichlorobenzene	60.000	64.057	-6.8	98	-0.01
16	T	Benzyl alcohol	60.000	66.267	-10.4	101	-0.01
17	T	Bis(2-chloroisopropyl)ether	60.000	73.178	-22.0#	111	-0.01
18	T	2-Methylphenol	60.000	69.511	-15.9	106	-0.01
19	T	3,4-Methylphenol	120.000	137.156	-14.3	105	0.00
20	PC	N-Nitrosodi-n-propylamine	60.000	72.155	-20.3	109	-0.01
21	T	N-Nitrosodimethylamine	60.000	71.911	-19.9	110	-0.01
22	T	Hexachloroethane	60.000	69.029	-15.0	106	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	98	-0.01
24	S	Nitrobenzene-d5	60.000	69.388	-15.6	112	-0.01
25	T	Acetophenone	120.000	131.843	-9.9	106	0.00
26	M	Nitrobenzene	60.000	66.201	-10.3	107	-0.01
27	T	N-Nitrosopiperidine	60.000	66.226	-10.4	106	-0.01
28	T	Isophorone	60.000	64.860	-8.1	104	-0.01
29	CCC	2-Nitrophenol	60.000	76.788	-28.0#	123	-0.01
30	T	2,4-Dimethylphenol	60.000	65.845	-9.7	104	-0.01
31	T	Bis(2-chloroethoxy)methane	60.000	65.572	-9.3	105	-0.01
32	CCC	2,4-Dichlorophenol	60.000	64.773	-8.0	103	-0.01
33	T	1,2,4-Trichlorobenzene	60.000	61.986	-3.3	99	-0.01
34	T	Naphthalene	60.000	62.936	-4.9	101	-0.01
35	T	Benzoic acid	60.000	36.239	39.6#	0	-5.77#
36	T	2,6-Dichlorophenol	60.000	67.117	-11.9	107	-0.01
37	T	4-Chloroaniline	60.000	64.606	-7.7	102	-0.01
38	CCC	Hexachlorobutadiene	60.000	64.751	-7.9	104	0.00
39	T	a,a-Dimethylphenethylamine	60.000	64.640	-7.7	102	-0.03
40		Caprolactam	60.000	66.696	-11.2	106	-0.02
41	CCC	4-Chloro-3-methylphenol	60.000	66.918	-11.5	106	-0.01
42	T	N-Nitroso-di-n-butylamine	60.000	58.246	2.9	82	0.00
43	T	2-Methylnaphthalene	60.000	66.141	-10.2	105	0.00
44	T	1-Methylnaphthalene	60.000	63.191	-5.3	101	-0.01
45	I	Acenaphthene-d10	40.000	40.000	0.0	100	-0.01
46	T	1,2,4,5-Tetrachlorobenzene	60.000	63.206	-5.3	104	0.00
47	PC	Hexachlorocyclopentadiene	60.000	44.466	25.9#	71	0.00
48	CCC	2,4,6-Trichlorophenol	60.000	59.555	0.7	96	-0.01
49	T	2,4,5-Trichlorophenol	60.000	60.312	-0.5	97	-0.02
50	S	2-Fluorobiphenyl	60.000	62.881	-4.8	103	0.00
51		Biphenyl	60.000	64.945	-8.2	106	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121404.D
Acq On : 14 Dec 2021 9:52 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_S
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:12 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	2-Chloronaphthalene	60.000	63.292	-5.5	103	-0.01
53	T	1-Chloronaphthalene	60.000	62.524	-4.2	103	0.00
54	T	2-Nitroaniline	60.000	77.361	-28.9#	125	-0.01
55	T	3-Nitroaniline	60.000	69.743	-16.2	113	-0.01
56	T	Pentachlorobenzene	60.000	63.647	-6.1	105	0.00
57	T	4-Nitroaniline	60.000	68.401	-14.0	110	-0.01
58	T	2-Naphthylamine	60.000	62.602	-4.3	102	-0.01
59	T	1-Naphthylamine	60.000	56.553	5.7	93	-0.01
60	T	Dimethyl phthalate	60.000	63.641	-6.1	105	-0.01
61	T	Acenaphthylene	60.000	62.614	-4.4	102	0.00
62	T	2,6-Dinitrotoluene	60.000	72.501	-20.8#	117	-0.01
63	CCC	Acenaphthene	60.000	63.369	-5.6	104	-0.01
64	PC	2,4-Dinitrophenol	60.000	33.505	44.2#	39	0.01
65	T	Dibenzofuran	60.000	63.171	-5.3	102	0.00
66	PC	4-Nitrophenol	60.000	53.919	10.1	87	-0.03
67	M	2,4-Dinitrotoluene	60.000	71.844	-19.7	115	0.00
68	T	2,3,4,6-Tetrachlorophenol	60.000	56.659	5.6	92	0.00
69	T	Diethyl phthalate	60.000	65.374	-9.0	107	0.00
70	T	Fluorene	60.000	63.749	-6.2	103	0.00
71	T	4-Chlorophenyl phenyl ether	60.000	64.500	-7.5	106	0.00
72	S	2,4,6-Tribromophenol	60.000	74.690	-24.5#	122	0.00
73	I	Phenanthrene-d10	40.000	40.000	0.0	102	-0.01
74	T	4,6-Dinitro-2-methylphenol	60.000	62.875	-4.8	123	0.00
75	T	Azobenzene	60.000	74.015	-23.4#	126	-0.01
76	T	1,2-Diphenylhydrazine	60.000	58.581	2.4	98	-0.01
77	CCC	Diphenylamine	60.000	57.377	4.4	95	-0.01
78	T	N-Nitrosodiphenylamine	60.000	61.112	-1.9	102	-0.01
79	T	4-Bromophenyl phenyl ether	60.000	63.795	-6.3	108	0.00
80	T	Phenacetin	60.000	73.757	-22.9#	120	-0.01
81	T	Hexachlorobenzene	60.000	64.884	-8.1	110	0.00
82		Atrazine	60.000	67.325	-12.2	112	0.00
83	T	4-Aminobiphenyl	60.000	52.573	12.4	85	0.00
84	CCC	Pentachlorophenol	60.000	53.522	10.8	87	-0.01
85	T	Pentachloronitrobenzene	60.000	69.547	-15.9	114	0.00
86	T	Pronamide	60.000	57.049	4.9	94	-0.01
87	T	Phenanthrene	60.000	63.480	-5.8	106	-0.01
88	T	Anthracene	60.000	64.848	-8.1	108	-0.01
89	T	Carbazole	60.000	69.195	-15.3	115	-0.01
90	T	Di-n-butyl phthalate	60.000	68.589	-14.3	112	-0.01
91	CCC	Fluoranthene	60.000	65.449	-9.1	108	-0.01
92	I	Chrysene-d12	40.000	40.000	0.0	107	0.00
93	T	Pyrene	60.000	58.802	2.0	104	0.00
94	S	4-Terphenyl-d14	60.000	62.414	-4.0	110	-0.01
95	T	Benzidine	60.000	57.703	3.8	98	-0.02
96	T	p-Dimethylaminoazobenzene	60.000	59.619	0.6	104	-0.01
97	T	Butyl benzyl phthalate	60.000	65.989	-10.0	114	-0.01
98	T	Benz(a)anthracene	60.000	60.802	-1.3	106	0.00
99	T	3,3'-Dichlorobenzidine	60.000	64.807	-8.0	109	-0.01
100	T	Chrysene	60.000	58.346	2.8	103	0.00
101	T	Bis(2-ethylhexyl)phthalate	60.000	71.540	-19.2	119	-0.01
102	CCC	Di-n-octyl phthalate	60.000	75.347	-25.6#	129	0.00

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Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121404.D
Acq On : 14 Dec 2021 9:52 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_S
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:12 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	60.000	66.145	-10.2	115	-0.01
104	T	Indeno[1,2,3-cd]pyrene	60.000	62.337	-3.9	109	0.00
105	I	Perylene-d12	40.000	40.000	0.0	120	-0.01
106	T	Benzo[b]fluoranthene	60.000	53.484	10.9	104	0.00
107	T	Benzo[k]fluoranthene	60.000	56.858	5.2	107	0.00
108	CCC	Benzo[a]pyrene	60.000	57.276	4.5	106	-0.01
109	T	Dibenz(a,j)acridine	60.000	60.877	-1.5	116	0.00
110	T	Dibenz(a,h)anthracene	60.000	58.319	2.8	110	0.00
111	T	Benzo[g,h,i]perylene	60.000	57.187	4.7	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121404.D
Acq On : 14 Dec 2021 9:52 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_S
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:12 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	-0.01
2		Pyridine	1.534	1.573	-2.5	96	0.00
3	T	2-Picoline	1.557	1.654	-6.2	101	-0.01
4	T	Methyl methanesulfonate	0.651	0.719	-10.4	102	-0.02
5	S	2-Fluorophenol	1.248	1.397	-11.9	103	-0.02
6	T	Ethyl methanesulfonate	1.016	1.086	-6.9	99	-0.02
7	C	Benzaldehyde	0.809	0.873	-7.9#	109	-0.02
8	T	Aniline	0.769	0.787	-2.3	92	-0.02
9	S	Phenol-d5	1.515	1.792	-18.3	110	-0.02
10	C	Phenol	1.838	1.884	-2.5#	95	-0.01
11	T	Bis(2-chloroethyl)ether	1.304	1.387	-6.4	98	-0.01
12	T	2-Chlorophenol	1.407	1.563	-11.1	103	-0.02
13	T	1,3-Dichlorobenzene	1.605	1.711	-6.6	98	-0.01
14	CCC	1,4-Dichlorobenzene	1.623	1.708	-5.2	97	-0.01
15	T	1,2-Dichlorobenzene	1.512	1.614	-6.7	98	-0.01
16	T	Benzyl alcohol	0.904	0.998	-10.4	101	-0.01
17	T	Bis(2-chloroisopropyl)ether	1.364	1.663	-21.9#	111	-0.01
18	T	2-Methylphenol	1.058	1.226	-15.9	106	-0.01
19	T	3,4-Methylphenol	1.376	1.572	-14.2	105	0.00
20	PC	N-Nitrosodi-n-propylamine	0.868	1.044	-20.3	109	-0.01
21	T	N-Nitrosodimethylamine	0.471	0.564	-19.7	110	-0.01
22	T	Hexachloroethane	0.572	0.658	-15.0	106	0.00
23	I	Naphthalene-d8	1.000	1.000	0.0	98	-0.01
24	S	Nitrobenzene-d5	0.310	0.358	-15.5	112	-0.01
25	T	Acetophenone	0.454	0.498	-9.7	106	0.00
26	M	Nitrobenzene	0.175	0.193	-10.3	107	-0.01
27	T	N-Nitrosopiperidine	0.173	0.191	-10.4	106	-0.01
28	T	Isophorone	0.639	0.691	-8.1	104	-0.01
29	CCC	2-Nitrophenol	0.168	0.215	-28.0#	123	-0.01
30	T	2,4-Dimethylphenol	0.310	0.340	-9.7	104	-0.01
31	T	Bis(2-chloroethoxy)methane	0.402	0.440	-9.5	105	-0.01
32	CCC	2,4-Dichlorophenol	0.297	0.320	-7.7	103	-0.01
33	T	1,2,4-Trichlorobenzene	0.335	0.346	-3.3	99	-0.01
34	T	Naphthalene	1.048	1.099	-4.9	101	-0.01
35	T	Benzoic acid	0.060	0.000	100.0#	0#	-5.77#
36	T	2,6-Dichlorophenol	0.289	0.323	-11.8	107	-0.01
37	T	4-Chloroaniline	0.440	0.474	-7.7	102	-0.01
38	CCC	Hexachlorobutadiene	0.191	0.206	-7.9	104	0.00
39	T	a,a-Dimethylphenethylamine	0.802	0.863	-7.6	102	-0.03
40		Caprolactam	0.113	0.125	-10.6	106	-0.02
41	CCC	4-Chloro-3-methylphenol	0.283	0.316	-11.7	106	-0.01
42	T	N-Nitroso-di-n-butylamine	0.250	0.243	2.8	82	0.00
43	T	2-Methylnaphthalene	0.607	0.670	-10.4	105	0.00
44	T	1-Methylnaphthalene	0.597	0.628	-5.2	101	-0.01
45	I	Acenaphthene-d10	1.000	1.000	0.0	100	-0.01
46	T	1,2,4,5-Tetrachlorobenzene	0.553	0.583	-5.4	104	0.00
47	PC	Hexachlorocyclopentadiene	0.305	0.226	25.9#	71	0.00
48	CCC	2,4,6-Trichlorophenol	0.356	0.354	0.6	96	-0.01
49	T	2,4,5-Trichlorophenol	0.399	0.401	-0.5	97	-0.02
50	S	2-Fluorobiphenyl	1.292	1.354	-4.8	103	0.00
51		Biphenyl	1.390	1.504	-8.2	106	0.00

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Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121404.D
Acq On : 14 Dec 2021 9:52 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_S
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:12 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	T	2-Chloronaphthalene	1.166	1.230	-5.5	103	-0.01
53	T	1-Chloronaphthalene	1.054	1.098	-4.2	103	0.00
54	T	2-Nitroaniline	0.274	0.353	-28.8#	125	-0.01
55	T	3-Nitroaniline	0.324	0.376	-16.0	113	-0.01
56	T	Pentachlorobenzene	0.488	0.518	-6.1	105	0.00
57	T	4-Nitroaniline	0.336	0.383	-14.0	110	-0.01
58	T	2-Naphthylamine	1.172	1.223	-4.4	102	-0.01
59	T	1-Naphthylamine	1.253	1.181	5.7	93	-0.01
60	T	Dimethyl phthalate	1.263	1.340	-6.1	105	-0.01
61	T	Acenaphthylene	1.746	1.822	-4.4	102	0.00
62	T	2,6-Dinitrotoluene	0.264	0.319	-20.8#	117	-0.01
63	CCC	Acenaphthene	1.058	1.117	-5.6	104	-0.01
64	PC	2,4-Dinitrophenol	0.100	0.036	64.0#	39#	0.01
65	T	Dibenzofuran	1.626	1.711	-5.2	102	0.00
66	PC	4-Nitrophenol	0.158	0.142	10.1	87	-0.03
67	M	2,4-Dinitrotoluene	0.367	0.440	-19.9	115	0.00
68	T	2,3,4,6-Tetrachlorophenol	0.281	0.265	5.7	92	0.00
69	T	Diethyl phthalate	1.224	1.333	-8.9	107	0.00
70	T	Fluorene	1.353	1.437	-6.2	103	0.00
71	T	4-Chlorophenyl phenyl ether	0.650	0.699	-7.5	106	0.00
72	S	2,4,6-Tribromophenol	0.155	0.193	-24.5#	122	0.00
73	I	Phenanthrene-d10	1.000	1.000	0.0	102	-0.01
74	T	4,6-Dinitro-2-methylphenol	0.091	0.113	-24.2#	123	0.00
75	T	Azobenzene	0.636	0.784	-23.3#	126	-0.01
76	T	1,2-Diphenylhydrazine	0.194	0.190	2.1	98	-0.01
77	CCC	Diphenylamine	0.135	0.130	3.7	95	-0.01
78	T	N-Nitrosodiphenylamine	0.639	0.651	-1.9	102	-0.01
79	T	4-Bromophenyl phenyl ether	0.215	0.228	-6.0	108	0.00
80	T	Phenacetin	0.327	0.402	-22.9#	120	-0.01
81	T	Hexachlorobenzene	0.230	0.249	-8.3	110	0.00
82		Atrazine	0.200	0.224	-12.0	112	0.00
83	T	4-Aminobiphenyl	0.809	0.709	12.4	85	0.00
84	CCC	Pentachlorophenol	0.127	0.114	10.2	87	-0.01
85	T	Pentachloronitrobenzene	0.084	0.097	-15.5	114	0.00
86	T	Pronamide	0.291	0.277	4.8	94	-0.01
87	T	Phenanthrene	1.090	1.153	-5.8	106	-0.01
88	T	Anthracene	1.096	1.185	-8.1	108	-0.01
89	T	Carbazole	0.983	1.134	-15.4	115	-0.01
90	T	Di-n-butyl phthalate	1.167	1.334	-14.3	112	-0.01
91	CCC	Fluoranthene	1.213	1.323	-9.1	108	-0.01
92	I	Chrysene-d12	1.000	1.000	0.0	107	0.00
93	T	Pyrene	1.391	1.363	2.0	104	0.00
94	S	4-Terphenyl-d14	0.989	1.028	-3.9	110	-0.01
95	T	Benzidine	0.520	0.500	3.8	98	-0.02
96	T	p-Dimethylaminoazobenzene	0.276	0.274	0.7	104	-0.01
97	T	Butyl benzyl phthalate	0.571	0.628	-10.0	114	-0.01
98	T	Benz(a)anthracene	1.304	1.321	-1.3	106	0.00
99	T	3,3'-Dichlorobenzidine	0.475	0.513	-8.0	109	-0.01
100	T	Chrysene	1.353	1.316	2.7	103	0.00
101	T	Bis(2-ethylhexyl)phthalate	0.756	0.902	-19.3	119	-0.01
102	CCC	Di-n-octyl phthalate	1.264	1.587	-25.6#	129	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121404.D
Acq On : 14 Dec 2021 9:52 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_S
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:12 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	0.443	0.488	-10.2	115	-0.01
104	T	Indeno[1,2,3-cd]pyrene	1.518	1.577	-3.9	109	0.00
105	I	Perylene-d12	1.000	1.000	0.0	120	-0.01
106	T	Benzo[b]fluoranthene	1.344	1.198	10.9	104	0.00
107	T	Benzo[k]fluoranthene	1.339	1.269	5.2	107	0.00
108	CCC	Benzo[a]pyrene	1.179	1.126	4.5	106	-0.01
109	T	Dibenz(a,j)acridine	1.009	1.024	-1.5	116	0.00
110	T	Dibenz(a,h)anthracene	1.240	1.205	2.8	110	0.00
111	T	Benzo[g,h,i]perylene	1.264	1.205	4.7	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\DATA\R211214\R1121404.D
Tune Time : 14 Dec 2021 9:52 am

Daily Calibration File : C:\msdchem\1\DATA\R211214\R1121404.D

(2FP)	(PHL)	(NBZ)	(FBP)	(DCB)	(NPT)	(ANT)
				103319	420346	251465

(TPH)	(PHN)	(CRY)	(PRY)
	454973	441714	485168

File	Sample	Surrogate Recovery %				Internal Standard Responses		
R1121411.D								
	2112D98-00	33	19	92	87	91850	372858	219756
		89	89			398278	378048	415134
R1121412.D								
	2112D98-00	27	16	91	88	91714	383381	222103
		77	86			402754	380258	404347
R1121413.D								
	2112D98-00	36	20	90	82	91689	375346	223620
		93	89			396339	368536	420607
R1121414.D								
	2112D98-00	31	18	84	79	97313	395650	233211
		89	74			406720	397530	437066
R1121420.D								
	LCS-327166	64	47	103	91	89705	352094	212578
		108	98			389778	362698	404885
No Quant Results for C:\msdchem\1\DATA\R211214\R1121421.D								
R1121422.D								
	2112G62-00	62	62	71	64	87978	357129	215736
		104	68			395953	375755	423511
R1121423.D								
	2112G62-00	42	43	48	47	106195	438283	257587
		61	46			478141	470442	541702
R1121424.D								
	2112G62-00	63	67	76	73	89508	369411	218337
		95	79			402094	397984	400454
R1121425.D								
	2112G62-00	64	66	73	72	92450	376831	225645
		90	71			410409	402868	422464
R1121426.D								
	2112G62-00	32	18	62	53	97495	402025	242585
		66	53			440259	430439	485177
R1121427.D								
	2112G62-01	35	20	82	78	96779	406750	240337
		99	84			442202	426741	466191
R1121428.D								
	2112G62-01	36	21	84	78	95366	397406	235344
		93	81			433546	426757	458464
R1121429.D								
	2112C61-00	94	85	109	102	81166	329578	198622
		124*	108			359828	350565	383407
R1121430.D								

	2112G62-00	55	58	60	58	101769	426693	247490
		71	59			459382	445545	412234
R1121431.D								
	2112G62-00	54	58	62	57	89770	369063	219833
		69	61			402805	388473	313886
R1121432.D								
	2112G15-00	54	60	69	63	97062	406706	244909
		71	62			446453	445097	381999
R1121433.D								
	2112G15-00	69	72	76	71	93598	380390	231296
		83	74			422243	419621	353667
R1121434.D								
	2112G15-00	69	71	73	72	94058	388734	231944
		84	74			425505	423884	345190
R1121435.D								
	2112G15-00	60	63	64	65	96793	403227	241359
		76	72			438976	427271	365174
R1121436.D								
	2112C61-00	69	61	83	78	97364	394946	235257
		97	84			424490	415489	442162
R1121437.D								
	2112C61-00	84	76	99	94	88372	368458	214332
		106	96			390754	379927	416539
R1121438.D								
	2112G62-00	47	48	54	52	99937	410598	245884
		62	53			454186	435336	423626
R1121440.D								
	MB-327066	84	84	85	88	73738	307914	180146
		109	95			326998	330395	297951
R1121441.D								
	LCS-327066	82	89	93	88	76316	314944	186607
		113	93			336582	343197	307271
R1121442.D								
(fails)	2112822-00	61	62	65	68	82687	340524	201252
		84	71			368907	369960	329068
R1121443.D								
(fails)	2112822-00	70	75	80	80	77840	318229	186573
		101	84			333360	346330	315533
R1121444.D								
(fails)	2112822-00	67	75	79	83	75392	304906	178897
		103	90			318959	338763	296294
R1121445.D								
(fails)	2112822-00	65	65	79	85	73857	304724	178600
		92	85			308509	316374	289310
R1121446.D								
(fails)	2112822-00	58	60	63	65	74282	308628	183807
		80	70			337295	344230	300538
R1121447.D								
(fails)	2112822-00	71	71	76	76	79803	328347	196747
		91	81			352365	353972	315984
R1121448.D								
(fails)	2112822-00	59	59	60	64	82352	340069	198660
		82	77			359924	356937	310441

R1121449.D								
(fails)	2112822-01	74	76	76	81	73119	311515	179488
		100	96			333828	310305	277321
R1121450.D								
(fails)	2112822-01	69	71	75	76	71207	296184	175320
		88	86			312366	307498	291287

(fails) - fails 12hr time check * - fails criteria

Created: Wed Dec 15 09:32:43 2021 Instrument #10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121404.D
Acq On : 14 Dec 2021 9:52 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_S
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:12 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards			R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4		...	4.091	152	103319	40.00	ng		-0.01
23) Naphthalene-d8		...	5.709	136	420346	40.00	ng		-0.01
45) Acenaphthene-d10		...	7.766	164	251465	40.00	ng		-0.01
73) Phenanthrene-d10		...	9.433	188	454973	40.00	ng		-0.01
92) Chrysene-d12		...	12.387	240	441714	40.00	ng		0.00
105) Perylene-d12		...	13.861	264	485168	40.00	ng		-0.01
System Monitoring Compounds									
5) 2-Fluorophenol		...	2.664	112	216531	67.18	ng		-0.02
Spiked Amount	100.000	Range	21 - 110		Recovery =	67.18%			
9) Phenol-d5		...	3.840	99	277787	70.98	ng		-0.02
Spiked Amount	100.000	Range	10 - 110		Recovery =	70.98%			
24) Nitrobenzene-d5		...	4.849	82	225903	69.39	ng		-0.01
Spiked Amount	50.000	Range	34 - 114		Recovery =	138.78%#			
50) 2-Fluorobiphenyl		...	7.034	172	510626	62.88	ng		0.00
Spiked Amount	50.000	Range	43 - 116		Recovery =	125.76%#			
72) 2,4,6-Tribromophenol		...	8.690	330	72636	74.69	ng		0.00
Spiked Amount	100.000	Range	10 - 123		Recovery =	74.69%			
94) 4-Terphenyl-d14		...	11.238	244	681454	62.41	ng		-0.01
Spiked Amount	50.000	Range	33 - 141		Recovery =	124.82%			
Target Compounds						Qvalue			
2) Pyridine		...	1.339	79	243848	61.53	ng		97
3) 2-Picoline		...	1.964	93	256293	63.71	ng		99
4) Methyl methanesulfonate		...	2.424	80	111472	66.28	ng		94
6) Ethyl methanesulfonate		...	3.198	79	168308	64.15	ng		98
7) Benzaldehyde		...	3.546	105	135331	64.74	ng		99
8) Aniline		...	3.706	66	121977	61.44	ng	#	89
10) Phenol		...	3.861	94	291987	61.49	ng	#	65
11) Bis(2-chloroethyl)ether		...	3.797	93	215029	63.85	ng		93
12) 2-Chlorophenol		...	3.882	128	242268	66.65	ng		94
13) 1,3-Dichlorobenzene		...	4.010	146	265173	63.95	ng		100
14) 1,4-Dichlorobenzene		...	4.112	146	264644	63.14	ng		99
15) 1,2-Dichlorobenzene		...	4.310	146	250170	64.06	ng		99
16) Benzyl alcohol		...	4.379	108	154721	66.27	ng		94
17) Bis(2-chloroisopropyl)ether		...	4.518	45	257738	73.18	ng	#	68
18) 2-Methylphenol		...	4.614	107	189933	69.51	ng	#	83
19) 3,4-Methylphenol		...	4.839	107	487381	137.16	ng	#	95
20) N-Nitrosodi-n-propylamine		...	4.694	70	161752	72.16	ng		97
21) N-Nitrosodimethylamine		...	1.334	42	87399	71.91	ng		95
22) Hexachloroethane		...	4.726	117	102044	69.03	ng		94
25) Acetophenone		...	4.668	105	628474	131.84	ng		99
26) Nitrobenzene		...	4.871	123	121925	66.20	ng	#	82
27) N-Nitrosopiperidine		...	5.063	114	120261	66.23	ng		97
28) Isophorone		...	5.196	82	435587	64.86	ng		99
29) 2-Nitrophenol		...	5.277	139	135357	76.79	ng		96
30) 2,4-Dimethylphenol		...	5.458	122	214554	65.85	ng		98
31) Bis(2-chloroethoxy)methane		...	5.501	93	277165	65.57	ng		99
32) 2,4-Dichlorophenol		...	5.656	162	202024	64.77	ng		99
33) 1,2,4-Trichlorobenzene		...	5.661	180	218114	61.99	ng		100
34) Naphthalene		...	5.736	128	692826	62.94	ng		100
35) Benzoic acid		...	0.000	122	0	N.D.	d		
36) 2,6-Dichlorophenol		...	5.886	162	203920	67.12	ng		99
37) 4-Chloroaniline		...	5.886	127	298692	64.61	ng		97
38) Hexachlorobutadiene		...	5.918	225	129783	64.75	ng		100
39) a,a-Dimethylphenethylamine		...	5.747	58	544451	64.64	ng		76
40) Caprolactam		...	6.334	113	78894	66.70	ng	#	77

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121404.D
Acq On : 14 Dec 2021 9:52 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_S
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:12 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.596	107	199229	66.92	ng	#	1
42) N-Nitroso-di-n-butylamine	6.297	84	153024	58.25	ng		83
43) 2-Methylnaphthalene	6.580	141	422159	66.14	ng	#	70
44) 1-Methylnaphthalene	6.687	141	396221	63.19	ng		99
46) 1,2,4,5-Tetrachlorobenzene	6.788	216	219814	63.21	ng		99
47) Hexachlorocyclopentadiene	6.772	237	85222	44.47	ng		98
48) 2,4,6-Trichlorophenol	6.986	196	133411	59.56	ng		98
49) 2,4,5-Trichlorophenol	7.077	196	151368	60.31	ng		97
51) Biphenyl	7.141	154	567433	64.94	ng	#	96
52) 2-Chloronaphthalene	7.141	162	463800	63.29	ng		99
53) 1-Chloronaphthalene	7.162	162	414166	62.52	ng	#	67
54) 2-Nitroaniline	7.333	65	133054	77.36	ng		99
55) 3-Nitroaniline	7.819	138	141996	69.74	ng	#	94
56) Pentachlorobenzene	7.974	250	195297	63.65	ng		98
57) 4-Nitroaniline	8.525	138	144526	68.40	ng		93
58) 2-Naphthylamine	8.119	143	461219	62.60	ng		100
59) 1-Naphthylamine	8.215	143	445409	56.55	ng		100
60) Dimethyl phthalate	7.542	163	505405	63.64	ng		99
61) Acenaphthylene	7.606	152	687111	62.61	ng		99
62) 2,6-Dinitrotoluene	7.606	165	120360	72.50	ng	#	76
63) Acenaphthene	7.803	154	421449	63.37	ng		98
64) 2,4-Dinitrophenol	7.990	184	13672	33.51	ng		94
65) Dibenzofuran	8.012	168	645565	63.17	ng		77
66) 4-Nitrophenol	8.220	109	53697	53.92	ng	#	6
67) 2,4-Dinitrotoluene	8.081	165	165862	71.84	ng		89
68) 2,3,4,6-Tetrachlorophenol	8.220	232	99999	56.66	ng		98
69) Diethyl phthalate	8.343	149	502991	65.37	ng		98
70) Fluorene	8.396	166	542194	63.75	ng		99
71) 4-Chlorophenyl phenyl ether	8.418	204	263642	64.50	ng		99
74) 4,6-Dinitro-2-methylphenol	8.551	198	76848	62.88	ng		94
75) Azobenzene	8.594	77	535223	74.01	ng		91
76) 1,2-Diphenylhydrazine	8.594	182	129496	58.58	ng	#	58
77) Diphenylamine	8.573	170	88408	57.38	ng	#	94
78) N-Nitrosodiphenylamine	8.573	168	444126	61.11	ng		95
79) 4-Bromophenyl phenyl ether	8.957	248	155934	63.80	ng		97
80) Phenacetin	9.005	108	274394	73.76	ng		98
81) Hexachlorobenzene	9.021	284	169892	64.88	ng		97
82) Atrazine	9.224	200	153098	67.33	ng	#	93
83) 4-Aminobiphenyl	9.272	169	483852	52.57	ng		99
84) Pentachlorophenol	9.299	266	77604	53.52	ng		99
85) Pentachloronitrobenzene	9.272	237	66161	69.55	ng		98
86) Pronamide	9.385	173	188818	57.05	ng		99
87) Phenanthrene	9.459	178	786724	63.48	ng		99
88) Anthracene	9.518	178	808399	64.85	ng		100
89) Carbazole	9.748	167	773969	69.20	ng		99
90) Di-n-butyl phthalate	10.165	149	910110	68.59	ng		100
91) Fluoranthene	10.784	202	902872	65.45	ng		97
93) Pyrene	11.030	202	903231	58.80	ng		100
95) Benzidine	10.987	184	331601	57.70	ng		97
96) p-Dimethylaminoazobenzene	11.409	225	181477	59.62	ng		95
97) Butyl benzyl phthalate	11.815	149	416314	65.99	ng		99
98) Benz(a)anthracene	12.376	228	875262	60.80	ng		100
99) 3,3'-Dichlorobenzidine	12.382	252	339827	64.81	ng		97
100) Chrysene	12.414	228	871879	58.35	ng		99
101) Bis(2-ethylhexyl)phthalate	12.478	149	597472	71.54	ng		99
102) Di-n-octyl phthalate	13.162	149	1051553	75.35	ng		100
103) 3-Methylcholanthrene	14.134	268	323455	66.15	ng		95

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121404.D
Acq On : 14 Dec 2021 9:52 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_S
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:12 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

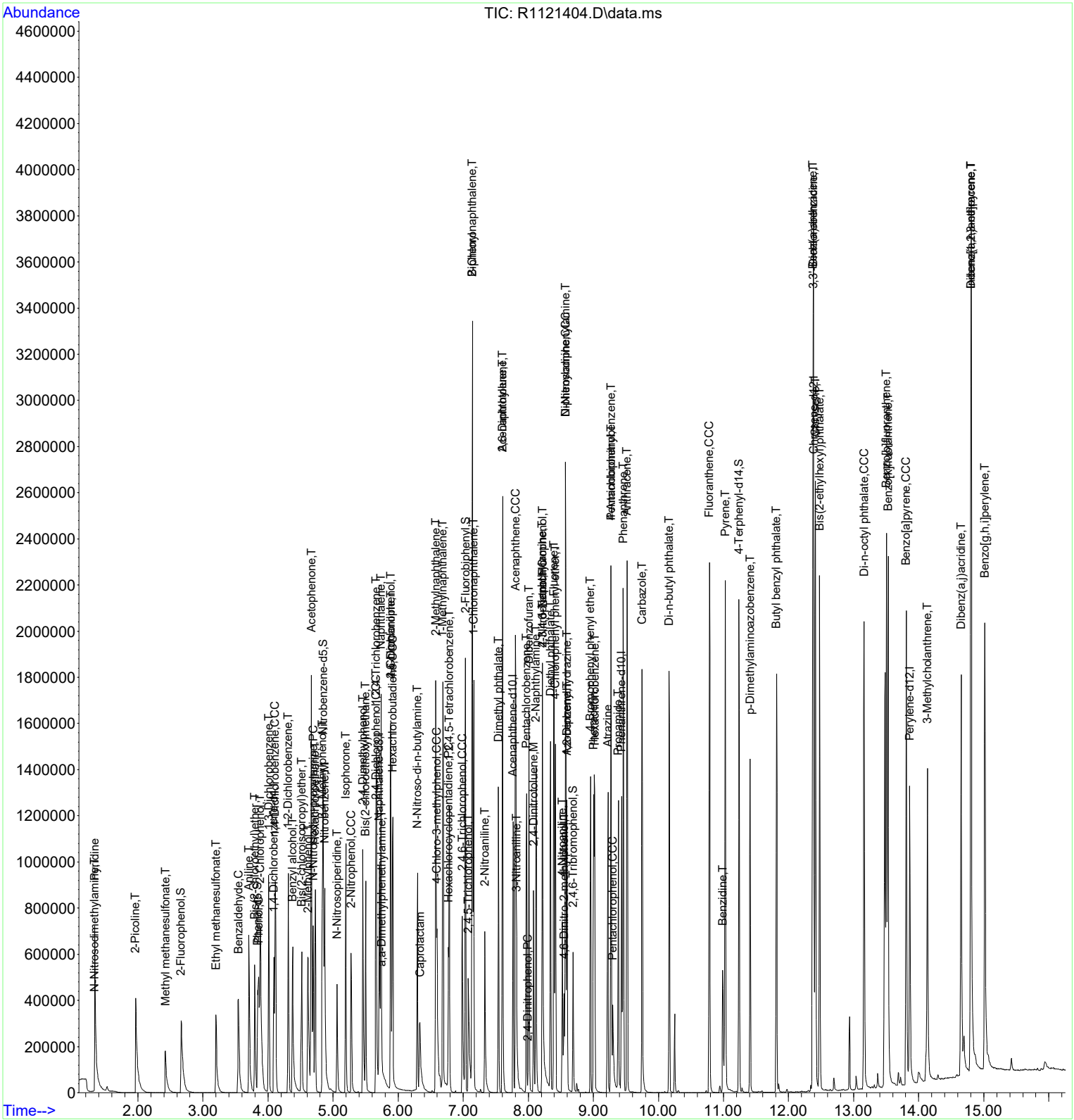
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	... 14.807	276	1044921	62.34	ng	96
106) Benzo[b]fluoranthene	... 13.503	252	872060	53.48	ng	96
107) Benzo[k]fluoranthene	... 13.530	252	923312	56.86	ng	98
108) Benzo[a]pyrene	... 13.808	252	819262	57.28	ng	97
109) Dibenz(a,j)acridine	... 14.652	279	745321	60.88	ng	98
110) Dibenz(a,h)anthracene	... 14.807	278	877023	58.32	ng	94
111) Benzo[g,h,i]perylene	... 15.015	276	876853	57.19	ng	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121404.D
Acq On : 14 Dec 2021 9:52 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_S
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:12 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121426.D
Acq On : 14 Dec 2021 2:57 pm
Operator : YH
Sample : 2112G62-002C
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 70 Sample Multiplier: 1

Quant Time: Dec 14 15:23:01 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.093	152	97495	40.00	ng	0.00
23) Naphthalene-d8	...	5.711	136	402025	40.00	ng	0.00
45) Acenaphthene-d10	...	7.773	164	242585	40.00	ng	0.00
73) Phenanthrene-d10	...	9.435	188	440259	40.00	ng	0.00
92) Chrysene-d12	...	12.389	240	430439	40.00	ng	0.00
105) Perylene-d12	...	13.869	264	485177	40.00	ng	0.00
System Monitoring Compounds							
5) 2-Fluorophenol	...	2.682	112	96123	31.60	ng	0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 31.60%				
9) Phenol-d5	...	3.900	99	68298	18.49	ng	0.05
Spiked Amount 100.000	Range 10 - 110		Recovery = 18.49%				
24) Nitrobenzene-d5	...	4.851	82	97002	31.15	ng	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 62.30%				
50) 2-Fluorobiphenyl	...	7.036	172	206737	26.39	ng	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 52.78%				
72) 2,4,6-Tribromophenol	...	8.698	330	62236	66.34	ng	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 66.34%				
94) 4-Terphenyl-d14	...	11.246	244	282790	26.58	ng	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 53.16%				

Target Compounds					Qvalue
2) Pyridine	...	0.000	79	0	N.D.
3) 2-Picoline	...	0.000	93	0	N.D.
4) Methyl methanesulfonate	...	0.000	80	0	N.D.
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.
7) Benzaldehyde	...	0.000	105	0	N.D. d
8) Aniline	...	0.000	66	0	N.D.
10) Phenol	...	0.000	94	0	N.D.
11) Bis(2-chloroethyl)ether	...	0.000	93	0	N.D.
12) 2-Chlorophenol	...	0.000	128	0	N.D. d
13) 1,3-Dichlorobenzene	...	0.000	146	0	N.D.
14) 1,4-Dichlorobenzene	...	0.000	146	0	N.D.
15) 1,2-Dichlorobenzene	...	0.000	146	0	N.D.
16) Benzyl alcohol	...	0.000	108	0	N.D. d
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0	N.D. d
18) 2-Methylphenol	...	0.000	107	0	N.D. d
19) 3,4-Methylphenol	...	0.000	107	0	N.D. d
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D.
22) Hexachloroethane	...	0.000	117	0	N.D. d
25) Acetophenone	...	0.000	105	0	N.D. d
26) Nitrobenzene	...	0.000	123	0	N.D.
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.
28) Isophorone	...	0.000	82	0	N.D. d
29) 2-Nitrophenol	...	0.000	139	0	N.D.
30) 2,4-Dimethylphenol	...	0.000	122	0	N.D. d
31) Bis(2-chloroethoxy)methane	...	0.000	93	0	N.D. d
32) 2,4-Dichlorophenol	...	0.000	162	0	N.D.
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.
34) Naphthalene	...	0.000	128	0	N.D. d
35) Benzoic acid	...	0.000	122	0	N.D. d
36) 2,6-Dichlorophenol	...	0.000	162	0	N.D.
37) 4-Chloroaniline	...	0.000	127	0	N.D.
38) Hexachlorobutadiene	...	0.000	225	0	N.D.
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D. d
40) Caprolactam	...	0.000	113	0	N.D. d

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121426.D
Acq On : 14 Dec 2021 2:57 pm
Operator : YH
Sample : 2112G62-002C
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 70 Sample Multiplier: 1

Quant Time: Dec 14 15:23:01 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	0.000	107	0	N.D.	d		
42) N-Nitroso-di-n-butylamine	0.000	84	0	N.D.	d		
43) 2-Methylnaphthalene	0.000	141	0	N.D.			
44) 1-Methylnaphthalene	0.000	141	0	N.D.	d		
46) 1,2,4,5-Tetrachlorobenzene	0.000	216	0	N.D.			
47) Hexachlorocyclopentadiene	0.000	237	0	N.D.			
48) 2,4,6-Trichlorophenol	0.000	196	0	N.D.			
49) 2,4,5-Trichlorophenol	0.000	196	0	N.D.			
51) Biphenyl	0.000	154	0	N.D.	d		
52) 2-Chloronaphthalene	0.000	162	0	N.D.			
53) 1-Chloronaphthalene	0.000	162	0	N.D.			
54) 2-Nitroaniline	0.000	65	0	N.D.	d		
55) 3-Nitroaniline	0.000	138	0	N.D.	d		
56) Pentachlorobenzene	0.000	250	0	N.D.			
57) 4-Nitroaniline	0.000	138	0	N.D.			
58) 2-Naphthylamine	0.000	143	0	N.D.			
59) 1-Naphthylamine	0.000	143	0	N.D.			
60) Dimethyl phthalate	0.000	163	0	N.D.			
61) Acenaphthylene	7.608	152	7436	0.70	ng	#	61
62) 2,6-Dinitrotoluene	0.000	165	0	N.D.			
63) Acenaphthene	7.811	154	2475	0.39	ng	#	8
64) 2,4-Dinitrophenol	0.000	184	0	N.D.			
65) Dibenzofuran	0.000	168	0	N.D.			
66) 4-Nitrophenol	0.000	109	0	N.D.	d		
67) 2,4-Dinitrotoluene	0.000	165	0	N.D.			
68) 2,3,4,6-Tetrachlorophenol	0.000	232	0	N.D.			
69) Diethyl phthalate	0.000	149	0	N.D.			
70) Fluorene	0.000	166	0	N.D.	d		
71) 4-Chlorophenyl phenyl ether	0.000	204	0	N.D.			
74) 4,6-Dinitro-2-methylphenol	0.000	198	0	N.D.			
75) Azobenzene	0.000	77	0	N.D.	d		
76) 1,2-Diphenylhydrazine	0.000	182	0	N.D.			
77) Diphenylamine	0.000	170	0	N.D.			
78) N-Nitrosodiphenylamine	0.000	168	0	N.D.			
79) 4-Bromophenyl phenyl ether	0.000	248	0	N.D.			
80) Phenacetin	0.000	108	0	N.D.	d		
81) Hexachlorobenzene	0.000	284	0	N.D.			
82) Atrazine	0.000	200	0	N.D.			
83) 4-Aminobiphenyl	0.000	169	0	N.D.			
84) Pentachlorophenol	0.000	266	0	N.D.			
85) Pentachloronitrobenzene	0.000	237	0	N.D.			
86) Pronamide	0.000	173	0	N.D.			
87) Phenanthrene	0.000	178	0	N.D.	d		
88) Anthracene	0.000	178	0	N.D.	d		
89) Carbazole	0.000	167	0	N.D.	d		
90) Di-n-butyl phthalate	0.000	149	0	N.D.	d		
91) Fluoranthene	0.000	202	0	N.D.	d		
93) Pyrene	0.000	202	0	N.D.	d		
95) Benzidine	0.000	184	0	N.D.	d		
96) p-Dimethylaminoazobenzene	0.000	225	0	N.D.			
97) Butyl benzyl phthalate	0.000	149	0	N.D.	d		
98) Benz(a)anthracene	12.378	228	5585	0.40	ng	#	48
99) 3,3'-Dichlorobenzidine	0.000	252	0	N.D.			
100) Chrysene	12.416	228	10150	0.70	ng		90
101) Bis(2-ethylhexyl)phthalate	0.000	149	0	N.D.	d		
102) Di-n-octyl phthalate	0.000	149	0	N.D.	d		
103) 3-Methylcholanthrene	0.000	268	0	N.D.			

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121426.D
Acq On : 14 Dec 2021 2:57 pm
Operator : YH
Sample : 2112G62-002C
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 70 Sample Multiplier: 1

Quant Time: Dec 14 15:23:01 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

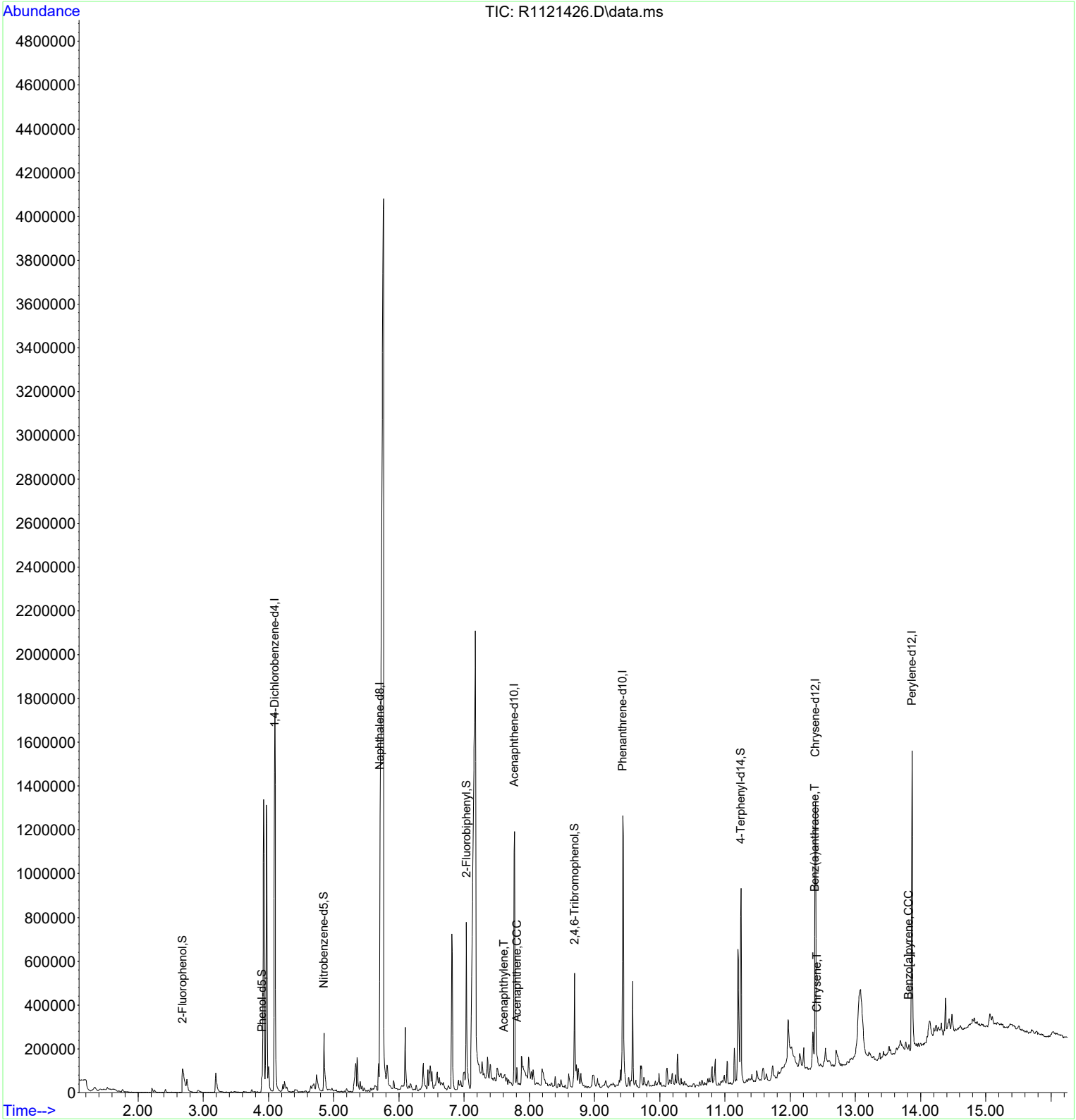
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
104) Indeno[1,2,3-cd]pyrene	0.000	276	0	N.D.	d		
106) Benzo[b]fluoranthene	0.000	252	0	N.D.	d		
107) Benzo[k]fluoranthene	0.000	252	0	N.D.	d		
108) Benzo[a]pyrene	13.821	252	7049	0.49	ng	#	80
109) Dibenz(a,j)acridine	0.000	279	0	N.D.			
110) Dibenz(a,h)anthracene	0.000	278	0	N.D.	d		
111) Benzo[g,h,i]perylene	0.000	276	0	N.D.	d		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121426.D
Acq On : 14 Dec 2021 2:57 pm
Operator : YH
Sample : 2112G62-002C
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 70 Sample Multiplier: 1

Quant Time: Dec 14 15:23:01 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121427.D
Acq On : 14 Dec 2021 3:23 pm
Operator : YH
Sample : 2112G62-011C
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 71 Sample Multiplier: 1

Quant Time: Dec 14 16:00:00 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.096	152	96779	40.00	ng	0.00
23) Naphthalene-d8	...	5.715	136	406750	40.00	ng	0.00
45) Acenaphthene-d10	...	7.771	164	240337	40.00	ng	0.00
73) Phenanthrene-d10	...	9.433	188	442202	40.00	ng	-0.01
92) Chrysene-d12	...	12.387	240	426741	40.00	ng	0.00
105) Perylene-d12	...	13.867	264	466191	40.00	ng	0.00
System Monitoring Compounds							
5) 2-Fluorophenol	...	2.680	112	106610	35.31	ng	0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 35.31%				
9) Phenol-d5	...	3.882	99	74110	20.22	ng	0.03
Spiked Amount 100.000	Range 10 - 110		Recovery = 20.22%				
24) Nitrobenzene-d5	...	4.855	82	128489	40.79	ng	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 81.58%				
50) 2-Fluorobiphenyl	...	7.034	172	304470	39.23	ng	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 78.46%				
72) 2,4,6-Tribromophenol	...	8.690	330	92155	99.15	ng	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 99.15%				
94) 4-Terphenyl-d14	...	11.244	244	441393	41.85	ng	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 83.70%				

Target Compounds					Qvalue
2) Pyridine	...	0.000	79	0	N.D.
3) 2-Picoline	...	0.000	93	0	N.D.
4) Methyl methanesulfonate	...	0.000	80	0	N.D.
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.
7) Benzaldehyde	...	0.000	105	0	N.D.
8) Aniline	...	0.000	66	0	N.D.
10) Phenol	...	0.000	94	0	N.D.
11) Bis(2-chloroethyl)ether	...	0.000	93	0	N.D.
12) 2-Chlorophenol	...	0.000	128	0	N.D.
13) 1,3-Dichlorobenzene	...	0.000	146	0	N.D.
14) 1,4-Dichlorobenzene	...	0.000	146	0	N.D.
15) 1,2-Dichlorobenzene	...	0.000	146	0	N.D.
16) Benzyl alcohol	...	0.000	108	0	N.D.
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0	N.D.
18) 2-Methylphenol	...	0.000	107	0	N.D.
19) 3,4-Methylphenol	...	0.000	107	0	N.D.
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D.
22) Hexachloroethane	...	0.000	117	0	N.D.
25) Acetophenone	...	0.000	105	0	N.D.
26) Nitrobenzene	...	0.000	123	0	N.D.
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.
28) Isophorone	...	0.000	82	0	N.D.
29) 2-Nitrophenol	...	0.000	139	0	N.D.
30) 2,4-Dimethylphenol	...	0.000	122	0	N.D.
31) Bis(2-chloroethoxy)methane	...	0.000	93	0	N.D.
32) 2,4-Dichlorophenol	...	0.000	162	0	N.D.
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.
34) Naphthalene	...	0.000	128	0	N.D.
35) Benzoic acid	...	0.000	122	0	N.D.
36) 2,6-Dichlorophenol	...	0.000	162	0	N.D.
37) 4-Chloroaniline	...	0.000	127	0	N.D.
38) Hexachlorobutadiene	...	0.000	225	0	N.D.
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D.
40) Caprolactam	...	0.000	113	0	N.D.

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121427.D
Acq On : 14 Dec 2021 3:23 pm
Operator : YH
Sample : 2112G62-011C
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 71 Sample Multiplier: 1

Quant Time: Dec 14 16:00:00 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 4-Chloro-3-methylphenol	...	0.000	107	0		N.D. d
42) N-Nitroso-di-n-butylamine	...	0.000	84	0		N.D.
43) 2-Methylnaphthalene	...	0.000	141	0		N.D.
44) 1-Methylnaphthalene	...	0.000	141	0		N.D.
46) 1,2,4,5-Tetrachlorobenzene	...	0.000	216	0		N.D.
47) Hexachlorocyclopentadiene	...	0.000	237	0		N.D.
48) 2,4,6-Trichlorophenol	...	0.000	196	0		N.D.
49) 2,4,5-Trichlorophenol	...	0.000	196	0		N.D.
51) Biphenyl	...	0.000	154	0		N.D.
52) 2-Chloronaphthalene	...	0.000	162	0		N.D.
53) 1-Chloronaphthalene	...	0.000	162	0		N.D.
54) 2-Nitroaniline	...	0.000	65	0		N.D.
55) 3-Nitroaniline	...	0.000	138	0		N.D.
56) Pentachlorobenzene	...	0.000	250	0		N.D.
57) 4-Nitroaniline	...	0.000	138	0		N.D.
58) 2-Naphthylamine	...	0.000	143	0		N.D.
59) 1-Naphthylamine	...	0.000	143	0		N.D.
60) Dimethyl phthalate	...	0.000	163	0		N.D.
61) Acenaphthylene	...	0.000	152	0		N.D.
62) 2,6-Dinitrotoluene	...	0.000	165	0		N.D.
63) Acenaphthene	...	0.000	154	0		N.D.
64) 2,4-Dinitrophenol	...	0.000	184	0		N.D.
65) Dibenzofuran	...	0.000	168	0		N.D.
66) 4-Nitrophenol	...	0.000	109	0		N.D.
67) 2,4-Dinitrotoluene	...	0.000	165	0		N.D.
68) 2,3,4,6-Tetrachlorophenol	...	0.000	232	0		N.D.
69) Diethyl phthalate	...	0.000	149	0		N.D.
70) Fluorene	...	0.000	166	0		N.D.
71) 4-Chlorophenyl phenyl ether	...	0.000	204	0		N.D.
74) 4,6-Dinitro-2-methylphenol	...	0.000	198	0		N.D.
75) Azobenzene	...	0.000	77	0		N.D.
76) 1,2-Diphenylhydrazine	...	0.000	182	0		N.D.
77) Diphenylamine	...	0.000	170	0		N.D.
78) N-Nitrosodiphenylamine	...	0.000	168	0		N.D.
79) 4-Bromophenyl phenyl ether	...	0.000	248	0		N.D.
80) Phenacetin	...	0.000	108	0		N.D. d
81) Hexachlorobenzene	...	0.000	284	0		N.D.
82) Atrazine	...	0.000	200	0		N.D.
83) 4-Aminobiphenyl	...	0.000	169	0		N.D.
84) Pentachlorophenol	...	0.000	266	0		N.D.
85) Pentachloronitrobenzene	...	0.000	237	0		N.D.
86) Pronamide	...	0.000	173	0		N.D.
87) Phenanthrene	...	0.000	178	0		N.D.
88) Anthracene	...	0.000	178	0		N.D.
89) Carbazole	...	0.000	167	0		N.D.
90) Di-n-butyl phthalate	...	0.000	149	0		N.D.
91) Fluoranthene	...	0.000	202	0		N.D.
93) Pyrene	...	0.000	202	0		N.D.
95) Benzidine	...	0.000	184	0		N.D. d
96) p-Dimethylaminoazobenzene	...	0.000	225	0		N.D.
97) Butyl benzyl phthalate	...	0.000	149	0		N.D.
98) Benz(a)anthracene	...	0.000	228	0		N.D.
99) 3,3'-Dichlorobenzidine	...	0.000	252	0		N.D.
100) Chrysene	...	0.000	228	0		N.D.
101) Bis(2-ethylhexyl)phthalate	...	0.000	149	0		N.D.
102) Di-n-octyl phthalate	...	0.000	149	0		N.D. d
103) 3-Methylcholanthrene	...	0.000	268	0		N.D.

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Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121427.D
Acq On : 14 Dec 2021 3:23 pm
Operator : YH
Sample : 2112G62-011C
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 71 Sample Multiplier: 1

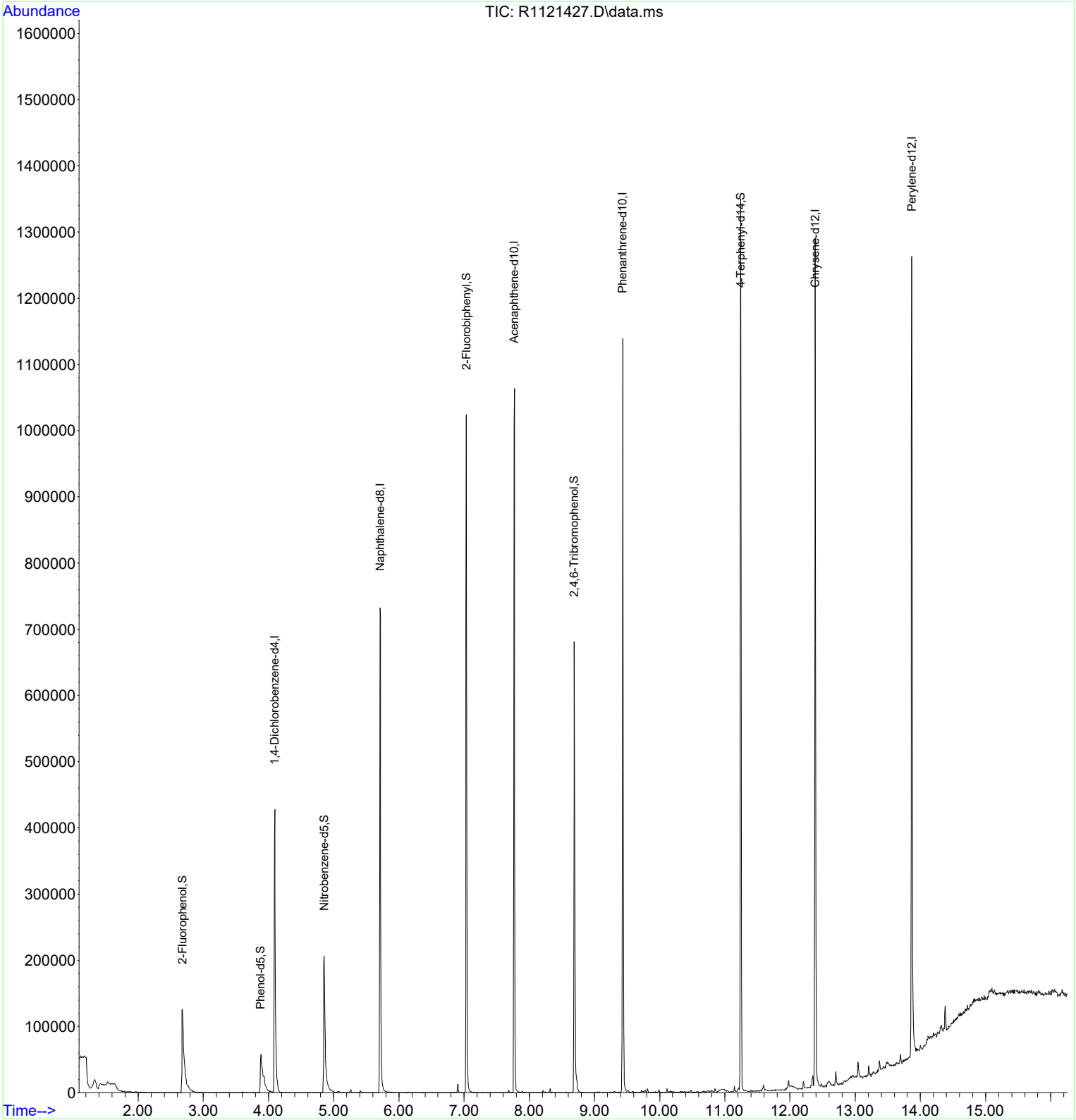
Quant Time: Dec 14 16:00:00 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	0.000	276	0		N.D.
106) Benzo[b]fluoranthene	...	0.000	252	0		N.D.
107) Benzo[k]fluoranthene	...	0.000	252	0		N.D.
108) Benzo[a]pyrene	...	0.000	252	0		N.D.
109) Dibenz(a,j)acridine	...	0.000	279	0		N.D.
110) Dibenz(a,h)anthracene	...	0.000	278	0		N.D.
111) Benzo[g,h,i]perylene	...	0.000	276	0		N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121427.D
Acq On : 14 Dec 2021 3:23 pm
Operator : YH
Sample : 2112G62-011C
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 71 Sample Multiplier: 1

Quant Time: Dec 14 16:00:00 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121428.D
Acq On : 14 Dec 2021 3:49 pm
Operator : YH
Sample : 2112G62-012C
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Dec 14 16:47:09 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.094	152	95366	40.00	ng	0.00
23) Naphthalene-d8	...	5.712	136	397406	40.00	ng	0.00
45) Acenaphthene-d10	...	7.769	164	235344	40.00	ng	0.00
73) Phenanthrene-d10	...	9.436	188	433546	40.00	ng	0.00
92) Chrysene-d12	...	12.385	240	426757	40.00	ng	0.00
105) Perylene-d12	...	13.870	264	458464	40.00	ng	0.00
System Monitoring Compounds							
5) 2-Fluorophenol	...	2.678	112	106801	35.90	ng	0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 35.90%				
9) Phenol-d5	...	3.885	99	74237	20.55	ng	0.03
Spiked Amount 100.000	Range 10 - 110		Recovery = 20.55%				
24) Nitrobenzene-d5	...	4.852	82	129954	42.22	ng	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 84.44%				
50) 2-Fluorobiphenyl	...	7.032	172	297270	39.12	ng	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 78.24%				
72) 2,4,6-Tribromophenol	...	8.693	330	84616	92.97	ng	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 92.97%				
94) 4-Terphenyl-d14	...	11.247	244	424825	40.27	ng	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 80.54%				

Target Compounds					Qvalue
2) Pyridine	...	0.000	79	0	N.D.
3) 2-Picoline	...	0.000	93	0	N.D.
4) Methyl methanesulfonate	...	0.000	80	0	N.D.
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.
7) Benzaldehyde	...	0.000	105	0	N.D.
8) Aniline	...	0.000	66	0	N.D.
10) Phenol	...	0.000	94	0	N.D.
11) Bis(2-chloroethyl)ether	...	0.000	93	0	N.D.
12) 2-Chlorophenol	...	0.000	128	0	N.D.
13) 1,3-Dichlorobenzene	...	0.000	146	0	N.D.
14) 1,4-Dichlorobenzene	...	0.000	146	0	N.D.
15) 1,2-Dichlorobenzene	...	0.000	146	0	N.D.
16) Benzyl alcohol	...	0.000	108	0	N.D.
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0	N.D.
18) 2-Methylphenol	...	0.000	107	0	N.D.
19) 3,4-Methylphenol	...	0.000	107	0	N.D.
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D.
22) Hexachloroethane	...	0.000	117	0	N.D.
25) Acetophenone	...	0.000	105	0	N.D.
26) Nitrobenzene	...	0.000	123	0	N.D.
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.
28) Isophorone	...	0.000	82	0	N.D.
29) 2-Nitrophenol	...	0.000	139	0	N.D.
30) 2,4-Dimethylphenol	...	0.000	122	0	N.D.
31) Bis(2-chloroethoxy)methane	...	0.000	93	0	N.D.
32) 2,4-Dichlorophenol	...	0.000	162	0	N.D.
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.
34) Naphthalene	...	0.000	128	0	N.D.
35) Benzoic acid	...	0.000	122	0	N.D.
36) 2,6-Dichlorophenol	...	0.000	162	0	N.D.
37) 4-Chloroaniline	...	0.000	127	0	N.D.
38) Hexachlorobutadiene	...	0.000	225	0	N.D.
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D.
40) Caprolactam	...	0.000	113	0	N.D.

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121428.D
Acq On : 14 Dec 2021 3:49 pm
Operator : YH
Sample : 2112G62-012C
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Dec 14 16:47:09 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 4-Chloro-3-methylphenol	...	0.000	107	0		N.D. d
42) N-Nitroso-di-n-butylamine	...	0.000	84	0		N.D.
43) 2-Methylnaphthalene	...	0.000	141	0		N.D.
44) 1-Methylnaphthalene	...	0.000	141	0		N.D.
46) 1,2,4,5-Tetrachlorobenzene	...	0.000	216	0		N.D.
47) Hexachlorocyclopentadiene	...	0.000	237	0		N.D.
48) 2,4,6-Trichlorophenol	...	0.000	196	0		N.D.
49) 2,4,5-Trichlorophenol	...	0.000	196	0		N.D.
51) Biphenyl	...	0.000	154	0		N.D.
52) 2-Chloronaphthalene	...	0.000	162	0		N.D.
53) 1-Chloronaphthalene	...	0.000	162	0		N.D.
54) 2-Nitroaniline	...	0.000	65	0		N.D.
55) 3-Nitroaniline	...	0.000	138	0		N.D.
56) Pentachlorobenzene	...	0.000	250	0		N.D.
57) 4-Nitroaniline	...	0.000	138	0		N.D.
58) 2-Naphthylamine	...	0.000	143	0		N.D.
59) 1-Naphthylamine	...	0.000	143	0		N.D.
60) Dimethyl phthalate	...	0.000	163	0		N.D.
61) Acenaphthylene	...	0.000	152	0		N.D.
62) 2,6-Dinitrotoluene	...	0.000	165	0		N.D.
63) Acenaphthene	...	0.000	154	0		N.D.
64) 2,4-Dinitrophenol	...	0.000	184	0		N.D.
65) Dibenzofuran	...	0.000	168	0		N.D.
66) 4-Nitrophenol	...	0.000	109	0		N.D.
67) 2,4-Dinitrotoluene	...	0.000	165	0		N.D.
68) 2,3,4,6-Tetrachlorophenol	...	0.000	232	0		N.D.
69) Diethyl phthalate	...	0.000	149	0		N.D.
70) Fluorene	...	0.000	166	0		N.D.
71) 4-Chlorophenyl phenyl ether	...	0.000	204	0		N.D.
74) 4,6-Dinitro-2-methylphenol	...	0.000	198	0		N.D.
75) Azobenzene	...	0.000	77	0		N.D.
76) 1,2-Diphenylhydrazine	...	0.000	182	0		N.D.
77) Diphenylamine	...	0.000	170	0		N.D.
78) N-Nitrosodiphenylamine	...	0.000	168	0		N.D.
79) 4-Bromophenyl phenyl ether	...	0.000	248	0		N.D.
80) Phenacetin	...	0.000	108	0		N.D. d
81) Hexachlorobenzene	...	0.000	284	0		N.D.
82) Atrazine	...	0.000	200	0		N.D.
83) 4-Aminobiphenyl	...	0.000	169	0		N.D.
84) Pentachlorophenol	...	0.000	266	0		N.D.
85) Pentachloronitrobenzene	...	0.000	237	0		N.D.
86) Pronamide	...	0.000	173	0		N.D.
87) Phenanthrene	...	0.000	178	0		N.D.
88) Anthracene	...	0.000	178	0		N.D.
89) Carbazole	...	0.000	167	0		N.D.
90) Di-n-butyl phthalate	...	0.000	149	0		N.D.
91) Fluoranthene	...	0.000	202	0		N.D.
93) Pyrene	...	0.000	202	0		N.D.
95) Benzidine	...	0.000	184	0		N.D. d
96) p-Dimethylaminoazobenzene	...	0.000	225	0		N.D.
97) Butyl benzyl phthalate	...	0.000	149	0		N.D.
98) Benz(a)anthracene	...	0.000	228	0		N.D.
99) 3,3'-Dichlorobenzidine	...	0.000	252	0		N.D.
100) Chrysene	...	0.000	228	0		N.D.
101) Bis(2-ethylhexyl)phthalate	...	0.000	149	0		N.D. d
102) Di-n-octyl phthalate	...	0.000	149	0		N.D.
103) 3-Methylcholanthrene	...	0.000	268	0		N.D.

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121428.D
Acq On : 14 Dec 2021 3:49 pm
Operator : YH
Sample : 2112G62-012C
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 72 Sample Multiplier: 1

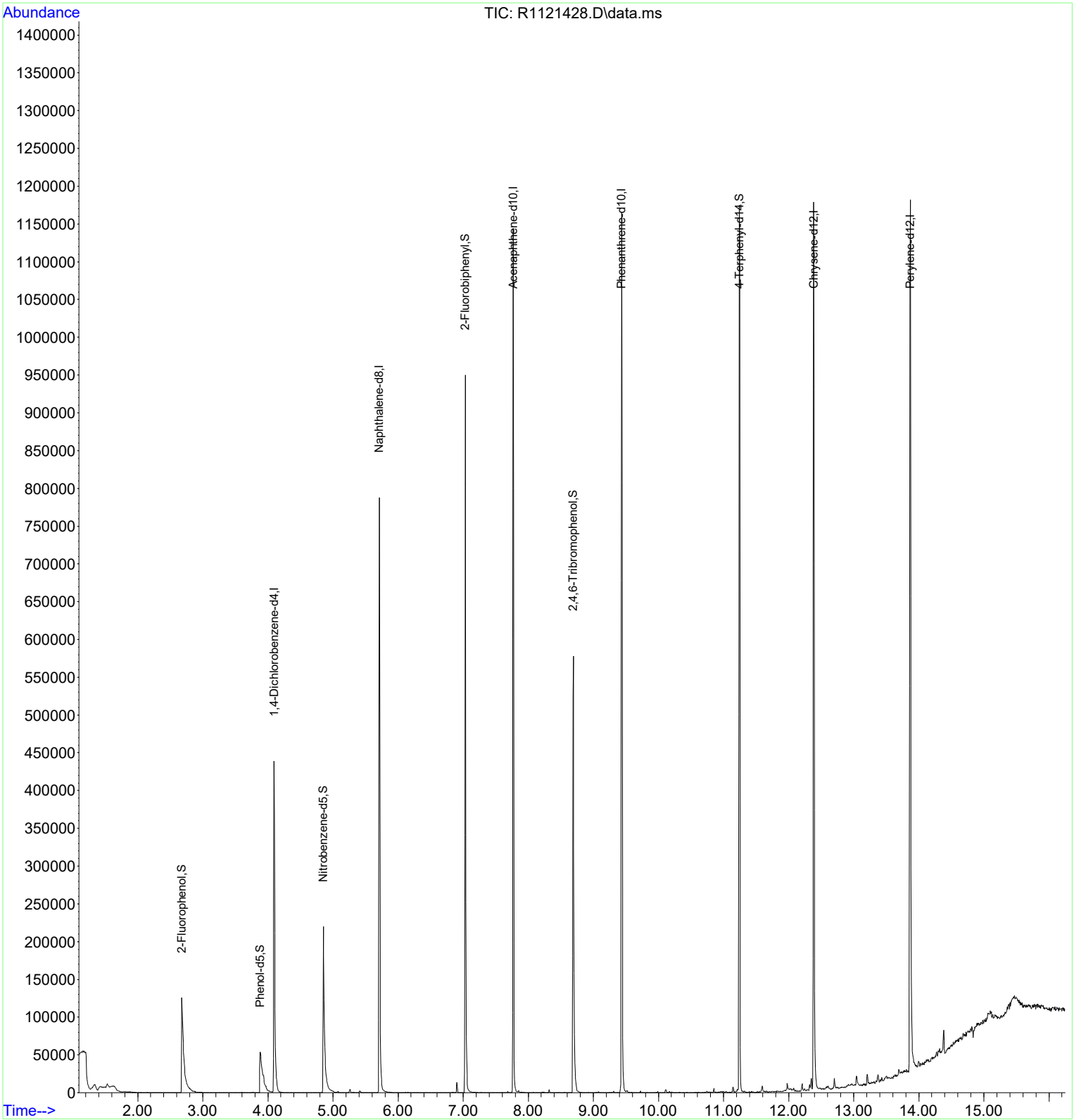
Quant Time: Dec 14 16:47:09 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	0.000	276	0			N.D.
106) Benzo[b]fluoranthene	...	0.000	252	0			N.D.
107) Benzo[k]fluoranthene	...	0.000	252	0			N.D.
108) Benzo[a]pyrene	...	0.000	252	0			N.D.
109) Dibenz(a,j)acridine	...	0.000	279	0			N.D.
110) Dibenz(a,h)anthracene	...	0.000	278	0			N.D.
111) Benzo[g,h,i]perylene	...	0.000	276	0			N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121428.D
Acq On : 14 Dec 2021 3:49 pm
Operator : YH
Sample : 2112G62-012C
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Dec 14 16:47:09 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration



Injection Log

Directory: C:\MS-9\New\Raw Data\S210402

Line	Vial	FileName	Multiplier	SampleName		Misc Info	Injected
1	1	S21040201.D	1.	SIM2		ICV 8270_SIM_PAH_W	2 Apr 2021 10:27
2	1	S21040202.D	1.	SIM2		ICV 8270_SIM_PAH_W	2 Apr 2021 10:53
3	1	S21040203.D	1.	SIM2		ICV 8270_SIM_PAH_W	2 Apr 2021 11:18
4	1	S21040204.D	1.	SIM2		ICV 8270_SIM_PAH_W	2 Apr 2021 11:50
5	2	S21040205.D	1.	SIM3		ICV 8270_SIM_PAH_W	2 Apr 2021 12:15
6	3	S21040206.D	1.	BNA60		CCV 8270C_W	2 Apr 2021 12:42
7		S21040207.D	1.				
8	3	S21040208.D	1.	BNA60		CCV 8270C_W	2 Apr 2021 13:26
9	4	S21040209.D	1.	BNA10	973-73/	ICAL 8270C_W	2 Apr 2021 13:52
10	1	S21040210.D	1.	DFTPP		TUNE DFTPP_4	2 Apr 2021 14:37
11	4	S21040211.D	1.	BNA10	973-73/	ICAL 8270C_W	2 Apr 2021 15:03
12	5	S21040212.D	1.	BNA20	973-73/	ICAL 8270C_W	2 Apr 2021 15:30
13	6	S21040213.D	1.	BNA40	973-73/	ICAL 8270C_W	2 Apr 2021 15:56
14	7	S21040214.D	1.	BNA60	973-73/	ICAL 8270C_W	2 Apr 2021 16:22
15	8	S21040215.D	1.	BNA80	973-73/	ICAL 8270C_W	2 Apr 2021 16:48
16	9	S21040216.D	1.	BNA120	973-73/	ICAL 8270C_W	2 Apr 2021 17:13
17	10	S21040217.D	1.	BNA160	973-73/	ICAL 8270C_W	2 Apr 2021 17:40
18	11	S21040218.D	1.	BNA5	973-73/	ICAL 8270C_W	2 Apr 2021 18:06
19	12	S21040219.D	1.	934-97SURR		ICAL 8270C_W	2 Apr 2021 18:31

Area Percent Report

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040210.D
Acq On : 2 Apr 2021 2:37 pm
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 30000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MS-9\New\Calculation Methods\DFTPP.M
Title :

Signal : TIC: S21040210.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.143	5	56	58	rBV3	154881	833757	30.01%	8.798%
2	1.637	222	230	261	rVB2	37003	64993	2.34%	0.686%
3	3.888	1014	1023	1034	rBV2	44257	42992	1.55%	0.454%
4	5.390	1543	1552	1561	rBV	37334	31193	1.12%	0.329%
5	9.306	2919	2932	2953	rBV	1668112	1684739	60.65%	17.778%
6	9.936	3143	3154	3165	rVB2	1730906	1476046	53.13%	15.576%
7	10.828	3459	3468	3478	rBV5	47985	41585	1.50%	0.439%
8	11.032	3520	3540	3567	rBV	1941134	2777993	100.00%	29.314%
9	11.952	3847	3864	3877	rBV	2605397	2523293	90.83%	26.627%

Sum of corrected areas: 9476591

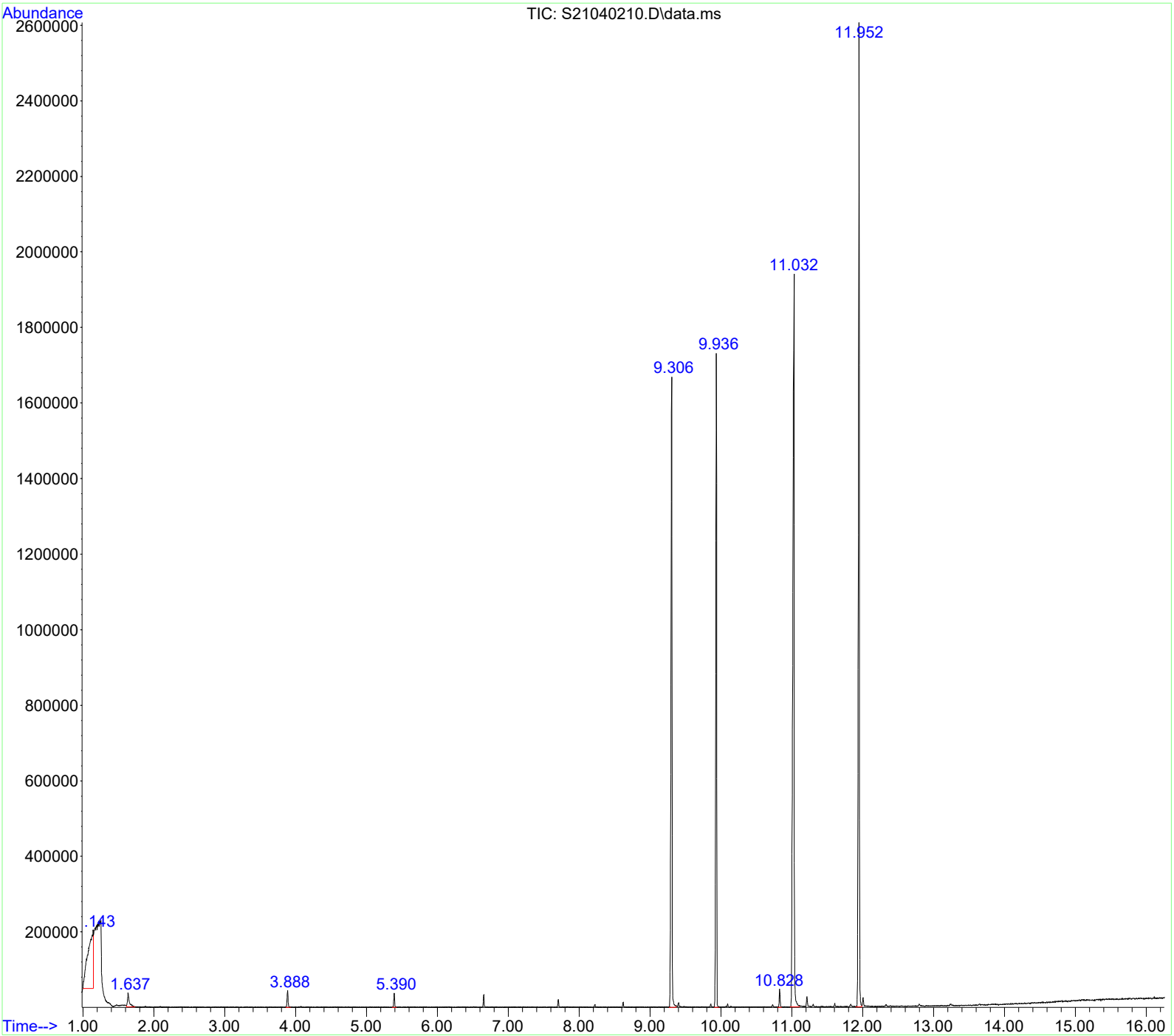
Area Percent Report

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040210.D
Acq On : 2 Apr 2021 2:37 pm
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 30000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MS-9\New\Calculation Methods\DFTPP.M
Title :



Library Search Report

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040210.D
Acq On : 2 Apr 2021 2:37 pm
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: C:\Database\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex minus start of peak
Integration Events: RTE Integrator - RTEINT.P

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.143	8.80	C:\Database\NIST14.L			
			Methylene chloride	1541	000075-09-2	94
			Methylene chloride	1542	000075-09-2	91
			Methylene chloride	1545	000075-09-2	91
2	1.637	0.69	C:\Database\NIST14.L			
			Toluene	2481	000108-88-3	93
			Toluene	2482	000108-88-3	93
			Toluene	2478	000108-88-3	93
3	3.888	0.45	C:\Database\NIST14.L			
			Cyclotetrasiloxane, octamethyl-	155950	000556-67-2	91
			Cyclotetrasiloxane, octamethyl-	155952	000556-67-2	86
			Benzoic acid, 4-methyl-2-trimethyl silyloxy-, trimethylsilyl ester	155035	000035-27-8	59
4	5.390	0.33	C:\Database\NIST14.L			
			Cyclopentasiloxane, decamethyl-	220036	000541-02-6	78
			3-Amino-2-phenazinol ditms	209406	1000332-15-5	53
			2,5-Dihydroxybenzoic acid, 3TMS derivative	220200	003618-20-0	43
5	9.306	17.78	C:\Database\NIST14.L			
			Phenol, pentachloro-	125064	000087-86-5	99
			Phenol, pentachloro-	125062	000087-86-5	99
			Phenol, pentachloro-	125061	000087-86-5	96
6	9.936	15.58	C:\Database\NIST14.L			
			Bis(pentafluorophenyl)phenyl phosphine	254406	005074-71-5	99
			Bis(pentafluorophenyl)phenyl phosphine	254407	005074-71-5	70
			Benzenemethanol, 3,4,5-trimethoxy-	62898	003840-31-1	16
7	10.828	0.44	C:\Database\NIST14.L			
			Benzaldehyde, 4-methoxy-, (4-nitrophenyl)hydrazone	131354	005880-63-7	27
			10-Prop(1')enyl-phenothiazine-5,5-dioxide	131483	027127-71-5	14
			3-Methyl-1-phenyl-2-azafluorenone	131787	062578-45-4	14
8	11.032	29.31	C:\Database\NIST14.L			
			Benzidine	51192	000092-87-5	97
			Benzidine	51188	000092-87-5	96
			Benzidine	51190	000092-87-5	95
9	11.952	26.63	C:\Database\NIST14.L			
			1,1-Dichloro-2,2-bis(p-chlorophenyl)ethane	176319	000072-54-8	91
			o,p'-DDT	206676	000789-02-6	91
			1,1-Dichloro-2,2-bis(p-chlorophenyl)ethane	176322	000072-54-8	91

Library Search Report

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040210.D
Acq On : 2 Apr 2021 2:37 pm
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: C:\Database\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex minus start of peak
Integration Events: RTE Integrator - RTEINT.P

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.143	8.80	C:\Database\NIST14.L			
			Methylene chloride	1541	000075-09-2	94
			Methylene chloride	1542	000075-09-2	91
			Methylene chloride	1545	000075-09-2	91
2	1.637	0.69	C:\Database\NIST14.L			
			Toluene	2481	000108-88-3	93
			Toluene	2482	000108-88-3	93
			Toluene	2478	000108-88-3	93
3	3.888	0.45	C:\Database\NIST14.L			
			Cyclotetrasiloxane, octamethyl-	155950	000556-67-2	91
			Cyclotetrasiloxane, octamethyl-	155952	000556-67-2	86
			Benzoic acid, 4-methyl-2-trimethyl silyloxy-, trimethylsilyl ester	155035	000035-27-8	59
4	5.390	0.33	C:\Database\NIST14.L			
			Cyclopentasiloxane, decamethyl-	220036	000541-02-6	78
			3-Amino-2-phenazinol ditms	209406	1000332-15-5	53
			2,5-Dihydroxybenzoic acid, 3TMS derivative	220200	003618-20-0	43
5	9.306	17.78	C:\Database\NIST14.L			
			Phenol, pentachloro-	125064	000087-86-5	99
			Phenol, pentachloro-	125062	000087-86-5	99
			Phenol, pentachloro-	125061	000087-86-5	96
6	9.936	15.58	C:\Database\NIST14.L			
			Bis(pentafluorophenyl)phenyl phosphine	254406	005074-71-5	99
			Bis(pentafluorophenyl)phenyl phosphine	254407	005074-71-5	70
			Benzenemethanol, 3,4,5-trimethoxy-	62898	003840-31-1	16
7	10.828	0.44	C:\Database\NIST14.L			
			Benzaldehyde, 4-methoxy-, (4-nitrophenyl)hydrazone	131354	005880-63-7	27
			10-Prop(1')enyl-phenothiazine-5,5-dioxide	131483	027127-71-5	14
			3-Methyl-1-phenyl-2-azafluorenone	131787	062578-45-4	14
8	11.032	29.31	C:\Database\NIST14.L			
			Benzidine	51192	000092-87-5	97
			Benzidine	51188	000092-87-5	96
			Benzidine	51190	000092-87-5	95
9	11.952	26.63	C:\Database\NIST14.L			
			1,1-Dichloro-2,2-bis(p-chlorophenyl)ethane	176319	000072-54-8	91
			o,p'-DDT	206676	000789-02-6	91
			1,1-Dichloro-2,2-bis(p-chlorophenyl)ethane	176322	000072-54-8	91

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040210.D
Acq On : 2 Apr 2021 2:37 pm
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MS-9\New\Calculation Methods\DFTPP.M
Title :
Last Update : Mon Oct 15 09:26:34 1990

AutoFind: Scans 3153, 3154, 3155; Background Corrected with Scan 3142

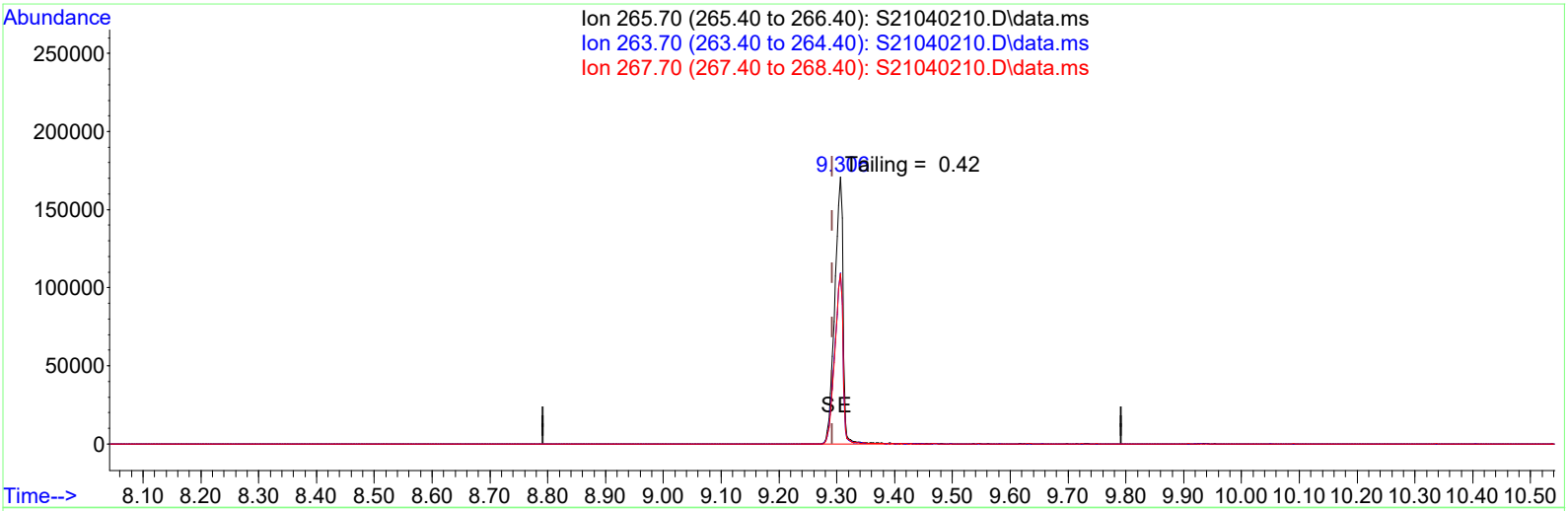
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	51.8	90328	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	47.6	83069	PASS
70	69	0.00	2	0.3	281	PASS
127	198	40	60	54.7	95493	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	174464	PASS
199	198	5	9	6.5	11310	PASS
275	198	10	30	21.0	36592	PASS
365	198	1	100	2.4	4209	PASS
441	443	0.01	100	92.1	19317	PASS
442	198	40	100	65.4	114168	PASS
443	442	17	23	18.4	20968	PASS

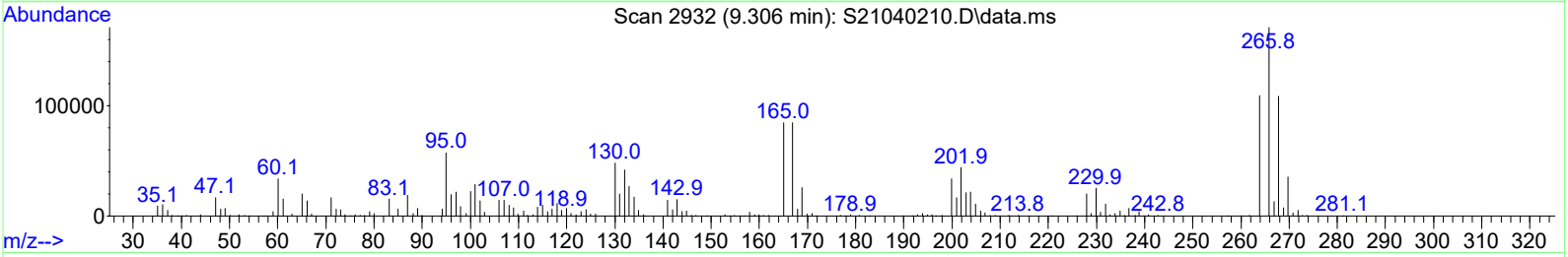
DFTPP.M Wed Apr 07 09:45:41 2021

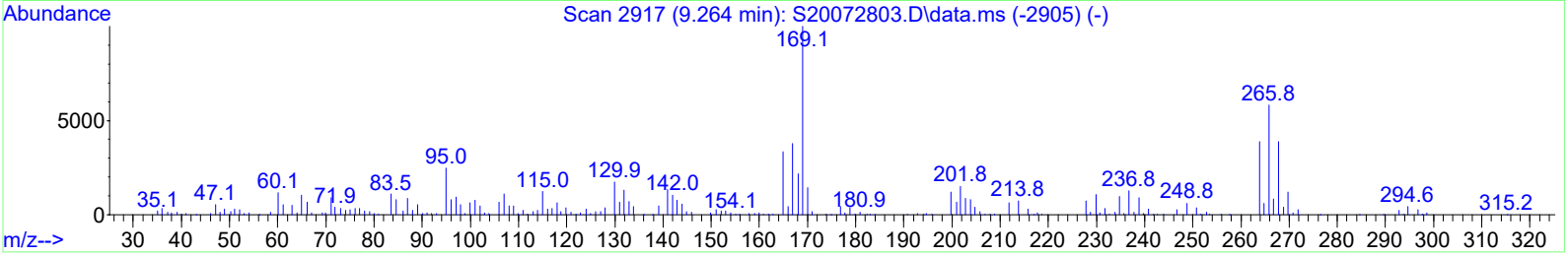
Quantitation Report (Qedit)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040210.D
Acq On : 2 Apr 2021 2:37 pm
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 07 09:42:30 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration







TIC: S21040210.D\data.ms

(84) Pentachlorophenol (P)

9.306min (+ 0.014) 0.00 ng

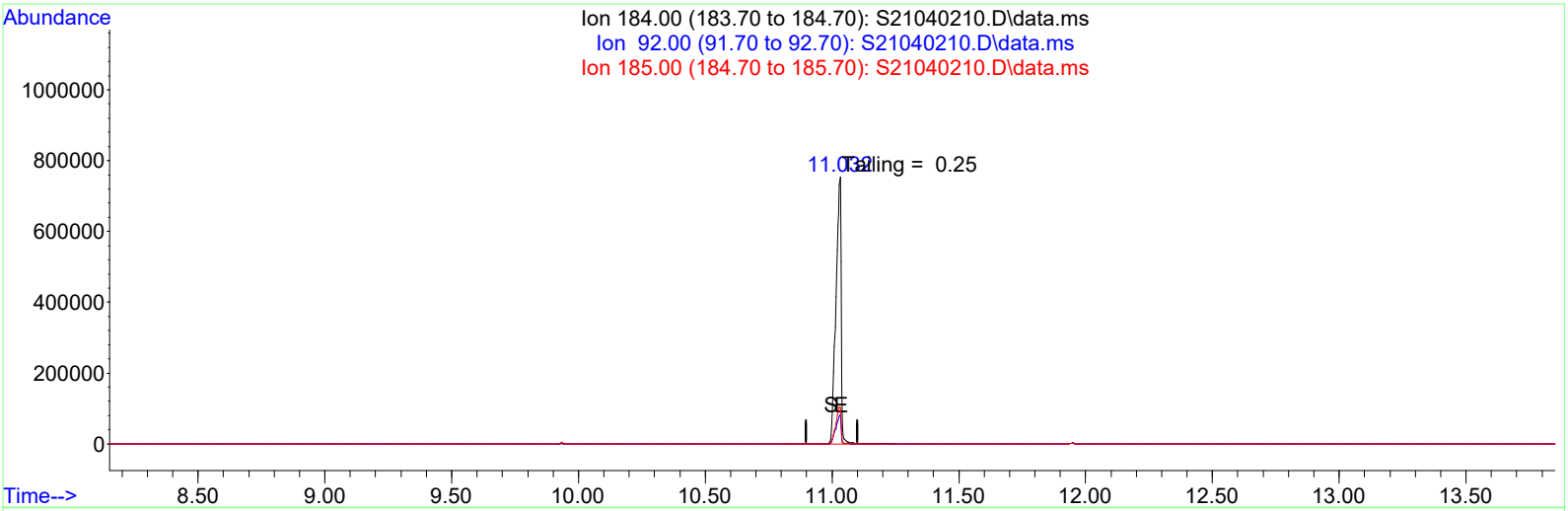
response 169573

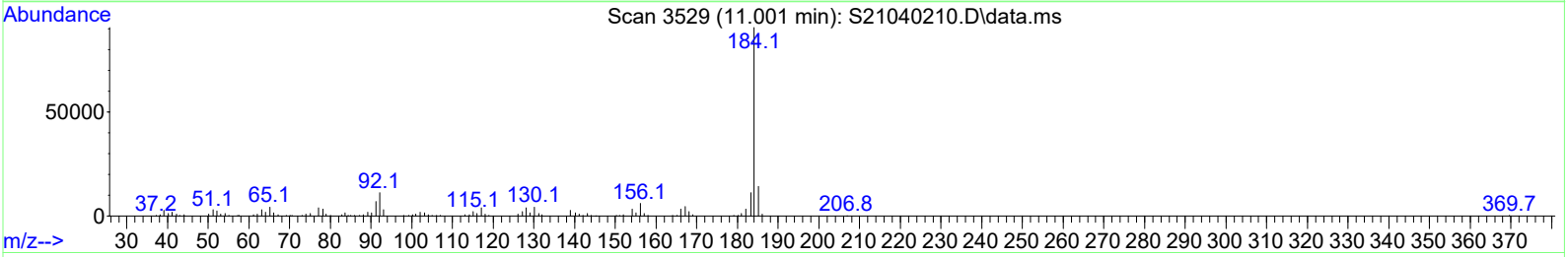
Ion	Exp%	Act%
265.70	100.00	100.00
263.70	63.20	63.73
267.70	62.20	63.44
0.00	0.00	0.00

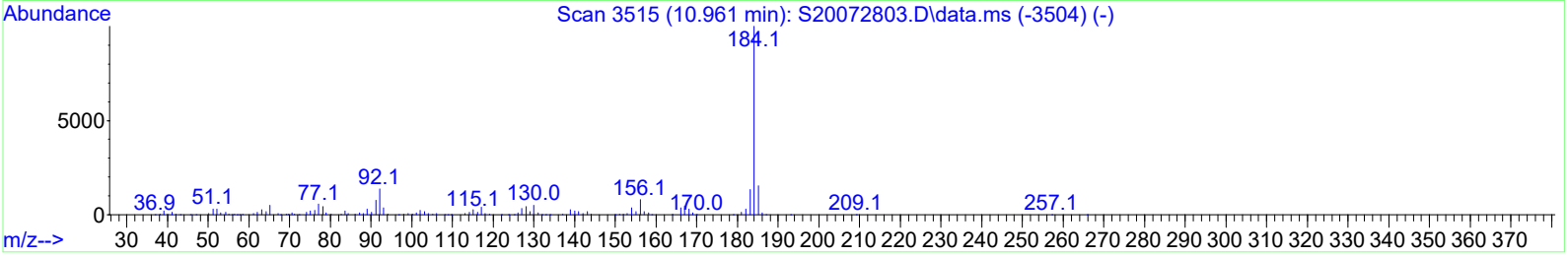
Quantitation Report (Qedit)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040210.D
Acq On : 2 Apr 2021 2:37 pm
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 07 09:42:30 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration







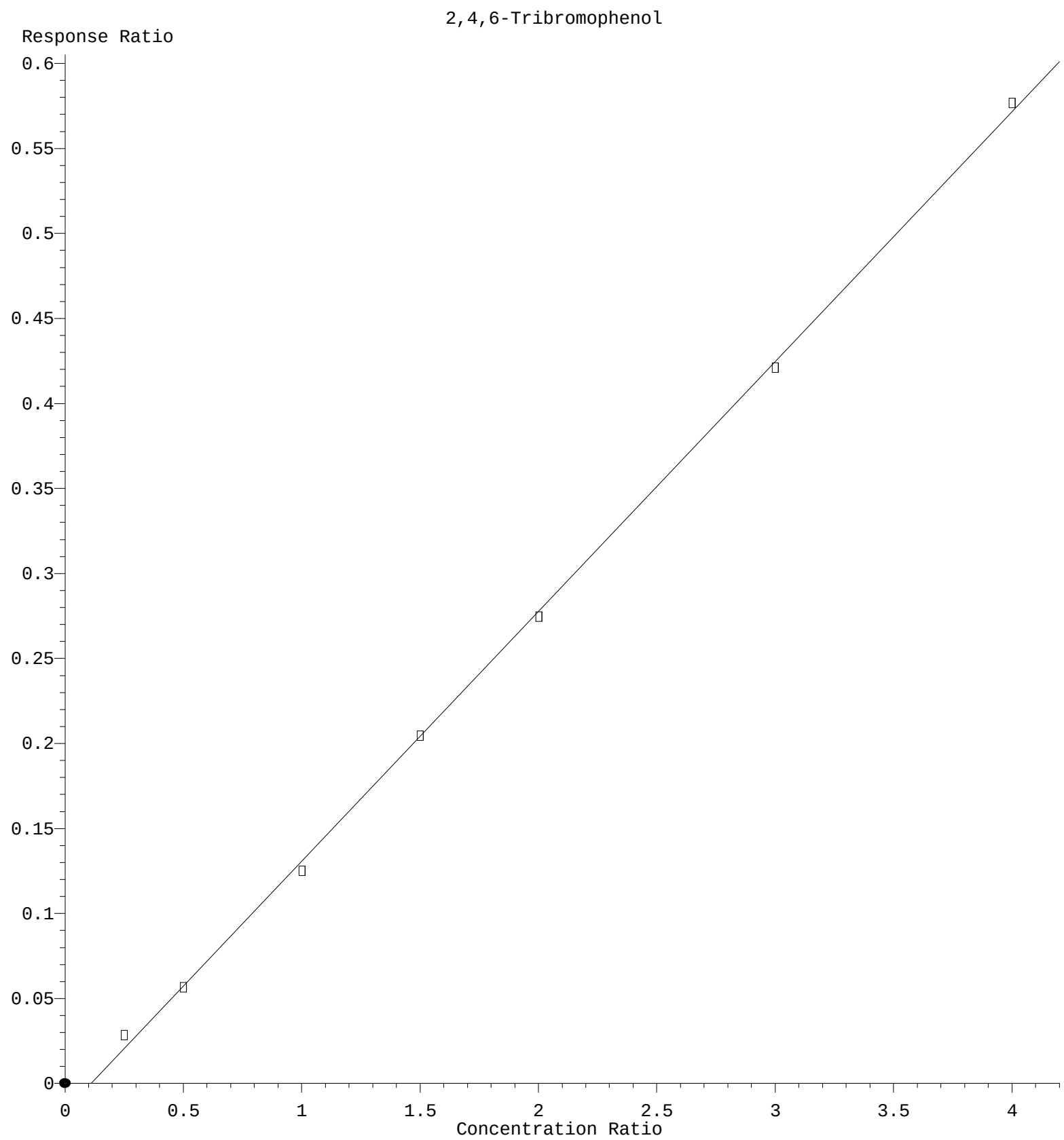
TIC: S21040210.D\data.ms

(95) Benzidine (T)

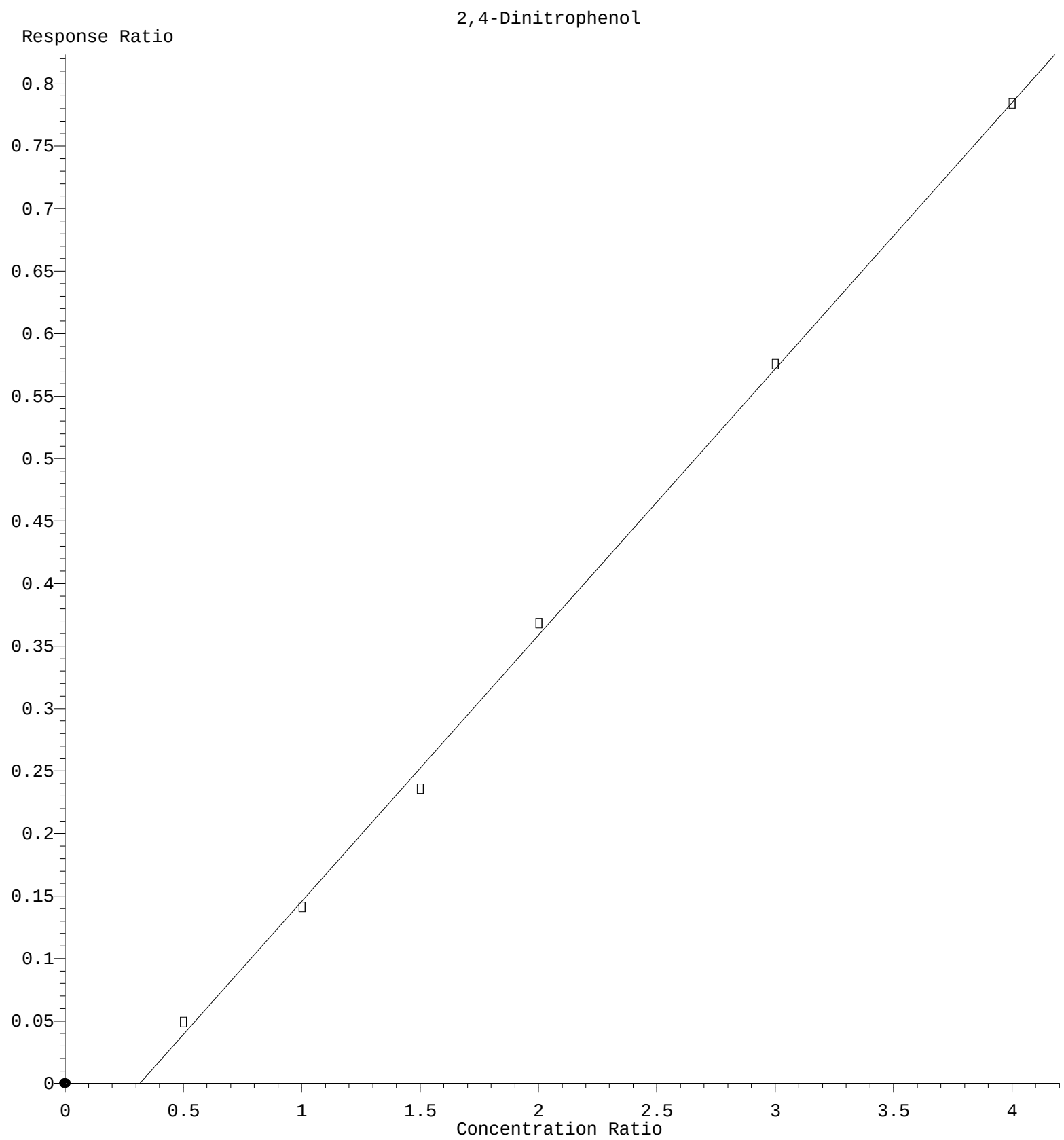
11.001min (-11.001) 0.00 ng

response 0

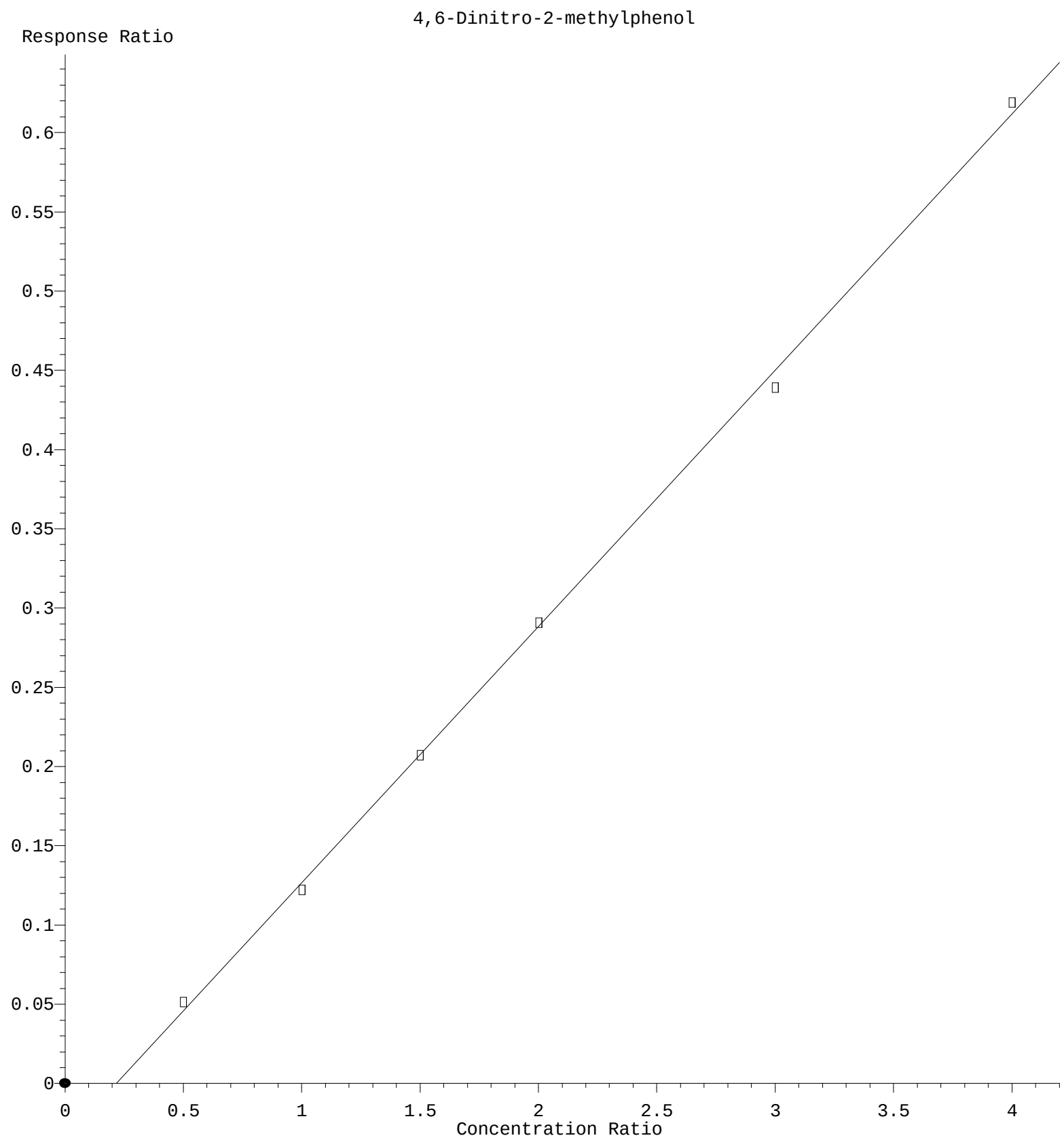
Ion	Exp%	Act%
184.00	100.00	0.00
92.00	10.50	0.00
185.00	14.30	0.00
0.00	0.00	0.00



Response = 1.47e-001 * Amt - 1.61e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear
Method Name: C:\MS-9\New\Calculation Methods\B040221.M
Calibration Table Last Updated: Wed Apr 07 09:26:46 2021



Response = 2.13e-001 * Amt - 6.72e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear
Method Name: C:\MS-9\New\Calculation Methods\B040221.M
Calibration Table Last Updated: Wed Apr 07 09:26:46 2021



Response = 1.62e-001 * Amt - 3.51e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear
Method Name: C:\MS-9\New\Calculation Methods\B040221.M
Calibration Table Last Updated: Wed Apr 07 09:26:46 2021

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040211.D
Acq On : 2 Apr 2021 3:03 pm
Operator : yh
Sample : BNA10 973-73/
Misc : ICAL 8270C_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 07 08:56:50 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:55:09 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	100	0.00
2		Pyridine	10.000	9.956	0.4	100	0.00
3	T	2-Picoline	10.000	9.680	3.2	100	0.00
4	T	Methyl methanesulfonate	10.000	9.581	4.2	100	-0.01
5	S	2-Fluorophenol	10.000	9.147	8.5	100	-0.01
6	T	Ethyl methanesulfonate	10.000	9.670	3.3	100	-0.02
7	P	Benzaldehyde	10.000	9.787	2.1	100	0.00
8	T	Aniline	10.000	9.399	6.0	100	-0.02
9	S	Phenol-d5	10.000	10.105	-1.1	100	-0.03
10	P	Phenol	10.000	10.170	-1.7	100	-0.04
11	P	Bis(2-chloroethyl)ether	10.000	10.118	-1.2	100	-0.02
12	P	2-Chlorophenol	10.000	9.744	2.6	100	-0.02
13	T	1,3-Dichlorobenzene	10.000	9.696	3.0	100	0.00
14	CCC	1,4-Dichlorobenzene	10.000	10.193	-1.9	100	0.00
15	T	1,2-Dichlorobenzene	10.000	9.657	3.4	100	0.00
16	T	Benzyl alcohol	10.000	9.650	3.5	100	-0.03
17	T	Bis(2-chloroisopropyl)ether	10.000	10.387	-3.9	100	0.00
18	P	2-Methylphenol	10.000	9.473	5.3	100	-0.03
19	T	3,4-Methylphenol	20.000	18.787	6.1	100	-0.04
20	PC	N-Nitrosodi-n-propylamine	10.000	11.068	-10.7	100	-0.03
21	T	N-Nitrosodimethylamine	10.000	9.953	0.5	100	0.00
22	T	Hexachloroethane	10.000	10.108	-1.1	100	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	100	0.00
24	S	Nitrobenzene-d5	10.000	9.974	0.3	100	-0.02
25	P	Acetophenone	20.000	19.924	0.4	100	-0.03
26	P	Nitrobenzene	10.000	10.166	-1.7	100	-0.03
27	T	N-Nitrosopiperidine	10.000	10.433	-4.3	100	-0.03
28	P	Isophorone	10.000	10.012	-0.1	100	-0.03
29	P	2-Nitrophenol	10.000	9.023	9.8	100	-0.02
30	P	2,4-Dimethylphenol	10.000	9.815	1.9	100	-0.03
31	P	Bis(2-chloroethoxy)methane	10.000	10.029	-0.3	100	-0.02
32	P	2,4-Dichlorophenol	10.000	10.023	-0.2	100	-0.02
33	T	1,2,4-Trichlorobenzene	10.000	10.236	-2.4	100	-0.01
34	P	Naphthalene	10.000	10.071	-0.7	100	-0.01
35	T	Benzoic acid	-1.000	13.898	0.0	100	-0.14
36	T	2,6-Dichlorophenol	10.000	9.902	1.0	100	-0.01
37	P	4-Chloroaniline	10.000	9.364	6.4	100	-0.02
38	P	Hexachlorobutadiene	10.000	9.747	2.5	100	0.00
39	T	a,a-Dimethylphenethylamine	10.000	9.607	3.9	100	-0.39
40	P	Caprolactam	10.000	9.149	8.5	100	-0.15
41	P	4-Chloro-3-methylphenol	10.000	9.327	6.7	100	-0.04
42	T	N-Nitrosodi-n-butylamine	10.000	8.839	11.6	100	-0.03
43	P	2-Methylnaphthalene	10.000	10.065	-0.6	100	-0.01
44	T	1-Methylnaphthalene	10.000	9.701	3.0	100	-0.01
45	I	Acenaphthene-d10	40.000	40.000	0.0	100	0.00
46	T	1,2,4,5-Tetrachlorobenzene	10.000	10.427	-4.3	100	-0.01
47	P	Hexachlorocyclopentadiene	10.000	9.073	9.3	100	0.00
48	P	2,4,6-Trichlorophenol	10.000	8.505	14.9	100	-0.02
49	P	2,4,5-Trichlorophenol	10.000	9.180	8.2	100	-0.03
50	S	2-Fluorobiphenyl	10.000	9.798	2.0	100	-0.01
51		Biphenyl	10.000	9.884	1.2	100	-0.02

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040211.D
Acq On : 2 Apr 2021 3:03 pm
Operator : yh
Sample : BNA10 973-73/
Misc : ICAL 8270C_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 07 08:56:50 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:55:09 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	P	2-Chloronaphthalene	10.000	9.595	4.0	100	-0.02
53	T	1-Chloronaphthalene	10.000	10.553	-5.5	100	-0.02
54	P	2-Nitroaniline	10.000	9.336	6.6	100	-0.02
55	P	3-Nitroaniline	10.000	9.060	9.4	100	-0.03
56	T	Pentachlorobenzene	10.000	9.451	5.5	100	-0.01
57	T	4-Nitroaniline	10.000	9.670	3.3	100	-0.06
58	T	2-Naphthylamine	10.000	10.115	-1.2	100	-0.02
59	T	1-Naphthylamine	10.000	9.918	0.8	100	-0.03
60	P	Dimethyl phthalate	10.000	9.777	2.2	100	-0.02
61	P	Acenaphthylene	10.000	9.641	3.6	100	-0.01
62	P	2,6-Dinitrotoluene	10.000	9.038	9.6	100	-0.03
63	P	Acenaphthene	10.000	9.820	1.8	100	-0.02
64	P	2,4-Dinitrophenol	-1.000	16.895	0.0	100	-0.04
65	P	Dibenzofuran	10.000	10.041	-0.4	100	-0.02
66	P	4-Nitrophenol	10.000	7.032	29.7#	100	-0.06
67	P	2,4-Dinitrotoluene	10.000	9.312	6.9	100	-0.04
68	T	2,3,4,6-Tetrachlorophenol	10.000	8.914	10.9	100	-0.02
69	P	Diethyl phthalate	10.000	9.266	7.3	100	-0.03
70	P	Fluorene	10.000	9.376	6.2	100	-0.02
71	P	4-Chlorophenyl phenyl ether	10.000	10.022	-0.2	100	-0.01
72	S	2,4,6-Tribromophenol	10.000	12.018	-20.2	100	-0.02
73	I	Phenanthrene-d10	40.000	40.000	0.0	100	-0.01
74	P	4,6-Dinitro-2-methylphenol	-1.000	13.983	0.0	100	-0.04
75	T	Azobenzene	10.000	10.558	-5.6	100	-0.02
76	T	1,2-Diphenylhydrazine	10.000	10.251	-2.5	100	-0.02
77	CCC	Diphenylamine	10.000	9.655	3.5	100	-0.03
78	P	N-Nitrosodiphenylamine	10.000	9.635	3.7	100	-0.03
79	P	4-Bromophenyl phenyl ether	10.000	10.204	-2.0	100	-0.01
80	T	Phenacetin	10.000	8.749	12.5	100	-0.06
81	P	Hexachlorobenzene	10.000	10.229	-2.3	100	-0.02
82	P	Atrazine	10.000	9.468	5.3	100	-0.04
83	T	4-Aminobiphenyl	10.000	9.492	5.1	100	-0.03
84	P	Pentachlorophenol	10.000	8.775	12.2	100	-0.03
85	T	Pentachloronitrobenzene	10.000	8.564	14.4	100	-0.02
86	T	Pronamide	10.000	9.390	6.1	100	-0.03
87	P	Phenanthrene	10.000	9.990	0.1	100	-0.02
88	P	Anthracene	10.000	9.803	2.0	100	-0.03
89	P	Carbazole	10.000	9.358	6.4	100	-0.02
90	P	Di-n-butyl phthalate	10.000	8.982	10.2	100	-0.01
91	P	Fluoranthene	10.000	9.293	7.1	100	-0.02
92	I	Chrysene-d12	40.000	40.000	0.0	100	-0.02
93	P	Pyrene	10.000	9.660	3.4	100	-0.02
94	S	4-Terphenyl-d14	10.000	9.881	1.2	100	-0.01
95	T	Benzidine	10.000	9.753	2.5	100	-0.02
96	T	p-Dimethylaminoazobenzene	10.000	9.261	7.4	100	-0.02
97	P	Butyl benzyl phthalate	10.000	9.231	7.7	100	-0.01
98	P	Benz(a)anthracene	10.000	9.545	4.6	100	-0.02
99	P	3,3'-Dichlorobenzidine	10.000	8.928	10.7	100	-0.03
100	P	Chrysene	10.000	10.459	-4.6	100	-0.03
101	P	Bis(2-ethylhexyl)phthalate	10.000	9.335	6.6	100	-0.01
102	P	Di-n-octyl phthalate	10.000	8.674	13.3	100	-0.02

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040211.D
Acq On : 2 Apr 2021 3:03 pm
Operator : yh
Sample : BNA10 973-73/
Misc : ICAL 8270C_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 07 08:56:50 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:55:09 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	10.000	8.681	13.2	100	-0.03
104	I	Perylene-d12	40.000	40.000	0.0	100	-0.01
105	P	Benzo[b]fluoranthene	10.000	8.835	11.6	100	-0.05
106	P	Benzo[k]fluoranthene	10.000	10.724	-7.2	100	-0.04
107	P	Benzo[a]pyrene	10.000	9.473	5.3	100	-0.03
108	T	Dibenz(a,j)acridine	10.000	8.081	19.2	100	-0.03
109		Indeno[1,2,3-cd]pyrene	10.000	9.243	7.6	100	-0.04
110	P	Dibenz(a,h)anthracene	10.000	8.588	14.1	100	-0.04
111	P	Benzo[g,h,i]perylene	10.000	9.454	5.5	100	-0.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040211.D
Acq On : 2 Apr 2021 3:03 pm
Operator : yh
Sample : BNA10 973-73/
Misc : ICAL 8270C_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 07 08:56:50 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:55:09 2021
Response via : Initial Calibration

Internal Standards			R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4		...	4.206	152	43910	40.00	ng		0.00
23) Naphthalene-d8		...	5.795	136	168510	40.00	ng		0.00
45) Acenaphthene-d10		...	7.836	164	88776	40.00	ng		0.00
73) Phenanthrene-d10		...	9.482	188	151727	40.00	ng		0.00
92) Chrysene-d12		...	12.400	240	119652	40.00	ng		0.00
104) Perylene-d12		...	13.859	264	105518	40.00	ng		0.00
System Monitoring Compounds									
5) 2-Fluorophenol		...	2.662	112	13898	9.15	ng		0.00
Spiked Amount	100.000	Range	21 - 119		Recovery =	9.15%#			
9) Phenol-d5		...	3.786	99	18596	10.11	ng		0.00
Spiked Amount	100.000	Range	10 - 121		Recovery =	10.11%			
24) Nitrobenzene-d5		...	4.918	82	15484	9.97	ng		0.00
Spiked Amount	50.000	Range	34 - 114		Recovery =	19.94%#			
50) 2-Fluorobiphenyl		...	7.106	172	28605	9.80	ng		0.00
Spiked Amount	50.000	Range	43 - 116		Recovery =	19.60%#			
72) 2,4,6-Tribromophenol		...	8.719	330	2508	12.02	ng		0.00
Spiked Amount	100.000	Range	10 - 123		Recovery =	12.02%			
94) 4-Terphenyl-d14		...	11.287	244	29867	9.88	ng		0.00
Spiked Amount	50.000	Range	33 - 141		Recovery =	19.76%#			
Target Compounds									Qvalue
2) Pyridine		...	1.436	79	18304	9.96	ng	#	87
3) 2-Picoline		...	2.063	93	17564	9.68	ng		98
4) Methyl methanesulfonate		...	2.489	80	8601	9.58	ng		97
6) Ethyl methanesulfonate		...	3.272	79	13208	9.67	ng		94
7) Benzaldehyde		...	3.632	105	10209	9.79	ng		94
8) Aniline		...	3.780	66	10528	9.40	ng	#	89
10) Phenol		...	3.800	94	22330	10.17	ng		94
11) Bis(2-chloroethyl)ether		...	3.896	93	15594	10.12	ng		89
12) 2-Chlorophenol		...	3.925	128	15985	9.74	ng		96
13) 1,3-Dichlorobenzene		...	4.126	146	17670	9.70	ng		96
14) 1,4-Dichlorobenzene		...	4.223	146	18534	10.19	ng		99
15) 1,2-Dichlorobenzene		...	4.416	146	16765	9.66	ng		99
16) Benzyl alcohol		...	4.413	108	10520	9.65	ng	#	71
17) Bis(2-chloroisopropyl)ether		...	4.623	45	29822	10.39	ng	#	74
18) 2-Methylphenol		...	4.595	107	12486	9.47	ng	#	92
19) 3,4-Methylphenol		...	4.808	107	33077	18.79	ng		98
20) N-Nitrosodi-n-propylamine		...	4.779	70	12092	11.07	ng		87
21) N-Nitrosodimethylamine		...	1.422	42	9913	9.95	ng	#	79
22) Hexachloroethane		...	4.844	117	7032	10.11	ng		94
25) Acetophenone		...	4.742	105	43508	19.92	ng		96
26) Nitrobenzene		...	4.941	123	7860	10.17	ng	#	86
27) N-Nitrosopiperidine		...	5.131	114	8129	10.43	ng	#	71
28) Isophorone		...	5.262	82	30694	10.01	ng		97
29) 2-Nitrophenol		...	5.347	139	7333	9.02	ng		94
30) 2,4-Dimethylphenol		...	5.466	122	13589	9.81	ng		99
31) Bis(2-chloroethoxy)methane		...	5.580	93	18047	10.03	ng		97
32) 2,4-Dichlorophenol		...	5.653	162	12253	10.02	ng		99
33) 1,2,4-Trichlorobenzene		...	5.744	180	13801	10.24	ng		98
34) Naphthalene		...	5.821	128	46973	10.07	ng		99
35) Benzoic acid		...	5.580	105	6107	13.90	ng	#	79
36) 2,6-Dichlorophenol		...	5.926	162	11855	9.90	ng		97
37) 4-Chloroaniline		...	5.923	127	18129	9.36	ng		93
38) Hexachlorobutadiene		...	6.019	225	6488	9.75	ng		96
39) a,a-Dimethylphenethylamine		...	5.685	58	48177	9.61	ng		78
40) Caprolactam		...	6.303	113	4437	9.15	ng	#	51

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040211.D
Acq On : 2 Apr 2021 3:03 pm
Operator : yh
Sample : BNA10 973-73/
Misc : ICAL 8270C_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 07 08:56:50 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:55:09 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.547	107	11987	9.33	ng		93
42) N-Nitrosodi-n-butylamine	6.369	84	10257	8.84	ng		82
43) 2-Methylnaphthalene	6.652	141	26822	10.06	ng		98
44) 1-Methylnaphthalene	6.763	141	25169	9.70	ng		99
46) 1,2,4,5-Tetrachlorobenzene	6.857	216	12300	10.43	ng		97
47) Hexachlorocyclopentadiene	6.862	237	6555	9.07	ng	#	87
48) 2,4,6-Trichlorophenol	7.004	196	7469	8.50	ng		88
49) 2,4,5-Trichlorophenol	7.038	196	8062	9.18	ng		97
51) Biphenyl	7.209	154	34471	9.88	ng		97
52) 2-Chloronaphthalene	7.206	162	25974	9.60	ng		99
53) 1-Chloronaphthalene	7.226	162	25294	10.55	ng		95
54) 2-Nitroaniline	7.345	65	8700	9.34	ng		91
55) 3-Nitroaniline	7.813	138	7888	9.06	ng	#	91
56) Pentachlorobenzene	8.029	250	9311	9.45	ng		97
57) 4-Nitroaniline	8.492	138	8187	9.67	ng	#	82
58) 2-Naphthylamine	8.154	143	28376	10.11	ng		99
59) 1-Naphthylamine	8.247	143	29144	9.92	ng		97
60) Dimethyl phthalate	7.598	163	28421	9.78	ng		99
61) Acenaphthylene	7.666	152	40894	9.64	ng		100
62) 2,6-Dinitrotoluene	7.637	165	5963	9.04	ng		82
63) Acenaphthene	7.867	154	25008	9.82	ng		98
64) 2,4-Dinitrophenol	7.932	184	2025	16.89	ng		92
65) Dibenzofuran	8.066	168	37263	10.04	ng		98
66) 4-Nitrophenol	8.049	109	3325	7.03	ng	#	83
67) 2,4-Dinitrotoluene	8.083	165	8468	9.31	ng		91
68) 2,3,4,6-Tetrachlorophenol	8.225	232	5743	8.91	ng		96
69) Diethyl phthalate	8.401	149	27678	9.27	ng		99
70) Fluorene	8.449	166	29131	9.38	ng		97
71) 4-Chlorophenyl phenyl ether	8.483	204	12954	10.02	ng		97
74) 4,6-Dinitro-2-methylphenol	8.534	198	3242	13.98	ng		81
75) Azobenzene	8.656	77	31737	10.56	ng		92
76) 1,2-Diphenylhydrazine	8.656	182	7362	10.25	ng	#	85
77) Diphenylamine	8.616	170	5129	9.66	ng		97
78) N-Nitrosodiphenylamine	8.619	168	25407	9.63	ng		97
79) 4-Bromophenyl phenyl ether	9.019	248	7641	10.20	ng		98
80) Phenacetin	8.994	108	13948	8.75	ng		98
81) Hexachlorobenzene	9.065	284	7353	10.23	ng		96
82) Atrazine	9.249	200	6860	9.47	ng	#	83
83) 4-Aminobiphenyl	9.309	169	30403	9.49	ng		100
84) Pentachlorophenol	9.295	266	4651	8.77	ng		96
85) Pentachloronitrobenzene	9.312	237	2822	8.56	ng		87
86) Pronamide	9.422	173	10812	9.39	ng		95
87) Phenanthrene	9.505	178	44504	9.99	ng		99
88) Anthracene	9.559	178	44110	9.80	ng		98
89) Carbazole	9.757	167	35638	9.36	ng		97
90) Di-n-butyl phthalate	10.231	149	46595	8.98	ng		99
91) Fluoranthene	10.813	202	43518	9.29	ng		98
93) Pyrene	11.055	202	45007	9.66	ng		98
95) Benzidine	11.001	184	19989	9.75	ng		100
96) p-Dimethylaminoazobenzene	11.449	225	7568	9.26	ng	#	83
97) Butyl benzyl phthalate	11.872	149	20485	9.23	ng		92
98) Benz(a)anthracene	12.391	228	38275	9.55	ng		98
99) 3,3'-Dichlorobenzidine	12.397	252	12649	8.93	ng		98
100) Chrysene	12.425	228	41253	10.46	ng		99
101) Bis(2-ethylhexyl)phthalate	12.547	149	28105	9.33	ng		95
102) Di-n-octyl phthalate	13.229	149	44565	8.67	ng	#	94
103) 3-Methylcholanthrene	14.134	268	10177	8.68	ng		96

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040211.D
Acq On : 2 Apr 2021 3:03 pm
Operator : yh
Sample : BNA10 973-73/
Misc : ICAL 8270C_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 07 08:56:50 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:55:09 2021
Response via : Initial Calibration

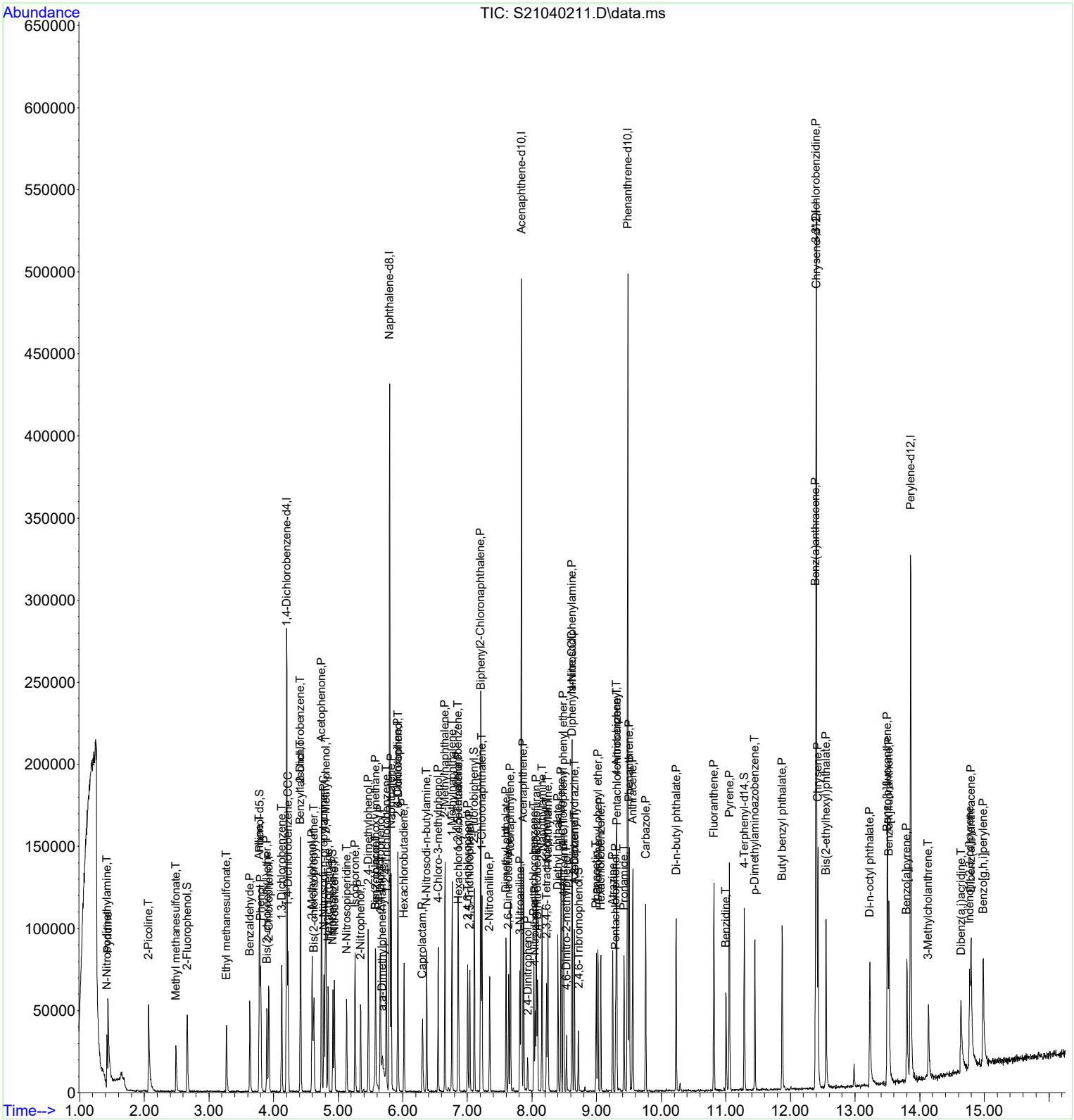
Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene	...	13.495	252	33810	8.84	ng		93
106) Benzo[k]fluoranthene	...	13.524	252	36787	10.72	ng		93
107) Benzo[a]pyrene	...	13.799	252	31059	9.47	ng		98
108) Dibenz(a,j)acridine	...	14.639	279	22363	8.08	ng		97
109) Indeno[1,2,3-cd]pyrene	...	14.773	276	35917	9.24	ng	#	86
110) Dibenz(a,h)anthracene	...	14.795	278	27586	8.59	ng		93
111) Benzo[g,h,i]perylene	...	14.983	276	30560	9.45	ng		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040211.D
Acq On : 2 Apr 2021 3:03 pm
Operator : yh
Sample : BNA10 973-73/
Misc : ICAL 8270C_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 07 08:56:50 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:55:09 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040212.D
Acq On : 2 Apr 2021 3:30 pm
Operator : yh
Sample : BNA20 973-73/
Misc : ICAL 8270C_W
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 07 08:58:40 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:57:31 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.203	152	42378	40.00	ng		0.00
23) Naphthalene-d8	...	5.798	136	170629	40.00	ng		0.00
45) Acenaphthene-d10	...	7.836	164	87896	40.00	ng		0.00
73) Phenanthrene-d10	...	9.482	188	150745	40.00	ng		0.00
92) Chrysene-d12	...	12.403	240	124374	40.00	ng		0.00
104) Perylene-d12	...	13.862	264	109094	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.662	112	28606	19.67	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 19.67%#					
9) Phenol-d5	...	3.789	99	35190	19.78	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 19.78%					
24) Nitrobenzene-d5	...	4.921	82	30217	19.11	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 38.22%					
50) 2-Fluorobiphenyl	...	7.107	172	56570	19.57	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 39.14%#					
72) 2,4,6-Tribromophenol	...	8.719	330	4971	19.79	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 19.79%					
94) 4-Terphenyl-d14	...	11.287	244	60598	19.14	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 38.28%					
Target Compounds								Qvalue
2) Pyridine	...	1.433	79	35807	20.14	ng		92
3) 2-Picoline	...	2.060	93	33067	18.97	ng		94
4) Methyl methanesulfonate	...	2.486	80	17164	19.75	ng		97
6) Ethyl methanesulfonate	...	3.272	79	25157	19.16	ng		96
7) Benzaldehyde	...	3.633	105	20462	20.51	ng		95
8) Aniline	...	3.783	66	21309	19.79	ng	#	83
10) Phenol	...	3.806	94	43488	20.58	ng		92
11) Bis(2-chloroethyl)ether	...	3.897	93	29462	19.79	ng		91
12) 2-Chlorophenol	...	3.928	128	30838	19.52	ng		95
13) 1,3-Dichlorobenzene	...	4.127	146	34394	19.66	ng		97
14) 1,4-Dichlorobenzene	...	4.226	146	34226	19.47	ng		99
15) 1,2-Dichlorobenzene	...	4.419	146	33169	19.89	ng		96
16) Benzyl alcohol	...	4.416	108	20705	19.66	ng	#	70
17) Bis(2-chloroisopropyl)ether	...	4.623	45	57016	20.29	ng	#	59
18) 2-Methylphenol	...	4.601	107	25239	19.93	ng	#	90
19) 3,4-Methylphenol	...	4.811	107	63688	37.61	ng		98
20) N-Nitrosodi-n-propylamine	...	4.782	70	22278	21.05	ng		87
21) N-Nitrosodimethylamine	...	1.419	42	18725	19.11	ng	#	79
22) Hexachloroethane	...	4.845	117	13820	20.46	ng		93
25) Acetophenone	...	4.742	105	83254	37.41	ng		96
26) Nitrobenzene	...	4.944	123	15042	19.08	ng	#	87
27) N-Nitrosopiperidine	...	5.131	114	15510	19.48	ng	#	74
28) Isophorone	...	5.262	82	59609	19.05	ng		99
29) 2-Nitrophenol	...	5.350	139	14492	17.68	ng		90
30) 2,4-Dimethylphenol	...	5.469	122	27320	19.48	ng		99
31) Bis(2-chloroethoxy)methane	...	5.580	93	35430	19.36	ng		99
32) 2,4-Dichlorophenol	...	5.651	162	23417	18.82	ng		97
33) 1,2,4-Trichlorobenzene	...	5.747	180	26538	19.24	ng		98
34) Naphthalene	...	5.821	128	91554	19.22	ng		99
35) Benzoic acid	...	5.605	105	14121	21.08	ng		85
36) 2,6-Dichlorophenol	...	5.926	162	22604	18.63	ng		97
37) 4-Chloroaniline	...	5.923	127	37240	19.19	ng		97
38) Hexachlorobutadiene	...	6.020	225	12754	18.97	ng		96
39) a,a-Dimethylphenethylamine	...	5.702	58	96177	18.84	ng		75
40) Caprolactam	...	6.326	113	9216	18.73	ng	#	57

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040212.D
Acq On : 2 Apr 2021 3:30 pm
Operator : yh
Sample : BNA20 973-73/
Misc : ICAL 8270C_W
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 07 08:58:40 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:57:31 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.550	107	24783	18.98	ng		97
42) N-Nitrosodi-n-butylamine	6.372	84	19651	16.50	ng		84
43) 2-Methylnaphthalene	6.653	141	51423	18.91	ng		99
44) 1-Methylnaphthalene	6.763	141	50632	19.25	ng		100
46) 1,2,4,5-Tetrachlorobenzene	6.854	216	22841	19.45	ng		98
47) Hexachlorocyclopentadiene	6.863	237	13060	18.25	ng		98
48) 2,4,6-Trichlorophenol	7.005	196	15475	18.06	ng		97
49) 2,4,5-Trichlorophenol	7.039	196	16707	19.31	ng		96
51) Biphenyl	7.209	154	66960	19.38	ng	#	97
52) 2-Chloronaphthalene	7.206	162	51952	19.47	ng		97
53) 1-Chloronaphthalene	7.226	162	47349	20.13	ng		99
54) 2-Nitroaniline	7.345	65	18100	19.46	ng		91
55) 3-Nitroaniline	7.816	138	16107	18.70	ng	#	95
56) Pentachlorobenzene	8.029	250	19021	19.54	ng		94
57) 4-Nitroaniline	8.497	138	16470	19.48	ng	#	85
58) 2-Naphthylamine	8.157	143	56290	20.19	ng		98
59) 1-Naphthylamine	8.248	143	57211	19.71	ng		97
60) Dimethyl phthalate	7.598	163	54713	19.01	ng		99
61) Acenaphthylene	7.666	152	82036	19.50	ng		98
62) 2,6-Dinitrotoluene	7.640	165	11980	18.28	ng	#	80
63) Acenaphthene	7.870	154	49529	19.63	ng		97
64) 2,4-Dinitrophenol	7.936	184	4304	21.80	ng		75
65) Dibenzofuran	8.069	168	70726	19.18	ng	#	65
66) 4-Nitrophenol	8.055	109	8688	18.68	ng	#	1
67) 2,4-Dinitrotoluene	8.089	165	16647	18.44	ng		87
68) 2,3,4,6-Tetrachlorophenol	8.228	232	11519	17.92	ng		96
69) Diethyl phthalate	8.404	149	55655	18.85	ng		99
70) Fluorene	8.449	166	60591	19.76	ng		99
71) 4-Chlorophenyl phenyl ether	8.486	204	25170	19.66	ng		95
74) 4,6-Dinitro-2-methylphenol	8.537	198	7741	21.40	ng		83
75) Azobenzene	8.656	77	61093	20.18	ng		91
76) 1,2-Diphenylhydrazine	8.656	182	13910	19.27	ng	#	81
77) Diphenylamine	8.622	170	10425	19.84	ng		96
78) N-Nitrosodiphenylamine	8.622	168	52552	20.14	ng		98
79) 4-Bromophenyl phenyl ether	9.020	248	14417	19.18	ng		98
80) Phenacetin	9.000	108	30483	19.21	ng		97
81) Hexachlorobenzene	9.068	284	13584	19.04	ng		95
82) Atrazine	9.255	200	14602	20.29	ng	#	88
83) 4-Aminobiphenyl	9.309	169	60701	19.10	ng		99
84) Pentachlorophenol	9.298	266	9536	17.99	ng		97
85) Pentachloronitrobenzene	9.312	237	6123	18.87	ng		87
86) Pronamide	9.428	173	21895	19.10	ng		97
87) Phenanthrene	9.508	178	87552	19.69	ng		99
88) Anthracene	9.562	178	87753	19.60	ng		99
89) Carbazole	9.761	167	71662	18.98	ng		100
90) Di-n-butyl phthalate	10.232	149	97728	18.96	ng		99
91) Fluoranthene	10.816	202	89047	19.16	ng		98
93) Pyrene	11.058	202	92301	19.12	ng		100
95) Benzidine	11.004	184	40108	18.51	ng		98
96) p-Dimethylaminoazobenzene	11.449	225	15529	18.28	ng	#	82
97) Butyl benzyl phthalate	11.872	149	43627	18.79	ng		97
98) Benz(a)anthracene	12.389	228	77866	18.64	ng		99
99) 3,3'-Dichlorobenzidine	12.400	252	26838	18.35	ng		97
100) Chrysene	12.428	228	78408	19.01	ng		99
101) Bis(2-ethylhexyl)phthalate	12.551	149	57817	18.40	ng		93
102) Di-n-octyl phthalate	13.229	149	94130	17.51	ng		91
103) 3-Methylcholanthrene	14.137	268	21537	17.80	ng		93

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040212.D
Acq On : 2 Apr 2021 3:30 pm
Operator : yh
Sample : BNA20 973-73/
Misc : ICAL 8270C_W
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 07 08:58:40 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:57:31 2021
Response via : Initial Calibration

Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
105) Benzo[b]fluoranthene	...	13.501	252	71016	17.94	ng	95
106) Benzo[k]fluoranthene	...	13.530	252	73938	20.90	ng	96
107) Benzo[a]pyrene	...	13.802	252	64202	18.85	ng	96
108) Dibenz(a,j)acridine	...	14.639	279	52262	18.27	ng	99
109) Indeno[1,2,3-cd]pyrene	...	14.779	276	75163	18.59	ng	96
110) Dibenz(a,h)anthracene	...	14.798	278	60581	18.32	ng	95
111) Benzo[g,h,i]perylene	...	14.989	276	64493	19.31	ng	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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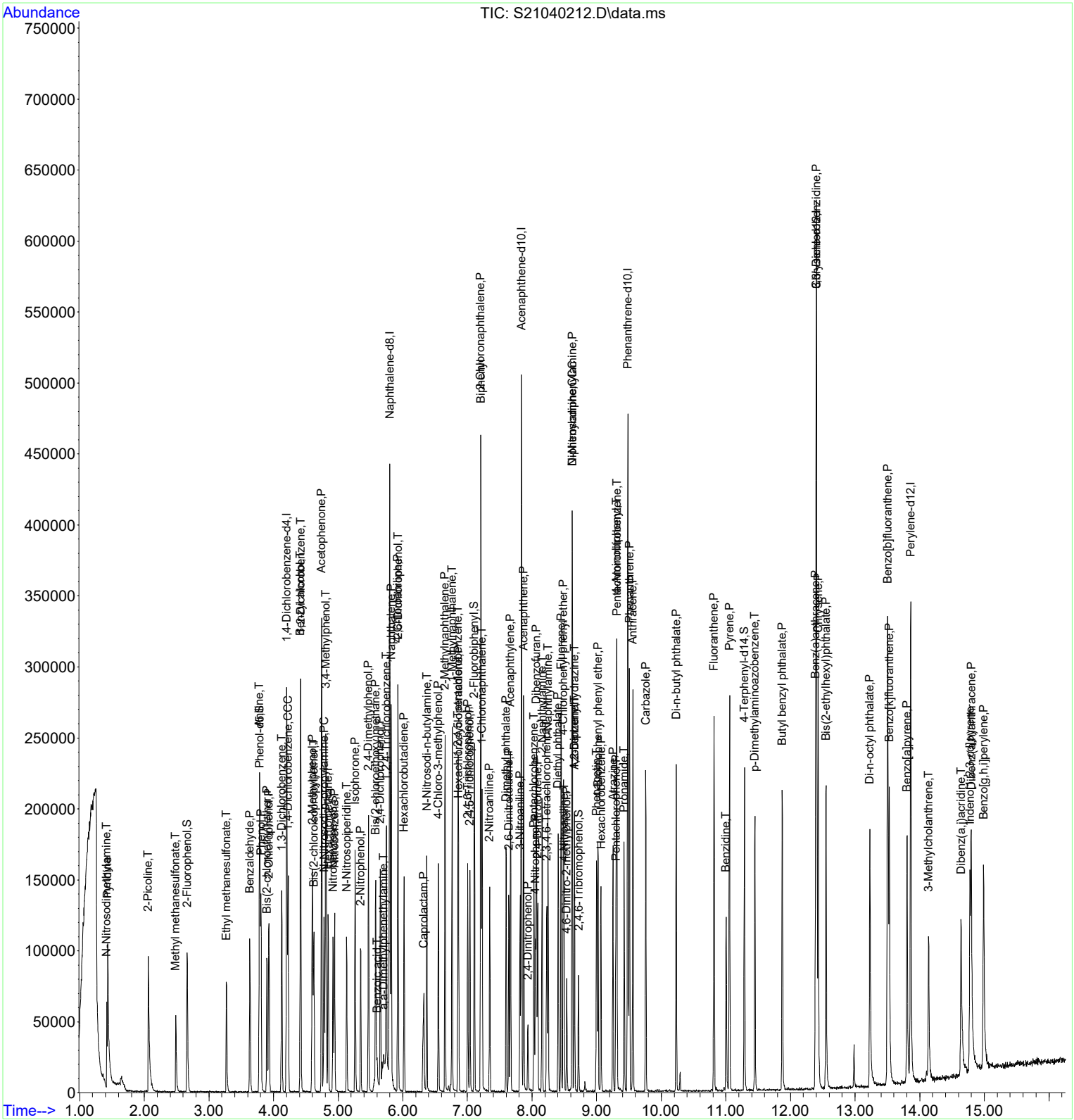
Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040212.D
Acq On : 2 Apr 2021 3:30 pm
Operator : yh
Sample : BNA20 973-73/
Misc : ICAL 8270C_W
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 07 08:58:40 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:57:31 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040213.D
Acq On : 2 Apr 2021 3:56 pm
Operator : yh
Sample : BNA40 973-73/
Misc : ICAL 8270C_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 07 09:06:23 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:59:27 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.203	152	41066	40.00	ng		0.00
23) Naphthalene-d8	...	5.798	136	161073	40.00	ng		0.00
45) Acenaphthene-d10	...	7.839	164	87919	40.00	ng		0.00
73) Phenanthrene-d10	...	9.485	188	152460	40.00	ng		0.00
92) Chrysene-d12	...	12.406	240	122707	40.00	ng		0.00
104) Perylene-d12	...	13.864	264	105734	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.665	112	58165	41.26	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 41.26%					
9) Phenol-d5	...	3.791	99	70974	41.17	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 41.17%					
24) Nitrobenzene-d5	...	4.921	82	60036	40.23	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 80.46%					
50) 2-Fluorobiphenyl	...	7.109	172	116111	40.16	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 80.32%					
72) 2,4,6-Tribromophenol	...	8.724	330	10998	38.45	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 38.45%					
94) 4-Terphenyl-d14	...	11.287	244	123658	39.58	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 79.16%					
Target Compounds					Qvalue			
2) Pyridine	...	1.430	79	70176	40.73	ng	#	91
3) 2-Picoline	...	2.054	93	68573	40.59	ng		98
4) Methyl methanesulfonate	...	2.486	80	33831	40.17	ng		99
6) Ethyl methanesulfonate	...	3.272	79	51852	40.76	ng		95
7) Benzaldehyde	...	3.632	105	40386	41.78	ng		95
8) Aniline	...	3.783	66	42882	41.10	ng	#	81
10) Phenol	...	3.811	94	86018	42.00	ng		93
11) Bis(2-chloroethyl)ether	...	3.899	93	60573	41.98	ng		91
12) 2-Chlorophenol	...	3.928	128	62400	40.76	ng		96
13) 1,3-Dichlorobenzene	...	4.126	146	69645	41.09	ng		98
14) 1,4-Dichlorobenzene	...	4.226	146	70332	41.28	ng		98
15) 1,2-Dichlorobenzene	...	4.419	146	65547	40.56	ng		97
16) Benzyl alcohol	...	4.422	108	41268	40.44	ng	#	71
17) Bis(2-chloroisopropyl)ether	...	4.626	45	112938	41.48	ng	#	76
18) 2-Methylphenol	...	4.603	107	50320	41.00	ng	#	89
19) 3,4-Methylphenol	...	4.819	107	128361	78.22	ng		98
20) N-Nitrosodi-n-propylamine	...	4.785	70	44103	43.01	ng		85
21) N-Nitrosodimethylamine	...	1.419	42	39272	41.36	ng	#	73
22) Hexachloroethane	...	4.844	117	26818	40.98	ng		95
25) Acetophenone	...	4.748	105	165428	78.74	ng		96
26) Nitrobenzene	...	4.947	123	30654	41.19	ng		91
27) N-Nitrosopiperidine	...	5.134	114	31039	41.29	ng	#	74
28) Isophorone	...	5.267	82	119785	40.56	ng		99
29) 2-Nitrophenol	...	5.350	139	31833	41.13	ng		92
30) 2,4-Dimethylphenol	...	5.472	122	53869	40.69	ng		99
31) Bis(2-chloroethoxy)methane	...	5.582	93	71227	41.23	ng		98
32) 2,4-Dichlorophenol	...	5.656	162	48154	40.99	ng		97
33) 1,2,4-Trichlorobenzene	...	5.747	180	53908	41.39	ng		98
34) Naphthalene	...	5.824	128	184464	41.02	ng		98
35) Benzoic acid	...	5.639	105	29299	37.52	ng	#	37
36) 2,6-Dichlorophenol	...	5.931	162	46469	40.58	ng		99
37) 4-Chloroaniline	...	5.926	127	75236	41.06	ng		96
38) Hexachlorobutadiene	...	6.019	225	25141	39.62	ng		97
39) a,a-Dimethylphenethylamine	...	5.821	58	195486	40.53	ng		81
40) Caprolactam	...	6.354	113	19075	41.07	ng	#	53

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040213.D
Acq On : 2 Apr 2021 3:56 pm
Operator : yh
Sample : BNA40 973-73/
Misc : ICAL 8270C_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 07 09:06:23 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:59:27 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.556	107	49663	40.28	ng		94
42) N-Nitrosodi-n-butylamine	6.374	84	52111	46.36	ng		93
43) 2-Methylnaphthalene	6.655	141	102975	40.11	ng		99
44) 1-Methylnaphthalene	6.766	141	101922	41.05	ng		99
46) 1,2,4,5-Tetrachlorobenzene	6.857	216	46484	39.56	ng		99
47) Hexachlorocyclopentadiene	6.865	237	28470	39.78	ng		96
48) 2,4,6-Trichlorophenol	7.007	196	32810	38.68	ng		97
49) 2,4,5-Trichlorophenol	7.044	196	34593	39.97	ng		98
51) Biphenyl	7.212	154	136923	39.62	ng		98
52) 2-Chloronaphthalene	7.209	162	106096	39.75	ng		98
53) 1-Chloronaphthalene	7.231	162	95637	40.65	ng		98
54) 2-Nitroaniline	7.351	65	36750	39.50	ng		92
55) 3-Nitroaniline	7.822	138	34107	39.59	ng	#	95
56) Pentachlorobenzene	8.035	250	38555	39.59	ng		96
57) 4-Nitroaniline	8.506	138	33329	39.41	ng	#	85
58) 2-Naphthylamine	8.159	143	110471	39.62	ng		99
59) 1-Naphthylamine	8.253	143	115214	39.67	ng		99
60) Dimethyl phthalate	7.603	163	112651	39.13	ng		99
61) Acenaphthylene	7.668	152	168338	40.00	ng		100
62) 2,6-Dinitrotoluene	7.646	165	26470	40.38	ng	#	81
63) Acenaphthene	7.873	154	101468	40.21	ng		99
64) 2,4-Dinitrophenol	7.938	184	12418	39.13	ng		97
65) Dibenzofuran	8.072	168	147580	40.02	ng	#	64
66) 4-Nitrophenol	8.066	109	19227	41.42	ng	#	1
67) 2,4-Dinitrotoluene	8.094	165	35965	39.83	ng		89
68) 2,3,4,6-Tetrachlorophenol	8.230	232	25045	38.95	ng		97
69) Diethyl phthalate	8.409	149	117778	39.88	ng		99
70) Fluorene	8.455	166	122592	39.98	ng		99
71) 4-Chlorophenyl phenyl ether	8.486	204	51067	39.89	ng		97
74) 4,6-Dinitro-2-methylphenol	8.546	198	18606	38.90	ng		82
75) Azobenzene	8.659	77	123187	40.24	ng		93
76) 1,2-Diphenylhydrazine	8.659	182	30007	41.11	ng		93
77) Diphenylamine	8.628	170	20623	38.81	ng	#	92
78) N-Nitrosodiphenylamine	8.628	168	105137	39.83	ng		100
79) 4-Bromophenyl phenyl ether	9.022	248	30189	39.70	ng		98
80) Phenacetin	9.011	108	65393	40.74	ng		99
81) Hexachlorobenzene	9.068	284	29585	40.99	ng		99
82) Atrazine	9.261	200	29810	40.96	ng	#	86
83) 4-Aminobiphenyl	9.315	169	128072	39.85	ng		100
84) Pentachlorophenol	9.300	266	21209	39.55	ng		98
85) Pentachloronitrobenzene	9.318	237	13406	40.84	ng		89
86) Pronamide	9.434	173	45037	38.84	ng		92
87) Phenanthrene	9.511	178	178932	39.78	ng		99
88) Anthracene	9.564	178	180536	39.86	ng		100
89) Carbazole	9.763	167	150946	39.52	ng		98
90) Di-n-butyl phthalate	10.234	149	207670	39.83	ng		99
91) Fluoranthene	10.819	202	189745	40.36	ng		99
93) Pyrene	11.060	202	195916	41.13	ng		99
95) Benzidine	11.006	184	85239	39.88	ng		100
96) p-Dimethylaminoazobenzene	11.455	225	33605	40.09	ng	#	83
97) Butyl benzyl phthalate	11.875	149	91062	39.76	ng		95
98) Benz(a)anthracene	12.394	228	166258	40.35	ng		99
99) 3,3'-Dichlorobenzidine	12.403	252	59844	41.46	ng		97
100) Chrysene	12.434	228	164712	40.47	ng		98
101) Bis(2-ethylhexyl)phthalate	12.550	149	126255	40.73	ng		93
102) Di-n-octyl phthalate	13.231	149	212645	40.10	ng		92
103) 3-Methylcholanthrene	14.140	268	49133	41.17	ng		96

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040213.D
Acq On : 2 Apr 2021 3:56 pm
Operator : yh
Sample : BNA40 973-73/
Misc : ICAL 8270C_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 07 09:06:23 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:59:27 2021
Response via : Initial Calibration

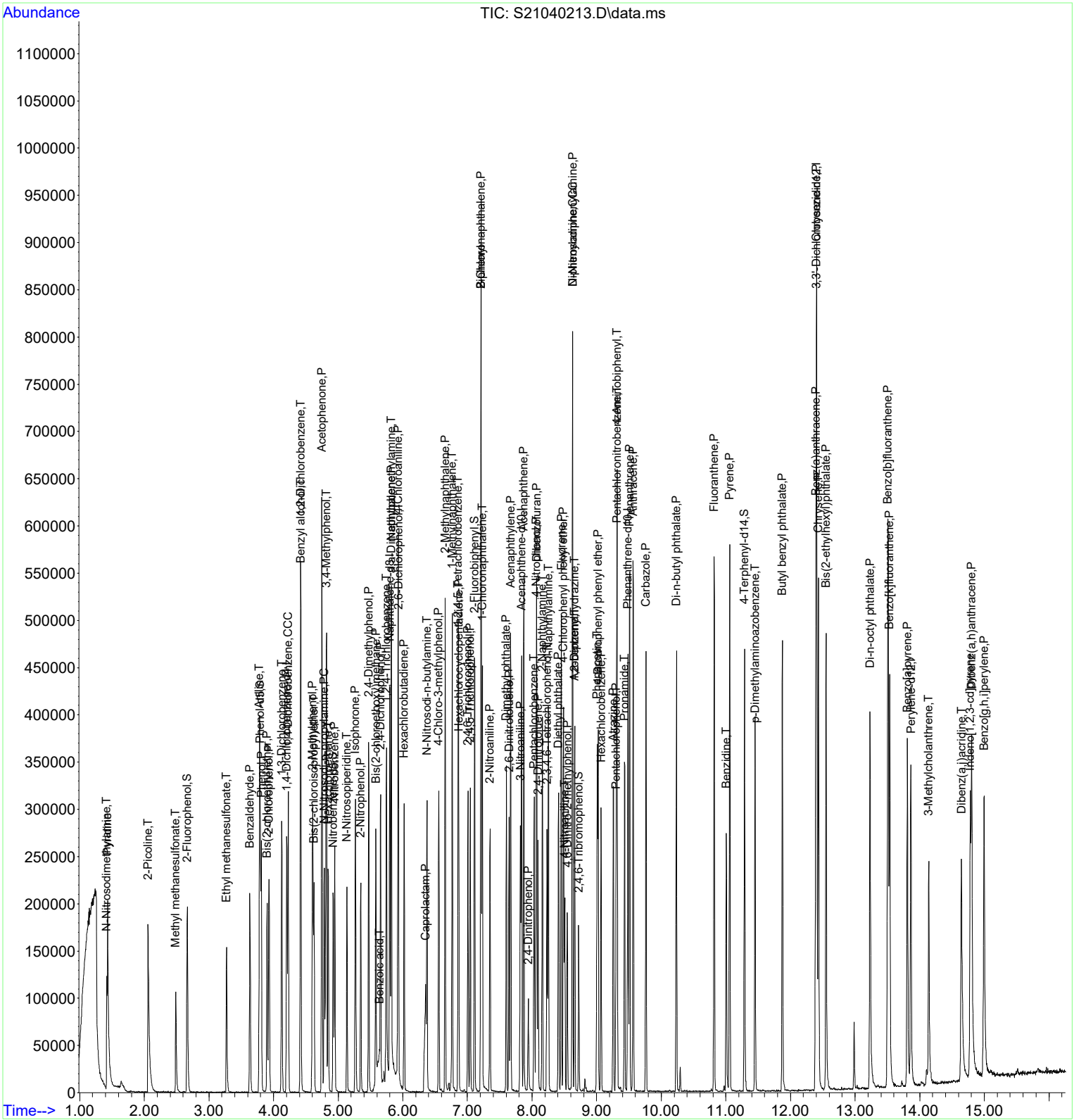
Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
105) Benzo[b]fluoranthene	...	13.507	252	147343	38.40	ng	95
106) Benzo[k]fluoranthene	...	13.535	252	148211	43.23	ng	96
107) Benzo[a]pyrene	...	13.810	252	133402	40.42	ng	95
108) Dibenz(a,j)acridine	...	14.645	279	113350	40.89	ng	99
109) Indeno[1,2,3-cd]pyrene	...	14.781	276	160455	40.95	ng	93
110) Dibenz(a,h)anthracene	...	14.804	278	132176	41.24	ng	94
111) Benzo[g,h,i]perylene	...	14.997	276	133544	41.25	ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040213.D
Acq On : 2 Apr 2021 3:56 pm
Operator : yh
Sample : BNA40 973-73/
Misc : ICAL 8270C_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 07 09:06:23 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:59:27 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040214.D
Acq On : 2 Apr 2021 4:22 pm
Operator : yh
Sample : BNA60 973-73/
Misc : ICAL 8270C_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 07 09:17:43 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:07:18 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.203	152	40115	40.00	ng		0.00
23) Naphthalene-d8	...	5.798	136	160534	40.00	ng		0.00
45) Acenaphthene-d10	...	7.836	164	85824	40.00	ng		0.00
73) Phenanthrene-d10	...	9.485	188	147635	40.00	ng		0.00
92) Chrysene-d12	...	12.409	240	121502	40.00	ng		0.00
104) Perylene-d12	...	13.865	264	104371	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.665	112	84072	61.06	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 61.06%					
9) Phenol-d5	...	3.797	99	101059	60.01	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 60.01%					
24) Nitrobenzene-d5	...	4.924	82	89362	60.08	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 120.16%#					
50) 2-Fluorobiphenyl	...	7.112	172	173107	61.33	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 122.66%#					
72) 2,4,6-Tribromophenol	...	8.727	330	17556	60.08	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 60.08%					
94) 4-Terphenyl-d14	...	11.293	244	186412	60.26	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 120.52%					
Target Compounds					Qvalue			
2) Pyridine	...	1.430	79	100671	59.81	ng	#	88
3) 2-Picoline	...	2.055	93	101206	61.32	ng		98
4) Methyl methanesulfonate	...	2.489	80	49014	59.58	ng		97
6) Ethyl methanesulfonate	...	3.275	79	75772	60.97	ng		96
7) Benzaldehyde	...	3.633	105	58527	61.98	ng		98
8) Aniline	...	3.786	66	62180	61.01	ng	#	81
10) Phenol	...	3.814	94	112297	56.13	ng		99
11) Bis(2-chloroethyl)ether	...	3.902	93	82986	58.88	ng		90
12) 2-Chlorophenol	...	3.931	128	90258	60.36	ng		96
13) 1,3-Dichlorobenzene	...	4.127	146	100417	60.64	ng		98
14) 1,4-Dichlorobenzene	...	4.226	146	99879	60.01	ng		97
15) 1,2-Dichlorobenzene	...	4.419	146	94951	60.16	ng		97
16) Benzyl alcohol	...	4.425	108	59535	59.72	ng	#	73
17) Bis(2-chloroisopropyl)ether	...	4.626	45	159240	59.88	ng		84
18) 2-Methylphenol	...	4.609	107	72587	60.54	ng		96
19) 3,4-Methylphenol	...	4.822	107	188797	117.77	ng		98
20) N-Nitrosodi-n-propylamine	...	4.788	70	63417	63.31	ng		82
21) N-Nitrosodimethylamine	...	1.419	42	56547	60.96	ng	#	74
22) Hexachloroethane	...	4.845	117	38178	59.72	ng		97
25) Acetophenone	...	4.754	105	241812	115.48	ng		97
26) Nitrobenzene	...	4.950	123	44481	59.98	ng		90
27) N-Nitrosopiperidine	...	5.140	114	44549	59.46	ng	#	72
28) Isophorone	...	5.270	82	177144	60.18	ng		99
29) 2-Nitrophenol	...	5.350	139	47638	61.76	ng		95
30) 2,4-Dimethylphenol	...	5.475	122	79066	59.92	ng		99
31) Bis(2-chloroethoxy)methane	...	5.585	93	104265	60.56	ng		98
32) 2,4-Dichlorophenol	...	5.659	162	70315	60.06	ng		98
33) 1,2,4-Trichlorobenzene	...	5.747	180	76167	58.68	ng		97
34) Naphthalene	...	5.824	128	265084	59.15	ng		99
35) Benzoic acid	...	5.656	105	48196	56.19	ng		85
36) 2,6-Dichlorophenol	...	5.935	162	68919	60.39	ng		99
37) 4-Chloroaniline	...	5.929	127	111135	60.86	ng		97
38) Hexachlorobutadiene	...	6.020	225	37423	59.17	ng		96
39) a,a-Dimethylphenethylamine	...	5.881	58	286356	59.56	ng		75
40) Caprolactam	...	6.374	113	28792	62.20	ng	#	1

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040214.D
Acq On : 2 Apr 2021 4:22 pm
Operator : yh
Sample : BNA60 973-73/
Misc : ICAL 8270C_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 07 09:17:43 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:07:18 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.562	107	75147	61.16	ng		96
42) N-Nitrosodi-n-butylamine	6.377	84	75322	67.23	ng	#	79
43) 2-Methylnaphthalene	6.658	141	153158	59.85	ng		100
44) 1-Methylnaphthalene	6.766	141	150047	60.64	ng		99
46) 1,2,4,5-Tetrachlorobenzene	6.860	216	67708	59.03	ng		99
47) Hexachlorocyclopentadiene	6.865	237	42100	60.26	ng		95
48) 2,4,6-Trichlorophenol	7.010	196	48517	59.04	ng		97
49) 2,4,5-Trichlorophenol	7.047	196	51474	60.93	ng		98
51) Biphenyl	7.215	154	203341	60.27	ng		98
52) 2-Chloronaphthalene	7.212	162	153870	59.05	ng		98
53) 1-Chloronaphthalene	7.232	162	143354	62.42	ng		98
54) 2-Nitroaniline	7.354	65	55254	60.84	ng		93
55) 3-Nitroaniline	7.825	138	51878	61.69	ng		97
56) Pentachlorobenzene	8.035	250	57633	60.62	ng		96
57) 4-Nitroaniline	8.517	138	50225	60.84	ng	#	86
58) 2-Naphthylamine	8.163	143	163750	60.16	ng		99
59) 1-Naphthylamine	8.256	143	171008	60.33	ng		99
60) Dimethyl phthalate	7.606	163	171265	60.95	ng		99
61) Acenaphthylene	7.672	152	250182	60.90	ng		100
62) 2,6-Dinitrotoluene	7.649	165	40059	62.60	ng	#	78
63) Acenaphthene	7.876	154	148353	60.22	ng		98
64) 2,4-Dinitrophenol	7.944	184	20237	56.87	ng		91
65) Dibenzofuran	8.072	168	215537	59.87	ng	#	63
66) 4-Nitrophenol	8.072	109	29091	64.20	ng	#	1
67) 2,4-Dinitrotoluene	8.100	165	54661	62.02	ng		92
68) 2,3,4,6-Tetrachlorophenol	8.234	232	39740	63.31	ng		97
69) Diethyl phthalate	8.412	149	177292	61.49	ng		99
70) Fluorene	8.455	166	180303	60.23	ng		97
71) 4-Chlorophenyl phenyl ether	8.486	204	76489	61.20	ng		99
74) 4,6-Dinitro-2-methylphenol	8.551	198	30581	59.95	ng		85
75) Azobenzene	8.662	77	180787	60.98	ng		93
76) 1,2-Diphenylhydrazine	8.662	182	43181	61.09	ng	#	89
77) Diphenylamine	8.631	170	31745	61.69	ng		98
78) N-Nitrosodiphenylamine	8.631	168	157437	61.59	ng		99
79) 4-Bromophenyl phenyl ether	9.025	248	44617	60.60	ng		96
80) Phenacetin	9.020	108	96555	62.12	ng		99
81) Hexachlorobenzene	9.071	284	42454	60.75	ng		97
82) Atrazine	9.267	200	43971	62.39	ng	#	88
83) 4-Aminobiphenyl	9.318	169	190852	61.33	ng		99
84) Pentachlorophenol	9.306	266	31925	61.49	ng		98
85) Pentachloronitrobenzene	9.323	237	19512	61.39	ng		93
86) Pronamide	9.437	173	69314	61.73	ng		94
87) Phenanthrene	9.514	178	267070	61.31	ng		100
88) Anthracene	9.570	178	267862	61.08	ng		99
89) Carbazole	9.766	167	229081	61.94	ng		98
90) Di-n-butyl phthalate	10.237	149	312936	61.98	ng		99
91) Fluoranthene	10.822	202	280991	61.73	ng		99
93) Pyrene	11.063	202	286723	60.79	ng		100
95) Benzidine	11.009	184	130619	61.72	ng		99
96) p-Dimethylaminoazobenzene	11.455	225	52012	62.66	ng	#	86
97) Butyl benzyl phthalate	11.878	149	140043	61.75	ng		98
98) Benz(a)anthracene	12.394	228	247510	60.67	ng		100
99) 3,3'-Dichlorobenzidine	12.406	252	87714	61.38	ng		98
100) Chrysene	12.440	228	241970	60.04	ng		99
101) Bis(2-ethylhexyl)phthalate	12.550	149	188631	61.46	ng		95
102) Di-n-octyl phthalate	13.235	149	324306	61.76	ng		92
103) 3-Methylcholanthrene	14.146	268	75177	63.62	ng		95

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040214.D
Acq On : 2 Apr 2021 4:22 pm
Operator : yh
Sample : BNA60 973-73/
Misc : ICAL 8270C_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 07 09:17:43 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:07:18 2021
Response via : Initial Calibration

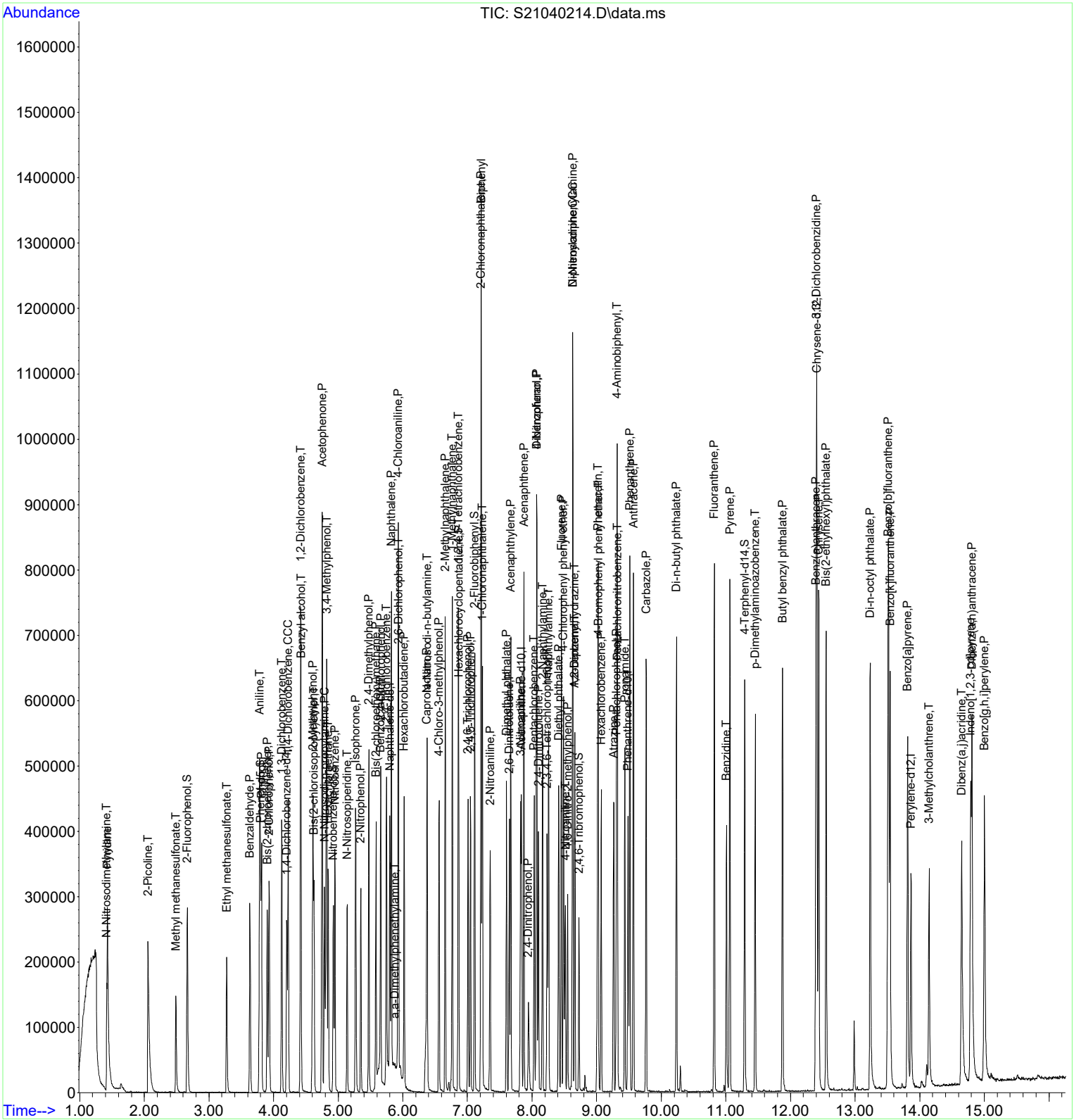
Internal Standards		R.T.	QIon	Response	Conc Units	Dev(Min)
105) Benzo[b]fluoranthene	...	13.513	252	232088	61.27 ng	94
106) Benzo[k]fluoranthene	...	13.544	252	205416	60.70 ng	96
107) Benzo[a]pyrene	...	13.813	252	201726	61.92 ng	96
108) Dibenz(a,j)acridine	...	14.651	279	172712	63.12 ng	99
109) Indeno[1,2,3-cd]pyrene	...	14.790	276	242526	62.70 ng	97
110) Dibenz(a,h)anthracene	...	14.810	278	200919	63.51 ng	97
111) Benzo[g,h,i]perylene	...	15.003	276	195861	61.28 ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040214.D
Acq On : 2 Apr 2021 4:22 pm
Operator : yh
Sample : BNA60 973-73/
Misc : ICAL 8270C_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 07 09:17:43 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:07:18 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040215.D
Acq On : 2 Apr 2021 4:48 pm
Operator : yh
Sample : BNA80 973-73/
Misc : ICAL 8270C_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 07 09:20:22 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:18:57 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.206	152	43051	40.00	ng		0.00
23) Naphthalene-d8	...	5.801	136	164610	40.00	ng		0.00
45) Acenaphthene-d10	...	7.839	164	88617	40.00	ng		0.00
73) Phenanthrene-d10	...	9.488	188	155250	40.00	ng		0.00
92) Chrysene-d12	...	12.411	240	127021	40.00	ng		0.00
104) Perylene-d12	...	13.870	264	117846	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.668	112	119062	80.57	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 80.57%					
9) Phenol-d5	...	3.803	99	140414	77.69	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 77.69%					
24) Nitrobenzene-d5	...	4.930	82	124954	81.92	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 163.84%#					
50) 2-Fluorobiphenyl	...	7.115	172	234151	80.34	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 160.68%#					
72) 2,4,6-Tribromophenol	...	8.730	330	24337	79.16	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 79.16%					
94) 4-Terphenyl-d14	...	11.296	244	263709	81.54	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 163.08%#					
Target Compounds								Qvalue
2) Pyridine	...	1.430	79	141140	78.14	ng	#	89
3) 2-Picoline	...	2.057	93	139400	78.70	ng		98
4) Methyl methanesulfonate	...	2.492	80	70939	80.35	ng		99
6) Ethyl methanesulfonate	...	3.281	79	106422	79.79	ng		96
7) Benzaldehyde	...	3.635	105	79675	78.62	ng		98
8) Aniline	...	3.789	66	86170	78.79	ng	#	84
10) Phenol	...	3.820	94	155431	72.39	ng		97
11) Bis(2-chloroethyl)ether	...	3.905	93	115011	76.03	ng		87
12) 2-Chlorophenol	...	3.933	128	127007	79.14	ng		97
13) 1,3-Dichlorobenzene	...	4.126	146	137682	77.48	ng		97
14) 1,4-Dichlorobenzene	...	4.226	146	140050	78.41	ng		98
15) 1,2-Dichlorobenzene	...	4.419	146	132600	78.28	ng		96
16) Benzyl alcohol	...	4.427	108	84286	78.79	ng	#	72
17) Bis(2-chloroisopropyl)ether	...	4.629	45	219713	76.98	ng		85
18) 2-Methylphenol	...	4.615	107	100633	78.21	ng		95
19) 3,4-Methylphenol	...	4.830	107	260166	151.22	ng		98
20) N-Nitrosodi-n-propylamine	...	4.793	70	83316	77.50	ng		85
21) N-Nitrosodimethylamine	...	1.422	42	79196	79.55	ng	#	73
22) Hexachloroethane	...	4.847	117	53314	77.71	ng		94
25) Acetophenone	...	4.756	105	334273	155.68	ng		97
26) Nitrobenzene	...	4.955	123	61397	80.74	ng	#	86
27) N-Nitrosopiperidine	...	5.145	114	61412	79.94	ng	#	72
28) Isophorone	...	5.276	82	245465	81.33	ng		99
29) 2-Nitrophenol	...	5.355	139	66270	83.78	ng		96
30) 2,4-Dimethylphenol	...	5.480	122	110423	81.62	ng		99
31) Bis(2-chloroethoxy)methane	...	5.588	93	142331	80.62	ng		99
32) 2,4-Dichlorophenol	...	5.662	162	97851	81.51	ng		100
33) 1,2,4-Trichlorobenzene	...	5.750	180	108299	81.37	ng		100
34) Naphthalene	...	5.827	128	377309	82.11	ng		100
35) Benzoic acid	...	5.673	105	73311	78.56	ng		85
36) 2,6-Dichlorophenol	...	5.937	162	96517	82.48	ng		99
37) 4-Chloroaniline	...	5.932	127	153246	81.84	ng		97
38) Hexachlorobutadiene	...	6.022	225	53998	83.26	ng		97
39) a,a-Dimethylphenethylamine	...	5.923	58	407992	82.81	ng		85
40) Caprolactam	...	6.400	113	40350	85.02	ng	#	22

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040215.D
Acq On : 2 Apr 2021 4:48 pm
Operator : yh
Sample : BNA80 973-73/
Misc : ICAL 8270C_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 07 09:20:22 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:18:57 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.567	107	104477	82.93	ng		96
42) N-Nitrosodi-n-butylamine	6.380	84	108142	94.14	ng	#	81
43) 2-Methylnaphthalene	6.658	141	215405	82.10	ng		100
44) 1-Methylnaphthalene	6.769	141	206653	81.45	ng		99
46) 1,2,4,5-Tetrachlorobenzene	6.860	216	95505	80.64	ng		98
47) Hexachlorocyclopentadiene	6.865	237	59662	82.70	ng		96
48) 2,4,6-Trichlorophenol	7.013	196	67769	80.56	ng		97
49) 2,4,5-Trichlorophenol	7.053	196	72403	83.01	ng		97
51) Biphenyl	7.214	154	287529	82.54	ng		98
52) 2-Chloronaphthalene	7.214	162	215431	80.08	ng		96
53) 1-Chloronaphthalene	7.234	162	198532	83.73	ng		97
54) 2-Nitroaniline	7.356	65	77276	82.40	ng		92
55) 3-Nitroaniline	7.830	138	73849	85.05	ng		98
56) Pentachlorobenzene	8.037	250	80606	82.12	ng		96
57) 4-Nitroaniline	8.526	138	69559	81.61	ng		92
58) 2-Naphthylamine	8.165	143	226731	80.67	ng		100
59) 1-Naphthylamine	8.262	143	240380	82.12	ng		100
60) Dimethyl phthalate	7.612	163	238640	82.24	ng		100
61) Acenaphthylene	7.671	152	350455	82.62	ng		100
62) 2,6-Dinitrotoluene	7.652	165	54606	82.64	ng	#	79
63) Acenaphthene	7.876	154	207317	81.50	ng		99
64) 2,4-Dinitrophenol	7.949	184	32636	81.74	ng		93
65) Dibenzofuran	8.074	168	304341	81.88	ng	#	62
66) 4-Nitrophenol	8.080	109	40181	85.89	ng	#	1
67) 2,4-Dinitrotoluene	8.106	165	76483	84.04	ng		91
68) 2,3,4,6-Tetrachlorophenol	8.236	232	55540	85.69	ng		97
69) Diethyl phthalate	8.418	149	245675	82.52	ng		100
70) Fluorene	8.458	166	256470	82.97	ng		100
71) 4-Chlorophenyl phenyl ether	8.489	204	103626	80.30	ng		95
74) 4,6-Dinitro-2-methylphenol	8.560	198	45109	80.60	ng		88
75) Azobenzene	8.665	77	250825	80.46	ng		93
76) 1,2-Diphenylhydrazine	8.665	182	60802	81.81	ng		92
77) Diphenylamine	8.636	170	44333	81.93	ng		99
78) N-Nitrosodiphenylamine	8.636	168	219310	81.59	ng		99
79) 4-Bromophenyl phenyl ether	9.025	248	63035	81.41	ng		97
80) Phenacetin	9.028	108	137386	84.05	ng		99
81) Hexachlorobenzene	9.073	284	58972	80.24	ng		94
82) Atrazine	9.269	200	60680	81.88	ng	#	88
83) 4-Aminobiphenyl	9.323	169	273295	83.51	ng		99
84) Pentachlorophenol	9.312	266	46558	85.27	ng		97
85) Pentachloronitrobenzene	9.326	237	28825	86.24	ng		92
86) Pronamide	9.440	173	98733	83.62	ng		93
87) Phenanthrene	9.516	178	371422	81.09	ng		99
88) Anthracene	9.573	178	381616	82.75	ng		100
89) Carbazole	9.772	167	323944	83.29	ng		99
90) Di-n-butyl phthalate	10.237	149	447637	84.31	ng		99
91) Fluoranthene	10.827	202	397933	83.13	ng		99
93) Pyrene	11.066	202	405527	82.25	ng		100
95) Benzidine	11.012	184	183681	83.03	ng		99
96) p-Dimethylaminoazobenzene	11.458	225	72961	84.08	ng	#	87
97) Butyl benzyl phthalate	11.880	149	197883	83.46	ng		97
98) Benz(a)anthracene	12.400	228	353987	82.99	ng		100
99) 3,3'-Dichlorobenzidine	12.411	252	126067	84.38	ng		98
100) Chrysene	12.442	228	343740	81.59	ng		99
101) Bis(2-ethylhexyl)phthalate	12.553	149	267396	83.34	ng		95
102) Di-n-octyl phthalate	13.234	149	473423	86.24	ng		92
103) 3-Methylcholanthrene	14.148	268	106216	85.98	ng		96

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040215.D
Acq On : 2 Apr 2021 4:48 pm
Operator : yh
Sample : BNA80 973-73/
Misc : ICAL 8270C_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 07 09:20:22 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:18:57 2021
Response via : Initial Calibration

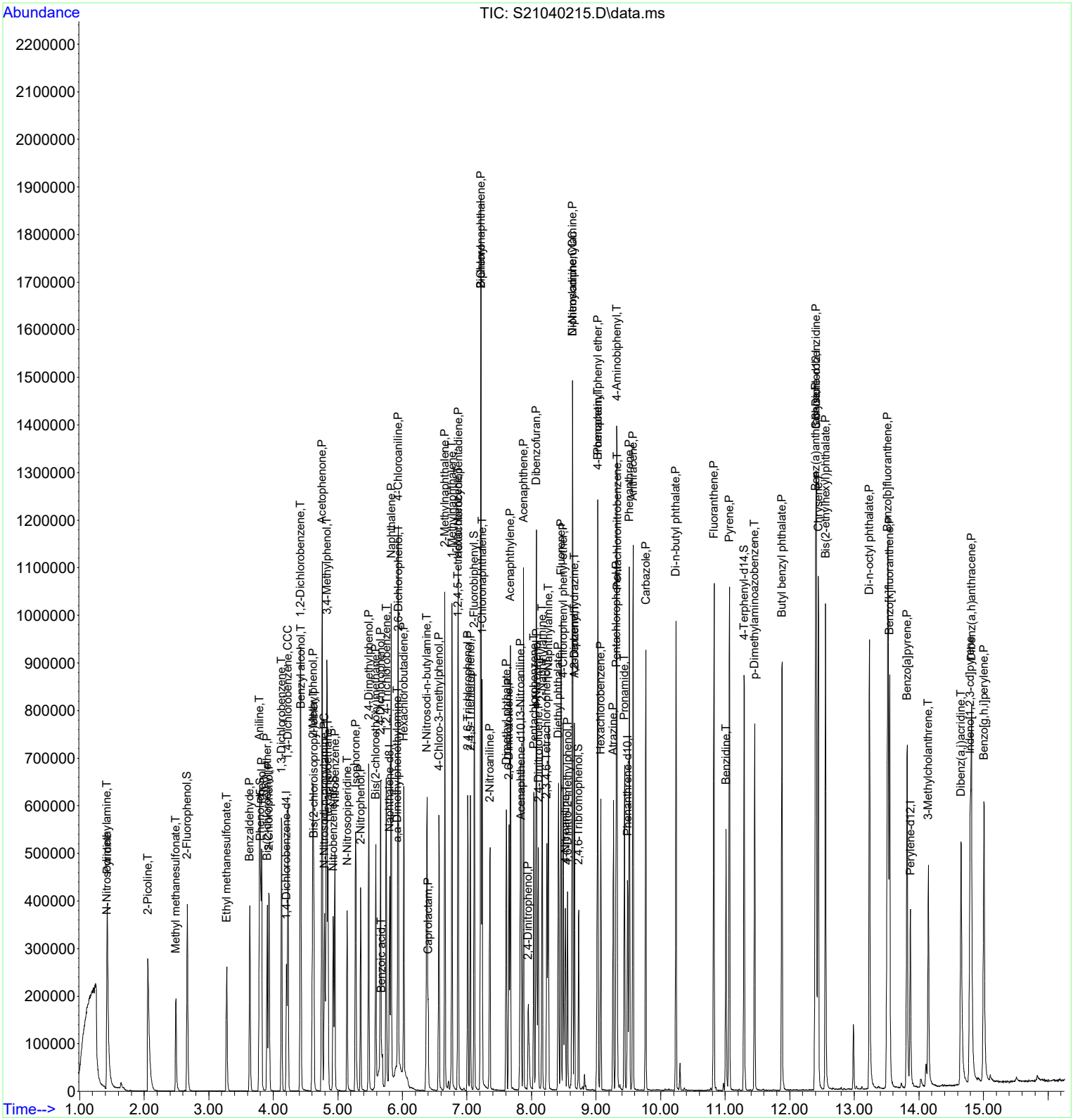
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene	13.518	252	337584	78.93	ng		95
106) Benzo[k]fluoranthene	13.549	252	303948	79.54	ng		96
107) Benzo[a]pyrene	13.819	252	287804	78.24	ng		97
108) Dibenz(a,j)acridine	14.653	279	252104	81.60	ng		99
109) Indeno[1,2,3-cd]pyrene	14.795	276	340217	77.90	ng	#	94
110) Dibenz(a,h)anthracene	14.815	278	285417	79.90	ng		96
111) Benzo[g,h,i]perylene	15.011	276	281483	78.00	ng		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040215.D
Acq On : 2 Apr 2021 4:48 pm
Operator : yh
Sample : BNA80 973-73/
Misc : ICAL 8270C_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 07 09:20:22 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:18:57 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040216.D
Acq On : 2 Apr 2021 5:13 pm
Operator : yh
Sample : BNA120 973-73/
Misc : ICAL 8270C_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 07 09:22:24 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:21:24 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.206	152	41434	40.00	ng		0.00
23) Naphthalene-d8	...	5.801	136	167935	40.00	ng		0.00
45) Acenaphthene-d10	...	7.839	164	88844	40.00	ng		0.00
73) Phenanthrene-d10	...	9.491	188	158395	40.00	ng		0.00
92) Chrysene-d12	...	12.414	240	126308	40.00	ng		0.00
104) Perylene-d12	...	13.870	264	111057	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.671	112	174327	122.57	ng		0.00
Spiked Amount 100.000	Range 21 - 119			Recovery = 122.57%#				
9) Phenol-d5	...	3.812	99	209572	120.48	ng		0.00
Spiked Amount 100.000	Range 10 - 121			Recovery = 120.48%				
24) Nitrobenzene-d5	...	4.935	82	187207	120.31	ng		0.00
Spiked Amount 50.000	Range 34 - 114			Recovery = 240.62%#				
50) 2-Fluorobiphenyl	...	7.118	172	356886	122.15	ng		0.00
Spiked Amount 50.000	Range 43 - 116			Recovery = 244.30%#				
72) 2,4,6-Tribromophenol	...	8.736	330	37411	119.03	ng		0.00
Spiked Amount 100.000	Range 10 - 123			Recovery = 119.03%				
94) 4-Terphenyl-d14	...	11.299	244	397959	123.74	ng		0.00
Spiked Amount 50.000	Range 33 - 141			Recovery = 247.48%#				
Target Compounds								Qvalue
2) Pyridine	...	1.430	79	208869	120.15	ng	#	88
3) 2-Picoline	...	2.055	93	212264	124.52	ng		99
4) Methyl methanesulfonate	...	2.495	80	105356	123.99	ng		98
6) Ethyl methanesulfonate	...	3.286	79	158712	123.65	ng		95
7) Benzaldehyde	...	3.638	105	114728	117.63	ng		99
8) Aniline	...	3.792	66	127185	120.82	ng	#	84
10) Phenol	...	3.829	94	258568	125.13	ng		92
11) Bis(2-chloroethyl)ether	...	3.911	93	177928	122.22	ng		88
12) 2-Chlorophenol	...	3.936	128	189677	122.80	ng		93
13) 1,3-Dichlorobenzene	...	4.132	146	209785	122.66	ng		97
14) 1,4-Dichlorobenzene	...	4.229	146	207953	120.97	ng		97
15) 1,2-Dichlorobenzene	...	4.422	146	199857	122.59	ng		97
16) Benzyl alcohol	...	4.433	108	127182	123.52	ng	#	71
17) Bis(2-chloroisopropyl)ether	...	4.629	45	325962	118.67	ng		85
18) 2-Methylphenol	...	4.623	107	153403	123.87	ng		96
19) 3,4-Methylphenol	...	4.839	107	383952	231.88	ng		98
20) N-Nitrosodi-n-propylamine	...	4.802	70	113247	109.46	ng		86
21) N-Nitrosodimethylamine	...	1.422	42	116311	121.39	ng	#	76
22) Hexachloroethane	...	4.847	117	78314	118.60	ng		98
25) Acetophenone	...	4.768	105	498050	227.36	ng		97
26) Nitrobenzene	...	4.961	123	93406	120.40	ng		90
27) N-Nitrosopiperidine	...	5.154	114	91371	116.58	ng	#	69
28) Isophorone	...	5.285	82	371799	120.75	ng		99
29) 2-Nitrophenol	...	5.358	139	100924	125.07	ng		94
30) 2,4-Dimethylphenol	...	5.486	122	165943	120.22	ng		99
31) Bis(2-chloroethoxy)methane	...	5.594	93	215582	119.69	ng		99
32) 2,4-Dichlorophenol	...	5.668	162	146590	119.69	ng		100
33) 1,2,4-Trichlorobenzene	...	5.753	180	163489	120.41	ng		100
34) Naphthalene	...	5.829	128	557890	119.00	ng		99
35) Benzoic acid	...	5.710	105	118798	118.19	ng		99
36) 2,6-Dichlorophenol	...	5.940	162	145695	122.04	ng		100
37) 4-Chloroaniline	...	5.937	127	232117	121.51	ng		97
38) Hexachlorobutadiene	...	6.025	225	81435	123.08	ng		98
39) a,a-Dimethylphenethylamine	...	6.088	58	618618	123.03	ng		85
40) Caprolactam	...	6.431	113	58030	119.85	ng	#	64

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040216.D
Acq On : 2 Apr 2021 5:13 pm
Operator : yh
Sample : BNA120 973-73/
Misc : ICAL 8270C_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 07 09:22:24 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:21:24 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.576	107	157820	122.78	ng		96
42) N-Nitrosodi-n-butylamine	6.389	84	133573	113.97	ng		83
43) 2-Methylnaphthalene	6.661	141	325113	121.45	ng		99
44) 1-Methylnaphthalene	6.772	141	311497	120.34	ng		99
46) 1,2,4,5-Tetrachlorobenzene	6.865	216	144185	121.44	ng		99
47) Hexachlorocyclopentadiene	6.868	237	92619	128.06	ng		96
48) 2,4,6-Trichlorophenol	7.019	196	104433	125.05	ng		98
49) 2,4,5-Trichlorophenol	7.061	196	107943	123.43	ng		97
51) Biphenyl	7.220	154	428075	122.57	ng		98
52) 2-Chloronaphthalene	7.217	162	339933	126.03	ng		97
53) 1-Chloronaphthalene	7.240	162	270132	113.63	ng		98
54) 2-Nitroaniline	7.362	65	116317	123.72	ng		94
55) 3-Nitroaniline	7.839	138	108392	124.51	ng	#	99
56) Pentachlorobenzene	8.040	250	119134	121.06	ng		96
57) 4-Nitroaniline	8.537	138	104348	122.11	ng		93
58) 2-Naphthylamine	8.171	143	336809	119.53	ng		100
59) 1-Naphthylamine	8.268	143	352111	119.99	ng		99
60) Dimethyl phthalate	7.618	163	356740	122.63	ng		100
61) Acenaphthylene	7.677	152	516752	121.51	ng		100
62) 2,6-Dinitrotoluene	7.660	165	83037	125.35	ng		85
63) Acenaphthene	7.882	154	307247	120.48	ng		99
64) 2,4-Dinitrophenol	7.961	184	51124	120.63	ng		92
65) Dibenzofuran	8.080	168	452499	121.42	ng	#	63
66) 4-Nitrophenol	8.094	109	60838	129.71	ng	#	1
67) 2,4-Dinitrotoluene	8.117	165	112739	123.56	ng		87
68) 2,3,4,6-Tetrachlorophenol	8.242	232	82519	126.99	ng		97
69) Diethyl phthalate	8.424	149	369886	123.93	ng		99
70) Fluorene	8.461	166	381896	123.24	ng		100
71) 4-Chlorophenyl phenyl ether	8.492	204	153277	118.47	ng		94
74) 4,6-Dinitro-2-methylphenol	8.568	198	69527	117.32	ng		88
75) Azobenzene	8.668	77	369170	116.07	ng		94
76) 1,2-Diphenylhydrazine	8.671	182	88842	117.16	ng	#	91
77) Diphenylamine	8.642	170	65904	119.37	ng		98
78) N-Nitrosodiphenylamine	8.642	168	325402	118.66	ng		100
79) 4-Bromophenyl phenyl ether	9.031	248	93181	117.96	ng		98
80) Phenacetin	9.042	108	204734	122.76	ng		99
81) Hexachlorobenzene	9.079	284	87070	116.12	ng		95
82) Atrazine	9.278	200	89506	118.38	ng	#	90
83) 4-Aminobiphenyl	9.329	169	410139	122.84	ng		99
84) Pentachlorophenol	9.318	266	71429	128.22	ng		99
85) Pentachloronitrobenzene	9.332	237	41193	120.79	ng		94
86) Pronamide	9.448	173	147920	122.79	ng		95
87) Phenanthrene	9.522	178	553929	118.53	ng		99
88) Anthracene	9.579	178	559638	118.94	ng		99
89) Carbazole	9.777	167	483144	121.76	ng		99
90) Di-n-butyl phthalate	10.240	149	664614	122.69	ng		99
91) Fluoranthene	10.830	202	591037	121.02	ng		99
93) Pyrene	11.072	202	594385	121.23	ng		99
95) Benzidine	11.018	184	275335	125.16	ng		100
96) p-Dimethylaminoazobenzene	11.461	225	107457	124.53	ng	#	85
97) Butyl benzyl phthalate	11.881	149	294628	124.96	ng		97
98) Benz(a)anthracene	12.403	228	520594	122.74	ng		99
99) 3,3'-Dichlorobenzidine	12.417	252	184217	124.00	ng		99
100) Chrysene	12.448	228	495745	118.33	ng		99
101) Bis(2-ethylhexyl)phthalate	12.556	149	398596	124.93	ng		93
102) Di-n-octyl phthalate	13.240	149	701000	128.41	ng		93
103) 3-Methylcholanthrene	14.154	268	151566	123.38	ng		97

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040216.D
Acq On : 2 Apr 2021 5:13 pm
Operator : yh
Sample : BNA120 973-73/
Misc : ICAL 8270C_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 07 09:22:24 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:21:24 2021
Response via : Initial Calibration

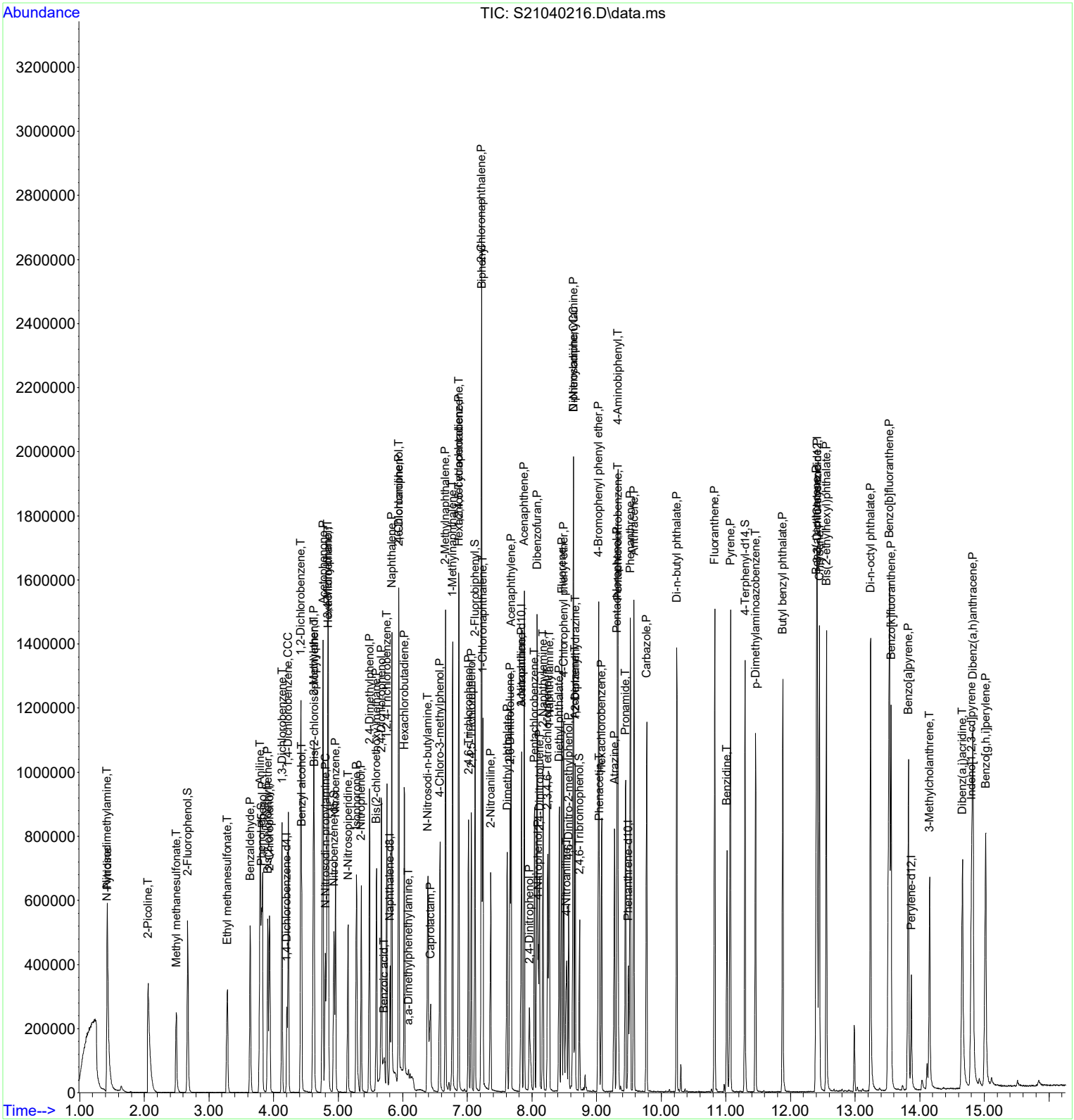
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene	13.532	252	513046	127.29	ng		94
106) Benzo[k]fluoranthene	13.558	252	391839	108.81	ng		97
107) Benzo[a]pyrene	13.825	252	429833	123.99	ng		97
108) Dibenz(a,j)acridine	14.662	279	371324	127.53	ng		98
109) Indeno[1,2,3-cd]pyrene	14.804	276	516815	125.58	ng	#	89
110) Dibenz(a,h)anthracene	14.824	278	426621	126.74	ng		97
111) Benzo[g,h,i]perylene	15.023	276	417121	122.66	ng		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040216.D
Acq On : 2 Apr 2021 5:13 pm
Operator : yh
Sample : BNA120 973-73/
Misc : ICAL 8270C_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 07 09:22:24 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:21:24 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040217.D
Acq On : 2 Apr 2021 5:40 pm
Operator : yh
Sample : BNA160 973-73/
Misc : ICAL 8270C_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 07 09:25:36 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:23:47 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.209	152	39276	40.00	ng		0.00
23) Naphthalene-d8	...	5.804	136	158782	40.00	ng		0.00
45) Acenaphthene-d10	...	7.842	164	85892	40.00	ng		0.00
73) Phenanthrene-d10	...	9.494	188	151096	40.00	ng		0.00
92) Chrysene-d12	...	12.420	240	123318	40.00	ng		0.00
104) Perylene-d12	...	13.873	264	106727	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.676	112	219349	162.70	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 162.70%#					
9) Phenol-d5	...	3.820	99	263271	159.66	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 159.66%#					
24) Nitrobenzene-d5	...	4.941	82	239929	163.08	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 326.16%#					
50) 2-Fluorobiphenyl	...	7.121	172	448992	158.95	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 317.90%#					
72) 2,4,6-Tribromophenol	...	8.739	330	49534	161.40	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 161.40%#					
94) 4-Terphenyl-d14	...	11.302	244	511829	163.01	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 326.02%#					
Target Compounds								Qvalue
2) Pyridine	...	1.430	79	265388	161.05	ng		89
3) 2-Picoline	...	2.055	93	264053	163.41	ng		98
4) Methyl methanesulfonate	...	2.500	80	131803	163.63	ng		98
6) Ethyl methanesulfonate	...	3.292	79	196233	161.28	ng		96
7) Benzaldehyde	...	3.641	105	139972	151.40	ng		98
8) Aniline	...	3.797	66	164526	164.88	ng	#	81
10) Phenol	...	3.837	94	319102	162.91	ng		92
11) Bis(2-chloroethyl)ether	...	3.917	93	220888	160.06	ng		89
12) 2-Chlorophenol	...	3.942	128	236604	161.60	ng		94
13) 1,3-Dichlorobenzene	...	4.132	146	262880	162.15	ng		97
14) 1,4-Dichlorobenzene	...	4.232	146	257855	158.24	ng		97
15) 1,2-Dichlorobenzene	...	4.425	146	251803	162.93	ng		98
16) Benzyl alcohol	...	4.442	108	161207	165.17	ng	#	71
17) Bis(2-chloroisopropyl)ether	...	4.632	45	405956	155.91	ng		85
18) 2-Methylphenol	...	4.626	107	189387	161.34	ng		95
19) 3,4-Methylphenol	...	4.845	107	490819	312.71	ng		97
20) N-Nitrosodi-n-propylamine	...	4.811	70	170961	174.32	ng		95
21) N-Nitrosodimethylamine	...	1.425	42	147119	161.99	ng	#	75
22) Hexachloroethane	...	4.850	117	99394	158.80	ng		97
25) Acetophenone	...	4.771	105	634169	306.19	ng		97
26) Nitrobenzene	...	4.967	123	116688	159.08	ng		88
27) N-Nitrosopiperidine	...	5.160	114	118412	159.79	ng	#	71
28) Isophorone	...	5.290	82	472311	162.23	ng		99
29) 2-Nitrophenol	...	5.364	139	129840	170.18	ng		95
30) 2,4-Dimethylphenol	...	5.492	122	210236	161.09	ng		99
31) Bis(2-chloroethoxy)methane	...	5.597	93	269293	158.13	ng		99
32) 2,4-Dichlorophenol	...	5.676	162	188970	163.19	ng		99
33) 1,2,4-Trichlorobenzene	...	5.756	180	203686	158.66	ng		99
34) Naphthalene	...	5.832	128	717086	161.77	ng		100
35) Benzoic acid	...	5.724	105	160070	163.33	ng		98
36) 2,6-Dichlorophenol	...	5.940	162	182332	161.53	ng		98
37) 4-Chloroaniline	...	5.943	127	294251	162.92	ng		96
38) Hexachlorobutadiene	...	6.025	225	103186	164.95	ng		97
39) a,a-Dimethylphenethylamine	...	6.079	58	790431	166.23	ng		90
40) Caprolactam	...	6.457	113	75089	164.02	ng	#	58

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040217.D
Acq On : 2 Apr 2021 5:40 pm
Operator : yh
Sample : BNA160 973-73/
Misc : ICAL 8270C_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 07 09:25:36 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:23:47 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.584	107	201362	165.69	ng		98
42) N-Nitrosodi-n-butylamine	6.394	84	158955	143.45	ng		80
43) 2-Methylnaphthalene	6.664	141	412044	162.80	ng		99
44) 1-Methylnaphthalene	6.775	141	395722	161.69	ng		100
46) 1,2,4,5-Tetrachlorobenzene	6.868	216	183292	159.68	ng		98
47) Hexachlorocyclopentadiene	6.871	237	120897	172.90	ng		95
48) 2,4,6-Trichlorophenol	7.022	196	133191	165.80	ng		98
49) 2,4,5-Trichlorophenol	7.067	196	139429	164.92	ng		98
51) Biphenyl	7.226	154	537710	159.25	ng		99
52) 2-Chloronaphthalene	7.223	162	431259	165.38	ng		98
53) 1-Chloronaphthalene	7.243	162	323003	140.54	ng		99
54) 2-Nitroaniline	7.368	65	151047	166.18	ng		93
55) 3-Nitroaniline	7.845	138	139971	166.31	ng	#	98
56) Pentachlorobenzene	8.043	250	158439	166.53	ng		97
57) 4-Nitroaniline	8.551	138	136139	164.79	ng	#	83
58) 2-Naphthylamine	8.177	143	429230	157.57	ng		99
59) 1-Naphthylamine	8.276	143	452583	159.53	ng		100
60) Dimethyl phthalate	7.620	163	462428	164.43	ng		99
61) Acenaphthylene	7.680	152	659363	160.38	ng		99
62) 2,6-Dinitrotoluene	7.666	165	108095	168.78	ng	#	84
63) Acenaphthene	7.884	154	396646	160.88	ng		99
64) 2,4-Dinitrophenol	7.970	184	67358	159.82	ng		94
65) Dibenzofuran	8.083	168	580198	161.04	ng		83
66) 4-Nitrophenol	8.106	109	79394	175.09	ng	#	73
67) 2,4-Dinitrotoluene	8.126	165	146708	166.32	ng		93
68) 2,3,4,6-Tetrachlorophenol	8.248	232	106664	169.79	ng		97
69) Diethyl phthalate	8.429	149	481774	166.96	ng		100
70) Fluorene	8.466	166	481069	160.58	ng		97
71) 4-Chlorophenyl phenyl ether	8.495	204	201406	161.03	ng		97
74) 4,6-Dinitro-2-methylphenol	8.577	198	93500	161.83	ng	#	80
75) Azobenzene	8.673	77	463072	152.62	ng		93
76) 1,2-Diphenylhydrazine	8.673	182	113171	156.45	ng		94
77) Diphenylamine	8.648	170	86020	163.34	ng		98
78) N-Nitrosodiphenylamine	8.648	168	416457	159.20	ng		99
79) 4-Bromophenyl phenyl ether	9.034	248	123962	164.51	ng		97
80) Phenacetin	9.054	108	264547	166.29	ng		99
81) Hexachlorobenzene	9.082	284	116334	162.64	ng		98
82) Atrazine	9.286	200	111280	154.29	ng	#	90
83) 4-Aminobiphenyl	9.335	169	513901	161.35	ng		99
84) Pentachlorophenol	9.323	266	91912	172.96	ng		100
85) Pentachloronitrobenzene	9.329	237	55390	170.27	ng		95
86) Pronamide	9.454	173	191159	166.35	ng		94
87) Phenanthrene	9.528	178	715926	160.60	ng		100
88) Anthracene	9.584	178	719036	160.20	ng		99
89) Carbazole	9.780	167	628397	166.01	ng		98
90) Di-n-butyl phthalate	10.243	149	867299	167.85	ng		99
91) Fluoranthene	10.833	202	764953	164.20	ng		99
93) Pyrene	11.077	202	762089	159.21	ng		100
95) Benzidine	11.023	184	346578	161.36	ng		100
96) p-Dimethylaminoazobenzene	11.466	225	138181	164.02	ng	#	85
97) Butyl benzyl phthalate	11.886	149	381495	165.73	ng		97
98) Benz(a)anthracene	12.409	228	685762	165.61	ng		99
99) 3,3'-Dichlorobenzidine	12.423	252	240523	165.82	ng		99
100) Chrysene	12.454	228	648979	158.67	ng		100
101) Bis(2-ethylhexyl)phthalate	12.559	149	518944	166.59	ng		94
102) Di-n-octyl phthalate	13.246	149	923354	173.25	ng		94
103) 3-Methylcholanthrene	14.160	268	200145	166.87	ng		97

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Quant Time: Apr 07 09:25:36 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:23:47 2021
Response via : Initial Calibration

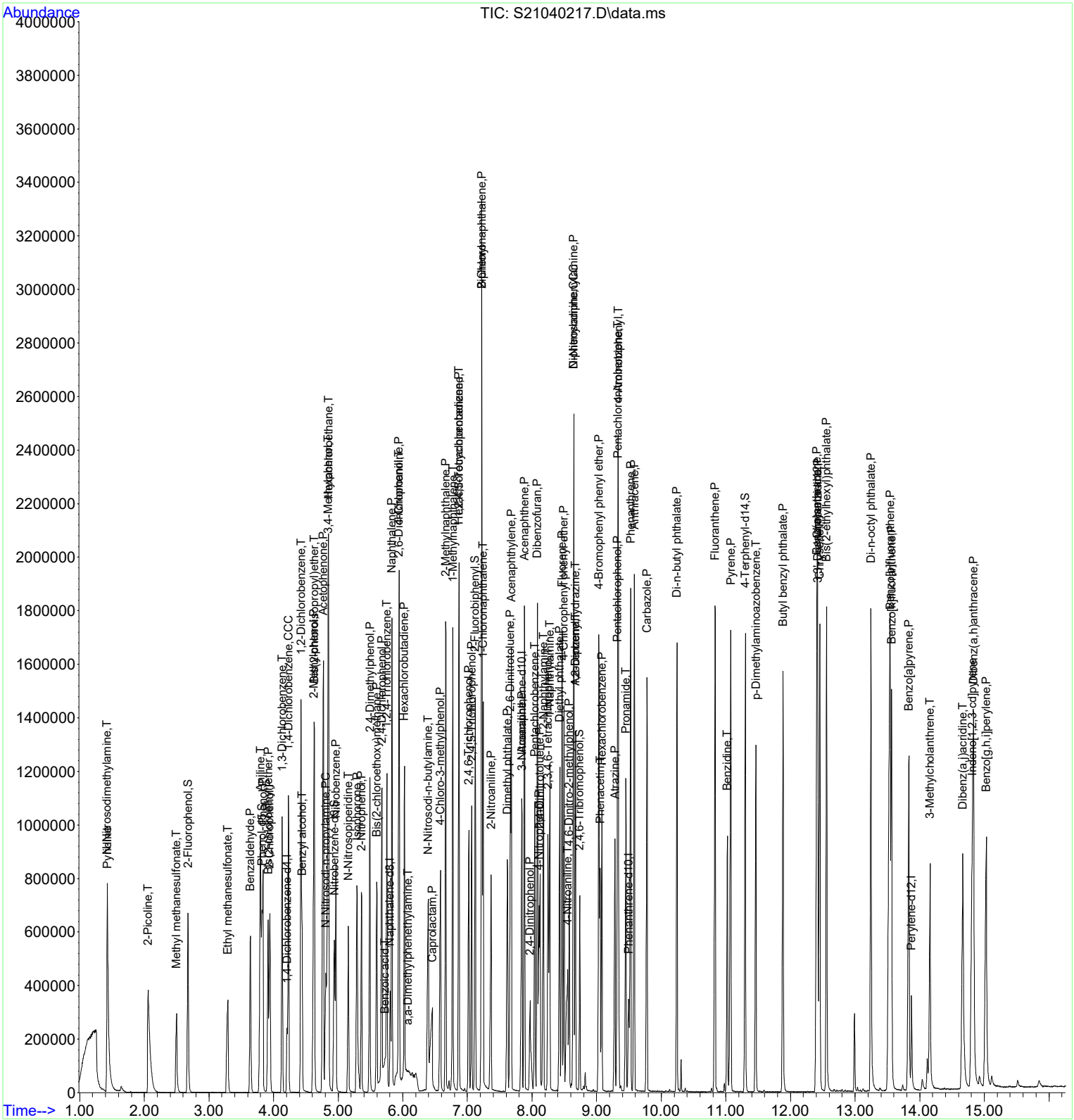
Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene	...	13.544	252	738681	190.70	ng		96
106) Benzo[k]fluoranthene	...	13.567	252	490718	141.80	ng		98
107) Benzo[a]pyrene	...	13.833	252	565513	169.74	ng		97
108) Dibenz(a,j)acridine	...	14.671	279	501905	179.37	ng		100
109) Indeno[1,2,3-cd]pyrene	...	14.815	276	672532	170.04	ng	#	84
110) Dibenz(a,h)anthracene	...	14.835	278	557423	172.31	ng		97
111) Benzo[g,h,i]perylene	...	15.031	276	543331	166.25	ng		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040217.D
Acq On : 2 Apr 2021 5:40 pm
Operator : yh
Sample : BNA160 973-73/
Misc : ICAL 8270C_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 07 09:25:36 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:23:47 2021
Response via : Initial Calibration



Response Factor Report MS-9

Method Path : C:\MS-9\New\Calculation Methods\
Method File : B040221.M
Title : MS-9 BNA CURVE 8270E/625
Last Update : Wed Apr 07 09:38:04 2021
Response Via : Initial Calibration

Calibration Files
160 =S21040217.D 60 =S21040214.D 40 =S21040213.D 120 =S21040216.D 80 =S21040215.D 10 =S21040211.D 20 =S21040212.D
5 =S21040218.D

		Compound	160	60	40	120	80	10	20	5	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		Pyridine	1.689	1.673	1.709	1.680	1.639	1.667	1.690		1.678	1.30
3)	T	2-Picoline	1.681	1.682	1.670	1.708	1.619	1.600	1.561		1.646	3.24
4)	T	Methyl methane...	0.839	0.815	0.824	0.848	0.824	0.784	0.810		0.820	2.54
5)	S	2-Fluorophenol	1.396	1.397	1.416	1.402	1.383	1.266	1.350		1.373	3.75
6)	T	Ethyl methanes...	1.249	1.259	1.263	1.277	1.236	1.203	1.187		1.239	2.65
7)	P	Benzaldehyde	0.891	0.973	0.983	0.923	0.925	0.930	0.966		0.942	3.52
8)	T	Aniline	1.047	1.033	1.044	1.023	1.001	0.959	1.006		1.016	3.03
9)	S	Phenol-d5	1.676	1.679	1.728	1.686	1.631	1.694	1.661		1.679	1.78
10)	P	Phenol	2.031	1.866	2.095	2.080	1.805	2.034	2.052		1.995	5.64
11)	P	Bis(2-chloroet...	1.406	1.379	1.475	1.431	1.336	1.421	1.390		1.405	3.12
12)	P	2-Chlorophenol	1.506	1.500	1.520	1.526	1.475	1.456	1.455		1.491	1.95
13)	T	1,3-Dichlorobe...	1.673	1.669	1.696	1.688	1.599	1.610	1.623		1.651	2.39
14)	CCC	1,4-Dichlorobe...	1.641	1.660	1.713	1.673	1.627	1.688	1.615		1.660	2.09
15)	T	1,2-Dichlorobe...	1.603	1.578	1.596	1.608	1.540	1.527	1.565		1.574	1.99
16)	T	Benzyl alcohol	1.026	0.989	1.005	1.023	0.979	0.958	0.977		0.994	2.53
17)	T	Bis(2-chlorois...	2.584	2.646	2.750	2.622	2.552	2.717	2.691		2.652	2.71
18)	P	2-Methylphenol	1.205	1.206	1.225	1.234	1.169	1.137	1.191		1.196	2.80
19)	T	3,4-Methylphenol	1.562	1.569	1.563	1.544	1.511	1.507	1.503	1.548	1.538	1.78
20)	PC	N-Nitrosodi-n-...	1.088	1.054	1.074	0.911	0.968	1.102	1.051		1.035	6.75
21)	T	N-Nitrosodimet...	0.936	0.940	0.956	0.936	0.920	0.903	0.884		0.925	2.67
22)	T	Hexachloroethane	0.633	0.634	0.653	0.630	0.619	0.641	0.652		0.637	1.91
23)	I	Naphthalene-d8	----------ISTD----------									
24)	S	Nitrobenzene-d5	0.378	0.371	0.373	0.372	0.380	0.368	0.354		0.371	2.25
25)	P	Acetophenone	0.499	0.502	0.514	0.494	0.508	0.516	0.488	0.500	0.503	1.90
26)	P	Nitrobenzene	0.184	0.185	0.190	0.185	0.186	0.187	0.176		0.185	2.32
27)	T	N-Nitrosopiper...	0.186	0.185	0.193	0.181	0.187	0.193	0.182		0.187	2.50
28)	P	Isophorone	0.744	0.736	0.744	0.738	0.746	0.729	0.699		0.733	2.24
29)	P	2-Nitrophenol	0.204	0.198	0.198	0.200	0.201	0.174	0.170		0.192	7.32
30)	P	2,4-Dimethylph...	0.331	0.328	0.334	0.329	0.335	0.323	0.320		0.329	1.73
31)	P	Bis(2-chloroet...	0.424	0.433	0.442	0.428	0.432	0.428	0.415		0.429	1.94
32)	P	2,4-Dichloroph...	0.298	0.292	0.299	0.291	0.297	0.291	0.274		0.292	2.85
33)	T	1,2,4-Trichlor...	0.321	0.316	0.335	0.325	0.329	0.328	0.311		0.323	2.48
34)	P	Naphthalene	1.129	1.101	1.145	1.107	1.146	1.115	1.073		1.117	2.33
35)	T	Benzoic acid	0.252	0.200	0.182	0.236	0.223		0.166		0.210	15.76
36)	T	2,6-Dichloroph...	0.287	0.286	0.288	0.289	0.293	0.281	0.265		0.284	3.26
37)	P	4-Chloroaniline	0.463	0.462	0.467	0.461	0.465	0.430	0.437		0.455	3.30
38)	P	Hexachlorobuta...	0.162	0.155	0.156	0.162	0.164	0.154	0.149		0.158	3.35
39)	T	a,a-Dimethylph...	1.245	1.189	1.214	1.228	1.239	1.144	1.127		1.198	3.89
40)	P	Caprolactam	0.118	0.120	0.118	0.115	0.123	0.105	0.108		0.115	5.50
41)	P	4-Chloro-3-met...	0.317	0.312	0.308	0.313	0.317	0.285	0.290		0.306	4.31

Method Path : C:\MS-9\New\Calculation Methods\
Method File : B040221.M
Title : MS-9 BNA CURVE 8270E/625

42)	T	N-Nitrosodi-n-...	0.250	0.313	0.324	0.265	0.328	0.243	0.230	0.279	14.79
43)	P	2-Methylnaphth...	0.649	0.636	0.639	0.645	0.654	0.637	0.603	0.638	2.63
44)	T	1-Methylnaphth...	0.623	0.623	0.633	0.618	0.628	0.597	0.593	0.617	2.45
45)	I	Acenaphthene-d10	----------ISTD----------								
46)	T	1,2,4,5-Tetrac...	0.533	0.526	0.529	0.541	0.539	0.554	0.520	0.535	2.13
47)	P	Hexachlorocycl...	0.352	0.327	0.324	0.347	0.337	0.295	0.297	0.326	6.89
48)	P	2,4,6-Trichlor...	0.388	0.377	0.373	0.392	0.382	0.337	0.352	0.372	5.41
49)	P	2,4,5-Trichlor...	0.406	0.400	0.393	0.405	0.409	0.363	0.380	0.394	4.20
50)	S	2-Fluorobiphenyl	1.307	1.345	1.321	1.339	1.321	1.289	1.287	1.315	1.71
51)		Biphenyl	1.565	1.580	1.557	1.606	1.622	1.553	1.524	1.572	2.13
52)	P	2-Chloronaphth...	1.255	1.195	1.207	1.275	1.216	1.170	1.182	1.214	3.15
53)	T	1-Chloronaphth...	0.940	1.114	1.088	1.014	1.120	1.140	1.077	1.070	6.57
54)	P	2-Nitroaniline	0.440	0.429	0.418	0.436	0.436	0.392	0.412	0.423	4.06
55)	P	3-Nitroaniline	0.407	0.403	0.388	0.407	0.417	0.355	0.367	0.392	5.88
56)	T	Pentachloroben...	0.461	0.448	0.439	0.447	0.455	0.420	0.433	0.443	3.17
57)	T	4-Nitroaniline	0.396	0.390	0.379	0.392	0.392	0.369	0.375	0.385	2.71
58)	T	2-Naphthylamine	1.249	1.272	1.257	1.264	1.279	1.279	1.281	1.269	0.97
59)	T	1-Naphthylamine	1.317	1.328	1.310	1.321	1.356	1.313	1.302	1.321	1.33
60)	P	Dimethyl phtha...	1.346	1.330	1.281	1.338	1.346	1.281	1.245	1.310	3.08
61)	P	Acenaphthylene	1.919	1.943	1.915	1.939	1.977	1.843	1.867	1.915	2.42
62)	P	2,6-Dinitrotol...	0.315	0.311	0.301	0.312	0.308	0.269	0.273	0.298	6.49
63)	P	Acenaphthene	1.154	1.152	1.154	1.153	1.170	1.127	1.127	1.148	1.37
64)	P	2,4-Dinitrophenol	0.196	0.157	0.141	0.192	0.184		0.098	0.161	23.34
65)	P	Dibenzofuran	1.689	1.674	1.679	1.698	1.717	1.679	1.609	1.678	2.00
66)	P	4-Nitrophenol	0.231	0.226	0.219	0.228	0.227	0.150	0.198	0.211	13.88
67)	P	2,4-Dinitrotol...	0.427	0.425	0.409	0.423	0.432	0.382	0.379	0.411	5.37
68)	T	2,3,4,6-Tetrac...	0.310	0.309	0.285	0.310	0.313	0.259	0.262	0.293	8.18
69)	P	Diethyl phthalate	1.402	1.377	1.340	1.388	1.386	1.247	1.266	1.344	4.67
70)	P	Fluorene	1.400	1.401	1.394	1.433	1.447	1.313	1.379	1.395	3.11
71)	P	4-Chlorophenyl...	0.586	0.594	0.581	0.575	0.585	0.584	0.573	0.582	1.23
72)	S	2,4,6-Tribromo...	0.144	0.136	0.125	0.140	0.137	0.113	0.113	0.130	9.94
73)	I	Phenanthrene-d10	----------ISTD----------								
74)	P	4,6-Dinitro-2-...	0.155	0.138	0.122	0.146	0.145		0.103	0.135	14.23
75)	T	Azobenzene	0.766	0.816	0.808	0.777	0.808	0.837	0.811	0.803	2.99
76)	T	1,2-Diphenylhy...	0.187	0.195	0.197	0.187	0.196	0.194	0.185	0.191	2.63
77)	CCC	Diphenylamine	0.142	0.143	0.135	0.139	0.143	0.135	0.138	0.139	2.48
78)	P	N-Nitrosodiphe...	0.689	0.711	0.690	0.685	0.706	0.670	0.697	0.693	2.00
79)	P	4-Bromophenyl ...	0.205	0.201	0.198	0.196	0.203	0.201	0.191	0.199	2.36
80)	T	Phenacetin	0.438	0.436	0.429	0.431	0.442	0.368	0.404	0.421	6.31
81)	P	Hexachlorobenzene	0.192	0.192	0.194	0.183	0.190	0.194	0.180	0.189	2.88
82)	P	Atrazine	0.184	0.199	0.196	0.188	0.195	0.181	0.194	0.191	3.46
83)	T	4-Aminobiphenyl	0.850	0.862	0.840	0.863	0.880	0.802	0.805	0.843	3.54
84)	P	Pentachlorophenol	0.152	0.144	0.139	0.150	0.150	0.123	0.127	0.141	8.46
85)	T	Pentachloronit...	0.092	0.088	0.088	0.087	0.093	0.074	0.081	0.086	7.41
86)	T	Pronamide	0.316	0.313	0.295	0.311	0.318	0.285	0.290	0.304	4.44
87)	P	Phenanthrene	1.185	1.206	1.174	1.166	1.196	1.173	1.162	1.180	1.38
88)	P	Anthracene	1.190	1.210	1.184	1.178	1.229	1.163	1.164	1.188	2.02
89)	P	Carbazole	1.040	1.034	0.990	1.017	1.043	0.940	0.951	1.002	4.29
90)	P	Di-n-butyl pht...	1.435	1.413	1.362	1.399	1.442	1.228	1.297	1.368	5.78
91)	P	Fluoranthene	1.266	1.269	1.245	1.244	1.282	1.147	1.181	1.233	4.05

Method Path : C:\MS-9\New\Calculation Methods\
Method File : B040221.M
Title : MS-9 BNA CURVE 8270E/625

92)	I	Chrysene-d12	----------ISTD----------								
93)	P	Pyrene	1.545	1.573	1.597	1.569	1.596	1.505	1.484	1.553	2.83
94)	S	4-Terphenyl-d14	1.038	1.023	1.008	1.050	1.038	0.998	0.974	1.018	2.61
95)	T	Benzidine	0.703	0.717	0.695	0.727	0.723	0.668	0.645	0.697	4.35
96)	T	p-Dimethylamin...	0.280	0.285	0.274	0.284	0.287	0.253	0.250	0.273	5.71
97)	P	Butyl benzyl p...	0.773	0.768	0.742	0.778	0.779	0.685	0.702	0.747	5.21
98)	P	Benz(a)anthracene	1.390	1.358	1.355	1.374	1.393	1.280	1.252	1.343	4.12
99)	P	3,3'-Dichlorob...	0.488	0.481	0.488	0.486	0.496	0.423	0.432	0.470	6.38
100)	P	Chrysene	1.316	1.328	1.342	1.308	1.353	1.379	1.261	1.327	2.83
101)	P	Bis(2-ethylhex...	1.052	1.035	1.029	1.052	1.053	0.940	0.930	0.860	0.994	7.44
102)	P	Di-n-octyl pht...	1.872	1.779	1.733	1.850	1.864	1.490	1.514	1.729	9.43
103)	T	3-Methylcholan...	0.406	0.412	0.400	0.400	0.418	0.340	0.346	0.389	8.22
104)	I	Perylene-d12	----------ISTD----------								
105)	P	Benzo[b]fluora...	1.730	1.482	1.394	1.540	1.432	1.282	1.302	1.452	10.58
106)	P	Benzo[k]fluora...	1.149	1.312	1.402	1.176	1.290	1.395	1.355	1.297	7.75
107)	P	Benzo[a]pyrene	1.325	1.289	1.262	1.290	1.221	1.177	1.177	1.249	4.65
108)	T	Dibenz(a,j)acr...	1.176	1.103	1.072	1.115	1.070	0.848	0.958	1.049	10.52
109)		Indeno[1,2,3-c...	1.575	1.549	1.518	1.551	1.443	1.362	1.378	1.482	5.91
110)	P	Dibenz(a,h)ant...	1.306	1.283	1.250	1.280	1.211	1.046	1.111	1.212	8.10
111)	P	Benzo[g,h,i]pe...	1.273	1.251	1.263	1.252	1.194	1.158	1.182	1.225	3.70

(#) = Out of Range

Injection Log

Directory: C:\MS-9\New\Raw Data\S210406

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1		S21040511.D	1.			
2	1	S21040601.D	1.	DFTPP	TUNE DFTPP_4	6 Apr 2021 10:41
3	2	S21040612.D	1.	bna 80 973-90/	ICv 8270C_W	6 Apr 2021 11:16
4	12	S21040613.D	1.	sim0.05	ICAL 8270C_W	6 Apr 2021 11:53
5	3	S21040614.D	1.	bna40 973-90/	ICv 8270C_W	6 Apr 2021 12:19
6	13	S21040616.D	1.	sim10	ICAL 8270_SIM_PAH_W	6 Apr 2021 12:44
7	14	S21040617.D	1.	sim7.5	ICAL 8270_SIM_PAH_W	6 Apr 2021 13:12
8	15	S21040618.D	1.	sim5	ICAL 8270_SIM_PAH_W	6 Apr 2021 13:51
9	16	S21040619.D	1.	sim3.5	ICAL 8270_SIM_PAH_W	6 Apr 2021 14:16
10	17	S21040620.D	1.	sim2	ICAL 8270_SIM_PAH_W	6 Apr 2021 14:42
11	18	S21040621.D	1.	sim1	ICAL 8270_SIM_PAH_W	6 Apr 2021 15:08
12	19	S21040622.D	1.	sim0.05	ICAL 8270_SIM_PAH_W	6 Apr 2021 15:33
13	19	S21040623.D	1.	sim0.05	ICAL 8270_SIM_PAH_W	6 Apr 2021 16:10
14	20	S21040625.D	1.	ICVSIM	ICV 8270_SIM_PAH_W	6 Apr 2021 16:54
15	3	S21040628.D	1.	bna40 973-90/	ICv 8270C_W	6 Apr 2021 17:31
16	2	S21040629.D	1.	bna80 973-90/	ICv 8270C_W	6 Apr 2021 17:57

Area Percent Report

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040601.D
Acq On : 6 Apr 2021 10:41 am
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 30000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MS-9\New\Calculation Methods\DFTPP.M
Title :

Signal : TIC: S21040601.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.126	4	50	53	rBV4	141848	741414	23.62%	7.034%
2	1.626	217	226	236	rBV2	38703	49983	1.59%	0.474%
3	3.877	1009	1019	1029	rBV	55211	52893	1.69%	0.502%
4	5.384	1541	1550	1559	rBV2	42797	36723	1.17%	0.348%
5	6.650	1988	1996	2003	rVB2	38369	31507	1.00%	0.299%
6	9.303	2918	2931	2949	rBV	1907265	1943230	61.91%	18.436%
7	9.933	3136	3153	3165	rBV	1949974	1697210	54.08%	16.102%
8	10.825	3458	3467	3477	rVB4	52270	43289	1.38%	0.411%
9	11.029	3519	3539	3567	rBV	2027824	3138593	100.00%	29.777%
10	11.949	3848	3863	3876	rBV	2625657	2805538	89.39%	26.617%

Sum of corrected areas: 10540380

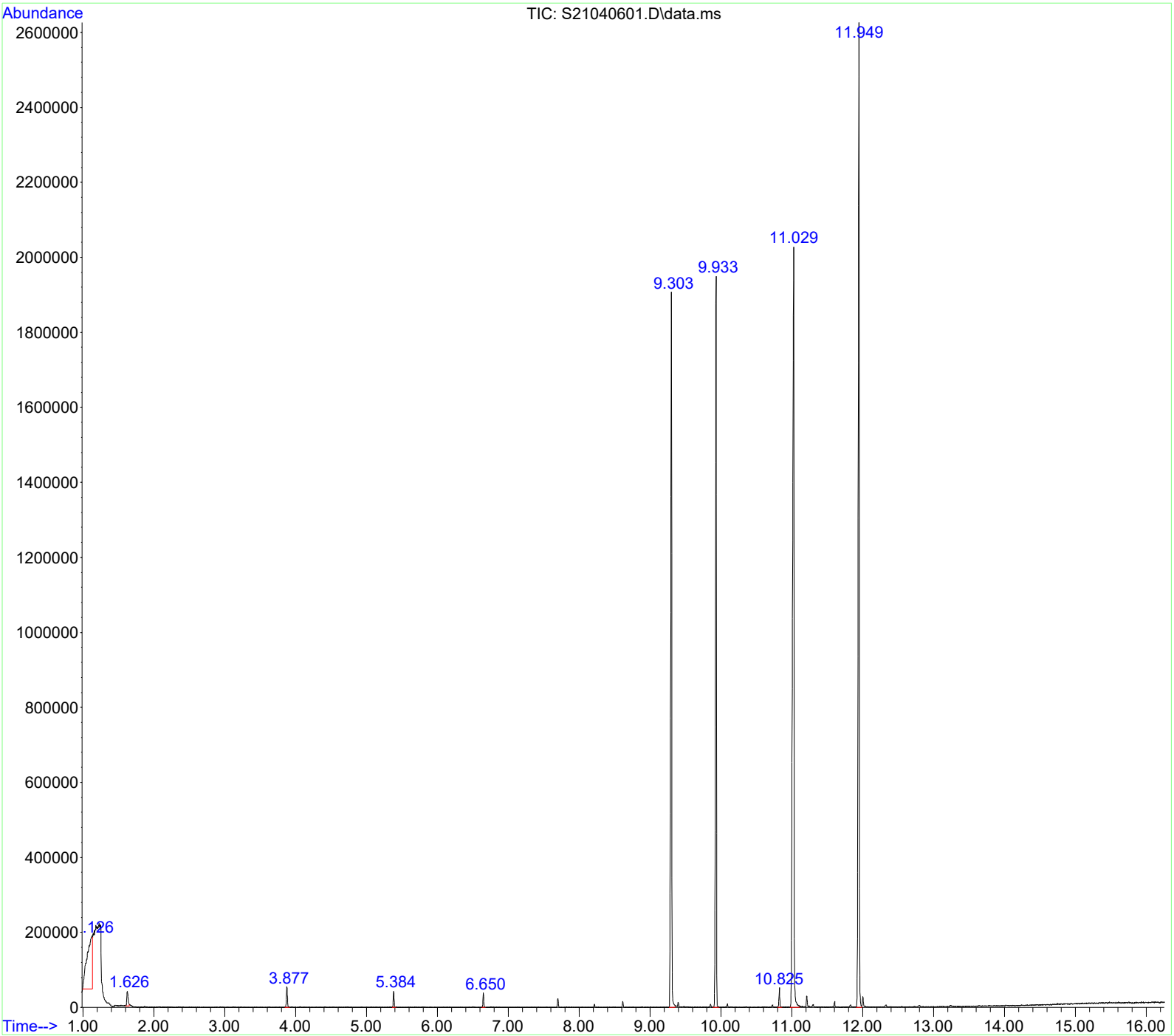
Area Percent Report

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040601.D
Acq On : 6 Apr 2021 10:41 am
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 30000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MS-9\New\Calculation Methods\DFTPP.M
Title :



Library Search Report

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040601.D
Acq On : 6 Apr 2021 10:41 am
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: C:\Database\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex minus start of peak
Integration Events: RTE Integrator - RTEINT.P

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.126	7.03	C:\Database\NIST14.L			
			Methylene chloride	1543	000075-09-2	94
			Methylene chloride	1541	000075-09-2	91
			Methylene chloride	1542	000075-09-2	91
2	1.626	0.47	C:\Database\NIST14.L			
			Toluene	2477	000108-88-3	87
			Toluene	2482	000108-88-3	87
			Toluene	2481	000108-88-3	81
3	3.877	0.50	C:\Database\NIST14.L			
			Cyclotetrasiloxane, octamethyl-	155952	000556-67-2	90
			Cyclotetrasiloxane, octamethyl-	155950	000556-67-2	86
			trisiloxane, 1,1,1,5,5,5-hexamethy l-3-[(trimethylsilyl)oxy]-	155972	1000402-10-5	80
4	5.384	0.35	C:\Database\NIST14.L			
			Cyclopentasiloxane, decamethyl-	220036	000541-02-6	83
			3-Amino-2-phenazinol ditms	209406	1000332-15-5	33
			2,5-Dihydroxybenzoic acid, 3TMS de rivative	220200	003618-20-0	28
5	6.650	0.30	C:\Database\NIST14.L			
			Cyclohexasiloxane, dodecamethyl-	254924	000540-97-6	59
			Cyclohexasiloxane, dodecamethyl-	254925	000540-97-6	59
			Cyclohexasiloxane, dodecamethyl-	254923	000540-97-6	50
6	9.303	18.44	C:\Database\NIST14.L			
			Phenol, pentachloro-	125064	000087-86-5	99
			Phenol, pentachloro-	125062	000087-86-5	99
			Phenol, pentachloro-	125061	000087-86-5	96
7	9.933	16.10	C:\Database\NIST14.L			
			Bis(pentafluorophenyl)phenyl phosp hine	254406	005074-71-5	99
			Bis(pentafluorophenyl)phenyl phosp hine	254407	005074-71-5	92
			6,10-Methano-9H-cyclooct[b]indol-9 -one, 5,6,7,8,10,11-hexahydro-2-me thoxy-	116288	1000337-05-8	10
8	10.825	0.41	C:\Database\NIST14.L			
			Isoxazole, 4-iodo-3-phenyl-	131850	023253-50-1	27
			Benzofuro[3,2-d]pyrimidin-4-amine, 2-methyl-N-phenyl-	135523	068217-90-3	12
			2-Methoxy-1-nitrophenazine 10-oxid	131330	005051-20-7	10
9	11.029	29.78	C:\Database\NIST14.L			
			Benzidine	51192	000092-87-5	97
			Benzidine	51188	000092-87-5	96
			Benzidine	51190	000092-87-5	95
10	11.949	26.62	C:\Database\NIST14.L			
			m,p'-DDD	176313	004329-12-8	93
			p,p'-DDT	206682	000050-29-3	91
			p,p'-DDT	206681	000050-29-3	91

Library Search Report

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040601.D
Acq On : 6 Apr 2021 10:41 am
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: C:\Database\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex minus start of peak
Integration Events: RTE Integrator - RTEINT.P

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.126	7.03	C:\Database\NIST14.L			
			Methylene chloride	1543	000075-09-2	94
			Methylene chloride	1541	000075-09-2	91
			Methylene chloride	1542	000075-09-2	91
2	1.626	0.47	C:\Database\NIST14.L			
			Toluene	2477	000108-88-3	87
			Toluene	2482	000108-88-3	87
			Toluene	2481	000108-88-3	81
3	3.877	0.50	C:\Database\NIST14.L			
			Cyclotetrasiloxane, octamethyl-	155952	000556-67-2	90
			Cyclotetrasiloxane, octamethyl-	155950	000556-67-2	86
			trisiloxane, 1,1,1,5,5,5-hexamethy l-3-[(trimethylsilyl)oxy]-	155972	1000402-10-5	80
4	5.384	0.35	C:\Database\NIST14.L			
			Cyclopentasiloxane, decamethyl-	220036	000541-02-6	83
			3-Amino-2-phenazinol ditms	209406	1000332-15-5	33
			2,5-Dihydroxybenzoic acid, 3TMS de rivative	220200	003618-20-0	28
5	6.650	0.30	C:\Database\NIST14.L			
			Cyclohexasiloxane, dodecamethyl-	254924	000540-97-6	59
			Cyclohexasiloxane, dodecamethyl-	254925	000540-97-6	59
			Cyclohexasiloxane, dodecamethyl-	254923	000540-97-6	50
6	9.303	18.44	C:\Database\NIST14.L			
			Phenol, pentachloro-	125064	000087-86-5	99
			Phenol, pentachloro-	125062	000087-86-5	99
			Phenol, pentachloro-	125061	000087-86-5	96
7	9.933	16.10	C:\Database\NIST14.L			
			Bis(pentafluorophenyl)phenyl phosp hine	254406	005074-71-5	99
			Bis(pentafluorophenyl)phenyl phosp hine	254407	005074-71-5	92
			6,10-Methano-9H-cyclooct[b]indol-9 -one, 5,6,7,8,10,11-hexahydro-2-me thoxy-	116288	1000337-05-8	10
8	10.825	0.41	C:\Database\NIST14.L			
			Isoxazole, 4-iodo-3-phenyl-	131850	023253-50-1	27
			Benzofuro[3,2-d]pyrimidin-4-amine, 2-methyl-N-phenyl-	135523	068217-90-3	12
			2-Methoxy-1-nitrophenazine 10-oxid	131330	005051-20-7	10
9	11.029	29.78	C:\Database\NIST14.L			
			Benzidine	51192	000092-87-5	97
			Benzidine	51188	000092-87-5	96
			Benzidine	51190	000092-87-5	95
10	11.949	26.62	C:\Database\NIST14.L			

m,p'-DDD	176313	004329-12-8	93
p,p'-DDT	206682	000050-29-3	91
p,p'-DDT	206681	000050-29-3	91

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040601.D
Acq On : 6 Apr 2021 10:41 am
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MS-9\New\Calculation Methods\DFTPP.M
Title :
Last Update : Mon Oct 15 09:26:34 1990

AutoFind: Scans 3152, 3153, 3154; Background Corrected with Scan 3141

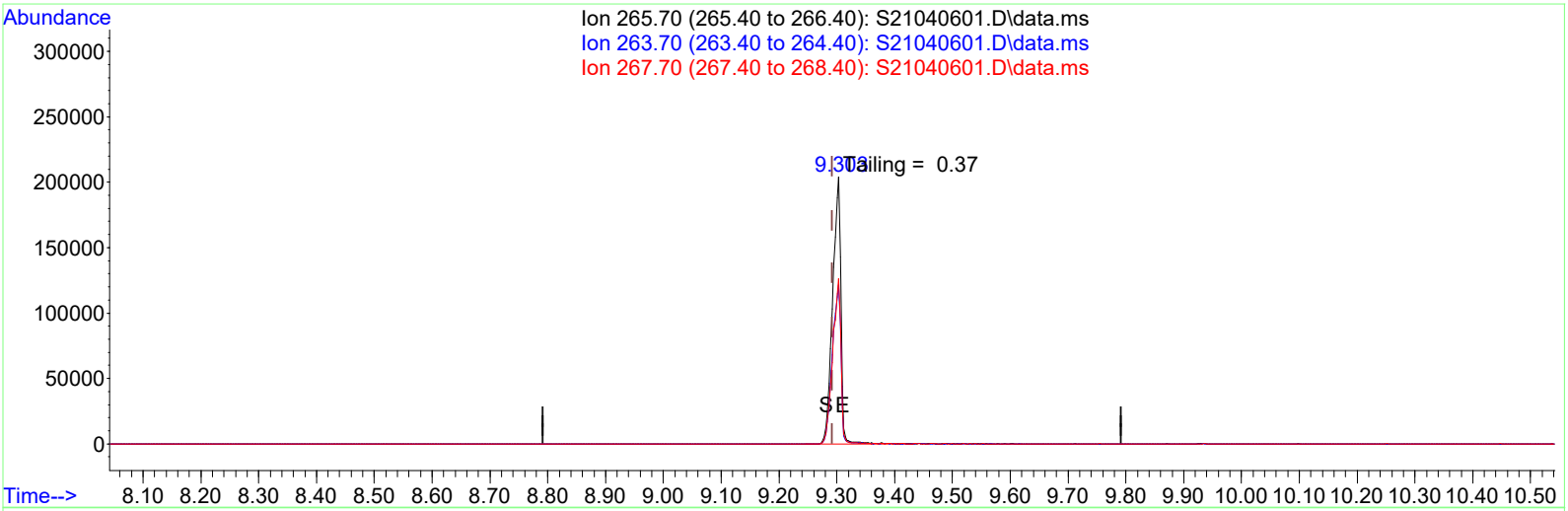
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	49.3	96515	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.6	87373	PASS
70	69	0.00	2	0.4	380	PASS
127	198	40	60	54.2	106208	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	195840	PASS
199	198	5	9	6.7	13025	PASS
275	198	10	30	21.5	42072	PASS
365	198	1	100	2.5	4800	PASS
441	443	0.01	100	85.3	22405	PASS
442	198	40	100	71.0	138960	PASS
443	442	17	23	18.9	26251	PASS

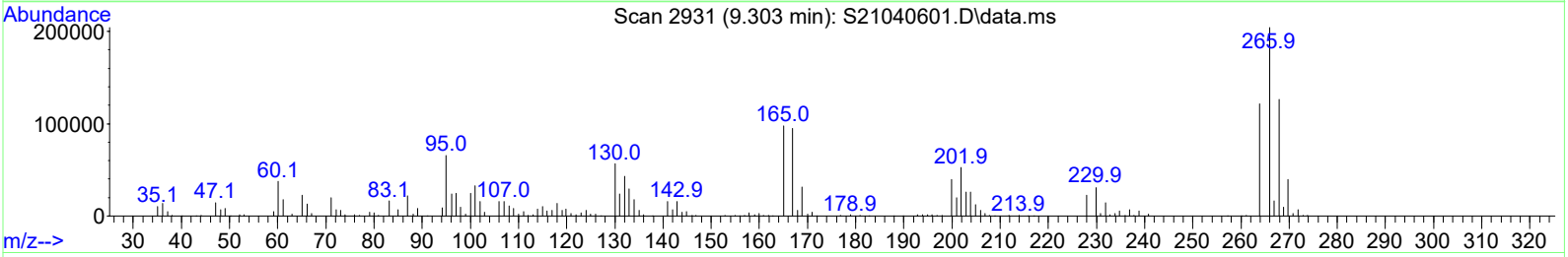
DFTPP.M Wed Apr 07 09:55:24 2021

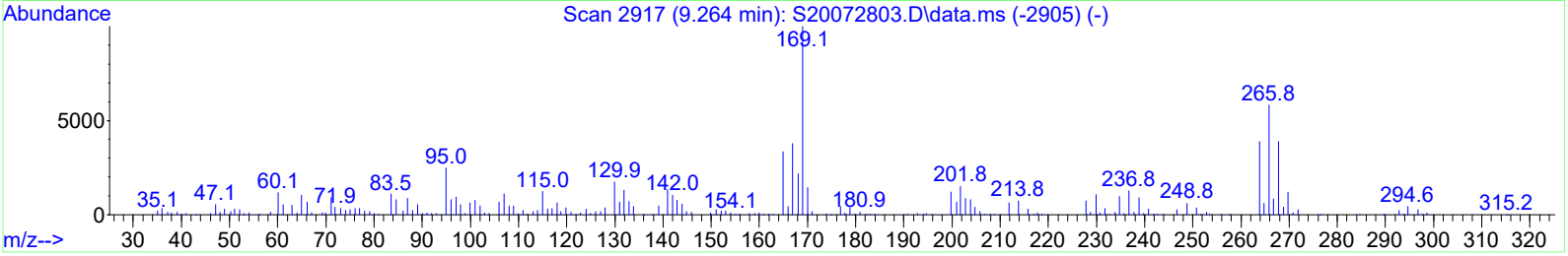
Quantitation Report (Qedit)

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040601.D
Acq On : 6 Apr 2021 10:41 am
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 07 09:55:50 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration







TIC: S21040601.D\data.ms

(84) Pentachlorophenol (P)

9.303min (+ 0.011) 0.00 ng

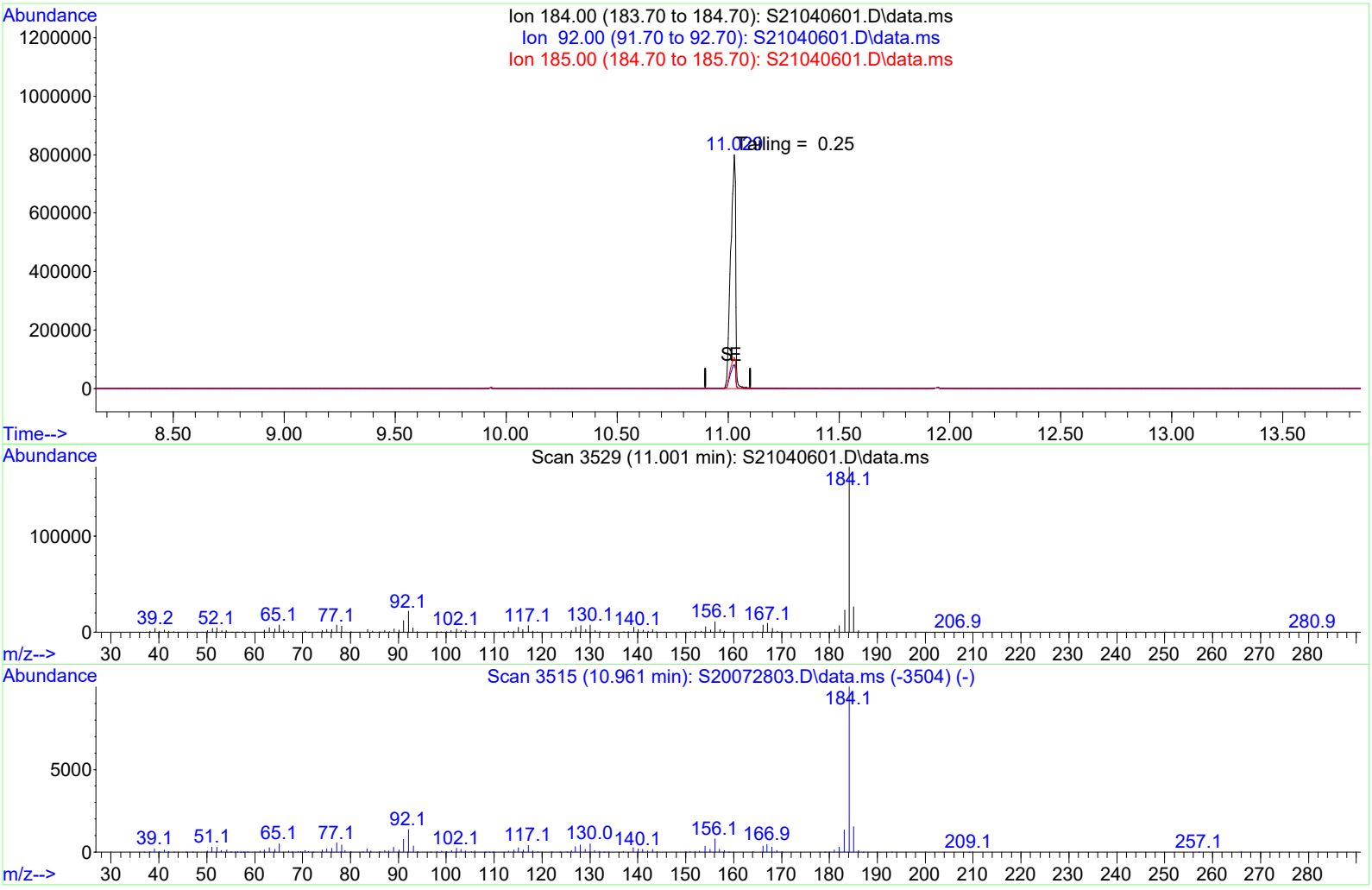
response 200103

Ion	Exp%	Act%
265.70	100.00	100.00
263.70	63.20	62.14
267.70	62.20	62.24
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040601.D
Acq On : 6 Apr 2021 10:41 am
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 07 09:55:50 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration



TIC: S21040601.D\data.ms

(95) Benzidine (T)

11.001min (-11.001) 0.00 ng

response 0

Ion	Exp%	Act%
184.00	100.00	0.00
92.00	10.50	0.00
185.00	14.30	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040628.D
Acq On : 6 Apr 2021 5:31 pm
Operator : yh
Sample : bna40 973-90/
Misc : ICv 8270C_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 09:52:13 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	106	0.00
2		Pyridine	40.000	37.357	6.6	97	-0.02
3	T	2-Picoline	40.000	25.519	36.2#	66	-0.02
4	T	Methyl methanesulfonate	40.000	22.570	43.6#	59	-0.01
5	S	2-Fluorophenol	40.000	39.876	0.3	102	-0.01
6	T	Ethyl methanesulfonate	40.000	36.531	8.7	95	0.00
7	P	Benzaldehyde	40.000	51.447	-28.6#	130	0.00
8	T	Aniline	40.000	36.662	8.3	94	0.00
9	S	Phenol-d5	40.000	39.079	2.3	100	0.00
10	P	Phenol	40.000	35.100	12.2	88	0.00
11	P	Bis(2-chloroethyl)ether	40.000	40.103	-0.3	101	0.00
12	P	2-Chlorophenol	40.000	38.590	3.5	100	0.00
13	T	1,3-Dichlorobenzene	40.000	37.692	5.8	97	0.00
14	CCC	1,4-Dichlorobenzene	40.000	37.932	5.2	97	0.00
15	T	1,2-Dichlorobenzene	40.000	37.607	6.0	98	0.00
16	T	Benzyl alcohol	40.000	37.304	6.7	97	0.00
17	T	Bis(2-chloroisopropyl)ether	40.000	32.677	18.3	83	-0.01
18	P	2-Methylphenol	40.000	38.207	4.5	98	0.00
19	T	3,4-Methylphenol	80.000	87.334	-9.2	113	0.00
20	PC	N-Nitrosodi-n-propylamine	40.000	37.104	7.2	94	0.00
21	T	N-Nitrosodimethylamine	40.000	38.971	2.6	100	-0.01
22	T	Hexachloroethane	40.000	38.635	3.4	100	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	107	0.00
24	S	Nitrobenzene-d5	40.000	39.331	1.7	105	0.00
25	P	Acetophenone	80.000	39.575	50.5#	52	0.00
26	P	Nitrobenzene	40.000	38.750	3.1	101	0.00
27	T	N-Nitrosopiperidine	40.000	38.244	4.4	99	0.00
28	P	Isophorone	40.000	36.937	7.7	98	0.00
29	P	2-Nitrophenol	40.000	38.142	4.6	99	0.00
30	P	2,4-Dimethylphenol	40.000	37.261	6.8	98	0.00
31	P	Bis(2-chloroethoxy)methane	40.000	38.205	4.5	99	0.00
32	P	2,4-Dichlorophenol	40.000	38.745	3.1	101	0.00
33	T	1,2,4-Trichlorobenzene	40.000	37.386	6.5	97	0.00
34	P	Naphthalene	40.000	38.272	4.3	100	0.00
35	T	Benzoic acid	40.000	33.568	16.1	85	0.05
36	T	2,6-Dichlorophenol	40.000	38.099	4.8	101	0.00
37	P	4-Chloroaniline	40.000	38.050	4.9	99	0.00
38	P	Hexachlorobutadiene	40.000	37.247	6.9	101	0.00
39	T	a,a-Dimethylphenethylamine	40.000	35.773	10.6	95	0.07
40	P	Caprolactam	40.000	45.009	-12.5	117	0.05
41	P	4-Chloro-3-methylphenol	40.000	37.835	5.4	101	0.00
42	T	N-Nitrosodi-n-butylamine	40.000	32.543	18.6	75	0.00
43	P	2-Methylnaphthalene	40.000	36.199	9.5	97	0.00
44	T	1-Methylnaphthalene	40.000	37.816	5.5	99	0.00
45	I	Acenaphthene-d10	40.000	40.000	0.0	100	0.00
46	T	1,2,4,5-Tetrachlorobenzene	40.000	38.853	2.9	98	0.00
47	P	Hexachlorocyclopentadiene	40.000	31.493	21.3	79	0.00
48	P	2,4,6-Trichlorophenol	40.000	39.219	2.0	98	0.00
49	P	2,4,5-Trichlorophenol	40.000	39.322	1.7	99	0.00
50	S	2-Fluorobiphenyl	40.000	39.439	1.4	98	0.00
51		Biphenyl	40.000	44.633	-11.6	113	0.00

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040628.D
Acq On : 6 Apr 2021 5:31 pm
Operator : yh
Sample : bna40 973-90/
Misc : ICv 8270C_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 09:52:13 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	P	2-Chloronaphthalene	40.000	42.656	-6.6	108	0.00
53	T	1-Chloronaphthalene	40.000	35.535	11.2	88	0.00
54	P	2-Nitroaniline	40.000	37.634	5.9	95	0.00
55	P	3-Nitroaniline	40.000	38.676	3.3	98	0.00
56	T	Pentachlorobenzene	40.000	40.978	-2.4	104	0.00
57	T	4-Nitroaniline	40.000	38.995	2.5	99	0.01
58	T	2-Naphthylamine	40.000	34.911	12.7	88	0.00
59	T	1-Naphthylamine	40.000	33.529	16.2	85	0.00
60	P	Dimethyl phthalate	40.000	38.899	2.8	100	0.00
61	P	Acenaphthylene	40.000	38.360	4.1	96	0.00
62	P	2,6-Dinitrotoluene	40.000	39.189	2.0	97	0.00
63	P	Acenaphthene	40.000	39.729	0.7	99	0.00
64	P	2,4-Dinitrophenol	40.000	31.488	21.3	71	0.02
65	P	Dibenzofuran	40.000	39.137	2.2	98	0.00
66	P	4-Nitrophenol	40.000	33.724	15.7	82	0.01
67	P	2,4-Dinitrotoluene	40.000	37.400	6.5	94	0.00
68	T	2,3,4,6-Tetrachlorophenol	40.000	36.582	8.5	94	0.00
69	P	Diethyl phthalate	40.000	39.386	1.5	99	0.00
70	P	Fluorene	40.000	38.415	4.0	96	0.00
71	P	4-Chlorophenyl phenyl ether	40.000	38.907	2.7	98	0.00
72	S	2,4,6-Tribromophenol	40.000	34.445	13.9	88	0.00
73	I	Phenanthrene-d10	40.000	40.000	0.0	102	0.00
74	P	4,6-Dinitro-2-methylphenol	40.000	33.895	15.3	85	0.02
75	T	Azobenzene	40.000	43.011	-7.5	109	0.00
76	T	1,2-Diphenylhydrazine	40.000	42.908	-7.3	106	0.00
77	CCC	Diphenylamine	40.000	43.411	-8.5	114	0.00
78	P	N-Nitrosodiphenylamine	40.000	43.933	-9.8	112	0.00
79	P	4-Bromophenyl phenyl ether	40.000	35.871	10.3	92	0.00
80	T	Phenacetin	40.000	39.470	1.3	99	0.02
81	P	Hexachlorobenzene	40.000	37.021	7.4	92	0.00
82	P	Atrazine	40.000	46.456	-16.1	115	0.01
83	T	4-Aminobiphenyl	40.000	34.412	14.0	88	0.00
84	P	Pentachlorophenol	40.000	30.123	24.7	78	0.01
85	T	Pentachloronitrobenzene	40.000	38.530	3.7	96	0.00
86	T	Pronamide	40.000	43.055	-7.6	113	0.00
87	P	Phenanthrene	40.000	38.206	4.5	98	0.00
88	P	Anthracene	40.000	33.612	16.0	86	0.00
89	P	Carbazole	40.000	46.299	-15.7	119	0.00
90	P	Di-n-butyl phthalate	40.000	36.511	8.7	93	0.00
91	P	Fluoranthene	40.000	37.376	6.6	94	0.00
92	I	Chrysene-d12	40.000	40.000	0.0	103	0.00
93	P	Pyrene	40.000	38.074	4.8	95	0.00
94	S	4-Terphenyl-d14	40.000	37.733	5.7	98	0.00
95	T	Benzidine	40.000	34.313	14.2	89	0.00
96	T	p-Dimethylaminoazobenzene	40.000	35.577	11.1	91	0.00
97	P	Butyl benzyl phthalate	40.000	36.932	7.7	96	0.00
98	P	Benz(a)anthracene	40.000	37.175	7.1	95	0.00
99	P	3,3'-Dichlorobenzidine	40.000	36.793	8.0	91	0.00
100	P	Chrysene	40.000	37.629	5.9	96	0.00
101	P	Bis(2-ethylhexyl)phthalate	40.000	37.468	6.3	93	0.00
102	P	Di-n-octyl phthalate	40.000	33.391	16.5	86	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040628.D
Acq On : 6 Apr 2021 5:31 pm
Operator : yh
Sample : bna40 973-90/
Misc : ICv 8270C_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 09:52:13 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	40.000	45.596	-14.0	114	0.01
104	I	Perylene-d12	40.000	40.000	0.0	116	0.00
105	P	Benzo[b]fluoranthene	40.000	30.701	23.2	93	0.00
106	P	Benzo[k]fluoranthene	40.000	38.175	4.6	103	0.01
107	P	Benzo[a]pyrene	40.000	32.162	19.6	93	0.00
108	T	Dibenz(a,j)acridine	40.000	28.609	28.5#	81	0.01
109		Indeno[1,2,3-cd]pyrene	40.000	32.196	19.5	91	0.01
110	P	Dibenz(a,h)anthracene	40.000	32.355	19.1	91	0.00
111	P	Benzo[g,h,i]perylene	40.000	31.882	20.3	90	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040628.D
Acq On : 6 Apr 2021 5:31 pm
Operator : yh
Sample : bna40 973-90/
Misc : ICv 8270C_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 09:52:13 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	0.00
2		Pyridine	1.678	1.567	6.6	97	-0.02
3	T	2-Picoline	1.646	1.050	36.2#	66	-0.02
4	T	Methyl methanesulfonate	0.820	0.463	43.5#	59	-0.01
5	S	2-Fluorophenol	1.373	1.369	0.3	102	-0.01
6	T	Ethyl methanesulfonate	1.239	1.132	8.6	95	0.00
7	P	Benzaldehyde	0.942	1.211	-28.6#	130	0.00
8	T	Aniline	1.016	0.931	8.4	94	0.00
9	S	Phenol-d5	1.679	1.641	2.3	100	0.00
10	P	Phenol	1.995	1.750	12.3	88	0.00
11	P	Bis(2-chloroethyl)ether	1.405	1.409	-0.3	101	0.00
12	P	2-Chlorophenol	1.491	1.439	3.5	100	0.00
13	T	1,3-Dichlorobenzene	1.651	1.556	5.8	97	0.00
14	CCC	1,4-Dichlorobenzene	1.660	1.574	5.2	97	0.00
15	T	1,2-Dichlorobenzene	1.574	1.480	6.0	98	0.00
16	T	Benzyl alcohol	0.994	0.927	6.7	97	0.00
17	T	Bis(2-chloroisopropyl)ether	2.652	2.166	18.3	83	-0.01
18	P	2-Methylphenol	1.196	1.142	4.5	98	0.00
19	T	3,4-Methylphenol	1.538	1.679	-9.2	113	0.00
20	PC	N-Nitrosodi-n-propylamine	1.035	0.960	7.2	94	0.00
21	T	N-Nitrosodimethylamine	0.925	0.901	2.6	100	-0.01
22	T	Hexachloroethane	0.637	0.616	3.3	100	0.00
23	I	Naphthalene-d8	1.000	1.000	0.0	107	0.00
24	S	Nitrobenzene-d5	0.371	0.364	1.9	105	0.00
25	P	Acetophenone	0.503	0.249	50.5#	52	0.00
26	P	Nitrobenzene	0.185	0.179	3.2	101	0.00
27	T	N-Nitrosopiperidine	0.187	0.178	4.8	99	0.00
28	P	Isophorone	0.733	0.677	7.6	98	0.00
29	P	2-Nitrophenol	0.192	0.183	4.7	99	0.00
30	P	2,4-Dimethylphenol	0.329	0.306	7.0	98	0.00
31	P	Bis(2-chloroethoxy)methane	0.429	0.410	4.4	99	0.00
32	P	2,4-Dichlorophenol	0.292	0.283	3.1	101	0.00
33	T	1,2,4-Trichlorobenzene	0.323	0.302	6.5	97	0.00
34	P	Naphthalene	1.117	1.068	4.4	100	0.00
35	T	Benzoic acid	0.210	0.145	31.0#	85	0.05
36	T	2,6-Dichlorophenol	0.284	0.271	4.6	101	0.00
37	P	4-Chloroaniline	0.455	0.433	4.8	99	0.00
38	P	Hexachlorobutadiene	0.158	0.147	7.0	101	0.00
39	T	a,a-Dimethylphenethylamine	1.198	1.071	10.6	95	0.07
40	P	Caprolactam	0.115	0.130	-13.0	117	0.05
41	P	4-Chloro-3-methylphenol	0.306	0.290	5.2	101	0.00
42	T	N-Nitrosodi-n-butylamine	0.279	0.227	18.6	75	0.00
43	P	2-Methylnaphthalene	0.638	0.577	9.6	97	0.00
44	T	1-Methylnaphthalene	0.617	0.583	5.5	99	0.00
45	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
46	T	1,2,4,5-Tetrachlorobenzene	0.535	0.519	3.0	98	0.00
47	P	Hexachlorocyclopentadiene	0.326	0.256	21.5	79	0.00
48	P	2,4,6-Trichlorophenol	0.372	0.364	2.2	98	0.00
49	P	2,4,5-Trichlorophenol	0.394	0.387	1.8	99	0.00
50	S	2-Fluorobiphenyl	1.315	1.297	1.4	98	0.00
51		Biphenyl	1.572	1.755	-11.6	113	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040628.D
Acq On : 6 Apr 2021 5:31 pm
Operator : yh
Sample : bna40 973-90/
Misc : ICv 8270C_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 09:52:13 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	P	2-Chloronaphthalene	1.214	1.295	-6.7	108	0.00
53	T	1-Chloronaphthalene	1.070	0.951	11.1	88	0.00
54	P	2-Nitroaniline	0.423	0.398	5.9	95	0.00
55	P	3-Nitroaniline	0.392	0.379	3.3	98	0.00
56	T	Pentachlorobenzene	0.443	0.454	-2.5	104	0.00
57	T	4-Nitroaniline	0.385	0.375	2.6	99	0.01
58	T	2-Naphthylamine	1.269	1.107	12.8	88	0.00
59	T	1-Naphthylamine	1.321	1.107	16.2	85	0.00
60	P	Dimethyl phthalate	1.310	1.274	2.7	100	0.00
61	P	Acenaphthylene	1.915	1.836	4.1	96	0.00
62	P	2,6-Dinitrotoluene	0.298	0.292	2.0	97	0.00
63	P	Acenaphthene	1.148	1.140	0.7	99	0.00
64	P	2,4-Dinitrophenol	0.161	0.101	37.3#	71	0.02
65	P	Dibenzofuran	1.678	1.642	2.1	98	0.00
66	P	4-Nitrophenol	0.211	0.178	15.6	82	0.01
67	P	2,4-Dinitrotoluene	0.411	0.384	6.6	94	0.00
68	T	2,3,4,6-Tetrachlorophenol	0.293	0.268	8.5	94	0.00
69	P	Diethyl phthalate	1.344	1.323	1.6	99	0.00
70	P	Fluorene	1.395	1.340	3.9	96	0.00
71	P	4-Chlorophenyl phenyl ether	0.582	0.567	2.6	98	0.00
72	S	2,4,6-Tribromophenol	0.130	0.110	15.4	88	0.00
73	I	Phenanthrene-d10	1.000	1.000	0.0	102	0.00
74	P	4,6-Dinitro-2-methylphenol	0.135	0.102	24.4	85	0.02
75	T	Azobenzene	0.803	0.864	-7.6	109	0.00
76	T	1,2-Diphenylhydrazine	0.191	0.205	-7.3	106	0.00
77	CCC	Diphenylamine	0.139	0.151	-8.6	114	0.00
78	P	N-Nitrosodiphenylamine	0.693	0.761	-9.8	112	0.00
79	P	4-Bromophenyl phenyl ether	0.199	0.179	10.1	92	0.00
80	T	Phenacetin	0.421	0.416	1.2	99	0.02
81	P	Hexachlorobenzene	0.189	0.175	7.4	92	0.00
82	P	Atrazine	0.191	0.222	-16.2	115	0.01
83	T	4-Aminobiphenyl	0.843	0.725	14.0	88	0.00
84	P	Pentachlorophenol	0.141	0.106	24.8	78	0.01
85	T	Pentachloronitrobenzene	0.086	0.083	3.5	96	0.00
86	T	Pronamide	0.304	0.327	-7.6	113	0.00
87	P	Phenanthrene	1.180	1.127	4.5	98	0.00
88	P	Anthracene	1.188	0.998	16.0	86	0.00
89	P	Carbazole	1.002	1.160	-15.8	119	0.00
90	P	Di-n-butyl phthalate	1.368	1.249	8.7	93	0.00
91	P	Fluoranthene	1.233	1.152	6.6	94	0.00
92	I	Chrysene-d12	1.000	1.000	0.0	103	0.00
93	P	Pyrene	1.553	1.478	4.8	95	0.00
94	S	4-Terphenyl-d14	1.018	0.961	5.6	98	0.00
95	T	Benzidine	0.697	0.598	14.2	89	0.00
96	T	p-Dimethylaminoazobenzene	0.273	0.243	11.0	91	0.00
97	P	Butyl benzyl phthalate	0.747	0.689	7.8	96	0.00
98	P	Benz(a)anthracene	1.343	1.248	7.1	95	0.00
99	P	3,3'-Dichlorobenzidine	0.470	0.433	7.9	91	0.00
100	P	Chrysene	1.327	1.248	6.0	96	0.00
101	P	Bis(2-ethylhexyl)phthalate	0.994	0.931	6.3	93	0.00
102	P	Di-n-octyl phthalate	1.729	1.443	16.5	86	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040628.D
Acq On : 6 Apr 2021 5:31 pm
Operator : yh
Sample : bna40 973-90/
Misc : ICv 8270C_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 09:52:13 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	0.389	0.443	-13.9	114	0.01
104	I	Perylene-d12	1.000	1.000	0.0	116	0.00
105	P	Benzo[b]fluoranthene	1.452	1.114	23.3	93	0.00
106	P	Benzo[k]fluoranthene	1.297	1.238	4.5	103	0.01
107	P	Benzo[a]pyrene	1.249	1.004	19.6	93	0.00
108	T	Dibenz(a,j)acridine	1.049	0.750	28.5#	81	0.01
109		Indeno[1,2,3-cd]pyrene	1.482	1.193	19.5	91	0.01
110	P	Dibenz(a,h)anthracene	1.212	0.981	19.1	91	0.00
111	P	Benzo[g,h,i]perylene	1.225	0.976	20.3	90	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040628.D
Acq On : 6 Apr 2021 5:31 pm
Operator : yh
Sample : bna40 973-90/
Misc : ICv 8270C_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 09:52:13 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.195	152	43375	40.00	ng		0.00
23) Naphthalene-d8	...	5.793	136	172485	40.00	ng		0.00
45) Acenaphthene-d10	...	7.833	164	88121	40.00	ng		0.00
73) Phenanthrene-d10	...	9.482	188	155179	40.00	ng		0.00
92) Chrysene-d12	...	12.406	240	126459	40.00	ng		0.00
104) Perylene-d12	...	13.867	264	123033	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.653	112	59370	39.88	ng		-0.01
Spiked Amount 100.000	Range 21 - 119		Recovery = 39.88%					
9) Phenol-d5	...	3.786	99	71163	39.08	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 39.08%					
24) Nitrobenzene-d5	...	4.916	82	62860	39.33	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 78.66%					
50) 2-Fluorobiphenyl	...	7.104	172	114297	39.44	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 78.88%					
72) 2,4,6-Tribromophenol	...	8.722	330	9727	34.44	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 34.44%					
94) 4-Terphenyl-d14	...	11.290	244	121498	37.73	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 75.46%					
Target Compounds								Qvalue
2) Pyridine	...	1.422	79	67985	37.36	ng	#	87
3) 2-Picoline	...	2.049	93	45540	25.52	ng		98
4) Methyl methanesulfonate	...	2.477	80	20077	22.57	ng		98
6) Ethyl methanesulfonate	...	3.264	79	49088	36.53	ng		96
7) Benzaldehyde	...	3.627	105	52529	51.45	ng		98
8) Aniline	...	3.775	66	40400	36.66	ng	#	83
10) Phenol	...	3.800	94	75926	35.10	ng		99
11) Bis(2-chloroethyl)ether	...	3.891	93	61119	40.10	ng		90
12) 2-Chlorophenol	...	3.919	128	62399	38.59	ng		96
13) 1,3-Dichlorobenzene	...	4.118	146	67484	37.69	ng		96
14) 1,4-Dichlorobenzene	...	4.217	146	68263	37.93	ng		98
15) 1,2-Dichlorobenzene	...	4.410	146	64185	37.61	ng		97
16) Benzyl alcohol	...	4.413	108	40209	37.30	ng	#	71
17) Bis(2-chloroisopropyl)ether	...	4.609	45	93961	32.68	ng		84
18) 2-Methylphenol	...	4.595	107	49531	38.21	ng	#	92
19) 3,4-Methylphenol	...	4.811	107	145678	87.33	ng		97
20) N-Nitrosodi-n-propylamine	...	4.776	70	41658	37.10	ng		87
21) N-Nitrosodimethylamine	...	1.410	42	39088	38.97	ng	#	79
22) Hexachloroethane	...	4.839	117	26706	38.63	ng		92
25) Acetophenone	...	4.740	105	85786	39.57	ng		95
26) Nitrobenzene	...	4.941	123	30878	38.75	ng		88
27) N-Nitrosopiperidine	...	5.128	114	30787	38.24	ng	#	74
28) Isophorone	...	5.259	82	116813	36.94	ng		98
29) 2-Nitrophenol	...	5.341	139	31613	38.14	ng		95
30) 2,4-Dimethylphenol	...	5.466	122	52824	37.26	ng		95
31) Bis(2-chloroethoxy)methane	...	5.577	93	70678	38.21	ng		100
32) 2,4-Dichlorophenol	...	5.651	162	48738	38.75	ng		96
33) 1,2,4-Trichlorobenzene	...	5.741	180	52136	37.39	ng		98
34) Naphthalene	...	5.818	128	184290	38.27	ng		99
35) Benzoic acid	...	5.619	105	24947	33.57	ng		95
36) 2,6-Dichlorophenol	...	5.926	162	46716	38.10	ng		99
37) 4-Chloroaniline	...	5.920	127	74654	38.05	ng		97
38) Hexachlorobutadiene	...	6.014	225	25311	37.25	ng		98
39) a,a-Dimethylphenethylamine	...	5.716	58	184790	35.77	ng		81
40) Caprolactam	...	6.349	113	22384	45.01	ng	#	53

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040628.D
Acq On : 6 Apr 2021 5:31 pm
Operator : yh
Sample : bna40 973-90/
Misc : ICv 8270C_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 09:52:13 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.553	107	49949	37.84	ng		97
42) N-Nitrosodi-n-butylamine	6.369	84	39172	32.54	ng	#	81
43) 2-Methylnaphthalene	6.650	141	99525	36.20	ng		99
44) 1-Methylnaphthalene	6.760	141	100540	37.82	ng		99
46) 1,2,4,5-Tetrachlorobenzene	6.854	216	45755	38.85	ng		98
47) Hexachlorocyclopentadiene	6.860	237	22592	31.49	ng		97
48) 2,4,6-Trichlorophenol	7.004	196	32099	39.22	ng		97
49) 2,4,5-Trichlorophenol	7.039	196	34107	39.32	ng		99
51) Biphenyl	7.206	154	154616	44.63	ng		98
52) 2-Chloronaphthalene	7.203	162	114116	42.66	ng		97
53) 1-Chloronaphthalene	7.226	162	83789	35.53	ng		97
54) 2-Nitroaniline	7.345	65	35095	37.63	ng		94
55) 3-Nitroaniline	7.816	138	33395	38.68	ng	#	99
56) Pentachlorobenzene	8.029	250	39998	40.98	ng		94
57) 4-Nitroaniline	8.503	138	33051	39.00	ng		87
58) 2-Naphthylamine	8.154	143	97566	34.91	ng		99
59) 1-Naphthylamine	8.248	143	97590	33.53	ng		99
60) Dimethyl phthalate	7.601	163	112237	38.90	ng		99
61) Acenaphthylene	7.666	152	161804	38.36	ng		99
62) 2,6-Dinitrotoluene	7.643	165	25750	39.19	ng	#	79
63) Acenaphthene	7.870	154	100494	39.73	ng		99
64) 2,4-Dinitrophenol	7.947	184	8861	31.49	ng		92
65) Dibenzofuran	8.066	168	144662	39.14	ng		70
66) 4-Nitrophenol	8.060	109	15689	33.72	ng		90
67) 2,4-Dinitrotoluene	8.089	165	33846	37.40	ng		93
68) 2,3,4,6-Tetrachlorophenol	8.228	232	23577	36.58	ng		97
69) Diethyl phthalate	8.409	149	116598	39.39	ng		99
70) Fluorene	8.449	166	118074	38.42	ng		99
71) 4-Chlorophenyl phenyl ether	8.483	204	49926	38.91	ng		97
74) 4,6-Dinitro-2-methylphenol	8.548	198	15802	33.89	ng		86
75) Azobenzene	8.656	77	134023	43.01	ng		93
76) 1,2-Diphenylhydrazine	8.659	182	31877	42.91	ng	#	89
77) Diphenylamine	8.625	170	23480	43.41	ng	#	93
78) N-Nitrosodiphenylamine	8.625	168	118034	43.93	ng		99
79) 4-Bromophenyl phenyl ether	9.020	248	27761	35.87	ng		95
80) Phenacetin	9.008	108	64489	39.47	ng		99
81) Hexachlorobenzene	9.065	284	27195	37.02	ng		94
82) Atrazine	9.258	200	34412	46.46	ng	#	85
83) 4-Aminobiphenyl	9.312	169	112567	34.41	ng		99
84) Pentachlorophenol	9.303	266	16440	30.12	ng		95
85) Pentachloronitrobenzene	9.318	237	12873	38.53	ng		94
86) Pronamide	9.428	173	50813	43.06	ng		95
87) Phenanthrene	9.508	178	174919	38.21	ng		98
88) Anthracene	9.562	178	154937	33.61	ng		100
89) Carbazole	9.763	167	179989	46.30	ng		99
90) Di-n-butyl phthalate	10.232	149	193761	36.51	ng		100
91) Fluoranthene	10.819	202	178830	37.38	ng		98
93) Pyrene	11.057	202	186895	38.07	ng		99
95) Benzidine	11.006	184	75576	34.31	ng		99
96) p-Dimethylaminoazobenzene	11.452	225	30736	35.58	ng	#	82
97) Butyl benzyl phthalate	11.875	149	87181	36.93	ng		97
98) Benz(a)anthracene	12.394	228	157859	37.17	ng		99
99) 3,3'-Dichlorobenzidine	12.406	252	54727	36.79	ng		96
100) Chrysene	12.434	228	157828	37.63	ng		99
101) Bis(2-ethylhexyl)phthalate	12.553	149	117701	37.47	ng		92
102) Di-n-octyl phthalate	13.234	149	182495	33.39	ng		93
103) 3-Methylcholanthrene	14.146	268	56081	45.60	ng		98

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040628.D
Acq On : 6 Apr 2021 5:31 pm
Operator : yh
Sample : bna40 973-90/
Misc : ICv 8270C_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 09:52:13 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration

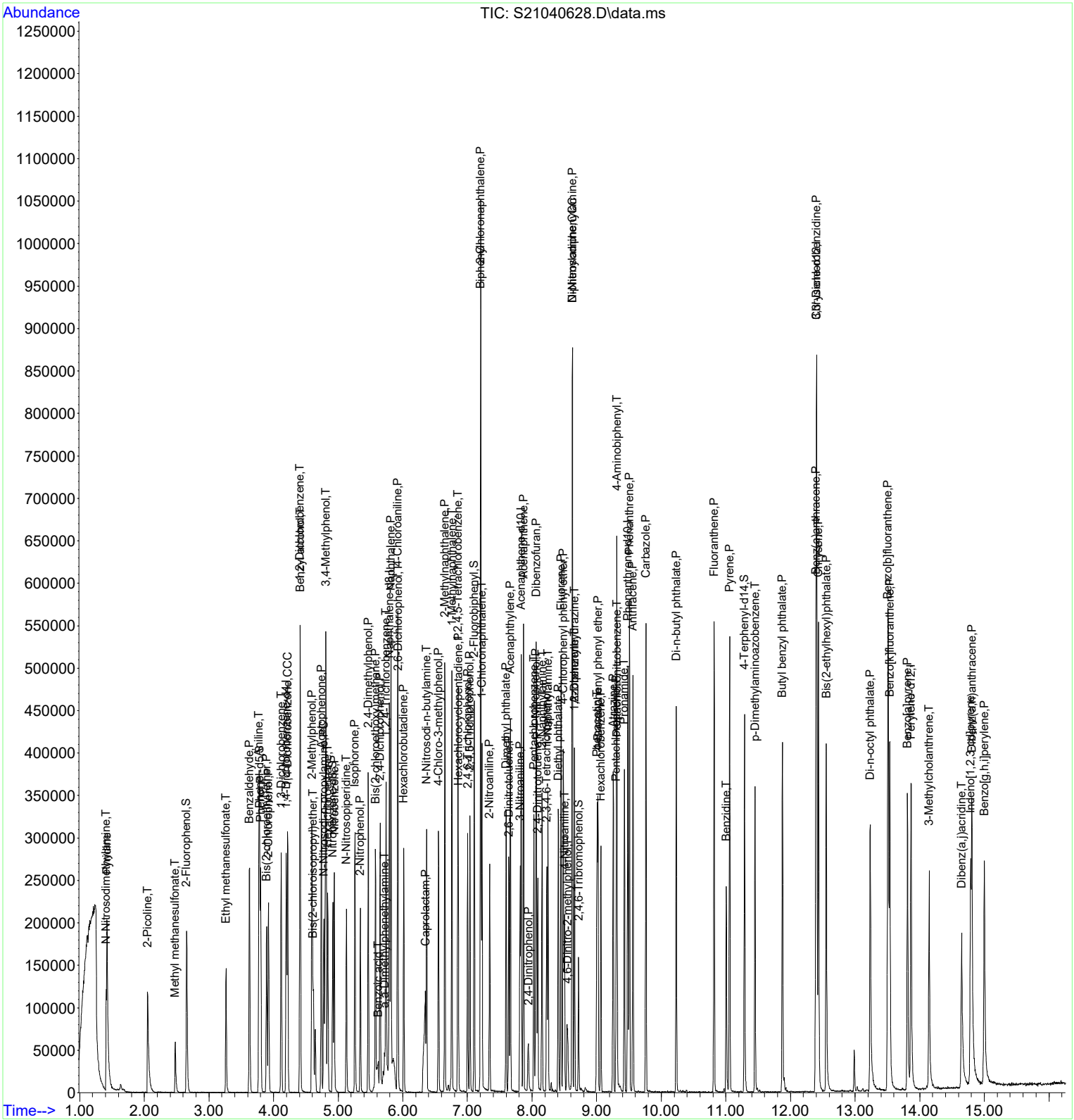
Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene	...	13.507	252	137087	30.70	ng		95
106) Benzo[k]fluoranthene	...	13.538	252	152292	38.17	ng		94
107) Benzo[a]pyrene	...	13.811	252	123523	32.16	ng		96
108) Dibenz(a,j)acridine	...	14.648	279	92282	28.61	ng		97
109) Indeno[1,2,3-cd]pyrene	...	14.787	276	146794	32.20	ng	#	86
110) Dibenz(a,h)anthracene	...	14.807	278	120657	32.35	ng		94
111) Benzo[g,h,i]perylene	...	15.000	276	120112	31.88	ng		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040628.D
Acq On : 6 Apr 2021 5:31 pm
Operator : yh
Sample : bna40 973-90/
Misc : ICv 8270C_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 09:52:13 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration



Injection Log

Directory: C:\msdchem\1\DATA\R210422

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	R1042201.D	1.	DFTPP	TUNE DFTPP_4	22 Apr 2021 08:53
2	4	R1042203.D	1.	SIM2	CCV 8270_SIM_PAH_SC_S	22 Apr 2021 09:19
3	1	R1042205.D	1.	DFTPP	TUNE DFTPP_4	22 Apr 2021 09:46
4	8	R1042210.D	1.	bna10 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 10:12
5	9	R1042211.D	1.	bna20 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 10:40
6	10	R1042212.D	1.	bna40 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 11:08
7	11	R1042213.D	1.	bna60 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 11:35
8	12	R1042214.D	1.	bna80 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 12:56
9	13	R1042215.D	1.	bna120 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 12:02
10	14	R1042216.D	1.	bna160 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 12:29
11	13	R1042217.D	1.	bna120 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 13:22
12	14	R1042218.D	1.	bna160 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 13:51
13	15	R1042219.D	1.	bna5 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 14:18
14	16	R1042221.D	1.	BNA 80 973-90/	ICV 8270_TCL4.2_W	22 Apr 2021 14:46
15	17	R1042222.D	1.	BNA 40 973-90/	ICV 8270_TCL4.2_W	22 Apr 2021 15:13
16	16	R1042223.D	1.	BNA 80 973-90/	ICV 8270_TCL4.2_W	22 Apr 2021 15:40
17	4	R1042230.D	1.	SIM3.5	CCV 8270_SIM_PAH_S	22 Apr 2021 16:07
18	10	R1042231.D	1.	bna40 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 16:35
19	18	R1042235.D	1.	MB-313930	MBLK 8270_SIM_PAH_SC_W	22 Apr 2021 17:08
20	19	R1042236.D	1.	LCS-313930	LCS 8270_SIM_PAH_SC_W	22 Apr 2021 17:35
21	20	R1042237.D	1.	LCSD-313930	LCSD 8270_SIM_PAH_SC_W	22 Apr 2021 18:02
22	21	R1042238.D	1.	2104K29-001D	SAMP 8270_SIM_PAH_SC_W	22 Apr 2021 18:54
23	22	R1042239.D	1.	2104K29-002D	SAMP 8270_SIM_PAH_SC_W	22 Apr 2021 19:20
24	23	R1042240.D	1.	2104K29-003D	SAMP 8270_SIM_PAH_SC_W	22 Apr 2021 19:47
25	24	R1042241.D	1.	2104K29-004D	SAMP 8270_SIM_PAH_SC_W	22 Apr 2021 20:13
26	25	R1042242.D	1.	2104M08-001B	SAMP 8270_SIM_PAH_SC_W	22 Apr 2021 20:40
27	26	R1042243.D	1.	2104M08-002B	SAMP 8270_SIM_PAH_SC_W	22 Apr 2021 21:05
28	18	R1042290.D	1.	MB-313930	MBLK 8270_SIM_PAH_SC_W	22 Apr 2021 18:28

Calibration Status Report Instrument #10

Method Path : C:\msdchem\1\METHODS\
Method File : B042221.M
Title : MS-10 BNA CURVE 8270E/625
Last Update : Fri Apr 23 14:54:46 2021
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	160	160	40	C:\msdchem\1\DATA\R210422\R1042218.D
2	60	60	40	C:\msdchem\1\DATA\R210422\R1042213.D
3	40	40	40	C:\msdchem\1\DATA\R210422\R1042212.D
4	120	120	40	C:\msdchem\1\DATA\R210422\R1042217.D
5	80	80	40	C:\msdchem\1\DATA\R210422\R1042214.D
6	10	10	40	C:\msdchem\1\DATA\R210422\R1042210.D
7	20	20	40	C:\msdchem\1\DATA\R210422\R1042211.D
8	5	-1	40	C:\msdchem\1\DATA\R210422\R1042219.D

#	ID	Update Time	Quant Time	Acquisition Time
1	160	Apr 23 14:52 2021	Apr 23 14:51 2021	22 Apr 2021 1:51 pm
2	60	Apr 23 14:43 2021	Apr 23 14:42 2021	22 Apr 2021 11:35 am
3	40	Apr 23 14:41 2021	Apr 23 14:39 2021	22 Apr 2021 11:08 am
4	120	Apr 23 14:49 2021	Apr 23 14:48 2021	22 Apr 2021 1:22 pm
5	80	Apr 23 14:46 2021	Apr 23 14:45 2021	22 Apr 2021 12:56 pm
6	10	Apr 22 14:34 2021	Apr 22 14:27 2021	22 Apr 2021 10:12 am
7	20	Apr 23 14:39 2021	Apr 23 14:37 2021	22 Apr 2021 10:40 am
8	5	Apr 23 14:54 2021	Apr 23 14:54 2021	22 Apr 2021 2:18 pm

B042221.M Fri Apr 23 14:56:27 2021

Area Percent Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042205.D
Acq On : 22 Apr 2021 9:46 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\DFTPP.M
Title :

Signal : TIC: R1042205.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.735	119	121	137	rVB2	37278	59313	1.51%	0.485%
2	4.027	544	550	555	rBV	57359	52100	1.33%	0.426%
3	5.522	823	830	838	rVB	50608	39246	1.00%	0.321%
4	9.470	1560	1569	1581	rBV	2487810	2120310	54.16%	17.331%
5	10.095	1678	1686	1693	rVB	2689925	2349016	60.00%	19.201%
6	11.201	1884	1893	1916	rBV	3330958	3915061	100.00%	32.001%
7	12.125	2060	2066	2073	rBV	3842195	3699064	94.48%	30.236%

Sum of corrected areas: 12234110

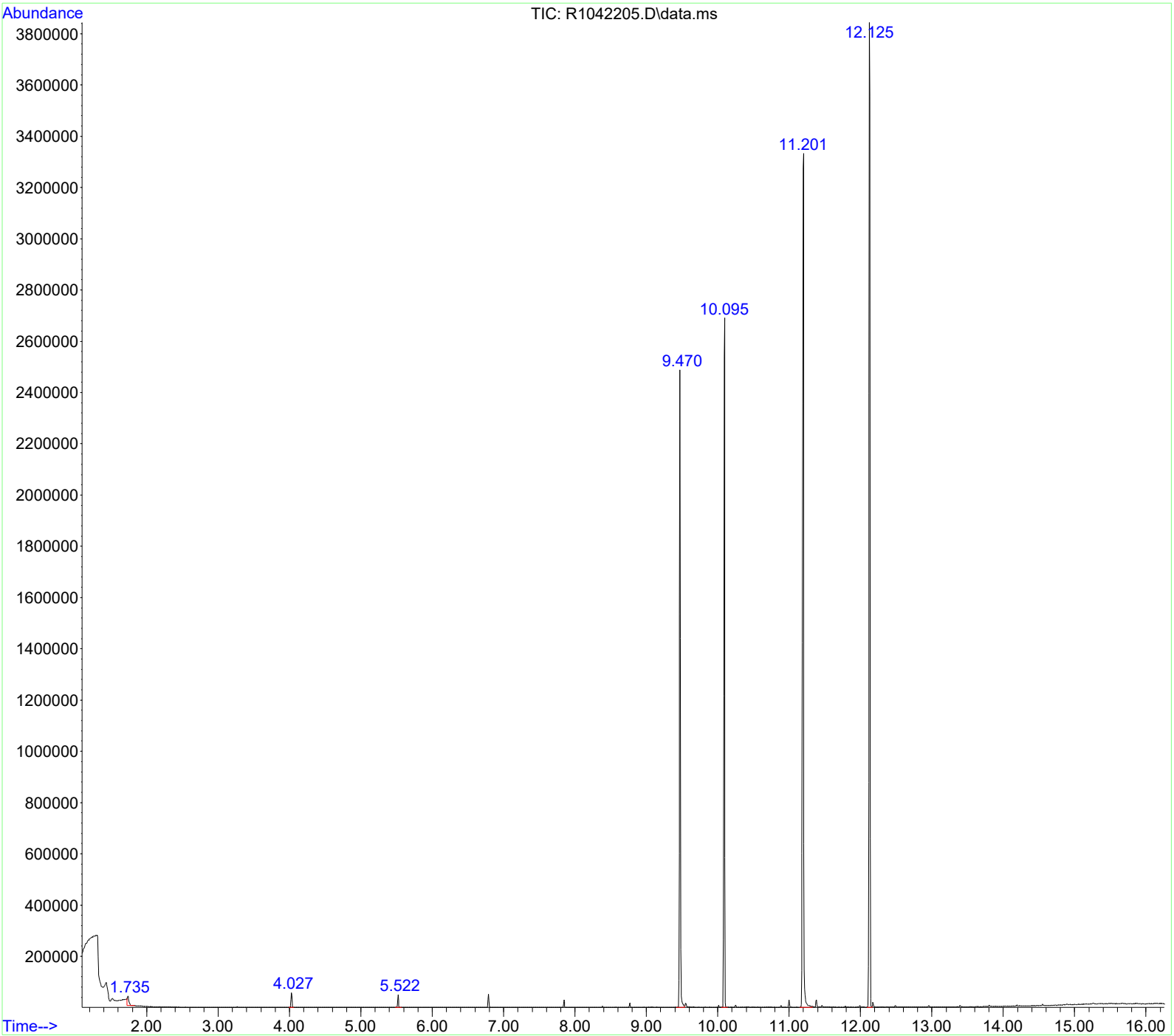
Area Percent Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042205.D
Acq On : 22 Apr 2021 9:46 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\DFTPP.M
Title :



Library Search Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042205.D
Acq On : 22 Apr 2021 9:46 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

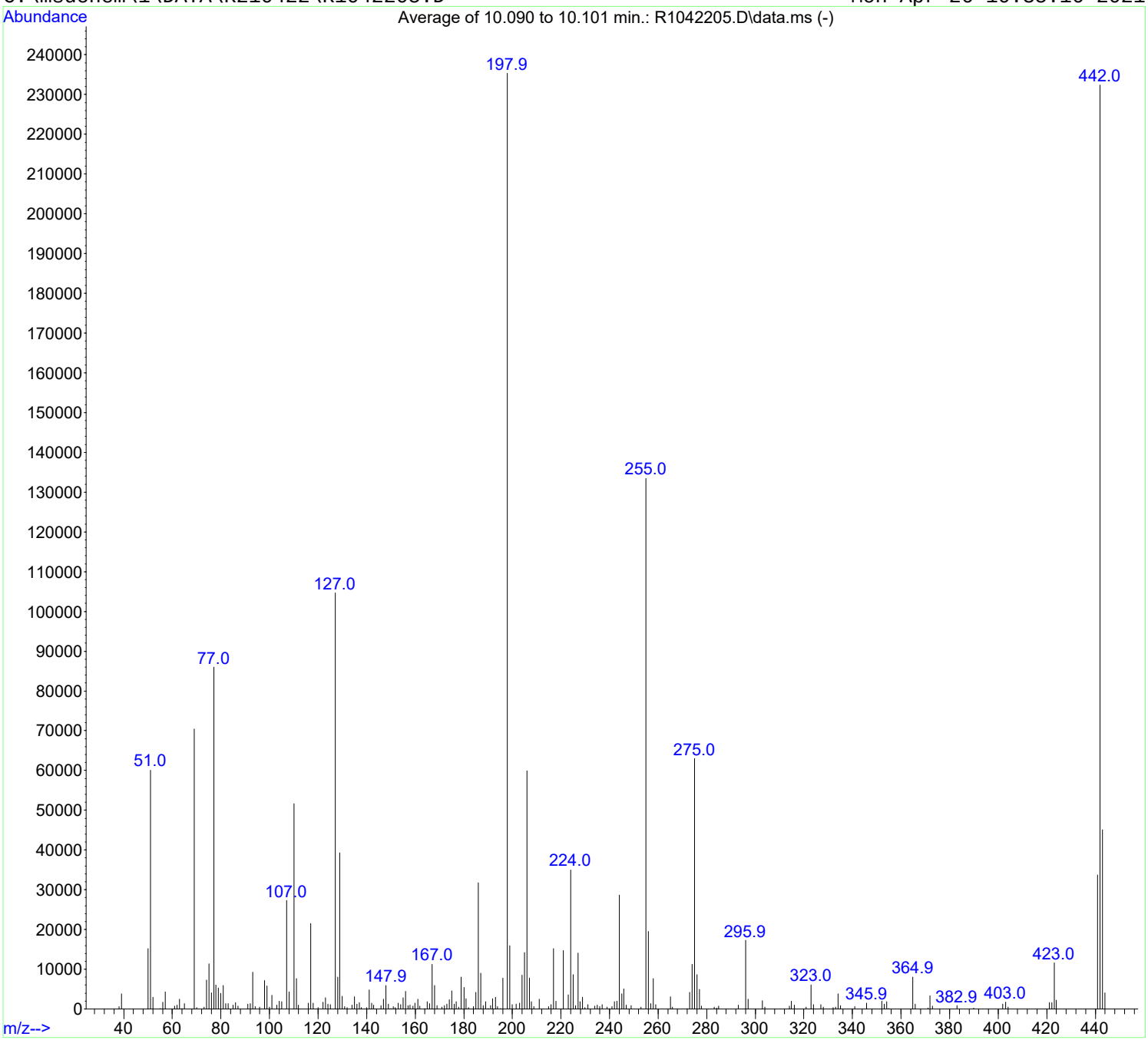
Search Libraries: C:\Database\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Events: RTE Integrator - RTEINT.P

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.735	0.48	C:\Database\NIST14.L			
			Methylene chloride	1541	000075-09-2	87
			Methylene chloride	1542	000075-09-2	87
			Methylene chloride	1544	000075-09-2	80
2	4.027	0.43	C:\Database\NIST14.L			
			Cyclotetrasiloxane, octamethyl-	155950	000556-67-2	91
			Cyclotetrasiloxane, octamethyl-	155949	000556-67-2	78
			Cyclotetrasiloxane, octamethyl-	155951	000556-67-2	78
3	5.522	0.32	C:\Database\NIST14.L			
			Cyclopentasiloxane, decamethyl-	220036	000541-02-6	72
			3-Amino-2-phenazinol ditms	209406	1000332-15-5	43
			N-(Trifluoroacetyl)-N,O,O',O''-tetrakis(trimethylsilyl)norepinephrin	271041	1000072-26-7	38
4	9.470	17.33	C:\Database\NIST14.L			
			Phenol, pentachloro-	125064	000087-86-5	99
			Phenol, pentachloro-	125062	000087-86-5	99
			Phenol, pentachloro-	125063	000087-86-5	89
5	10.095	19.20	C:\Database\NIST14.L			
			Bis(pentafluorophenyl)phenyl phosphine	254406	005074-71-5	99
			Bis(pentafluorophenyl)phenyl phosphine	254407	005074-71-5	99
			3,4-Diphenyl(1H)anthra[1,2-d]-1,3-diazepine-2(3H),8,13-trione	254710	1000110-45-8	10
6	11.201	32.00	C:\Database\NIST14.L			
			Benzidine	51188	000092-87-5	96
			Benzidine	51192	000092-87-5	96
			Benzidine	51191	000092-87-5	94
7	12.125	30.24	C:\Database\NIST14.L			
			1,1-Dichloro-2,2-bis(p-chlorophenyl)ethane	176322	000072-54-8	97
			p,p'-DDT	206681	000050-29-3	94
			o,p'-DDT	206676	000789-02-6	94

DFTPP 625 Results

C:\msdchem\1\DATA\R210422\R1042205.D Mon Apr 26 10:35:16 2021



Peak Apex is scan: 1686
Average of 3 scans: 1685,1686,1687 minus background scan 1679

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	Relative Abundance,%	Result Pass/Fail
51	198	30	60	25.5	FAIL*
68	69	0	2	0.0	PASS
69	198	0	100	29.9	PASS
70	69	0	2	0.6	PASS
127	198	40	60	44.4	PASS
197	198	0	1	0.0	PASS
198	198	100	100	100.0	PASS
199	198	5	9	6.8	PASS
275	198	10	30	26.8	PASS
365	198	1	100	3.4	PASS
441	443	0	100	74.7	PASS
442	198	40	100	98.8	PASS
443	442	17	23	19.4	PASS

DFTPP

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042205.D
Acq On : 22 Apr 2021 9:46 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\DFTPP.M
Title :
Last Update : Mon Oct 15 09:26:34 1990

Spectrum Information: Scan 1685

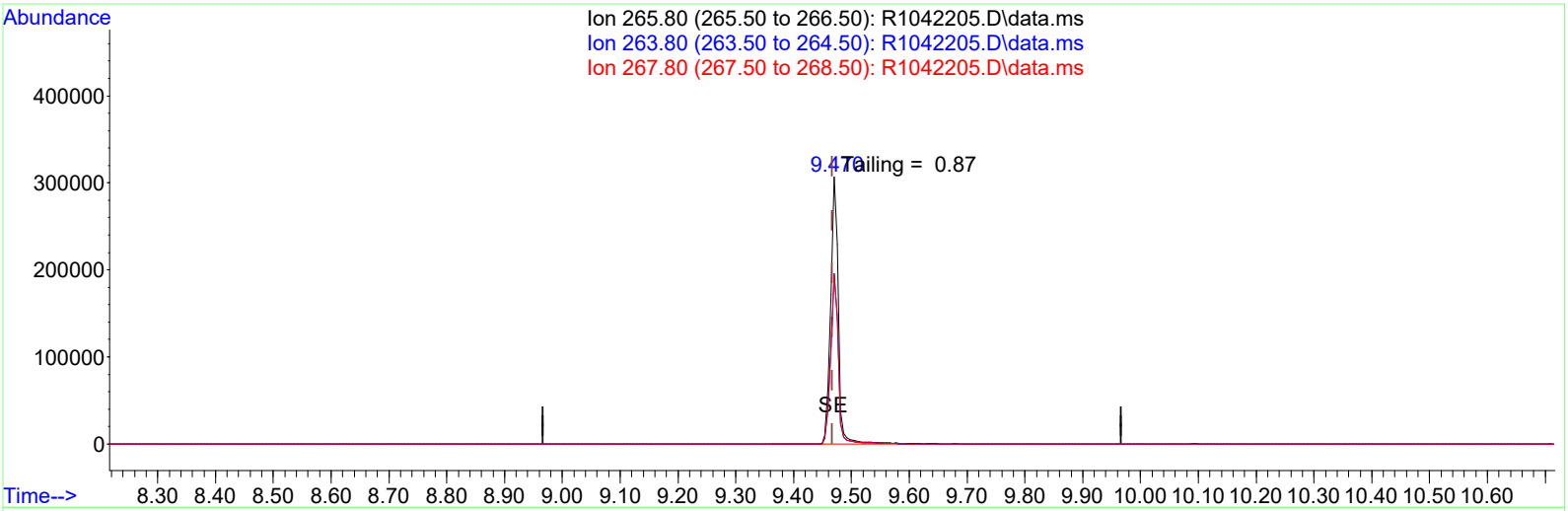
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	30.9	98240	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	35.1	111592	PASS
70	69	0.00	2	0.6	643	PASS
127	198	40	60	49.0	155648	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	317888	PASS
199	198	5	9	7.1	22512	PASS
275	198	10	30	23.7	75280	PASS
365	198	1	100	2.6	8322	PASS
441	443	0.01	100	72.0	29472	PASS
442	198	40	100	63.4	201536	PASS
443	442	17	23	20.3	40952	PASS

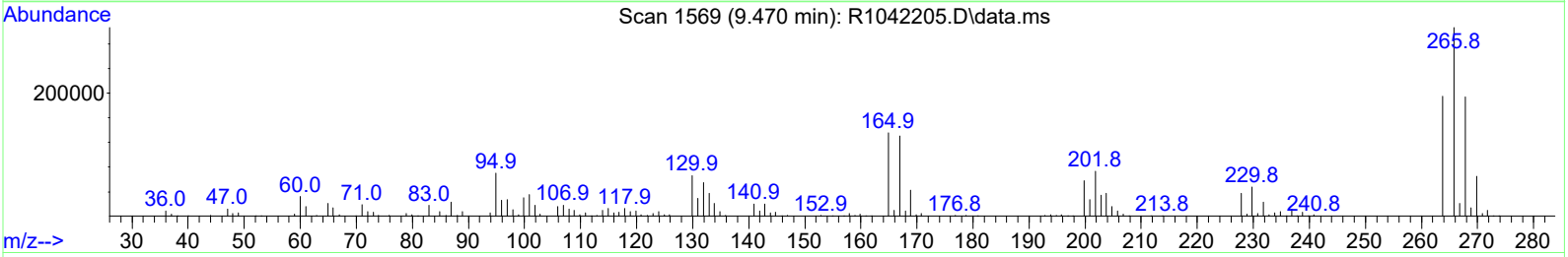
DFTPP.M Mon Apr 26 10:35:57 2021

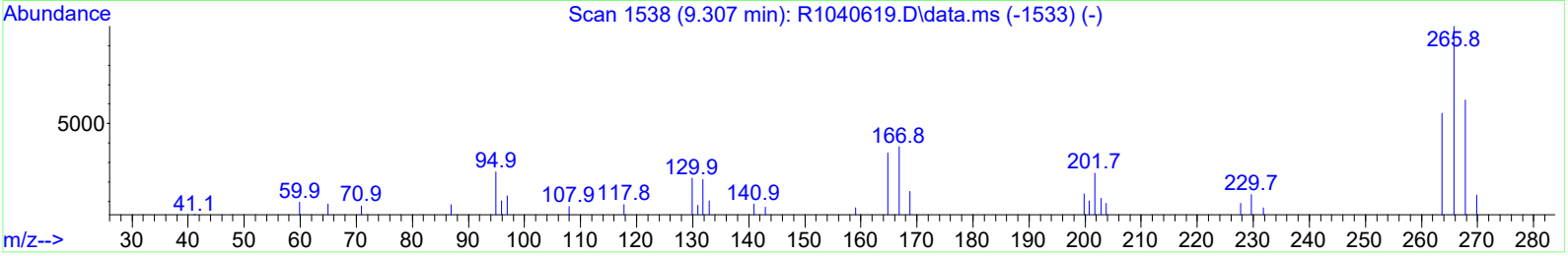
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042205.D
Acq On : 22 Apr 2021 9:46 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 26 10:33:40 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration







TIC: R1042205.D\data.ms

(84) Pentachlorophenol (CCC)

9.470min (+0.003) 81436.72 ng

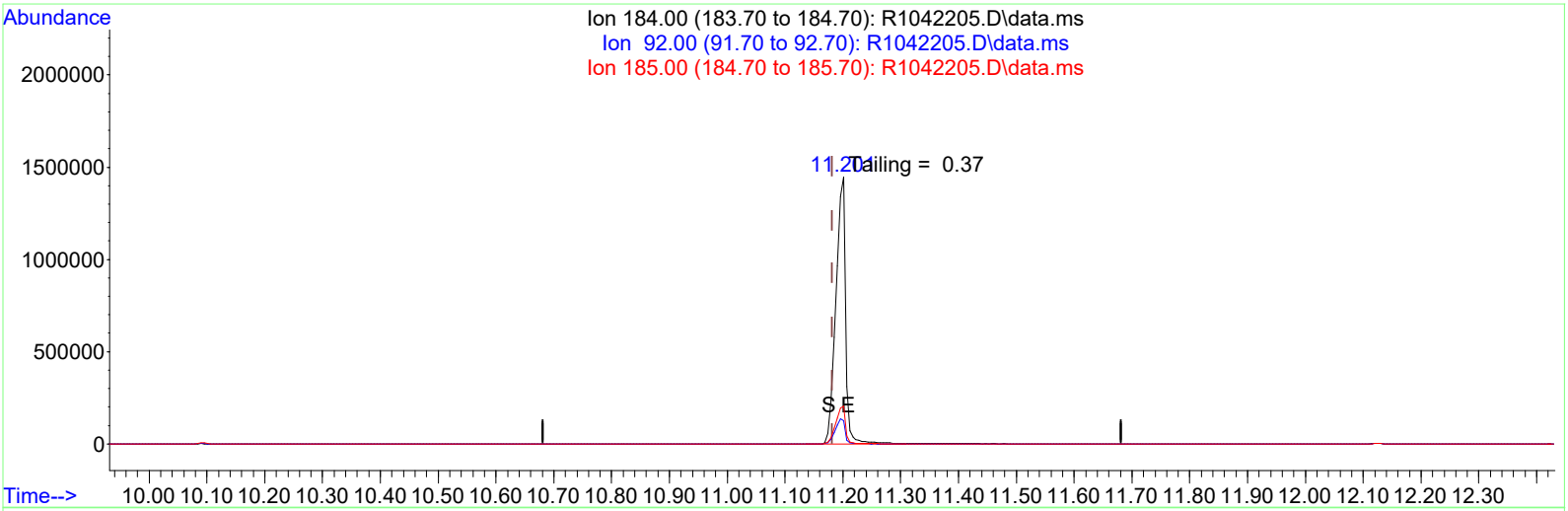
response 278475

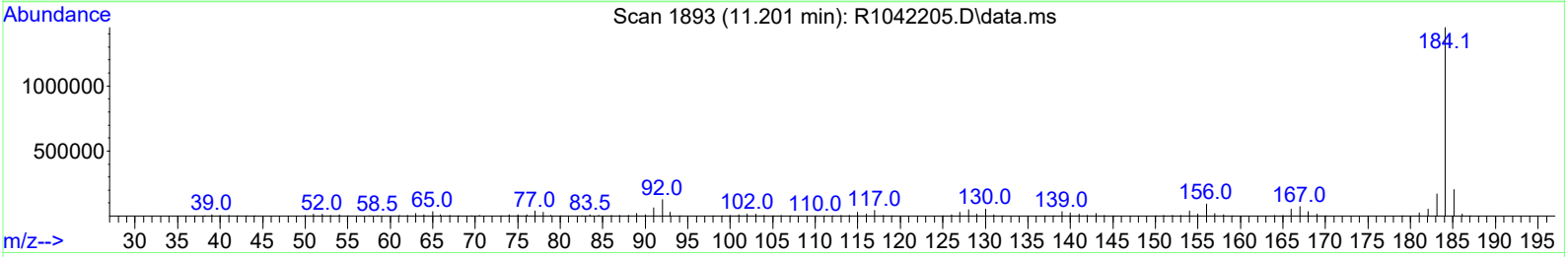
Ion	Exp%	Act%
265.80	100	100
263.80	63.40	63.56
267.80	64.10	63.42
0.00	0.00	0.00

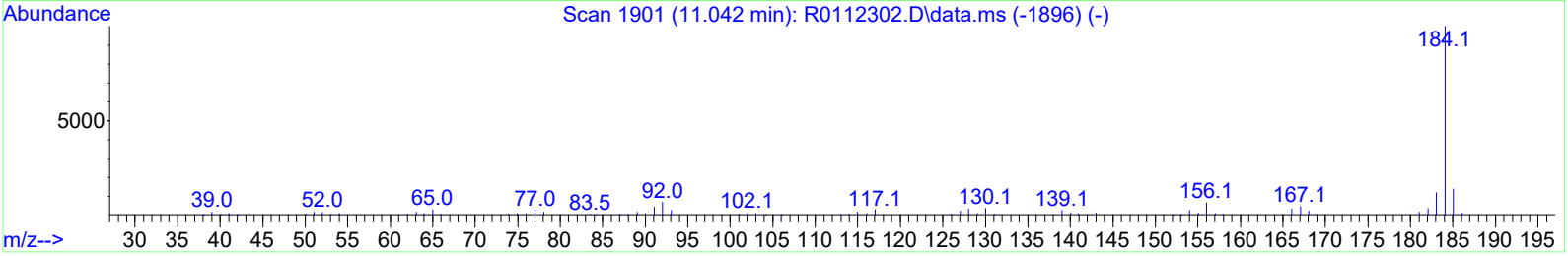
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042205.D
Acq On : 22 Apr 2021 9:46 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 26 10:33:40 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration







TIC: R1042205.D\data.ms

(95) Benzidine (T)

11.201min (+0.019) 0.00 ng

response 1668426

Ion	Exp%	Act%
184.00	100	100
92.00	9.00	9.59
185.00	14.80	14.27
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	97	0.00
2		Pyridine	40.000	37.780	5.5	88	-0.01
3	T	2-Picoline	40.000	24.180	39.6#	57	-0.02
4	T	Methyl methanesulfonate	40.000	21.989	45.0#	53	0.00
5	S	2-Fluorophenol	40.000	39.111	2.2	94	0.00
6	T	Ethyl methanesulfonate	40.000	35.759	10.6	86	0.00
7	C	Benzaldehyde	40.000	46.994	-17.5#	111	0.00
8	T	Aniline	40.000	36.091	9.8	88	0.00
9	S	Phenol-d5	40.000	38.973	2.6	93	0.00
10	C	Phenol	40.000	37.289	6.8#	89	0.00
11	T	Bis(2-chloroethyl)ether	40.000	39.387	1.5	93	0.00
12	T	2-Chlorophenol	40.000	38.006	5.0	92	0.00
13	T	1,3-Dichlorobenzene	40.000	37.929	5.2	90	0.00
14	CCC	1,4-Dichlorobenzene	40.000	38.661	3.3	93	0.00
15	T	1,2-Dichlorobenzene	40.000	38.159	4.6	90	0.00
16	T	Benzyl alcohol	40.000	38.066	4.8	91	0.00
17	T	Bis(2-chloroisopropyl)ether	40.000	33.249	16.9	77	0.00
18	T	2-Methylphenol	40.000	39.160	2.1	93	0.00
19	T	3,4-Methylphenol	80.000	86.193	-7.7	102	0.01
20	PC	N-Nitrosodi-n-propylamine	40.000	36.771	8.1	87	0.00
21	T	N-Nitrosodimethylamine	40.000	38.557	3.6	90	0.00
22	T	Hexachloroethane	40.000	38.493	3.8	92	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	99	0.00
24	S	Nitrobenzene-d5	40.000	38.888	2.8	95	0.00
25	T	Acetophenone	80.000	40.413	49.5#	49	0.00
26	M	Nitrobenzene	40.000	39.024	2.4	95	0.00
27	T	N-Nitrosopiperidine	40.000	39.381	1.5	97	0.00
28	T	Isophorone	40.000	38.085	4.8	92	0.00
29	CCC	2-Nitrophenol	40.000	40.289	-0.7	101	0.00
30	T	2,4-Dimethylphenol	40.000	38.084	4.8	92	0.00
31	T	Bis(2-chloroethoxy)methane	40.000	38.904	2.7	93	0.00
32	CCC	2,4-Dichlorophenol	40.000	39.461	1.3	95	0.00
33	T	1,2,4-Trichlorobenzene	40.000	38.857	2.9	94	0.00
34	T	Naphthalene	40.000	40.003	-0.0	96	0.00
35	T	Benzoic acid	40.000	45.106	-12.8	139	0.02
36	T	2,6-Dichlorophenol	40.000	38.607	3.5	94	0.00
37	T	4-Chloroaniline	40.000	38.429	3.9	92	0.00
38	CCC	Hexachlorobutadiene	40.000	37.892	5.3	91	0.00
39	T	a,a-Dimethylphenethylamine	40.000	37.625	5.9	91	0.03
40		Caprolactam	40.000	47.300	-18.2	116	0.06
41	CCC	4-Chloro-3-methylphenol	40.000	38.389	4.0	94	0.00
42	T	N-Nitroso-di-n-butylamine	40.000	46.249	-15.6	98	0.00
43	T	2-Methylnaphthalene	40.000	38.325	4.2	92	0.00
44	T	1-Methylnaphthalene	40.000	39.172	2.1	94	0.00
45	I	Acenaphthene-d10	40.000	40.000	0.0	100	0.00
46	T	1,2,4,5-Tetrachlorobenzene	40.000	38.612	3.5	94	0.00
47	PC	Hexachlorocyclopentadiene	40.000	30.344	24.1	75	0.00
48	CCC	2,4,6-Trichlorophenol	40.000	38.097	4.8	96	0.00
49	T	2,4,5-Trichlorophenol	40.000	38.587	3.5	95	0.00
50	S	2-Fluorobiphenyl	40.000	39.499	1.3	96	0.00
51		Biphenyl	40.000	45.221	-13.1	107	0.00

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	2-Chloronaphthalene	40.000	44.429	-11.1	111	0.00
53	T	1-Chloronaphthalene	40.000	32.728	18.2	76	0.00
54	T	2-Nitroaniline	40.000	39.278	1.8	98	0.00
55	T	3-Nitroaniline	40.000	38.822	2.9	98	0.00
56	T	Pentachlorobenzene	40.000	39.857	0.4	99	0.00
57	T	4-Nitroaniline	40.000	40.024	-0.1	100	0.01
58	T	2-Naphthylamine	40.000	34.981	12.5	85	0.00
59	T	1-Naphthylamine	40.000	33.197	17.0	81	0.00
60	T	Dimethyl phthalate	40.000	38.854	2.9	96	0.00
61	T	Acenaphthylene	40.000	38.643	3.4	93	0.00
62	T	2,6-Dinitrotoluene	40.000	40.017	-0.0	102	0.00
63	CCC	Acenaphthene	40.000	40.216	-0.5	98	0.00
64	PC	2,4-Dinitrophenol	40.000	39.299	1.8	100	0.00
65	T	Dibenzofuran	40.000	39.689	0.8	96	0.00
66	PC	4-Nitrophenol	40.000	38.045	4.9	98	0.00
67	M	2,4-Dinitrotoluene	40.000	38.632	3.4	98	0.00
68	T	2,3,4,6-Tetrachlorophenol	40.000	39.378	1.6	100	0.00
69	T	Diethyl phthalate	40.000	39.009	2.5	96	0.00
70	T	Fluorene	40.000	38.148	4.6	93	0.00
71	T	4-Chlorophenyl phenyl ether	40.000	38.820	2.9	97	0.00
72	S	2,4,6-Tribromophenol	40.000	38.812	3.0	99	0.00
73	I	Phenanthrene-d10	40.000	40.000	0.0	100	0.00
74	T	4,6-Dinitro-2-methylphenol	40.000	36.528	8.7	97	0.01
75	T	Azobenzene	40.000	41.950	-4.9	103	0.00
76	T	1,2-Diphenylhydrazine	40.000	42.296	-5.7	104	0.00
77	CCC	Diphenylamine	40.000	45.392	-13.5	110	0.00
78	T	N-Nitrosodiphenylamine	40.000	45.366	-13.4	110	0.00
79	T	4-Bromophenyl phenyl ether	40.000	38.574	3.6	96	0.00
80	T	Phenacetin	40.000	40.869	-2.2	99	0.01
81	T	Hexachlorobenzene	40.000	37.989	5.0	95	0.00
82		Atrazine	40.000	47.890	-19.7	117	0.01
83	T	4-Aminobiphenyl	40.000	37.691	5.8	90	0.00
84	CCC	Pentachlorophenol	40.000	35.188	12.0	90	0.00
85	T	Pentachloronitrobenzene	40.000	40.689	-1.7	100	0.00
86	T	Pronamide	40.000	44.314	-10.8	108	0.00
87	T	Phenanthrene	40.000	39.102	2.2	95	0.00
88	T	Anthracene	40.000	34.871	12.8	84	0.00
89	T	Carbazole	40.000	47.891	-19.7	116	0.00
90	T	Di-n-butyl phthalate	40.000	38.635	3.4	93	0.00
91	CCC	Fluoranthene	40.000	39.364	1.6	96	0.00
92	I	Chrysene-d12	40.000	40.000	0.0	102	0.00
93	T	Pyrene	40.000	38.772	3.1	98	0.00
94	S	4-Terphenyl-d14	40.000	38.926	2.7	99	0.00
95	T	Benzidine	40.000	35.887	10.3	85	0.00
96	T	p-Dimethylaminoazobenzene	40.000	38.306	4.2	98	0.00
97	T	Butyl benzyl phthalate	40.000	37.511	6.2	97	0.00
98	T	Benz(a)anthracene	40.000	37.884	5.3	96	0.00
99	T	3,3'-Dichlorobenzidine	40.000	38.495	3.8	93	0.00
100	T	Chrysene	40.000	37.498	6.3	95	0.00
101	T	Bis(2-ethylhexyl)phthalate	40.000	39.531	1.2	98	0.00
102	CCC	Di-n-octyl phthalate	40.000	37.085	7.3	96	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	40.000	50.012	-25.0#	131	0.00
104	T	Indeno[1,2,3-cd]pyrene	40.000	37.176	7.1	96	0.00
105	I	Perylene-d12	40.000	40.000	0.0	116	0.00
106	T	Benzo[b]fluoranthene	40.000	33.687	15.8	98	0.00
107	T	Benzo[k]fluoranthene	40.000	36.205	9.5	97	0.00
108	CCC	Benzo[a]pyrene	40.000	33.860	15.4	98	0.00
109	T	Dibenz(a,j)acridine	40.000	31.123	22.2#	91	0.00
110	T	Dibenz(a,h)anthracene	40.000	34.025	14.9	97	0.00
111	T	Benzo[g,h,i]perylene	40.000	34.519	13.7	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 2

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
2		Pyridine	1.534	1.449	5.5	88	-0.01
3	T	2-Picoline	1.557	0.941	39.6#	57	-0.02
4	T	Methyl methanesulfonate	0.651	0.358	45.0#	53	0.00
5	S	2-Fluorophenol	1.248	1.220	2.2	94	0.00
6	T	Ethyl methanesulfonate	1.016	0.908	10.6	86	0.00
7	C	Benzaldehyde	0.809	0.951	-17.6#	111	0.00
8	T	Aniline	0.769	0.693	9.9	88	0.00
9	S	Phenol-d5	1.515	1.476	2.6	93	0.00
10	C	Phenol	1.838	1.714	6.7#	89	0.00
11	T	Bis(2-chloroethyl)ether	1.304	1.284	1.5	93	0.00
12	T	2-Chlorophenol	1.407	1.337	5.0	92	0.00
13	T	1,3-Dichlorobenzene	1.605	1.522	5.2	90	0.00
14	CCC	1,4-Dichlorobenzene	1.623	1.568	3.4	93	0.00
15	T	1,2-Dichlorobenzene	1.512	1.442	4.6	90	0.00
16	T	Benzyl alcohol	0.904	0.860	4.9	91	0.00
17	T	Bis(2-chloroisopropyl)ether	1.364	1.133	16.9	77	0.00
18	T	2-Methylphenol	1.058	1.036	2.1	93	0.00
19	T	3,4-Methylphenol	1.376	1.482	-7.7	102	0.01
20	PC	N-Nitrosodi-n-propylamine	0.868	0.798	8.1	87	0.00
21	T	N-Nitrosodimethylamine	0.471	0.454	3.6	90	0.00
22	T	Hexachloroethane	0.572	0.551	3.7	92	0.00
23	I	Naphthalene-d8	1.000	1.000	0.0	99	0.00
24	S	Nitrobenzene-d5	0.310	0.301	2.9	95	0.00
25	T	Acetophenone	0.454	0.229	49.6#	49#	0.00
26	M	Nitrobenzene	0.175	0.171	2.3	95	0.00
27	T	N-Nitrosopiperidine	0.173	0.170	1.7	97	0.00
28	T	Isophorone	0.639	0.608	4.9	92	0.00
29	CCC	2-Nitrophenol	0.168	0.169	-0.6	101	0.00
30	T	2,4-Dimethylphenol	0.310	0.295	4.8	92	0.00
31	T	Bis(2-chloroethoxy)methane	0.402	0.391	2.7	93	0.00
32	CCC	2,4-Dichlorophenol	0.297	0.293	1.3	95	0.00
33	T	1,2,4-Trichlorobenzene	0.335	0.325	3.0	94	0.00
34	T	Naphthalene	1.048	1.048	0.0	96	0.00
35	T	Benzoic acid	0.060	0.026	56.7#	139	0.02
36	T	2,6-Dichlorophenol	0.289	0.279	3.5	94	0.00
37	T	4-Chloroaniline	0.440	0.423	3.9	92	0.00
38	CCC	Hexachlorobutadiene	0.191	0.181	5.2	91	0.00
39	T	a,a-Dimethylphenethylamine	0.802	0.754	6.0	91	0.03
40		Caprolactam	0.113	0.133	-17.7	116	0.06
41	CCC	4-Chloro-3-methylphenol	0.283	0.272	3.9	94	0.00
42	T	N-Nitroso-di-n-butylamine	0.250	0.289	-15.6	98	0.00
43	T	2-Methylnaphthalene	0.607	0.582	4.1	92	0.00
44	T	1-Methylnaphthalene	0.597	0.584	2.2	94	0.00
45	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
46	T	1,2,4,5-Tetrachlorobenzene	0.553	0.534	3.4	94	0.00
47	PC	Hexachlorocyclopentadiene	0.305	0.231	24.3	75	0.00
48	CCC	2,4,6-Trichlorophenol	0.356	0.339	4.8	96	0.00
49	T	2,4,5-Trichlorophenol	0.399	0.385	3.5	95	0.00
50	S	2-Fluorobiphenyl	1.292	1.276	1.2	96	0.00
51		Biphenyl	1.390	1.571	-13.0	107	0.00

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	T	2-Chloronaphthalene	1.166	1.295	-11.1	111	0.00
53	T	1-Chloronaphthalene	1.054	0.862	18.2	76	0.00
54	T	2-Nitroaniline	0.274	0.269	1.8	98	0.00
55	T	3-Nitroaniline	0.324	0.314	3.1	98	0.00
56	T	Pentachlorobenzene	0.488	0.486	0.4	99	0.00
57	T	4-Nitroaniline	0.336	0.336	0.0	100	0.01
58	T	2-Naphthylamine	1.172	1.025	12.5	85	0.00
59	T	1-Naphthylamine	1.253	1.040	17.0	81	0.00
60	T	Dimethyl phthalate	1.263	1.227	2.9	96	0.00
61	T	Acenaphthylene	1.746	1.686	3.4	93	0.00
62	T	2,6-Dinitrotoluene	0.264	0.264	0.0	102	0.00
63	CCC	Acenaphthene	1.058	1.064	-0.6	98	0.00
64	PC	2,4-Dinitrophenol	0.100	0.077	23.0	100	0.00
65	T	Dibenzofuran	1.626	1.613	0.8	96	0.00
66	PC	4-Nitrophenol	0.158	0.151	4.4	98	0.00
67	M	2,4-Dinitrotoluene	0.367	0.355	3.3	98	0.00
68	T	2,3,4,6-Tetrachlorophenol	0.281	0.276	1.8	100	0.00
69	T	Diethyl phthalate	1.224	1.194	2.5	96	0.00
70	T	Fluorene	1.353	1.290	4.7	93	0.00
71	T	4-Chlorophenyl phenyl ether	0.650	0.631	2.9	97	0.00
72	S	2,4,6-Tribromophenol	0.155	0.150	3.2	99	0.00
73	I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
74	T	4,6-Dinitro-2-methylphenol	0.091	0.080	12.1	97	0.01
75	T	Azobenzene	0.636	0.667	-4.9	103	0.00
76	T	1,2-Diphenylhydrazine	0.194	0.205	-5.7	104	0.00
77	CCC	Diphenylamine	0.135	0.154	-14.1	110	0.00
78	T	N-Nitrosodiphenylamine	0.639	0.725	-13.5	110	0.00
79	T	4-Bromophenyl phenyl ether	0.215	0.207	3.7	96	0.00
80	T	Phenacetin	0.327	0.334	-2.1	99	0.01
81	T	Hexachlorobenzene	0.230	0.219	4.8	95	0.00
82		Atrazine	0.200	0.239	-19.5	117	0.01
83	T	4-Aminobiphenyl	0.809	0.762	5.8	90	0.00
84	CCC	Pentachlorophenol	0.127	0.112	11.8	90	0.00
85	T	Pentachloronitrobenzene	0.084	0.085	-1.2	100	0.00
86	T	Pronamide	0.291	0.322	-10.7	108	0.00
87	T	Phenanthrene	1.090	1.065	2.3	95	0.00
88	T	Anthracene	1.096	0.955	12.9	84	0.00
89	T	Carbazole	0.983	1.177	-19.7	116	0.00
90	T	Di-n-butyl phthalate	1.167	1.127	3.4	93	0.00
91	CCC	Fluoranthene	1.213	1.194	1.6	96	0.00
92	I	Chrysene-d12	1.000	1.000	0.0	102	0.00
93	T	Pyrene	1.391	1.348	3.1	98	0.00
94	S	4-Terphenyl-d14	0.989	0.962	2.7	99	0.00
95	T	Benzidine	0.520	0.467	10.2	85	0.00
96	T	p-Dimethylaminoazobenzene	0.276	0.264	4.3	98	0.00
97	T	Butyl benzyl phthalate	0.571	0.536	6.1	97	0.00
98	T	Benz(a)anthracene	1.304	1.235	5.3	96	0.00
99	T	3,3'-Dichlorobenzidine	0.475	0.457	3.8	93	0.00
100	T	Chrysene	1.353	1.269	6.2	95	0.00
101	T	Bis(2-ethylhexyl)phthalate	0.756	0.747	1.2	98	0.00
102	CCC	Di-n-octyl phthalate	1.264	1.172	7.3	96	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	0.443	0.554	-25.1#	131	0.00
104	T	Indeno[1,2,3-cd]pyrene	1.518	1.411	7.0	96	0.00
105	I	Perylene-d12	1.000	1.000	0.0	116	0.00
106	T	Benzo[b]fluoranthene	1.344	1.132	15.8	98	0.00
107	T	Benzo[k]fluoranthene	1.339	1.212	9.5	97	0.00
108	CCC	Benzo[a]pyrene	1.179	0.998	15.4	98	0.00
109	T	Dibenz(a,j)acridine	1.009	0.785	22.2#	91	0.00
110	T	Dibenz(a,h)anthracene	1.240	1.055	14.9	97	0.00
111	T	Benzo[g,h,i]perylene	1.264	1.091	13.7	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 2

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	108	0.00
2		Pyridine	80.000	72.215	9.7	98	-0.02
3	T	2-Picoline	80.000	67.775	15.3	91	-0.02
4	T	Methyl methanesulfonate	80.000	72.699	9.1	97	0.00
5	S	2-Fluorophenol	80.000	77.782	2.8	103	0.00
6	T	Ethyl methanesulfonate	80.000	71.411	10.7	95	0.00
7	C	Benzaldehyde	80.000	68.341	14.6#	115	0.00
8	T	Aniline	80.000	71.949	10.1	98	0.00
9	S	Phenol-d5	80.000	77.997	2.5	103	0.01
10	C	Phenol	80.000	73.985	7.5#	98	0.01
11	T	Bis(2-chloroethyl)ether	80.000	78.112	2.4	106	0.00
12	T	2-Chlorophenol	80.000	75.394	5.8	100	0.00
13	T	1,3-Dichlorobenzene	80.000	75.246	5.9	100	0.00
14	CCC	1,4-Dichlorobenzene	80.000	75.930	5.1	102	0.00
15	T	1,2-Dichlorobenzene	80.000	74.626	6.7	100	0.00
16	T	Benzyl alcohol	80.000	75.114	6.1	98	0.01
17	T	Bis(2-chloroisopropyl)ether	80.000	64.356	19.6	89	0.00
18	T	2-Methylphenol	80.000	77.585	3.0	103	0.00
19	T	3,4-Methylphenol	160.000	160.340	-0.2	105	0.02
20	PC	N-Nitrosodi-n-propylamine	80.000	73.341	8.3	95	0.01
21	T	N-Nitrosodimethylamine	80.000	75.576	5.5	103	0.00
22	T	Hexachloroethane	80.000	76.652	4.2	100	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	107	0.00
24	S	Nitrobenzene-d5	80.000	80.813	-1.0	104	0.00
25	T	Acetophenone	160.000	81.175	49.3#	54	0.00
26	M	Nitrobenzene	80.000	80.302	-0.4	103	0.00
27	T	N-Nitrosopiperidine	80.000	78.813	1.5	102	0.00
28	T	Isophorone	80.000	76.574	4.3	101	0.00
29	CCC	2-Nitrophenol	80.000	84.544	-5.7	103	0.00
30	T	2,4-Dimethylphenol	80.000	78.915	1.4	103	0.00
31	T	Bis(2-chloroethoxy)methane	80.000	78.182	2.3	103	0.00
32	CCC	2,4-Dichlorophenol	80.000	80.098	-0.1	102	0.00
33	T	1,2,4-Trichlorobenzene	80.000	78.915	1.4	103	0.00
34	T	Naphthalene	80.000	78.123	2.3	103	0.00
35	T	Benzoic acid	80.000	80.309	-0.4	111	0.07
36	T	2,6-Dichlorophenol	80.000	78.589	1.8	101	0.00
37	T	4-Chloroaniline	80.000	77.429	3.2	101	0.00
38	CCC	Hexachlorobutadiene	80.000	76.813	4.0	101	0.00
39	T	a,a-Dimethylphenethylamine	80.000	77.600	3.0	100	0.09
40		Caprolactam	80.000	97.223	-21.5#	123	0.10
41	CCC	4-Chloro-3-methylphenol	80.000	80.563	-0.7	103	0.02
42	T	N-Nitroso-di-n-butylamine	80.000	81.033	-1.3	93	0.00
43	T	2-Methylnaphthalene	80.000	76.336	4.6	100	0.00
44	T	1-Methylnaphthalene	80.000	77.669	2.9	103	0.00
45	I	Acenaphthene-d10	40.000	40.000	0.0	104	0.00
46	T	1,2,4,5-Tetrachlorobenzene	80.000	79.387	0.8	103	0.00
47	PC	Hexachlorocyclopentadiene	80.000	69.447	13.2	84	0.00
48	CCC	2,4,6-Trichlorophenol	80.000	81.391	-1.7	101	0.01
49	T	2,4,5-Trichlorophenol	80.000	81.908	-2.4	103	0.01
50	S	2-Fluorobiphenyl	80.000	80.213	-0.3	104	0.00
51		Biphenyl	80.000	87.394	-9.2	113	0.01

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	2-Chloronaphthalene	80.000	89.638	-12.0	120	0.01
53	T	1-Chloronaphthalene	80.000	64.944	18.8	81	0.01
54	T	2-Nitroaniline	80.000	83.513	-4.4	102	0.01
55	T	3-Nitroaniline	80.000	82.316	-2.9	100	0.01
56	T	Pentachlorobenzene	80.000	81.417	-1.8	105	0.00
57	T	4-Nitroaniline	80.000	84.588	-5.7	104	0.03
58	T	2-Naphthylamine	80.000	72.699	9.1	93	0.01
59	T	1-Naphthylamine	80.000	67.956	15.1	88	0.01
60	T	Dimethyl phthalate	80.000	79.952	0.1	103	0.01
61	T	Acenaphthylene	80.000	78.731	1.6	101	0.00
62	T	2,6-Dinitrotoluene	80.000	88.632	-10.8	106	0.01
63	CCC	Acenaphthene	80.000	80.953	-1.2	105	0.00
64	PC	2,4-Dinitrophenol	80.000	68.186	14.8	88	0.02
65	T	Dibenzofuran	80.000	79.680	0.4	104	0.00
66	PC	4-Nitrophenol	80.000	75.661	5.4	93	0.02
67	M	2,4-Dinitrotoluene	80.000	85.547	-6.9	101	0.01
68	T	2,3,4,6-Tetrachlorophenol	80.000	83.873	-4.8	101	0.01
69	T	Diethyl phthalate	80.000	80.453	-0.6	104	0.02
70	T	Fluorene	80.000	77.935	2.6	101	0.00
71	T	4-Chlorophenyl phenyl ether	80.000	80.087	-0.1	103	0.00
72	S	2,4,6-Tribromophenol	80.000	83.606	-4.5	101	0.01
73	I	Phenanthrene-d10	40.000	40.000	0.0	104	0.00
74	T	4,6-Dinitro-2-methylphenol	80.000	67.234	16.0	87	0.04
75	T	Azobenzene	80.000	85.480	-6.9	113	0.01
76	T	1,2-Diphenylhydrazine	80.000	88.465	-10.6	114	0.01
77	CCC	Diphenylamine	80.000	90.242	-12.8	115	0.02
78	T	N-Nitrosodiphenylamine	80.000	89.797	-12.2	116	0.02
79	T	4-Bromophenyl phenyl ether	80.000	78.965	1.3	100	0.00
80	T	Phenacetin	80.000	85.644	-7.1	105	0.03
81	T	Hexachlorobenzene	80.000	79.372	0.8	101	0.01
82		Atrazine	80.000	97.719	-22.1#	122	0.02
83	T	4-Aminobiphenyl	80.000	74.725	6.6	94	0.01
84	CCC	Pentachlorophenol	80.000	76.578	4.3	89	0.02
85	T	Pentachloronitrobenzene	80.000	85.465	-6.8	104	0.01
86	T	Pronamide	80.000	93.321	-16.7	116	0.02
87	T	Phenanthrene	80.000	78.091	2.4	101	0.01
88	T	Anthracene	80.000	70.375	12.0	90	0.00
89	T	Carbazole	80.000	96.805	-21.0#	124	0.01
90	T	Di-n-butyl phthalate	80.000	80.092	-0.1	100	0.00
91	CCC	Fluoranthene	80.000	80.476	-0.6	102	0.00
92	I	Chrysene-d12	40.000	40.000	0.0	106	0.01
93	T	Pyrene	80.000	77.357	3.3	102	0.01
94	S	4-Terphenyl-d14	80.000	79.351	0.8	103	0.00
95	T	Benzidine	80.000	77.457	3.2	104	0.00
96	T	p-Dimethylaminoazobenzene	80.000	81.410	-1.8	100	0.00
97	T	Butyl benzyl phthalate	80.000	80.281	-0.4	101	0.00
98	T	Benz(a)anthracene	80.000	78.606	1.7	101	0.00
99	T	3,3'-Dichlorobenzidine	80.000	81.002	-1.3	104	0.01
100	T	Chrysene	80.000	76.061	4.9	100	0.01
101	T	Bis(2-ethylhexyl)phthalate	80.000	84.772	-6.0	101	0.00
102	CCC	Di-n-octyl phthalate	80.000	82.584	-3.2	99	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	80.000	109.765	-37.2#	133	0.01
104	T	Indeno[1,2,3-cd]pyrene	80.000	82.184	-2.7	101	0.02
105	I	Perylene-d12	40.000	40.000	0.0	112	0.00
106	T	Benzo[b]fluoranthene	80.000	70.531	11.8	101	0.02
107	T	Benzo[k]fluoranthene	80.000	71.311	10.9	105	0.02
108	CCC	Benzo[a]pyrene	80.000	70.447	11.9	98	0.01
109	T	Dibenz(a,j)acridine	80.000	68.109	14.9	89	0.01
110	T	Dibenz(a,h)anthracene	80.000	72.160	9.8	100	0.02
111	T	Benzo[g,h,i]perylene	80.000	72.659	9.2	104	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 2

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00
2		Pyridine	1.534	1.385	9.7	98	-0.02
3	T	2-Picoline	1.557	1.319	15.3	91	-0.02
4	T	Methyl methanesulfonate	0.651	0.592	9.1	97	0.00
5	S	2-Fluorophenol	1.248	1.213	2.8	103	0.00
6	T	Ethyl methanesulfonate	1.016	0.907	10.7	95	0.00
7	C	Benzaldehyde	0.809	0.691	14.6#	115	0.00
8	T	Aniline	0.769	0.691	10.1	98	0.00
9	S	Phenol-d5	1.515	1.477	2.5	103	0.01
10	C	Phenol	1.838	1.700	7.5#	98	0.01
11	T	Bis(2-chloroethyl)ether	1.304	1.273	2.4	106	0.00
12	T	2-Chlorophenol	1.407	1.326	5.8	100	0.00
13	T	1,3-Dichlorobenzene	1.605	1.510	5.9	100	0.00
14	CCC	1,4-Dichlorobenzene	1.623	1.540	5.1	102	0.00
15	T	1,2-Dichlorobenzene	1.512	1.410	6.7	100	0.00
16	T	Benzyl alcohol	0.904	0.849	6.1	98	0.01
17	T	Bis(2-chloroisopropyl)ether	1.364	1.097	19.6	89	0.00
18	T	2-Methylphenol	1.058	1.026	3.0	103	0.00
19	T	3,4-Methylphenol	1.376	1.379	-0.2	105	0.02
20	PC	N-Nitrosodi-n-propylamine	0.868	0.796	8.3	95	0.01
21	T	N-Nitrosodimethylamine	0.471	0.445	5.5	103	0.00
22	T	Hexachloroethane	0.572	0.548	4.2	100	0.00
23	I	Naphthalene-d8	1.000	1.000	0.0	107	0.00
24	S	Nitrobenzene-d5	0.310	0.313	-1.0	104	0.00
25	T	Acetophenone	0.454	0.230	49.3#	54	0.00
26	M	Nitrobenzene	0.175	0.176	-0.6	103	0.00
27	T	N-Nitrosopiperidine	0.173	0.170	1.7	102	0.00
28	T	Isophorone	0.639	0.612	4.2	101	0.00
29	CCC	2-Nitrophenol	0.168	0.177	-5.4	103	0.00
30	T	2,4-Dimethylphenol	0.310	0.306	1.3	103	0.00
31	T	Bis(2-chloroethoxy)methane	0.402	0.393	2.2	103	0.00
32	CCC	2,4-Dichlorophenol	0.297	0.297	0.0	102	0.00
33	T	1,2,4-Trichlorobenzene	0.335	0.330	1.5	103	0.00
34	T	Naphthalene	1.048	1.023	2.4	103	0.00
35	T	Benzoic acid	0.060	0.065	-8.3	111	0.07
36	T	2,6-Dichlorophenol	0.289	0.284	1.7	101	0.00
37	T	4-Chloroaniline	0.440	0.426	3.2	101	0.00
38	CCC	Hexachlorobutadiene	0.191	0.183	4.2	101	0.00
39	T	a,a-Dimethylphenethylamine	0.802	0.777	3.1	100	0.09
40		Caprolactam	0.113	0.137	-21.2#	123	0.10
41	CCC	4-Chloro-3-methylphenol	0.283	0.285	-0.7	103	0.02
42	T	N-Nitroso-di-n-butylamine	0.250	0.253	-1.2	93	0.00
43	T	2-Methylnaphthalene	0.607	0.580	4.4	100	0.00
44	T	1-Methylnaphthalene	0.597	0.579	3.0	103	0.00
45	I	Acenaphthene-d10	1.000	1.000	0.0	104	0.00
46	T	1,2,4,5-Tetrachlorobenzene	0.553	0.549	0.7	103	0.00
47	PC	Hexachlorocyclopentadiene	0.305	0.265	13.1	84	0.00
48	CCC	2,4,6-Trichlorophenol	0.356	0.363	-2.0	101	0.01
49	T	2,4,5-Trichlorophenol	0.399	0.409	-2.5	103	0.01
50	S	2-Fluorobiphenyl	1.292	1.295	-0.2	104	0.00
51		Biphenyl	1.390	1.518	-9.2	113	0.01

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	T	2-Chloronaphthalene	1.166	1.306	-12.0	120	0.01
53	T	1-Chloronaphthalene	1.054	0.855	18.9	81	0.01
54	T	2-Nitroaniline	0.274	0.286	-4.4	102	0.01
55	T	3-Nitroaniline	0.324	0.333	-2.8	100	0.01
56	T	Pentachlorobenzene	0.488	0.497	-1.8	105	0.00
57	T	4-Nitroaniline	0.336	0.355	-5.7	104	0.03
58	T	2-Naphthylamine	1.172	1.065	9.1	93	0.01
59	T	1-Naphthylamine	1.253	1.064	15.1	88	0.01
60	T	Dimethyl phthalate	1.263	1.262	0.1	103	0.01
61	T	Acenaphthylene	1.746	1.718	1.6	101	0.00
62	T	2,6-Dinitrotoluene	0.264	0.293	-11.0	106	0.01
63	CCC	Acenaphthene	1.058	1.071	-1.2	105	0.00
64	PC	2,4-Dinitrophenol	0.100	0.095	5.0	88	0.02
65	T	Dibenzofuran	1.626	1.619	0.4	104	0.00
66	PC	4-Nitrophenol	0.158	0.150	5.1	93	0.02
67	M	2,4-Dinitrotoluene	0.367	0.393	-7.1	101	0.01
68	T	2,3,4,6-Tetrachlorophenol	0.281	0.294	-4.6	101	0.01
69	T	Diethyl phthalate	1.224	1.231	-0.6	104	0.02
70	T	Fluorene	1.353	1.318	2.6	101	0.00
71	T	4-Chlorophenyl phenyl ether	0.650	0.651	-0.2	103	0.00
72	S	2,4,6-Tribromophenol	0.155	0.162	-4.5	101	0.01
73	I	Phenanthrene-d10	1.000	1.000	0.0	104	0.00
74	T	4,6-Dinitro-2-methylphenol	0.091	0.092	-1.1	87	0.04
75	T	Azobenzene	0.636	0.679	-6.8	113	0.01
76	T	1,2-Diphenylhydrazine	0.194	0.215	-10.8	114	0.01
77	CCC	Diphenylamine	0.135	0.153	-13.3	115	0.02
78	T	N-Nitrosodiphenylamine	0.639	0.717	-12.2	116	0.02
79	T	4-Bromophenyl phenyl ether	0.215	0.212	1.4	100	0.00
80	T	Phenacetin	0.327	0.350	-7.0	105	0.03
81	T	Hexachlorobenzene	0.230	0.228	0.9	101	0.01
82		Atrazine	0.200	0.244	-22.0#	122	0.02
83	T	4-Aminobiphenyl	0.809	0.756	6.6	94	0.01
84	CCC	Pentachlorophenol	0.127	0.122	3.9	89	0.02
85	T	Pentachloronitrobenzene	0.084	0.089	-6.0	104	0.01
86	T	Pronamide	0.291	0.339	-16.5	116	0.02
87	T	Phenanthrene	1.090	1.064	2.4	101	0.01
88	T	Anthracene	1.096	0.964	12.0	90	0.00
89	T	Carbazole	0.983	1.190	-21.1#	124	0.01
90	T	Di-n-butyl phthalate	1.167	1.168	-0.1	100	0.00
91	CCC	Fluoranthene	1.213	1.220	-0.6	102	0.00
92	I	Chrysene-d12	1.000	1.000	0.0	106	0.01
93	T	Pyrene	1.391	1.345	3.3	102	0.01
94	S	4-Terphenyl-d14	0.989	0.981	0.8	103	0.00
95	T	Benzidine	0.520	0.504	3.1	104	0.00
96	T	p-Dimethylaminoazobenzene	0.276	0.281	-1.8	100	0.00
97	T	Butyl benzyl phthalate	0.571	0.573	-0.4	101	0.00
98	T	Benz(a)anthracene	1.304	1.281	1.8	101	0.00
99	T	3,3'-Dichlorobenzidine	0.475	0.481	-1.3	104	0.01
100	T	Chrysene	1.353	1.287	4.9	100	0.01
101	T	Bis(2-ethylhexyl)phthalate	0.756	0.801	-6.0	101	0.00
102	CCC	Di-n-octyl phthalate	1.264	1.305	-3.2	99	0.00

Evaluate Continuing Calibration Report

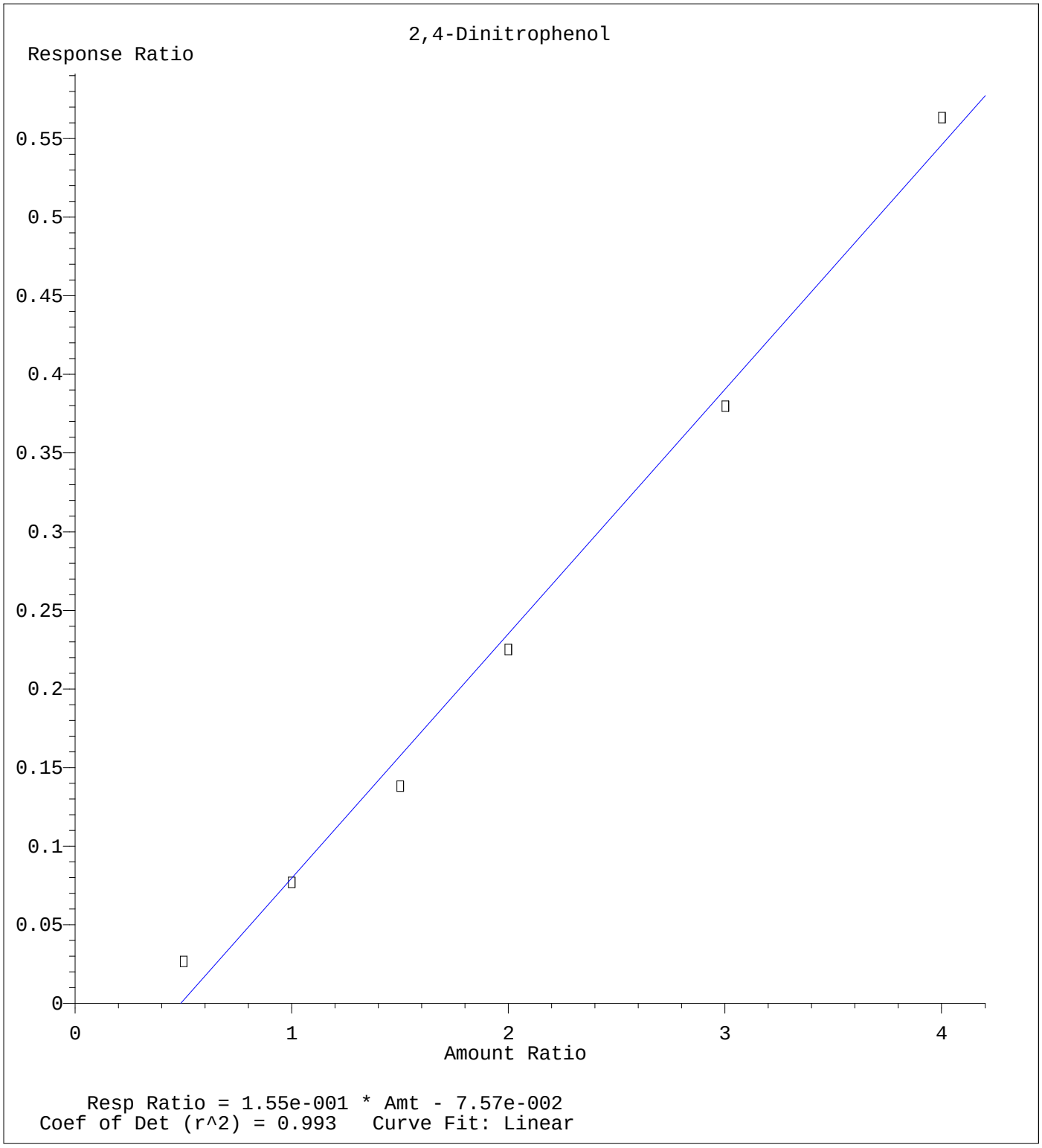
Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

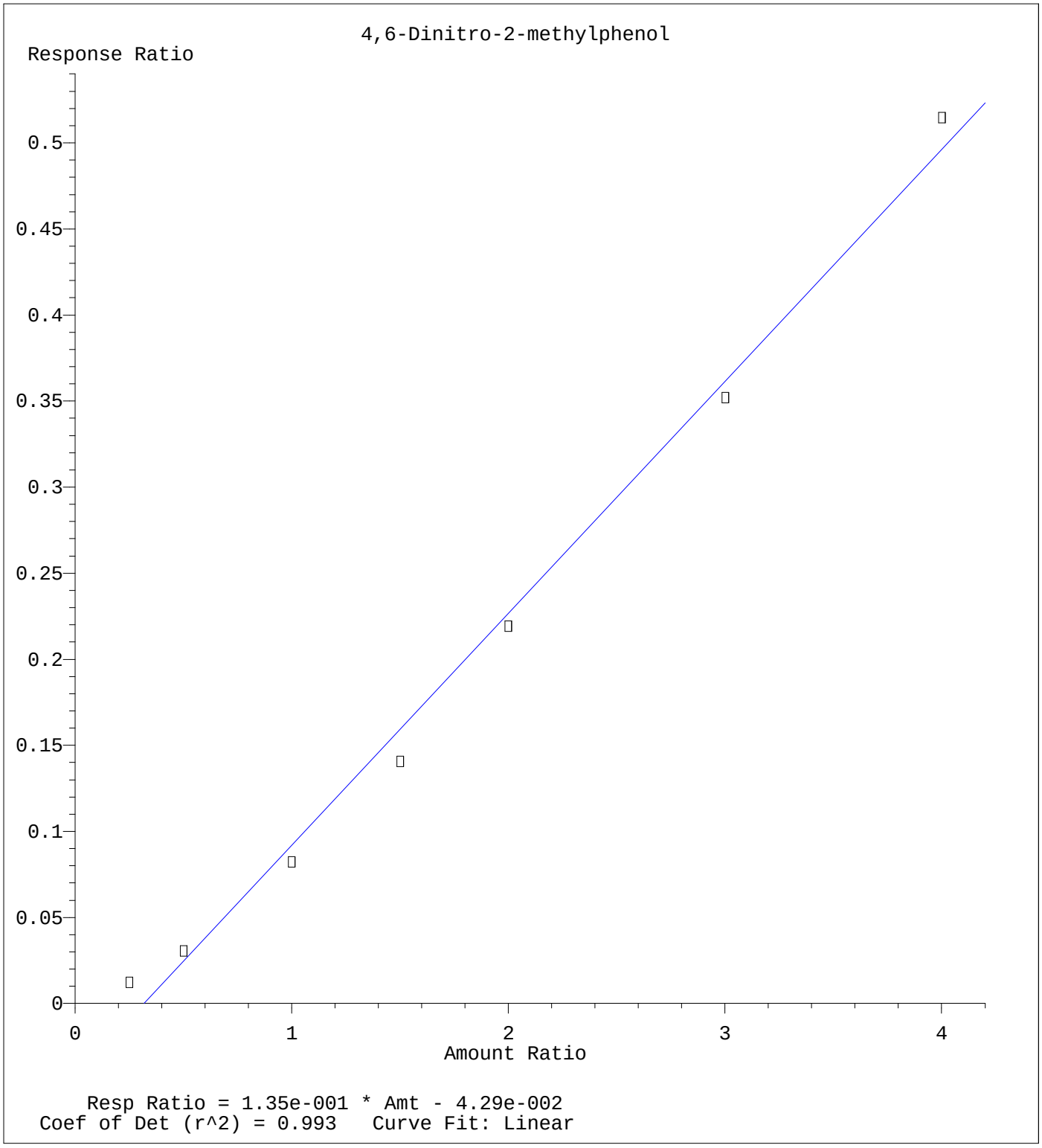
Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	0.443	0.608	-37.2#	133	0.01
104	T	Indeno[1,2,3-cd]pyrene	1.518	1.559	-2.7	101	0.02
105	I	Perylene-d12	1.000	1.000	0.0	112	0.00
106	T	Benzo[b]fluoranthene	1.344	1.185	11.8	101	0.02
107	T	Benzo[k]fluoranthene	1.339	1.193	10.9	105	0.02
108	CCC	Benzo[a]pyrene	1.179	1.038	12.0	98	0.01
109	T	Dibenz(a,j)acridine	1.009	0.859	14.9	89	0.01
110	T	Dibenz(a,h)anthracene	1.240	1.118	9.8	100	0.02
111	T	Benzo[g,h,i]perylene	1.264	1.148	9.2	104	0.02

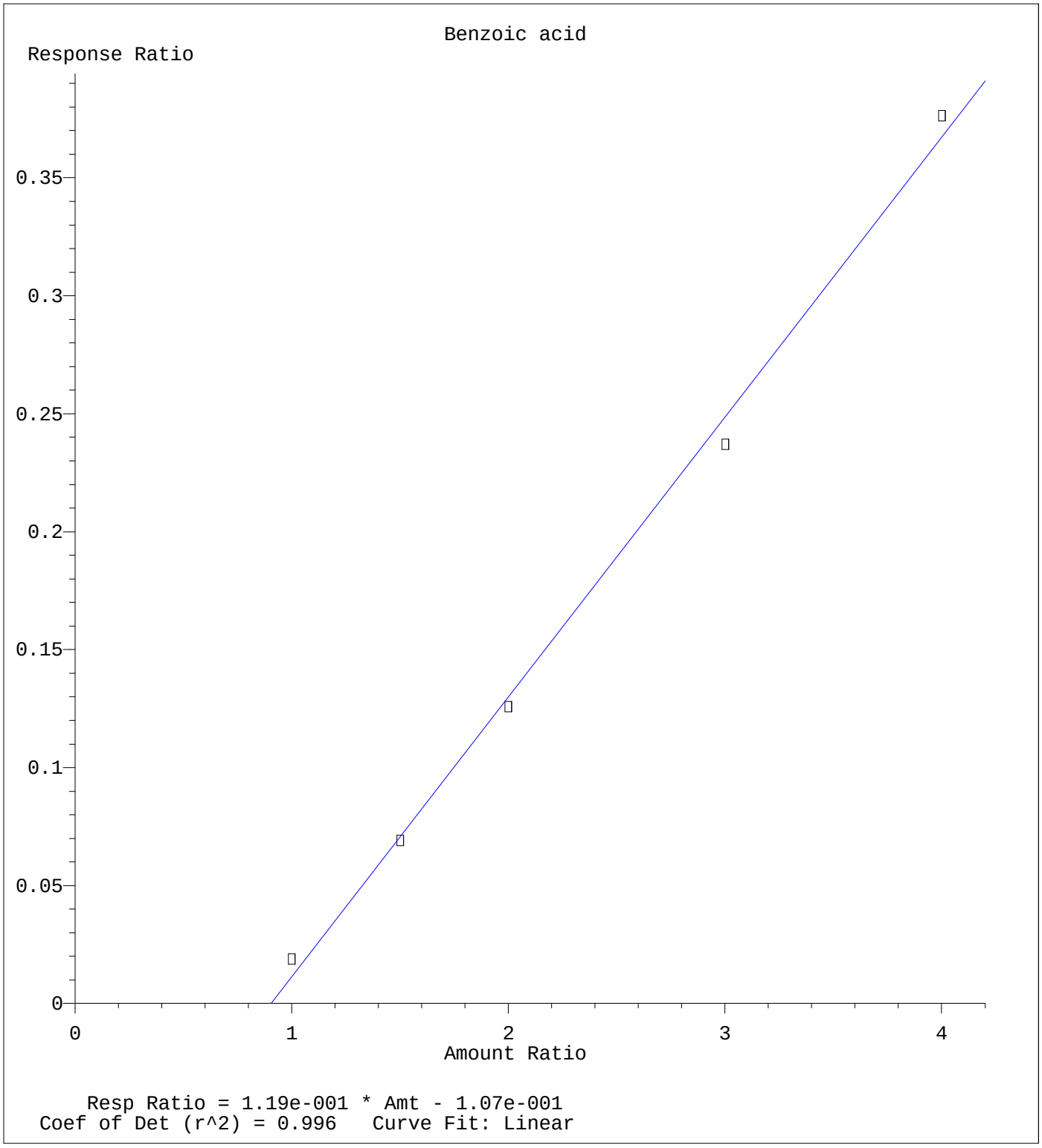
(#) = Out of Range SPCC's out = 0 CCC's out = 2



Method Name: C:\msdchem\1\METHODS\B042221.M
Calibration Table Last Updated: Fri Apr 23 14:54:46 2021



Method Name: C:\msdchem\1\METHODS\B042221.M
Calibration Table Last Updated: Fri Apr 23 14:54:46 2021



Method Name: C:\msdchem\1\METHODS\B042221.M
Calibration Table Last Updated: Fri Apr 23 14:54:46 2021

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042210.D
Acq On : 22 Apr 2021 10:12 am
Operator : YH
Sample : bna10 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 23 14:34:46 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Thu Apr 22 15:10:47 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.351	152	114802	40.00	ng		0.00
23) Naphthalene-d8	...	5.943	136	445690	40.00	ng		0.00
45) Acenaphthene-d10	...	7.994	164	259430	40.00	ng		0.00
73) Phenanthrene-d10	...	9.656	188	452000	40.00	ng		0.00
92) Chrysene-d12	...	12.594	240	400356	40.00	ng		0.00
105) Perylene-d12	...	14.063	264	385411	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.796	112	35201	9.83	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery =	9.83%#				
9) Phenol-d5	...	3.940	99	43375	9.97	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery =	9.97%#				
24) Nitrobenzene-d5	...	5.067	82	33500	9.70	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery =	19.40%#				
50) 2-Fluorobiphenyl	...	7.257	172	85973	10.26	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery =	20.52%#				
72) 2,4,6-Tribromophenol	...	8.886	330	8199	8.17	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery =	8.17%#				
94) 4-Terphenyl-d14	...	11.467	244	95732	9.67	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery =	19.34%#				
Target Compounds								Qvalue
2) Pyridine	...	1.536	79	42198	9.58	ng		93
3) 2-Picoline	...	2.187	93	42667	9.55	ng		99
4) Methyl methanesulfonate	...	2.620	80	18250	9.77	ng		93
6) Ethyl methanesulfonate	...	3.411	79	28986	9.94	ng		99
7) Benzaldehyde	...	3.779	105	24634	10.61	ng		97
8) Aniline	...	3.934	66	22386	10.15	ng		90
10) Phenol	...	3.956	94	52619	9.97	ng	#	57
11) Bis(2-chloroethyl)ether	...	4.046	93	38055	10.17	ng		97
12) 2-Chlorophenol	...	4.078	128	39727	9.84	ng		99
13) 1,3-Dichlorobenzene	...	4.276	146	46459	10.08	ng		98
14) 1,4-Dichlorobenzene	...	4.372	146	47577	10.22	ng		99
15) 1,2-Dichlorobenzene	...	4.565	146	44602	10.28	ng		98
16) Benzyl alcohol	...	4.565	108	24783	9.55	ng		94
17) Bis(2-chloroisopropyl)ether	...	4.762	45	42714	10.91	ng		94
18) 2-Methylphenol	...	4.746	107	30086	9.91	ng		98
19) 3,4-Methylphenol	...	4.949	107	79721	20.19	ng		98
20) N-Nitrosodi-n-propylamine	...	4.923	70	25305	10.16	ng		95
21) N-Nitrosodimethylamine	...	1.514	42	13815	10.23	ng		87
22) Hexachloroethane	...	4.992	117	16448	10.01	ng		94
25) Acetophenone	...	4.890	105	104207	20.62	ng		98
26) Nitrobenzene	...	5.088	123	18975	9.72	ng		94
27) N-Nitrosopiperidine	...	5.275	114	18902	9.82	ng		92
28) Isophorone	...	5.403	82	71378	10.02	ng		98
29) 2-Nitrophenol	...	5.494	139	15677	8.39	ng		96
30) 2,4-Dimethylphenol	...	5.612	122	33650	9.74	ng		95
31) Bis(2-chloroethoxy)methane	...	5.719	93	45124	10.07	ng		99
32) 2,4-Dichlorophenol	...	5.799	162	31262	9.45	ng		99
33) 1,2,4-Trichlorobenzene	...	5.889	180	37885	10.15	ng		99
34) Naphthalene	...	5.964	128	121772	10.43	ng		100
35) Benzoic acid	...	5.735	122	1777	36.28	ng	#	30
36) 2,6-Dichlorophenol	...	6.071	162	31387	9.74	ng		99
37) 4-Chloroaniline	...	6.066	127	49343	10.07	ng		97
38) Hexachlorobutadiene	...	6.162	225	21456	10.10	ng		99
39) a,a-Dimethylphenethylamine	...	5.788	58	79937	8.94	ng		81
40) Caprolactam	...	6.456	113	11045	8.81	ng	#	71

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042210.D
Acq On : 22 Apr 2021 10:12 am
Operator : YH
Sample : bna10 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 23 14:34:46 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Thu Apr 22 15:10:47 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.696	107	29440	9.33	ng		94
42) N-Nitroso-di-n-butylamine	6.509	84	23864	8.57	ng		83
43) 2-Methylnaphthalene	6.803	141	69170	10.22	ng		98
44) 1-Methylnaphthalene	6.915	141	67831	10.20	ng		99
46) 1,2,4,5-Tetrachlorobenzene	7.006	216	37087	10.34	ng		99
47) Hexachlorocyclopentadiene	7.011	237	17355	8.78	ng		99
48) 2,4,6-Trichlorophenol	7.156	196	20665	8.94	ng		98
49) 2,4,5-Trichlorophenol	7.193	196	23293	9.00	ng		98
51) Biphenyl	7.359	154	97309	10.80	ng		98
52) 2-Chloronaphthalene	7.359	162	77537	10.26	ng		98
53) 1-Chloronaphthalene	7.380	162	70619	10.34	ng		99
54) 2-Nitroaniline	7.497	65	15078	8.50	ng		96
55) 3-Nitroaniline	7.968	138	17352	8.26	ng		96
56) Pentachlorobenzene	8.192	250	31697	10.01	ng		99
57) 4-Nitroaniline	8.657	138	18143	8.32	ng		98
58) 2-Naphthylamine	8.315	143	74460	9.80	ng		97
59) 1-Naphthylamine	8.406	143	82964	10.21	ng		97
60) Dimethyl phthalate	7.749	163	81417	9.94	ng		99
61) Acenaphthylene	7.823	152	114714	10.13	ng		100
62) 2,6-Dinitrotoluene	7.791	165	13374	7.81	ng		98
63) Acenaphthene	8.026	154	70748	10.31	ng		99
64) 2,4-Dinitrophenol	8.090	184	2676	22.16	ng		83
65) Dibenzofuran	8.229	168	108274	10.27	ng		92
66) 4-Nitrophenol	8.208	109	9513	9.26	ng	#	72
67) 2,4-Dinitrotoluene	8.240	165	18012	7.56	ng	#	71
68) 2,3,4,6-Tetrachlorophenol	8.390	232	15111	8.30	ng		99
69) Diethyl phthalate	8.555	149	77542	9.77	ng		99
70) Fluorene	8.614	166	88205	10.05	ng		100
71) 4-Chlorophenyl phenyl ether	8.641	204	42447	10.07	ng		99
74) 4,6-Dinitro-2-methylphenol	8.694	198	5455	16.33	ng		97
75) Azobenzene	8.817	77	71933	10.01	ng		99
76) 1,2-Diphenylhydrazine	8.817	182	21910	9.98	ng		99
77) Diphenylamine	8.780	170	15521	10.14	ng	#	95
78) N-Nitrosodiphenylamine	8.780	168	75065	10.40	ng		99
79) 4-Bromophenyl phenyl ether	9.186	248	24262	9.99	ng		97
80) Phenacetin	9.153	108	32687	8.84	ng		99
81) Hexachlorobenzene	9.234	284	25545	9.82	ng		95
82) Atrazine	9.410	200	21139	9.36	ng		95
83) 4-Aminobiphenyl	9.474	169	89175	9.75	ng		98
84) Pentachlorophenol	9.469	266	10557	7.33	ng		96
85) Pentachloronitrobenzene	9.479	237	7965	8.43	ng		92
86) Pronamide	9.586	173	29454	8.96	ng		100
87) Phenanthrene	9.677	178	127077	10.32	ng		100
88) Anthracene	9.730	178	124256	10.03	ng		100
89) Carbazole	9.933	167	110966	9.99	ng		99
90) Di-n-butyl phthalate	10.393	149	122019	9.26	ng		99
91) Fluoranthene	10.997	202	133209	9.72	ng		99
93) Pyrene	11.242	202	140502	10.09	ng		99
95) Benzidine	11.184	184	51698	9.93	ng		96
96) p-Dimethylaminoazobenzene	11.632	225	22361	8.10	ng		98
97) Butyl benzyl phthalate	12.049	149	48977	8.57	ng		98
98) Benz(a)anthracene	12.583	228	126218	9.67	ng		100
99) 3,3'-Dichlorobenzidine	12.589	252	46237	9.73	ng		98
100) Chrysene	12.621	228	135622	10.01	ng		99
101) Bis(2-ethylhexyl)phthalate	12.722	149	65579	8.66	ng		100
102) Di-n-octyl phthalate	13.406	149	94886	7.50	ng	#	98
103) 3-Methylcholanthrene	14.335	268	35934	8.11	ng		98

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042210.D
Acq On : 22 Apr 2021 10:12 am
Operator : YH
Sample : bna10 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 23 14:34:46 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Thu Apr 22 15:10:47 2021
Response via : Initial Calibration

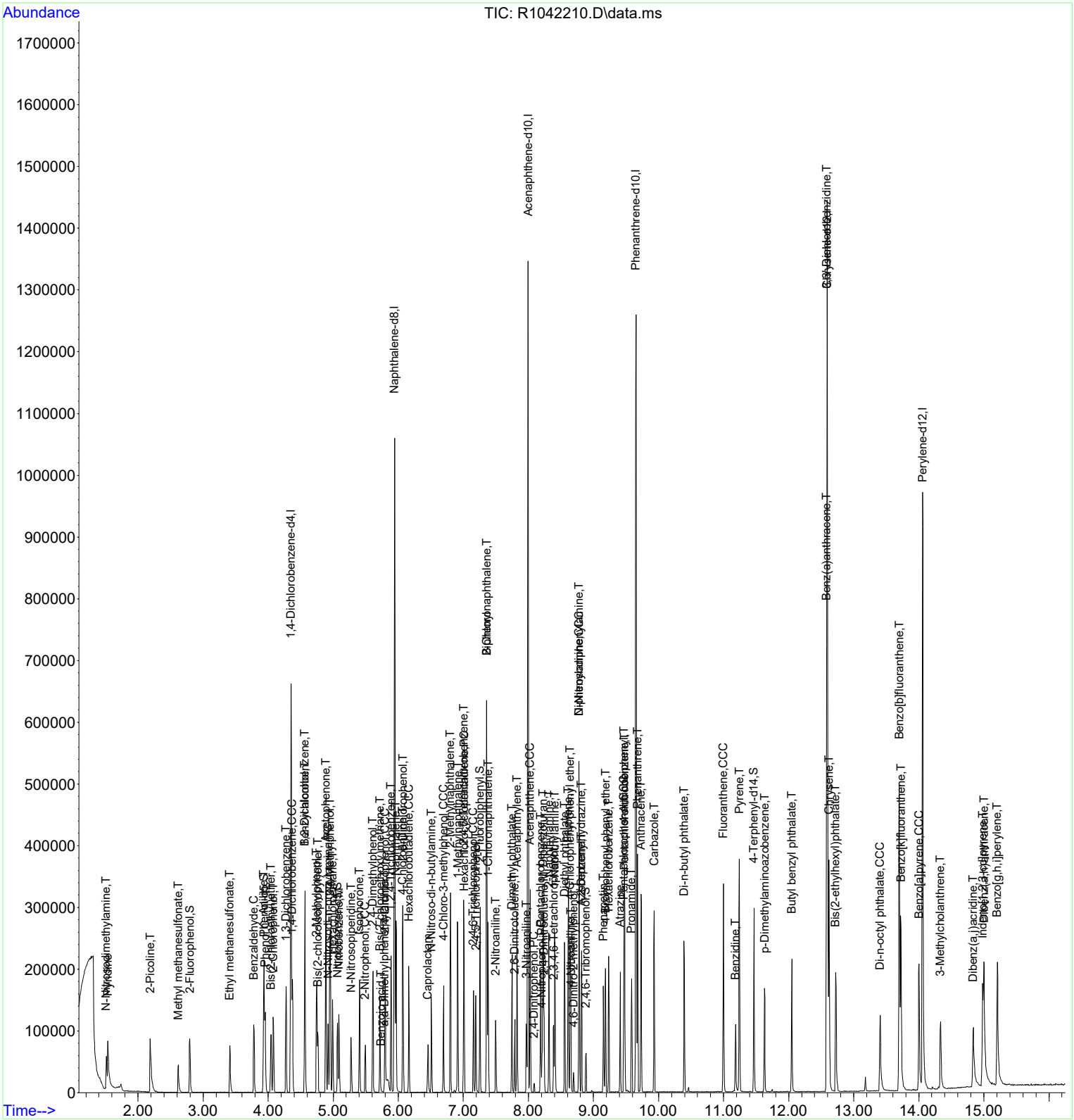
Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	14.982	276	130677	8.60	ng	99
106) Benzo[b]fluoranthene	...	13.700	252	113616	8.77	ng	98
107) Benzo[k]fluoranthene	...	13.726	252	141550	10.97	ng	97
108) Benzo[a]pyrene	...	14.004	252	100958	8.89	ng	98
109) Dibenz(a,j)acridine	...	14.838	279	78217	8.04	ng	98
110) Dibenz(a,h)anthracene	...	15.003	278	107471	9.00	ng	94
111) Benzo[g,h,i]perylene	...	15.206	276	112279	9.22	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042210.D
Acq On : 22 Apr 2021 10:12 am
Operator : YH
Sample : bna10 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 23 14:34:46 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Thu Apr 22 15:10:47 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042211.D
Acq On : 22 Apr 2021 10:40 am
Operator : YH
Sample : bna20 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 23 14:37:40 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:37:28 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.352	152	116520	40.00	ng		0.00
23) Naphthalene-d8	...	5.944	136	455343	40.00	ng		0.00
45) Acenaphthene-d10	...	7.995	164	264328	40.00	ng		0.00
73) Phenanthrene-d10	...	9.656	188	460811	40.00	ng		0.00
92) Chrysene-d12	...	12.595	240	413166	40.00	ng		0.00
105) Perylene-d12	...	14.064	264	398165	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.797	112	70482	19.39	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery =	19.39%#				
9) Phenol-d5	...	3.940	99	86803	19.67	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery =	19.67%				
24) Nitrobenzene-d5	...	5.067	82	67904	19.25	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery =	38.50%				
50) 2-Fluorobiphenyl	...	7.258	172	172265	20.18	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery =	40.36%#				
72) 2,4,6-Tribromophenol	...	8.887	330	17460	17.08	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery =	17.08%				
94) 4-Terphenyl-d14	...	11.467	244	198105	19.40	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery =	38.80%				
Target Compounds					Qvalue			
2) Pyridine	...	1.531	79	90684	20.29	ng		98
3) 2-Picoline	...	2.183	93	92248	20.33	ng		98
4) Methyl methanesulfonate	...	2.615	80	37653	19.86	ng		96
6) Ethyl methanesulfonate	...	3.411	79	58043	19.62	ng		98
7) Benzaldehyde	...	3.780	105	48983	20.78	ng		98
8) Aniline	...	3.930	66	44876	20.04	ng		91
10) Phenol	...	3.956	94	106452	19.88	ng	#	56
11) Bis(2-chloroethyl)ether	...	4.042	93	75473	19.87	ng		98
12) 2-Chlorophenol	...	4.079	128	80084	19.53	ng		99
13) 1,3-Dichlorobenzene	...	4.277	146	92690	19.82	ng		98
14) 1,4-Dichlorobenzene	...	4.373	146	94609	20.02	ng		99
15) 1,2-Dichlorobenzene	...	4.565	146	88310	20.05	ng		99
16) Benzyl alcohol	...	4.565	108	50801	19.29	ng		93
17) Bis(2-chloroisopropyl)ether	...	4.763	45	83536	21.03	ng		95
18) 2-Methylphenol	...	4.747	107	60420	19.61	ng		97
19) 3,4-Methylphenol	...	4.955	107	161256	40.24	ng		98
20) N-Nitrosodi-n-propylamine	...	4.923	70	50970	20.16	ng		96
21) N-Nitrosodimethylamine	...	1.510	42	26800	19.55	ng		86
22) Hexachloroethane	...	4.993	117	33208	19.92	ng		97
25) Acetophenone	...	4.891	105	208173	40.31	ng		98
26) Nitrobenzene	...	5.089	123	38165	19.13	ng		94
27) N-Nitrosopiperidine	...	5.276	114	38381	19.51	ng		92
28) Isophorone	...	5.404	82	143418	19.71	ng		98
29) 2-Nitrophenol	...	5.495	139	33343	17.46	ng		95
30) 2,4-Dimethylphenol	...	5.612	122	68867	19.51	ng		95
31) Bis(2-chloroethoxy)methane	...	5.719	93	89337	19.51	ng		99
32) 2,4-Dichlorophenol	...	5.799	162	64585	19.12	ng		99
33) 1,2,4-Trichlorobenzene	...	5.890	180	74777	19.62	ng		100
34) Naphthalene	...	5.965	128	239798	20.11	ng		100
35) Benzoic acid	...	5.794	122	3128	37.26	ng		84
36) 2,6-Dichlorophenol	...	6.072	162	63162	19.19	ng		99
37) 4-Chloroaniline	...	6.066	127	98986	19.76	ng		98
38) Hexachlorobutadiene	...	6.163	225	42087	19.38	ng		99
39) a,a-Dimethylphenethylamine	...	5.831	58	172629	18.89	ng	#	79
40) Caprolactam	...	6.478	113	23957	18.70	ng	#	69

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042211.D
Acq On : 22 Apr 2021 10:40 am
Operator : YH
Sample : bna20 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 23 14:37:40 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:37:28 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.697	107	60887	18.88	ng		95
42) N-Nitroso-di-n-butylamine	6.510	84	48528	17.05	ng		84
43) 2-Methylnaphthalene	6.804	141	137094	19.83	ng		99
44) 1-Methylnaphthalene	6.916	141	135374	19.93	ng		100
46) 1,2,4,5-Tetrachlorobenzene	7.007	216	74263	20.31	ng		98
47) Hexachlorocyclopentadiene	7.012	237	36716	18.23	ng		99
48) 2,4,6-Trichlorophenol	7.156	196	43687	18.55	ng		97
49) 2,4,5-Trichlorophenol	7.194	196	49532	18.78	ng		98
51) Biphenyl	7.359	154	190938	20.79	ng		98
52) 2-Chloronaphthalene	7.359	162	154055	20.00	ng		98
53) 1-Chloronaphthalene	7.381	162	143208	20.57	ng		99
54) 2-Nitroaniline	7.498	65	32855	18.17	ng		96
55) 3-Nitroaniline	7.974	138	38088	17.80	ng		98
56) Pentachlorobenzene	8.193	250	63271	19.62	ng		98
57) 4-Nitroaniline	8.657	138	39501	17.79	ng		97
58) 2-Naphthylamine	8.315	143	154561	19.96	ng		98
59) 1-Naphthylamine	8.412	143	164592	19.88	ng		98
60) Dimethyl phthalate	7.749	163	162871	19.51	ng		100
61) Acenaphthylene	7.824	152	227942	19.76	ng		100
62) 2,6-Dinitrotoluene	7.792	165	30574	17.52	ng		100
63) Acenaphthene	8.027	154	140314	20.07	ng		98
64) 2,4-Dinitrophenol	8.091	184	7043	26.36	ng		88
65) Dibenzofuran	8.230	168	217276	20.23	ng		95
66) 4-Nitrophenol	8.214	109	18059	17.25	ng	#	54
67) 2,4-Dinitrotoluene	8.246	165	41522	17.11	ng	#	76
68) 2,3,4,6-Tetrachlorophenol	8.390	232	32341	17.43	ng		99
69) Diethyl phthalate	8.561	149	156757	19.38	ng		99
70) Fluorene	8.615	166	179708	20.10	ng		99
71) 4-Chlorophenyl phenyl ether	8.641	204	84631	19.70	ng		100
74) 4,6-Dinitro-2-methylphenol	8.700	198	13975	21.75	ng		99
75) Azobenzene	8.818	77	145052	19.80	ng		100
76) 1,2-Diphenylhydrazine	8.818	182	44139	19.71	ng		99
77) Diphenylamine	8.780	170	31369	20.10	ng		98
78) N-Nitrosodiphenylamine	8.780	168	149514	20.31	ng		99
79) 4-Bromophenyl phenyl ether	9.186	248	49364	19.94	ng		97
80) Phenacetin	9.160	108	70613	18.74	ng		100
81) Hexachlorobenzene	9.234	284	52150	19.66	ng		97
82) Atrazine	9.416	200	46035	19.99	ng		97
83) 4-Aminobiphenyl	9.475	169	187999	20.17	ng		99
84) Pentachlorophenol	9.469	266	24654	16.79	ng		96
85) Pentachloronitrobenzene	9.485	237	17702	18.37	ng		95
86) Pronamide	9.587	173	62831	18.74	ng		99
87) Phenanthrene	9.678	178	254880	20.31	ng		100
88) Anthracene	9.736	178	255057	20.20	ng		100
89) Carbazole	9.934	167	224109	19.78	ng		100
90) Di-n-butyl phthalate	10.399	149	259037	19.27	ng		99
91) Fluoranthene	11.003	202	272847	19.53	ng		99
93) Pyrene	11.243	202	289660	20.16	ng		99
95) Benzidine	11.184	184	107465	19.99	ng		98
96) p-Dimethylaminoazobenzene	11.628	225	50166	17.62	ng		96
97) Butyl benzyl phthalate	12.050	149	107653	18.24	ng		98
98) Benz(a)anthracene	12.584	228	259816	19.30	ng		100
99) 3,3'-Dichlorobenzidine	12.589	252	98140	20.01	ng		99
100) Chrysene	12.621	228	276324	19.77	ng		100
101) Bis(2-ethylhexyl)phthalate	12.723	149	144978	18.56	ng		99
102) Di-n-octyl phthalate	13.407	149	220593	16.90	ng		99
103) 3-Methylcholanthrene	14.336	268	79935	17.48	ng		96

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Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042211.D
Acq On : 22 Apr 2021 10:40 am
Operator : YH
Sample : bna20 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 23 14:37:40 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:37:28 2021
Response via : Initial Calibration

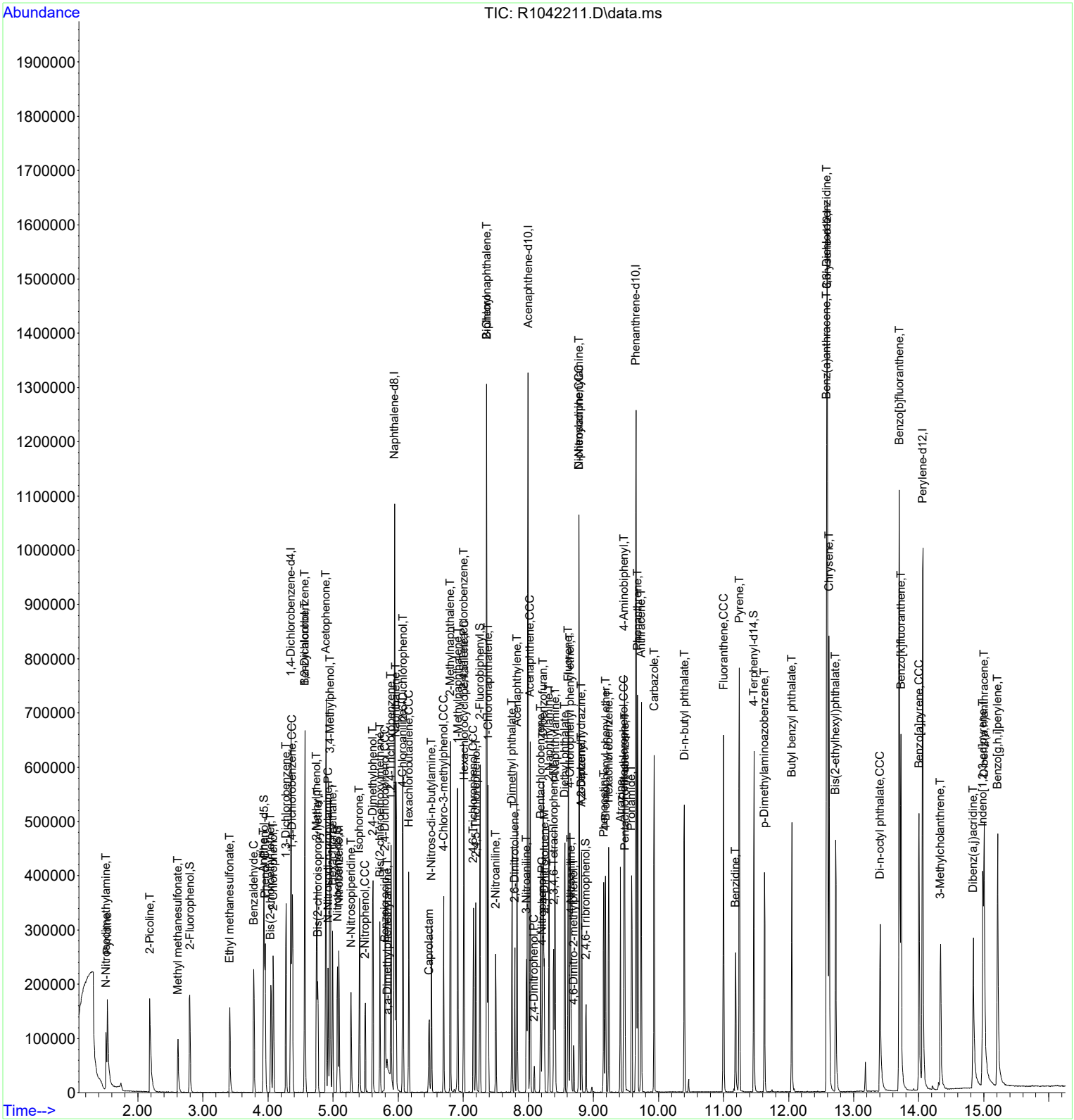
Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	14.982	276	285489	18.21	ng	98
106) Benzo[b]fluoranthene	...	13.700	252	243939	18.23	ng	98
107) Benzo[k]fluoranthene	...	13.727	252	290964	21.82	ng	99
108) Benzo[a]pyrene	...	14.005	252	219152	18.67	ng	99
109) Dibenz(a,j)acridine	...	14.838	279	174607	17.38	ng	100
110) Dibenz(a,h)anthracene	...	15.004	278	234386	18.99	ng	98
111) Benzo[g,h,i]perylene	...	15.212	276	244292	19.41	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042211.D
Acq On : 22 Apr 2021 10:40 am
Operator : YH
Sample : bna20 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 23 14:37:40 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:37:28 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042212.D
Acq On : 22 Apr 2021 11:08 am
Operator : YH
Sample : bna40 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 23 14:39:51 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:39:43 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.352	152	113919	40.00	ng		0.00
23) Naphthalene-d8	...	5.944	136	441464	40.00	ng		0.00
45) Acenaphthene-d10	...	7.995	164	256813	40.00	ng		0.00
73) Phenanthrene-d10	...	9.657	188	455513	40.00	ng		0.00
92) Chrysene-d12	...	12.600	240	418035	40.00	ng		0.00
105) Perylene-d12	...	14.064	264	409946	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.792	112	143468	40.37	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 40.37%					
9) Phenol-d5	...	3.941	99	175320	40.63	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 40.63%					
24) Nitrobenzene-d5	...	5.068	82	138228	40.43	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 80.86%					
50) 2-Fluorobiphenyl	...	7.258	172	341482	41.18	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 82.36%					
72) 2,4,6-Tribromophenol	...	8.888	330	39044	39.31	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 39.31%					
94) 4-Terphenyl-d14	...	11.468	244	416398	40.30	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 80.60%					
Target Compounds								Qvalue
2) Pyridine	...	1.526	79	182197	41.69	ng		98
3) 2-Picoline	...	2.173	93	182214	41.08	ng		98
4) Methyl methanesulfonate	...	2.611	80	74666	40.26	ng		95
6) Ethyl methanesulfonate	...	3.412	79	116604	40.31	ng		98
7) Benzaldehyde	...	3.781	105	95040	41.24	ng		99
8) Aniline	...	3.930	66	87598	40.02	ng	#	87
10) Phenol	...	3.962	94	213695	40.81	ng	#	58
11) Bis(2-chloroethyl)ether	...	4.048	93	153625	41.37	ng		99
12) 2-Chlorophenol	...	4.080	128	161370	40.26	ng		99
13) 1,3-Dichlorobenzene	...	4.277	146	187975	41.12	ng		99
14) 1,4-Dichlorobenzene	...	4.374	146	187941	40.67	ng		98
15) 1,2-Dichlorobenzene	...	4.566	146	176941	41.09	ng		99
16) Benzyl alcohol	...	4.566	108	105002	40.79	ng		93
17) Bis(2-chloroisopropyl)ether	...	4.763	45	164169	42.27	ng		96
18) 2-Methylphenol	...	4.753	107	123501	40.99	ng		97
19) 3,4-Methylphenol	...	4.961	107	323534	82.58	ng		98
20) N-Nitrosodi-n-propylamine	...	4.924	70	101463	41.05	ng		95
21) N-Nitrosodimethylamine	...	1.510	42	55892	41.71	ng		85
22) Hexachloroethane	...	4.993	117	66335	40.70	ng		97
25) Acetophenone	...	4.892	105	410332	81.96	ng		98
26) Nitrobenzene	...	5.095	123	78323	40.49	ng		94
27) N-Nitrosopiperidine	...	5.282	114	76925	40.33	ng		91
28) Isophorone	...	5.410	82	289238	41.01	ng		97
29) 2-Nitrophenol	...	5.495	139	72816	39.33	ng		94
30) 2,4-Dimethylphenol	...	5.613	122	140116	40.94	ng		95
31) Bis(2-chloroethoxy)methane	...	5.720	93	182652	41.15	ng		100
32) 2,4-Dichlorophenol	...	5.805	162	133921	40.88	ng		99
33) 1,2,4-Trichlorobenzene	...	5.891	180	150621	40.76	ng		100
34) Naphthalene	...	5.971	128	478611	41.40	ng		100
35) Benzoic acid	...	5.714	122	8275	41.31	ng	#	69
36) 2,6-Dichlorophenol	...	6.078	162	130224	40.81	ng		99
37) 4-Chloroaniline	...	6.072	127	200275	41.25	ng		98
38) Hexachlorobutadiene	...	6.163	225	86247	40.97	ng		99
39) a,a-Dimethylphenethylamine	...	5.869	58	361371	40.79	ng		78
40) Caprolactam	...	6.505	113	50273	40.47	ng		94

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042212.D
Acq On : 22 Apr 2021 11:08 am
Operator : YH
Sample : bna40 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 23 14:39:51 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:39:43 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.703	107	126092	40.33	ng		94
42) N-Nitroso-di-n-butylamine	6.516	84	128967	46.74	ng		96
43) 2-Methylnaphthalene	6.804	141	275754	41.14	ng		99
44) 1-Methylnaphthalene	6.916	141	271500	41.23	ng		99
46) 1,2,4,5-Tetrachlorobenzene	7.007	216	146225	41.17	ng		99
47) Hexachlorocyclopentadiene	7.013	237	79410	40.57	ng		98
48) 2,4,6-Trichlorophenol	7.157	196	91506	40.00	ng		98
49) 2,4,5-Trichlorophenol	7.200	196	104603	40.81	ng		98
51) Biphenyl	7.360	154	379873	42.57	ng		98
52) 2-Chloronaphthalene	7.360	162	300638	40.17	ng		98
53) 1-Chloronaphthalene	7.386	162	293216	43.36	ng		99
54) 2-Nitroaniline	7.504	65	70742	40.27	ng		95
55) 3-Nitroaniline	7.974	138	82950	39.89	ng		95
56) Pentachlorobenzene	8.193	250	126460	40.36	ng		98
57) 4-Nitroaniline	8.669	138	86440	40.06	ng		98
58) 2-Naphthylamine	8.321	143	311478	41.40	ng		98
59) 1-Naphthylamine	8.412	143	330174	41.05	ng		98
60) Dimethyl phthalate	7.755	163	328456	40.50	ng		100
61) Acenaphthylene	7.825	152	465364	41.52	ng		100
62) 2,6-Dinitrotoluene	7.798	165	67071	39.56	ng		98
63) Acenaphthene	8.033	154	278595	41.02	ng		98
64) 2,4-Dinitrophenol	8.097	184	19753	39.31	ng		91
65) Dibenzofuran	8.231	168	432682	41.46	ng		98
66) 4-Nitrophenol	8.220	109	39664	39.00	ng	#	65
67) 2,4-Dinitrotoluene	8.252	165	93399	39.61	ng		99
68) 2,3,4,6-Tetrachlorophenol	8.391	232	71360	39.59	ng		98
69) Diethyl phthalate	8.562	149	320167	40.75	ng		99
70) Fluorene	8.615	166	356219	41.01	ng		99
71) 4-Chlorophenyl phenyl ether	8.647	204	168670	40.41	ng		99
74) 4,6-Dinitro-2-methylphenol	8.706	198	37447	37.14	ng		99
75) Azobenzene	8.818	77	292519	40.40	ng		99
76) 1,2-Diphenylhydrazine	8.824	182	89886	40.61	ng		99
77) Diphenylamine	8.786	170	63137	40.93	ng		100
78) N-Nitrosodiphenylamine	8.786	168	298496	41.02	ng		99
79) 4-Bromophenyl phenyl ether	9.187	248	98083	40.08	ng		97
80) Phenacetin	9.165	108	152978	41.07	ng		99
81) Hexachlorobenzene	9.240	284	104803	39.98	ng		96
82) Atrazine	9.422	200	92971	40.84	ng		97
83) 4-Aminobiphenyl	9.481	169	385948	41.89	ng		100
84) Pentachlorophenol	9.470	266	56360	38.82	ng		99
85) Pentachloronitrobenzene	9.486	237	38418	40.34	ng		96
86) Pronamide	9.593	173	135167	40.79	ng		100
87) Phenanthrene	9.684	178	509941	41.10	ng		100
88) Anthracene	9.737	178	516220	41.36	ng		100
89) Carbazole	9.935	167	460613	41.13	ng		100
90) Di-n-butyl phthalate	10.399	149	547610	41.22	ng		100
91) Fluoranthene	11.003	202	564655	40.88	ng		99
93) Pyrene	11.243	202	588540	40.49	ng		100
95) Benzidine	11.185	184	235177	43.24	ng		100
96) p-Dimethylaminoazobenzene	11.633	225	114937	39.90	ng		99
97) Butyl benzyl phthalate	12.050	149	235786	39.49	ng		99
98) Benz(a)anthracene	12.590	228	547955	40.22	ng		100
99) 3,3'-Dichlorobenzidine	12.590	252	210229	42.36	ng		100
100) Chrysene	12.627	228	573669	40.56	ng		99
101) Bis(2-ethylhexyl)phthalate	12.723	149	325323	41.16	ng		100
102) Di-n-octyl phthalate	13.407	149	522010	39.52	ng		99
103) 3-Methylcholanthrene	14.342	268	180601	39.02	ng		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042212.D
Acq On : 22 Apr 2021 11:08 am
Operator : YH
Sample : bna40 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 23 14:39:51 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:39:43 2021
Response via : Initial Calibration

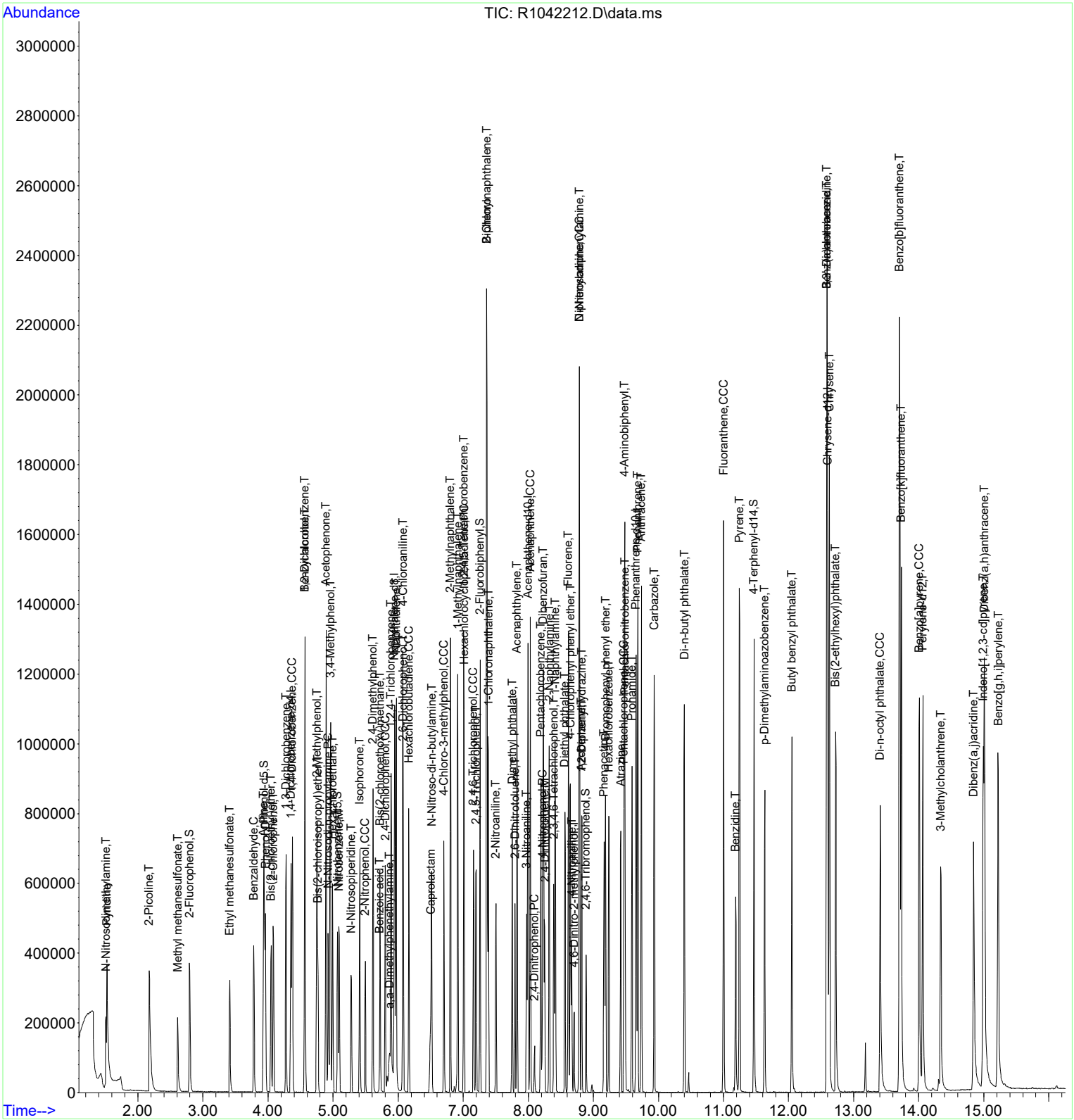
Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	14.994	276	626449	39.49	ng	97
106) Benzo[b]fluoranthene	...	13.706	252	546896	39.70	ng	98
107) Benzo[k]fluoranthene	...	13.733	252	594910	43.34	ng	100
108) Benzo[a]pyrene	...	14.011	252	483570	40.01	ng	99
109) Dibenz(a,j)acridine	...	14.844	279	408553	39.49	ng	100
110) Dibenz(a,h)anthracene	...	15.010	278	518318	40.79	ng	98
111) Benzo[g,h,i]perylene	...	15.223	276	530672	40.96	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042212.D
Acq On : 22 Apr 2021 11:08 am
Operator : YH
Sample : bna40 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 23 14:39:51 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:39:43 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042213.D
Acq On : 22 Apr 2021 11:35 am
Operator : YH
Sample : bna60 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 23 14:42:32 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:41:55 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.352	152	110518	40.00	ng		0.00
23) Naphthalene-d8	...	5.944	136	429441	40.00	ng		0.00
45) Acenaphthene-d10	...	7.995	164	252293	40.00	ng		0.00
73) Phenanthrene-d10	...	9.657	188	446269	40.00	ng		0.00
92) Chrysene-d12	...	12.600	240	411562	40.00	ng		0.00
105) Perylene-d12	...	14.064	264	404850	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.797	112	209968	60.90	ng		0.00
Spiked Amount 100.000	Range 21 - 110			Recovery = 60.90%				
9) Phenol-d5	...	3.946	99	252737	60.37	ng		0.00
Spiked Amount 100.000	Range 10 - 110			Recovery = 60.37%				
24) Nitrobenzene-d5	...	5.073	82	201194	60.49	ng		0.00
Spiked Amount 50.000	Range 34 - 114			Recovery = 120.98%#				
50) 2-Fluorobiphenyl	...	7.264	172	496574	60.95	ng		0.00
Spiked Amount 50.000	Range 43 - 116			Recovery = 121.90%#				
72) 2,4,6-Tribromophenol	...	8.893	330	59410	60.89	ng		0.00
Spiked Amount 100.000	Range 10 - 123			Recovery = 60.89%				
94) 4-Terphenyl-d14	...	11.473	244	621889	61.13	ng		0.00
Spiked Amount 50.000	Range 33 - 141			Recovery = 122.26%				
Target Compounds					Qvalue			
2) Pyridine	...	1.521	79	254452	60.02	ng		98
3) 2-Picoline	...	2.172	93	253819	58.98	ng		98
4) Methyl methanesulfonate	...	2.611	80	108808	60.48	ng		95
6) Ethyl methanesulfonate	...	3.412	79	170148	60.62	ng		98
7) Benzaldehyde	...	3.780	105	124159	55.53	ng		99
8) Aniline	...	3.935	66	132320	62.31	ng		93
10) Phenol	...	3.962	94	307787	60.59	ng	#	57
11) Bis(2-chloroethyl)ether	...	4.048	93	219761	61.00	ng		99
12) 2-Chlorophenol	...	4.085	128	236092	60.72	ng		99
13) 1,3-Dichlorobenzene	...	4.277	146	269485	60.76	ng		99
14) 1,4-Dichlorobenzene	...	4.373	146	273932	61.10	ng		99
15) 1,2-Dichlorobenzene	...	4.566	146	254287	60.87	ng		99
16) Benzyl alcohol	...	4.571	108	152755	61.16	ng		92
17) Bis(2-chloroisopropyl)ether	...	4.769	45	233066	61.86	ng		97
18) 2-Methylphenol	...	4.753	107	178845	61.19	ng		97
19) 3,4-Methylphenol	...	4.966	107	463812	122.02	ng		98
20) N-Nitrosodi-n-propylamine	...	4.929	70	148990	62.13	ng		94
21) N-Nitrosodimethylamine	...	1.510	42	79633	61.25	ng	#	85
22) Hexachloroethane	...	4.993	117	96287	60.89	ng		97
25) Acetophenone	...	4.897	105	595321	122.24	ng		97
26) Nitrobenzene	...	5.095	123	113896	60.53	ng		94
27) N-Nitrosopiperidine	...	5.282	114	113790	61.34	ng		90
28) Isophorone	...	5.410	82	419389	61.13	ng		97
29) 2-Nitrophenol	...	5.495	139	110279	61.24	ng		94
30) 2,4-Dimethylphenol	...	5.618	122	205432	61.71	ng		95
31) Bis(2-chloroethoxy)methane	...	5.725	93	264621	61.28	ng		99
32) 2,4-Dichlorophenol	...	5.805	162	195301	61.29	ng		98
33) 1,2,4-Trichlorobenzene	...	5.896	180	219231	60.98	ng		100
34) Naphthalene	...	5.971	128	686916	61.08	ng		100
35) Benzoic acid	...	5.746	122	29676	58.55	ng	#	67
36) 2,6-Dichlorophenol	...	6.078	162	190108	61.25	ng		99
37) 4-Chloroaniline	...	6.072	127	291605	61.74	ng		98
38) Hexachlorobutadiene	...	6.163	225	125103	61.09	ng		99
39) a,a-Dimethylphenethylamine	...	5.891	58	531294	61.65	ng		85
40) Caprolactam	...	6.521	113	74618	61.75	ng		94

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042213.D
Acq On : 22 Apr 2021 11:35 am
Operator : YH
Sample : bna60 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 23 14:42:32 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:41:55 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.708	107	187287	61.57	ng		95
42) N-Nitroso-di-n-butylamine	6.516	84	187538	69.87	ng		96
43) 2-Methylnaphthalene	6.804	141	401412	61.56	ng		99
44) 1-Methylnaphthalene	6.916	141	392138	61.22	ng		99
46) 1,2,4,5-Tetrachlorobenzene	7.007	216	211125	60.51	ng		99
47) Hexachlorocyclopentadiene	7.012	237	120018	62.42	ng		97
48) 2,4,6-Trichlorophenol	7.162	196	138388	61.57	ng		97
49) 2,4,5-Trichlorophenol	7.199	196	155748	61.85	ng		98
51) Biphenyl	7.365	154	537627	61.33	ng		98
52) 2-Chloronaphthalene	7.365	162	451473	61.41	ng		98
53) 1-Chloronaphthalene	7.386	162	402082	60.51	ng		99
54) 2-Nitroaniline	7.504	65	106193	61.54	ng		93
55) 3-Nitroaniline	7.979	138	125350	61.37	ng		96
56) Pentachlorobenzene	8.193	250	185419	60.23	ng		99
57) 4-Nitroaniline	8.674	138	131334	61.95	ng		96
58) 2-Naphthylamine	8.321	143	451553	61.09	ng		99
59) 1-Naphthylamine	8.417	143	480445	60.80	ng		98
60) Dimethyl phthalate	7.755	163	482023	60.50	ng		100
61) Acenaphthylene	7.830	152	671391	60.98	ng		99
62) 2,6-Dinitrotoluene	7.798	165	102720	61.67	ng		98
63) Acenaphthene	8.033	154	405926	60.83	ng		99
64) 2,4-Dinitrophenol	8.102	184	34819	55.05	ng		90
65) Dibenzofuran	8.236	168	630702	61.51	ng		99
66) 4-Nitrophenol	8.225	109	61679	61.73	ng	#	72
67) 2,4-Dinitrotoluene	8.252	165	144188	62.25	ng		98
68) 2,3,4,6-Tetrachlorophenol	8.396	232	108588	61.32	ng		99
69) Diethyl phthalate	8.567	149	468546	60.70	ng		99
70) Fluorene	8.620	166	524070	61.42	ng		99
71) 4-Chlorophenyl phenyl ether	8.647	204	248775	60.66	ng		99
74) 4,6-Dinitro-2-methylphenol	8.711	198	62665	54.42	ng		99
75) Azobenzene	8.823	77	424888	59.90	ng		99
76) 1,2-Diphenylhydrazine	8.823	182	131583	60.69	ng		98
77) Diphenylamine	8.791	170	92905	61.47	ng		98
78) N-Nitrosodiphenylamine	8.791	168	434762	60.99	ng		100
79) 4-Bromophenyl phenyl ether	9.187	248	144917	60.44	ng		98
80) Phenacetin	9.171	108	229212	62.81	ng		99
81) Hexachlorobenzene	9.240	284	154796	60.27	ng		96
82) Atrazine	9.422	200	136663	61.27	ng		97
83) 4-Aminobiphenyl	9.480	169	568217	62.94	ng		100
84) Pentachlorophenol	9.475	266	89012	62.59	ng		99
85) Pentachloronitrobenzene	9.491	237	58121	62.29	ng		95
86) Pronamide	9.598	173	200382	61.72	ng		99
87) Phenanthrene	9.684	178	743880	61.19	ng		99
88) Anthracene	9.742	178	750104	61.35	ng		99
89) Carbazole	9.940	167	670746	61.14	ng		99
90) Di-n-butyl phthalate	10.399	149	809721	62.21	ng		100
91) Fluoranthene	11.003	202	838055	61.93	ng		99
93) Pyrene	11.249	202	868167	60.66	ng		100
95) Benzidine	11.185	184	339935	63.49	ng		100
96) p-Dimethylaminoazobenzene	11.633	225	173998	61.35	ng		99
97) Butyl benzyl phthalate	12.050	149	366109	62.28	ng		98
98) Benz(a)anthracene	12.590	228	826468	61.62	ng		99
99) 3,3'-Dichlorobenzidine	12.595	252	310824	63.62	ng		99
100) Chrysene	12.632	228	842907	60.54	ng		99
101) Bis(2-ethylhexyl)phthalate	12.729	149	501127	64.40	ng		100
102) Di-n-octyl phthalate	13.412	149	814916	62.67	ng		100
103) 3-Methylcholanthrene	14.342	268	280388	61.54	ng		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042213.D
Acq On : 22 Apr 2021 11:35 am
Operator : YH
Sample : bna60 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 23 14:42:32 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:41:55 2021
Response via : Initial Calibration

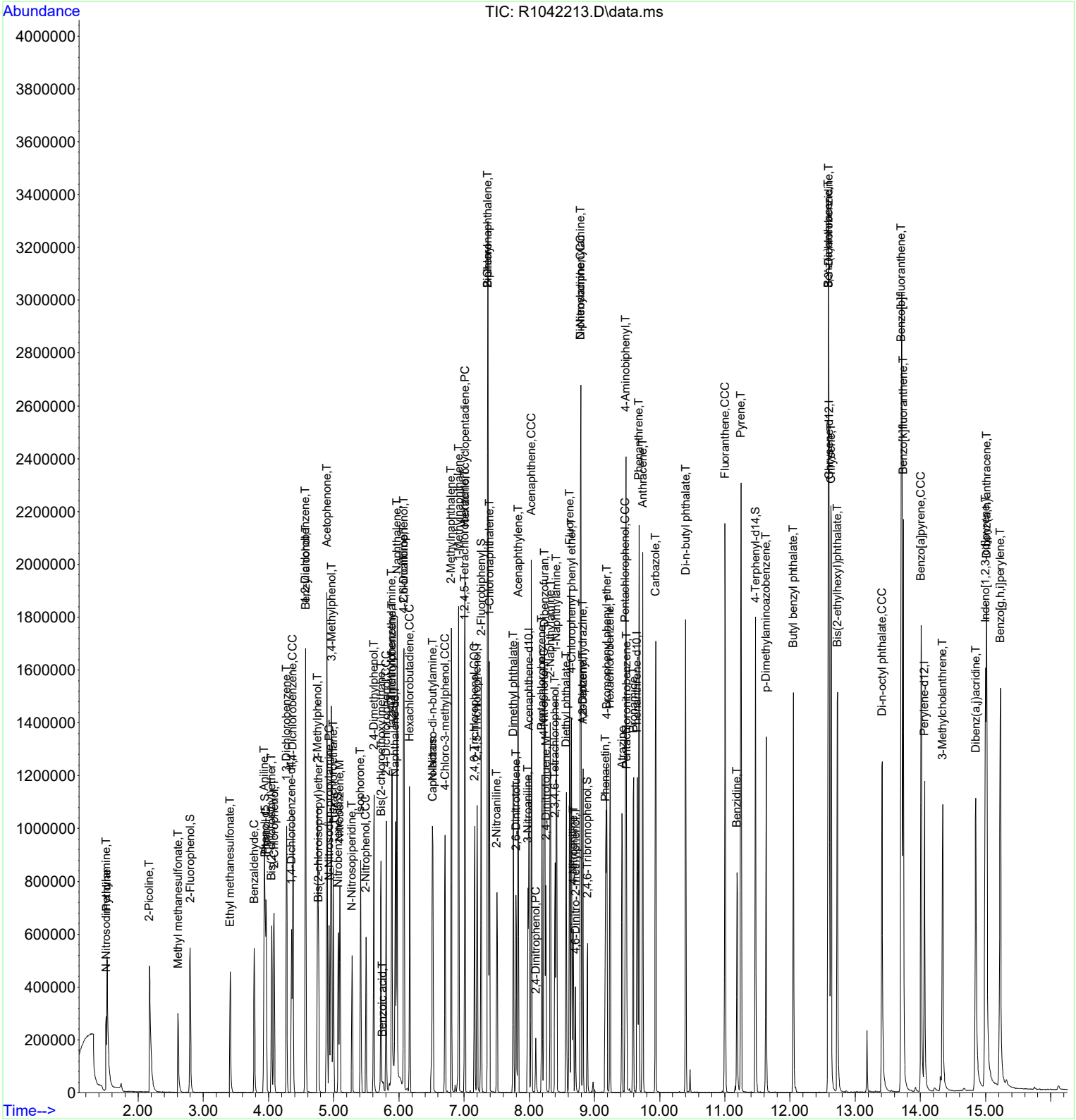
Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	14.999	276	961253	61.55	ng	97
106) Benzo[b]fluoranthene	...	13.706	252	840888	61.80	ng	98
107) Benzo[k]fluoranthene	...	13.738	252	862289	63.61	ng	99
108) Benzo[a]pyrene	...	14.011	252	773340	64.79	ng	99
109) Dibenz(a,j)acridine	...	14.849	279	641426	62.78	ng	99
110) Dibenz(a,h)anthracene	...	15.015	278	796552	63.48	ng	99
111) Benzo[g,h,i]perylene	...	15.229	276	817480	63.89	ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042213.D
Acq On : 22 Apr 2021 11:35 am
Operator : YH
Sample : bna60 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 23 14:42:32 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:41:55 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042214.D
Acq On : 22 Apr 2021 12:56 pm
Operator : YH
Sample : bna80 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 23 14:45:47 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:44:19 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.352	152	108823	40.00	ng		0.00
23) Naphthalene-d8	...	5.949	136	424413	40.00	ng		0.00
45) Acenaphthene-d10	...	7.995	164	251142	40.00	ng		0.00
73) Phenanthrene-d10	...	9.662	188	446687	40.00	ng		0.00
92) Chrysene-d12	...	12.600	240	411198	40.00	ng		0.00
105) Perylene-d12	...	14.064	264	445891	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.797	112	276618	81.48	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 81.48%					
9) Phenol-d5	...	3.951	99	334775	81.21	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 81.21%					
24) Nitrobenzene-d5	...	5.073	82	273231	83.12	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 166.24%#					
50) 2-Fluorobiphenyl	...	7.263	172	653084	80.53	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 161.06%#					
72) 2,4,6-Tribromophenol	...	8.898	330	84065	86.55	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 86.55%					
94) 4-Terphenyl-d14	...	11.473	244	830825	81.74	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 163.48%#					
Target Compounds								Qvalue
2) Pyridine	...	1.520	79	330540	79.18	ng		97
3) 2-Picoline	...	2.172	93	340094	80.26	ng		99
4) Methyl methanesulfonate	...	2.615	80	143298	80.89	ng		95
6) Ethyl methanesulfonate	...	3.417	79	223434	80.85	ng		98
7) Benzaldehyde	...	3.780	105	140483	63.81	ng		98
8) Aniline	...	3.935	66	164995	78.91	ng	#	89
10) Phenol	...	3.967	94	405022	80.98	ng	#	58
11) Bis(2-chloroethyl)ether	...	4.052	93	282102	79.53	ng		98
12) 2-Chlorophenol	...	4.084	128	312336	81.58	ng		99
13) 1,3-Dichlorobenzene	...	4.277	146	354241	81.11	ng		99
14) 1,4-Dichlorobenzene	...	4.378	146	355480	80.53	ng		99
15) 1,2-Dichlorobenzene	...	4.571	146	331482	80.58	ng		99
16) Benzyl alcohol	...	4.576	108	202293	82.26	ng		92
17) Bis(2-chloroisopropyl)ether	...	4.768	45	290201	78.23	ng		98
18) 2-Methylphenol	...	4.758	107	234027	81.32	ng		97
19) 3,4-Methylphenol	...	4.971	107	614188	164.10	ng		98
20) N-Nitrosodi-n-propylamine	...	4.934	70	196408	83.18	ng		95
21) N-Nitrosodimethylamine	...	1.510	42	100815	78.75	ng	#	83
22) Hexachloroethane	...	4.993	117	128529	82.55	ng		98
25) Acetophenone	...	4.902	105	772666	160.54	ng		97
26) Nitrobenzene	...	5.099	123	154579	83.13	ng		92
27) N-Nitrosopiperidine	...	5.286	114	150798	82.25	ng		89
28) Isophorone	...	5.415	82	546016	80.52	ng		98
29) 2-Nitrophenol	...	5.500	139	156377	87.86	ng		94
30) 2,4-Dimethylphenol	...	5.618	122	269218	81.83	ng		96
31) Bis(2-chloroethoxy)methane	...	5.724	93	345845	81.04	ng		100
32) 2,4-Dichlorophenol	...	5.810	162	262603	83.39	ng		98
33) 1,2,4-Trichlorobenzene	...	5.895	180	289293	81.43	ng		100
34) Naphthalene	...	5.970	128	896157	80.63	ng		99
35) Benzoic acid	...	5.773	122	53392	78.66	ng		78
36) 2,6-Dichlorophenol	...	6.082	162	253580	82.66	ng		99
37) 4-Chloroaniline	...	6.077	127	380942	81.61	ng		97
38) Hexachlorobutadiene	...	6.168	225	164116	81.10	ng		99
39) a,a-Dimethylphenethylamine	...	5.917	58	704679	82.73	ng		88
40) Caprolactam	...	6.542	113	100268	83.95	ng		93

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042214.D
Acq On : 22 Apr 2021 12:56 pm
Operator : YH
Sample : bna80 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 23 14:45:47 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:44:19 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.713	107	250292	83.26	ng		94
42) N-Nitroso-di-n-butylamine	6.520	84	245619	92.59	ng		96
43) 2-Methylnaphthalene	6.809	141	525521	81.55	ng		98
44) 1-Methylnaphthalene	6.916	141	510681	80.66	ng		99
46) 1,2,4,5-Tetrachlorobenzene	7.012	216	278520	80.19	ng		99
47) Hexachlorocyclopentadiene	7.017	237	164586	85.99	ng		97
48) 2,4,6-Trichlorophenol	7.161	196	187938	84.00	ng		97
49) 2,4,5-Trichlorophenol	7.204	196	209007	83.39	ng		99
51) Biphenyl	7.364	154	701932	80.44	ng		98
52) 2-Chloronaphthalene	7.364	162	569406	77.80	ng		99
53) 1-Chloronaphthalene	7.391	162	556737	84.17	ng		99
54) 2-Nitroaniline	7.509	65	146792	85.46	ng		93
55) 3-Nitroaniline	7.984	138	174600	85.87	ng		94
56) Pentachlorobenzene	8.198	250	248391	81.05	ng		99
57) 4-Nitroaniline	8.684	138	179728	85.17	ng		96
58) 2-Naphthylamine	8.326	143	600495	81.61	ng		98
59) 1-Naphthylamine	8.422	143	634310	80.64	ng		99
60) Dimethyl phthalate	7.760	163	640775	80.79	ng		100
61) Acenaphthylene	7.829	152	890761	81.28	ng		99
62) 2,6-Dinitrotoluene	7.803	165	144148	86.94	ng		97
63) Acenaphthene	8.038	154	534607	80.49	ng		98
64) 2,4-Dinitrophenol	8.102	184	56512	77.46	ng		92
65) Dibenzofuran	8.235	168	817144	80.06	ng		99
66) 4-Nitrophenol	8.230	109	84460	84.92	ng	#	75
67) 2,4-Dinitrotoluene	8.257	165	203414	88.22	ng		98
68) 2,3,4,6-Tetrachlorophenol	8.396	232	152679	86.62	ng		99
69) Diethyl phthalate	8.566	149	622512	81.01	ng		99
70) Fluorene	8.620	166	683606	80.48	ng		99
71) 4-Chlorophenyl phenyl ether	8.647	204	331116	81.11	ng		100
74) 4,6-Dinitro-2-methylphenol	8.716	198	97846	77.76	ng		98
75) Azobenzene	8.823	77	559365	78.79	ng		98
76) 1,2-Diphenylhydrazine	8.828	182	174562	80.43	ng		97
77) Diphenylamine	8.791	170	122706	81.11	ng		97
78) N-Nitrosodiphenylamine	8.796	168	574983	80.59	ng		100
79) 4-Bromophenyl phenyl ether	9.191	248	197215	82.18	ng		97
80) Phenacetin	9.181	108	309815	84.82	ng		98
81) Hexachlorobenzene	9.245	284	209409	81.46	ng		97
82) Atrazine	9.427	200	185120	82.92	ng		97
83) 4-Aminobiphenyl	9.485	169	744086	82.35	ng		99
84) Pentachlorophenol	9.480	266	127409	89.50	ng		98
85) Pentachloronitrobenzene	9.491	237	79458	85.07	ng		95
86) Pronamide	9.597	173	271256	83.48	ng		99
87) Phenanthrene	9.688	178	973644	80.02	ng		99
88) Anthracene	9.742	178	991322	81.00	ng		99
89) Carbazole	9.939	167	891277	81.16	ng		99
90) Di-n-butyl phthalate	10.399	149	1086645	83.41	ng		99
91) Fluoranthene	11.008	202	1110993	82.03	ng		99
93) Pyrene	11.248	202	1148961	80.35	ng		99
95) Benzidine	11.189	184	421767	78.84	ng		100
96) p-Dimethylaminoazobenzene	11.638	225	244081	86.14	ng		100
97) Butyl benzyl phthalate	12.055	149	498046	84.80	ng		98
98) Benz(a)anthracene	12.589	228	1104187	82.40	ng		99
99) 3,3'-Dichlorobenzidine	12.594	252	402128	82.38	ng		100
100) Chrysene	12.632	228	1123019	80.73	ng		99
101) Bis(2-ethylhexyl)phthalate	12.728	149	691380	88.93	ng		99
102) Di-n-octyl phthalate	13.412	149	1152079	88.68	ng		99
103) 3-Methylcholanthrene	14.341	268	398117	87.46	ng		95

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042214.D
Acq On : 22 Apr 2021 12:56 pm
Operator : YH
Sample : bna80 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 23 14:45:47 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:44:19 2021
Response via : Initial Calibration

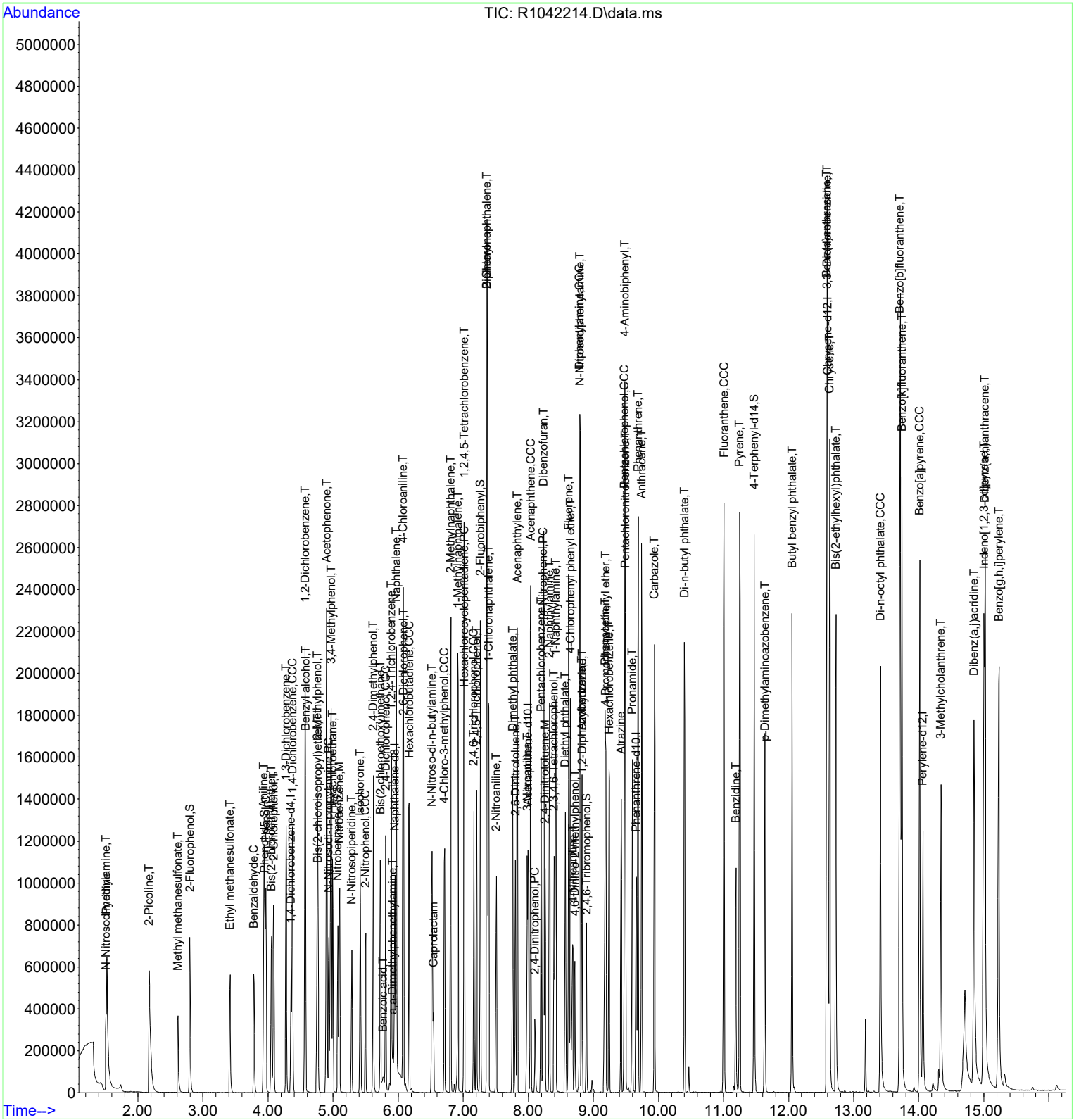
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	... 15.004	276	1345784	86.24	ng	98
106) Benzo[b]fluoranthene	... 13.711	252	1168840	78.00	ng	98
107) Benzo[k]fluoranthene	... 13.743	252	1131442	75.78	ng	100
108) Benzo[a]pyrene	... 14.015	252	1058708	80.54	ng	99
109) Dibenz(a,j)acridine	... 14.849	279	957746	85.12	ng	99
110) Dibenz(a,h)anthracene	... 15.020	278	1118788	80.95	ng	97
111) Benzo[g,h,i]perylene	... 15.233	276	1098261	77.94	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042214.D
Acq On : 22 Apr 2021 12:56 pm
Operator : YH
Sample : bna80 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 23 14:45:47 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:44:19 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042217.D
Acq On : 22 Apr 2021 1:22 pm
Operator : YH
Sample : bna120 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 23 14:48:18 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:47:24 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.352	152	109153	40.00	ng		0.00
23) Naphthalene-d8	...	5.949	136	430630	40.00	ng		0.00
45) Acenaphthene-d10	...	7.995	164	254898	40.00	ng		0.00
73) Phenanthrene-d10	...	9.662	188	457563	40.00	ng		0.00
92) Chrysene-d12	...	12.606	240	416043	40.00	ng		0.00
105) Perylene-d12	...	14.069	264	424865	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.798	112	406643	119.42	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 119.42%#					
9) Phenol-d5	...	3.957	99	491378	118.84	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 118.84%#					
24) Nitrobenzene-d5	...	5.079	82	399132	119.67	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 239.34%#					
50) 2-Fluorobiphenyl	...	7.269	172	948419	115.22	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 230.44%#					
72) 2,4,6-Tribromophenol	...	8.898	330	129849	131.72	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 131.72%#					
94) 4-Terphenyl-d14	...	11.473	244	1222100	118.84	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 237.68%#					
Target Compounds								Qvalue
2) Pyridine	...	1.521	79	498784	119.12	ng		97
3) 2-Picoline	...	2.173	93	508769	119.71	ng		99
4) Methyl methanesulfonate	...	2.616	80	211542	119.06	ng		95
6) Ethyl methanesulfonate	...	3.423	79	329105	118.73	ng		98
7) Benzaldehyde	...	3.786	105	262706	118.96	ng		98
8) Aniline	...	3.941	66	246164	117.37	ng		91
10) Phenol	...	3.978	94	591235	117.85	ng	#	58
11) Bis(2-chloroethyl)ether	...	4.053	93	412287	115.88	ng		98
12) 2-Chlorophenol	...	4.090	128	458037	119.27	ng		98
13) 1,3-Dichlorobenzene	...	4.283	146	512377	116.97	ng		99
14) 1,4-Dichlorobenzene	...	4.379	146	516307	116.61	ng		98
15) 1,2-Dichlorobenzene	...	4.571	146	477371	115.70	ng		99
16) Benzyl alcohol	...	4.582	108	295925	119.97	ng		92
17) Bis(2-chloroisopropyl)ether	...	4.769	45	406169	109.16	ng		97
18) 2-Methylphenol	...	4.763	107	340430	117.93	ng		97
19) 3,4-Methylphenol	...	4.977	107	883567	235.36	ng		98
20) N-Nitrosodi-n-propylamine	...	4.940	70	273829	115.62	ng		92
21) N-Nitrosodimethylamine	...	1.510	42	148868	115.94	ng	#	82
22) Hexachloroethane	...	4.993	117	186172	119.21	ng		98
25) Acetophenone	...	4.908	105	1105604	226.40	ng		97
26) Nitrobenzene	...	5.105	123	228091	120.89	ng		90
27) N-Nitrosopiperidine	...	5.292	114	220585	118.57	ng		88
28) Isophorone	...	5.421	82	808177	117.47	ng		97
29) 2-Nitrophenol	...	5.501	139	234270	129.73	ng		94
30) 2,4-Dimethylphenol	...	5.624	122	394623	118.21	ng		96
31) Bis(2-chloroethoxy)methane	...	5.730	93	508153	117.35	ng		100
32) 2,4-Dichlorophenol	...	5.811	162	387503	121.27	ng		98
33) 1,2,4-Trichlorobenzene	...	5.896	180	423565	117.50	ng		100
34) Naphthalene	...	5.976	128	1277132	113.24	ng		99
35) Benzoic acid	...	5.805	122	102048	116.15	ng		78
36) 2,6-Dichlorophenol	...	6.083	162	373612	120.03	ng		99
37) 4-Chloroaniline	...	6.083	127	550890	116.31	ng		99
38) Hexachlorobutadiene	...	6.168	225	241509	117.62	ng		100
39) a,a-Dimethylphenethylamine	...	5.960	58	1055604	122.09	ng		89
40) Caprolactam	...	6.574	113	150501	124.19	ng	#	66

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042217.D
Acq On : 22 Apr 2021 1:22 pm
Operator : YH
Sample : bna120 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 23 14:48:18 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:47:24 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.719	107	372952	122.28	ng		94
42) N-Nitroso-di-n-butylamine	6.526	84	295238	109.69	ng		85
43) 2-Methylnaphthalene	6.809	141	753926	115.30	ng		98
44) 1-Methylnaphthalene	6.922	141	737852	114.87	ng		99
46) 1,2,4,5-Tetrachlorobenzene	7.013	216	405588	115.05	ng		99
47) Hexachlorocyclopentadiene	7.018	237	241475	124.30	ng		96
48) 2,4,6-Trichlorophenol	7.167	196	284166	125.14	ng		97
49) 2,4,5-Trichlorophenol	7.210	196	312646	122.89	ng		99
51) Biphenyl	7.370	154	976165	110.22	ng		97
52) 2-Chloronaphthalene	7.370	162	863699	116.28	ng		99
53) 1-Chloronaphthalene	7.392	162	749933	111.69	ng		99
54) 2-Nitroaniline	7.515	65	222047	127.37	ng		93
55) 3-Nitroaniline	7.990	138	266367	129.07	ng		92
56) Pentachlorobenzene	8.198	250	369399	118.77	ng		99
57) 4-Nitroaniline	8.695	138	274202	128.03	ng		91
58) 2-Naphthylamine	8.332	143	873064	116.91	ng		99
59) 1-Naphthylamine	8.428	143	923269	115.65	ng		100
60) Dimethyl phthalate	7.766	163	955448	118.69	ng		100
61) Acenaphthylene	7.835	152	1294261	116.35	ng		99
62) 2,6-Dinitrotoluene	7.808	165	221321	131.52	ng		97
63) Acenaphthene	8.038	154	780496	115.78	ng		98
64) 2,4-Dinitrophenol	8.113	184	96753	117.26	ng		88
65) Dibenzofuran	8.241	168	1185775	114.47	ng		97
66) 4-Nitrophenol	8.241	109	127920	126.72	ng	#	77
67) 2,4-Dinitrotoluene	8.268	165	308523	131.84	ng		96
68) 2,3,4,6-Tetrachlorophenol	8.401	232	232959	130.22	ng		99
69) Diethyl phthalate	8.572	149	940864	120.64	ng		100
70) Fluorene	8.626	166	999221	115.90	ng		99
71) 4-Chlorophenyl phenyl ether	8.653	204	485537	117.19	ng		99
74) 4,6-Dinitro-2-methylphenol	8.722	198	160985	117.16	ng		98
75) Azobenzene	8.829	77	811524	111.59	ng		98
76) 1,2-Diphenylhydrazine	8.829	182	263741	118.63	ng		91
77) Diphenylamine	8.802	170	179590	115.90	ng		96
78) N-Nitrosodiphenylamine	8.802	168	839908	114.92	ng		99
79) 4-Bromophenyl phenyl ether	9.192	248	287486	116.95	ng		98
80) Phenacetin	9.192	108	456364	121.98	ng		98
81) Hexachlorobenzene	9.246	284	316419	120.16	ng		97
82) Atrazine	9.438	200	273745	119.70	ng		97
83) 4-Aminobiphenyl	9.491	169	1072275	115.85	ng		99
84) Pentachlorophenol	9.486	266	197057	135.14	ng		99
85) Pentachloronitrobenzene	9.497	237	121045	126.52	ng		97
86) Pronamide	9.603	173	411735	123.70	ng		99
87) Phenanthrene	9.689	178	1427859	114.56	ng		98
88) Anthracene	9.748	178	1451709	115.79	ng		99
89) Carbazole	9.945	167	1312476	116.68	ng		98
90) Di-n-butyl phthalate	10.405	149	1596269	119.62	ng		99
91) Fluoranthene	11.014	202	1640798	118.27	ng		98
93) Pyrene	11.254	202	1688603	116.71	ng		99
95) Benzidine	11.195	184	770530	142.35	ng		99
96) p-Dimethylaminoazobenzene	11.639	225	374684	130.69	ng		97
97) Butyl benzyl phthalate	12.055	149	752213	126.59	ng		98
98) Benz(a)anthracene	12.595	228	1617355	119.28	ng		99
99) 3,3'-Dichlorobenzidine	12.600	252	577301	116.89	ng		99
100) Chrysene	12.638	228	1666111	118.38	ng		98
101) Bis(2-ethylhexyl)phthalate	12.729	149	1042888	132.58	ng		99
102) Di-n-octyl phthalate	13.412	149	1760961	133.96	ng		99
103) 3-Methylcholanthrene	14.347	268	603521	131.03	ng		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042217.D
Acq On : 22 Apr 2021 1:22 pm
Operator : YH
Sample : bna120 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 23 14:48:18 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:47:24 2021
Response via : Initial Calibration

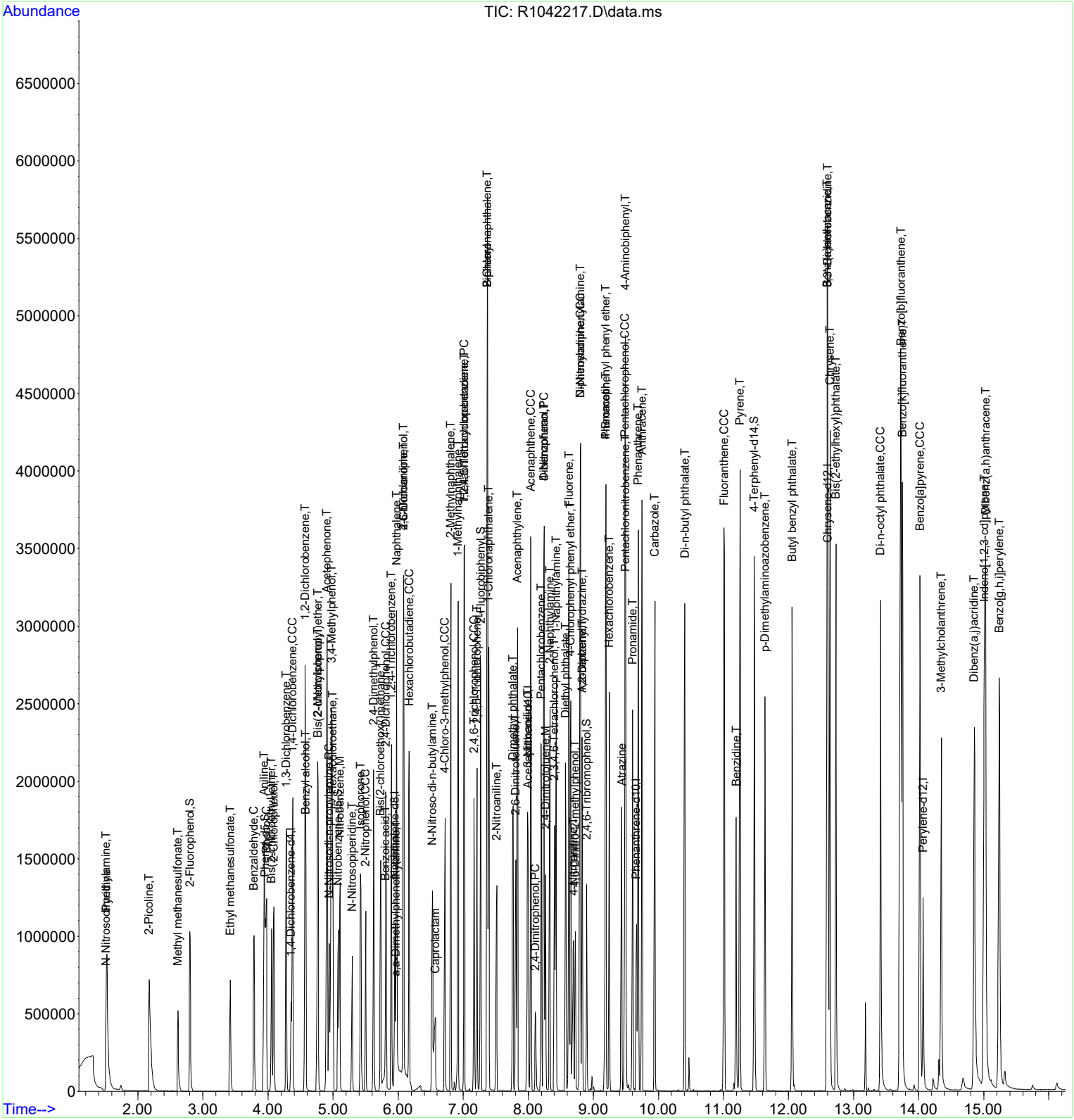
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	... 15.010	276	1994716	126.34	ng	97
106) Benzo[b]fluoranthene	... 13.728	252	1935931	135.58	ng	99
107) Benzo[k]fluoranthene	... 13.749	252	1471095	103.40	ng	98
108) Benzo[a]pyrene	... 14.021	252	1573220	125.60	ng	99
109) Dibenz(a,j)acridine	... 14.855	279	1422523	132.68	ng	99
110) Dibenz(a,h)anthracene	... 15.031	278	1638484	124.42	ng	98
111) Benzo[g,h,i]perylene	... 15.239	276	1651661	123.01	ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042217.D
Acq On : 22 Apr 2021 1:22 pm
Operator : YH
Sample : bna120 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 23 14:48:18 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:47:24 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042218.D
Acq On : 22 Apr 2021 1:51 pm
Operator : YH
Sample : bna160 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 23 14:51:14 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:50:28 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.357	152	108292	40.00	ng		0.00
23) Naphthalene-d8	...	5.949	136	430544	40.00	ng		0.00
45) Acenaphthene-d10	...	8.000	164	254201	40.00	ng		0.00
73) Phenanthrene-d10	...	9.662	188	458725	40.00	ng		0.00
92) Chrysene-d12	...	12.611	240	410990	40.00	ng		0.00
105) Perylene-d12	...	14.069	264	435035	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.803	112	545887	161.58	ng		0.00
Spiked Amount 100.000	Range 21 - 110			Recovery = 161.58%#				
9) Phenol-d5	...	3.967	99	650965	158.69	ng		0.00
Spiked Amount 100.000	Range 10 - 110			Recovery = 158.69%#				
24) Nitrobenzene-d5	...	5.084	82	539780	161.87	ng		0.00
Spiked Amount 50.000	Range 34 - 114			Recovery = 323.74%#				
50) 2-Fluorobiphenyl	...	7.269	172	1251276	152.43	ng		0.00
Spiked Amount 50.000	Range 43 - 116			Recovery = 304.86%#				
72) 2,4,6-Tribromophenol	...	8.903	330	181127	184.25	ng		0.00
Spiked Amount 100.000	Range 10 - 123			Recovery = 184.25%#				
94) 4-Terphenyl-d14	...	11.478	244	1665029	163.90	ng		0.00
Spiked Amount 50.000	Range 33 - 141			Recovery = 327.80%#				
Target Compounds								Qvalue
2) Pyridine	...	1.520	79	666191	160.37	ng		97
3) 2-Picoline	...	2.172	93	686736	162.87	ng		99
4) Methyl methanesulfonate	...	2.621	80	285733	162.09	ng		95
6) Ethyl methanesulfonate	...	3.428	79	443075	161.11	ng		98
7) Benzaldehyde	...	3.785	105	404978	184.84	ng		98
8) Aniline	...	3.940	66	326100	156.72	ng		92
10) Phenol	...	3.983	94	783778	157.48	ng	#	58
11) Bis(2-chloroethyl)ether	...	4.058	93	552715	156.58	ng		98
12) 2-Chlorophenol	...	4.090	128	614220	161.21	ng		99
13) 1,3-Dichlorobenzene	...	4.282	146	675307	155.39	ng		99
14) 1,4-Dichlorobenzene	...	4.378	146	677595	154.25	ng		99
15) 1,2-Dichlorobenzene	...	4.571	146	626385	153.02	ng		99
16) Benzyl alcohol	...	4.587	108	396633	162.08	ng		92
17) Bis(2-chloroisopropyl)ether	...	4.768	45	520728	141.06	ng		95
18) 2-Methylphenol	...	4.768	107	451283	157.57	ng		97
19) 3,4-Methylphenol	...	4.982	107	1128649	303.03	ng		99
20) N-Nitrosodi-n-propylamine	...	4.945	70	342457	145.75	ng		94
21) N-Nitrosodimethylamine	...	1.515	42	200797	157.63	ng	#	83
22) Hexachloroethane	...	4.998	117	234308	151.22	ng		99
25) Acetophenone	...	4.913	105	1472043	301.49	ng		97
26) Nitrobenzene	...	5.110	123	303101	160.67	ng		90
27) N-Nitrosopiperidine	...	5.303	114	296387	159.35	ng		89
28) Isophorone	...	5.431	82	1081397	157.21	ng		97
29) 2-Nitrophenol	...	5.506	139	319164	176.77	ng		94
30) 2,4-Dimethylphenol	...	5.629	122	528886	158.47	ng		96
31) Bis(2-chloroethoxy)methane	...	5.735	93	676626	156.29	ng		99
32) 2,4-Dichlorophenol	...	5.821	162	512318	160.37	ng		99
33) 1,2,4-Trichlorobenzene	...	5.901	180	560118	155.41	ng		100
34) Naphthalene	...	5.981	128	1662097	147.41	ng		98
35) Benzoic acid	...	5.842	122	161965	163.09	ng	#	78
36) 2,6-Dichlorophenol	...	6.088	162	493713	158.65	ng		100
37) 4-Chloroaniline	...	6.088	127	724107	152.91	ng		97
38) Hexachlorobutadiene	...	6.168	225	323501	157.58	ng		99
39) a,a-Dimethylphenethylamine	...	6.013	58	1453899	168.53	ng		90
40) Caprolactam	...	6.601	113	205366	169.50	ng	#	66

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042218.D
Acq On : 22 Apr 2021 1:51 pm
Operator : YH
Sample : bna160 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 23 14:51:14 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:50:28 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.729	107	502197	164.68	ng		94
42) N-Nitroso-di-n-butylamine	6.531	84	381547	141.79	ng		82
43) 2-Methylnaphthalene	6.814	141	988193	151.16	ng		98
44) 1-Methylnaphthalene	6.927	141	971053	151.20	ng		99
46) 1,2,4,5-Tetrachlorobenzene	7.017	216	535303	152.27	ng		99
47) Hexachlorocyclopentadiene	7.017	237	324182	167.33	ng		95
48) 2,4,6-Trichlorophenol	7.172	196	383719	169.45	ng		97
49) 2,4,5-Trichlorophenol	7.215	196	423797	167.04	ng		98
51) Biphenyl	7.375	154	1230049	139.27	ng		97
52) 2-Chloronaphthalene	7.375	162	1191255	160.81	ng		99
53) 1-Chloronaphthalene	7.397	162	925388	138.20	ng		99
54) 2-Nitroaniline	7.520	65	300268	172.71	ng		92
55) 3-Nitroaniline	7.995	138	367189	178.41	ng	#	92
56) Pentachlorobenzene	8.203	250	497419	160.36	ng		99
57) 4-Nitroaniline	8.706	138	380346	178.07	ng		92
58) 2-Naphthylamine	8.337	143	1161924	156.01	ng		100
59) 1-Naphthylamine	8.433	143	1240177	155.77	ng		100
60) Dimethyl phthalate	7.771	163	1298610	161.76	ng		100
61) Acenaphthylene	7.835	152	1701656	153.40	ng		98
62) 2,6-Dinitrotoluene	7.813	165	307024	182.95	ng		98
63) Acenaphthene	8.043	154	1027399	152.82	ng		98
64) 2,4-Dinitrophenol	8.118	184	143174	164.56	ng		88
65) Dibenzofuran	8.241	168	1562548	151.25	ng		95
66) 4-Nitrophenol	8.252	109	175616	174.44	ng	#	81
67) 2,4-Dinitrotoluene	8.273	165	432764	185.44	ng		86
68) 2,3,4,6-Tetrachlorophenol	8.406	232	319379	179.01	ng		98
69) Diethyl phthalate	8.577	149	1251675	160.93	ng		100
70) Fluorene	8.631	166	1333001	155.04	ng		99
71) 4-Chlorophenyl phenyl ether	8.652	204	659066	159.50	ng		100
74) 4,6-Dinitro-2-methylphenol	8.732	198	236010	165.44	ng		96
75) Azobenzene	8.834	77	1266006	173.64	ng		95
76) 1,2-Diphenylhydrazine	8.834	182	355110	159.33	ng	#	86
77) Diphenylamine	8.807	170	237022	152.57	ng	#	95
78) N-Nitrosodiphenylamine	8.807	168	1099151	150.01	ng		99
79) 4-Bromophenyl phenyl ether	9.197	248	391402	158.82	ng		98
80) Phenacetin	9.202	108	617011	164.50	ng		97
81) Hexachlorobenzene	9.251	284	427133	161.79	ng		98
82) Atrazine	9.443	200	362768	158.22	ng		98
83) 4-Aminobiphenyl	9.496	169	1373869	148.06	ng		99
84) Pentachlorophenol	9.491	266	273452	187.05	ng		99
85) Pentachloronitrobenzene	9.507	237	164875	171.90	ng		98
86) Pronamide	9.608	173	557593	167.09	ng		99
87) Phenanthrene	9.694	178	1899950	152.05	ng		98
88) Anthracene	9.753	178	1916082	152.45	ng		98
89) Carbazole	9.950	167	1765148	156.52	ng		98
90) Di-n-butyl phthalate	10.404	149	2148503	160.59	ng		99
91) Fluoranthene	11.013	202	2195137	157.82	ng		98
93) Pyrene	11.259	202	2247093	157.23	ng		98
95) Benzidine	11.195	184	596225	111.51	ng		99
96) p-Dimethylaminoazobenzene	11.644	225	508808	179.65	ng		97
97) Butyl benzyl phthalate	12.060	149	1024734	174.57	ng		97
98) Benz(a)anthracene	12.595	228	2167409	161.82	ng		99
99) 3,3'-Dichlorobenzidine	12.605	252	705265	144.55	ng		99
100) Chrysene	12.643	228	2205693	158.64	ng		98
101) Bis(2-ethylhexyl)phthalate	12.734	149	1406477	181.00	ng		99
102) Di-n-octyl phthalate	13.417	149	2384372	183.62	ng		98
103) 3-Methylcholanthrene	14.352	268	821946	180.65	ng		97

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042218.D
Acq On : 22 Apr 2021 1:51 pm
Operator : YH
Sample : bna160 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 23 14:51:14 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:50:28 2021
Response via : Initial Calibration

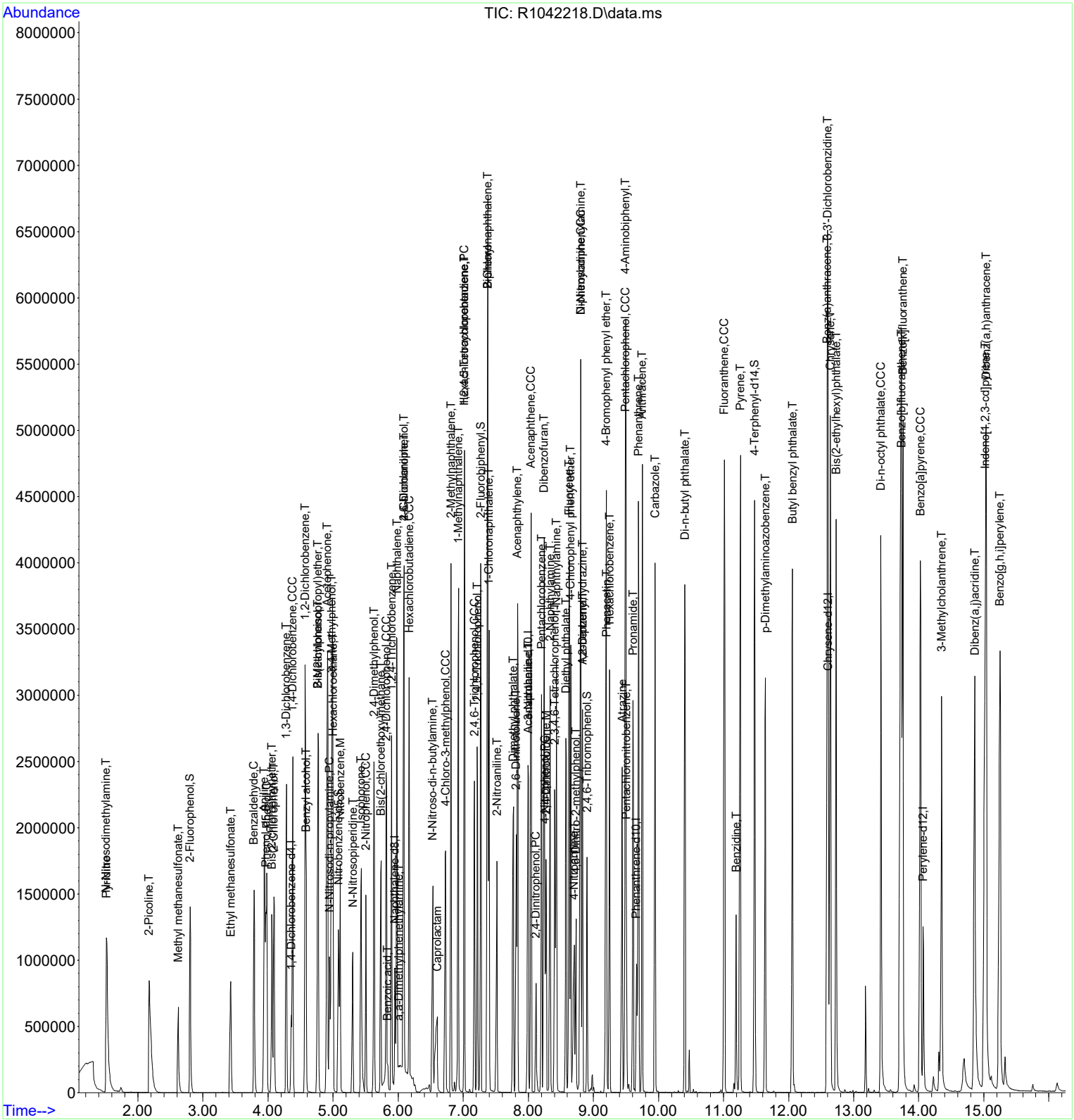
Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	15.025	276	2709004	173.69	ng	98
106) Benzo[b]fluoranthene	...	13.738	252	2535835	173.45	ng	98
107) Benzo[k]fluoranthene	...	13.759	252	1996246	137.04	ng	99
108) Benzo[a]pyrene	...	14.026	252	2143581	167.13	ng	99
109) Dibenz(a,j)acridine	...	14.865	279	1973413	179.76	ng	98
110) Dibenz(a,h)anthracene	...	15.036	278	2210293	163.91	ng	98
111) Benzo[g,h,i]perylene	...	15.250	276	2242523	163.11	ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042218.D
Acq On : 22 Apr 2021 1:51 pm
Operator : YH
Sample : bna160 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 23 14:51:14 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:50:28 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042219.D
Acq On : 22 Apr 2021 2:18 pm
Operator : YH
Sample : bna5 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 23 14:54:00 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:53:14 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.354	152	110753	40.00	ng		0.00
23) Naphthalene-d8	...	5.941	136	430954	40.00	ng		0.00
45) Acenaphthene-d10	...	7.992	164	252426	40.00	ng		0.00
73) Phenanthrene-d10	...	9.654	188	451164	40.00	ng		0.00
92) Chrysene-d12	...	12.592	240	396937	40.00	ng		0.00
105) Perylene-d12	...	14.061	264	380618	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.794	112	16623	4.81	ng		0.00
Spiked Amount 100.000	Range 21 - 110			Recovery =	4.81%#			
9) Phenol-d5	...	3.938	99	19845	4.73	ng		0.00
Spiked Amount 100.000	Range 10 - 110			Recovery =	4.73%#			
24) Nitrobenzene-d5	...	5.065	82	15938	4.78	ng		0.00
Spiked Amount 50.000	Range 34 - 114			Recovery =	9.56%#			
50) 2-Fluorobiphenyl	...	7.255	172	41892	5.14	ng		0.00
Spiked Amount 50.000	Range 43 - 116			Recovery =	10.28%#			
72) 2,4,6-Tribromophenol	...	8.884	330	3800	3.89	ng		0.00
Spiked Amount 100.000	Range 10 - 123			Recovery =	3.89%#			
94) 4-Terphenyl-d14	...	11.465	244	46256	4.71	ng		0.00
Spiked Amount 50.000	Range 33 - 141			Recovery =	9.42%#			
Target Compounds					Qvalue			
2) Pyridine	...	1.539	79	21484	5.06	ng		96
3) 2-Picoline	...	2.196	93	21076	4.89	ng		96
4) Methyl methanesulfonate	...	2.623	80	8532	4.73	ng		96
6) Ethyl methanesulfonate	...	3.414	79	13553	4.82	ng		98
7) Benzaldehyde	...	3.783	105	11791	5.26	ng		97
8) Aniline	...	3.932	66	9727	4.57	ng	#	82
10) Phenol	...	3.954	94	24846	4.88	ng	#	33
11) Bis(2-chloroethyl)ether	...	4.045	93	17666	4.89	ng		98
12) 2-Chlorophenol	...	4.082	128	18807	4.83	ng		98
13) 1,3-Dichlorobenzene	...	4.274	146	22473	5.06	ng		99
14) 1,4-Dichlorobenzene	...	4.376	146	22709	5.05	ng		98
15) 1,2-Dichlorobenzene	...	4.568	146	21449	5.12	ng		97
16) Benzyl alcohol	...	4.563	108	11891	4.75	ng		92
17) Bis(2-chloroisopropyl)ether	...	4.766	45	19666	5.21	ng		97
18) 2-Methylphenol	...	4.744	107	13983	4.77	ng		98
19) 3,4-Methylphenol	...	4.947	107	37414	9.82	ng		97
20) N-Nitrosodi-n-propylamine	...	4.921	70	12151	5.06	ng		96
21) N-Nitrosodimethylamine	...	1.518	42	6427	4.93	ng	#	91
22) Hexachloroethane	...	4.990	117	7852	4.96	ng		97
25) Acetophenone	...	4.889	105	50296	10.29	ng		98
26) Nitrobenzene	...	5.092	123	8905	4.72	ng		97
27) N-Nitrosopiperidine	...	5.279	114	9070	4.87	ng		89
28) Isophorone	...	5.407	82	33815	4.91	ng		97
29) 2-Nitrophenol	...	5.492	139	7706	4.26	ng		93
30) 2,4-Dimethylphenol	...	5.610	122	15932	4.77	ng		94
31) Bis(2-chloroethoxy)methane	...	5.717	93	21341	4.92	ng		99
32) 2,4-Dichlorophenol	...	5.802	162	15014	4.70	ng		99
33) 1,2,4-Trichlorobenzene	...	5.888	180	18087	5.01	ng		98
34) Naphthalene	...	5.968	128	57871	5.13	ng		99
35) Benzoic acid	...	5.706	122	1586	37.48	ng	#	82
36) 2,6-Dichlorophenol	...	6.074	162	14974	4.81	ng		98
37) 4-Chloroaniline	...	6.069	127	22697	4.79	ng		97
38) Hexachlorobutadiene	...	6.165	225	10323	5.02	ng		98
39) a,a-Dimethylphenethylamine	...	5.829	58	28834	3.34	ng		84
40) Caprolactam	...	6.448	113	4836	3.99	ng	#	69

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042219.D
Acq On : 22 Apr 2021 2:18 pm
Operator : YH
Sample : bna5 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 23 14:54:00 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:53:14 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.694	107	13697	4.49	ng		95
42) N-Nitroso-di-n-butylamine	6.513	84	11875	4.41	ng		84
43) 2-Methylnaphthalene	6.801	141	32957	5.04	ng		98
44) 1-Methylnaphthalene	6.913	141	32840	5.11	ng		100
46) 1,2,4,5-Tetrachlorobenzene	7.004	216	17904	5.13	ng		98
47) Hexachlorocyclopentadiene	7.009	237	7476	3.89	ng	#	91
48) 2,4,6-Trichlorophenol	7.154	196	9894	4.40	ng		97
49) 2,4,5-Trichlorophenol	7.191	196	11387	4.52	ng		96
51) Biphenyl	7.357	154	46981	5.36	ng		98
52) 2-Chloronaphthalene	7.357	162	36918	5.02	ng		98
53) 1-Chloronaphthalene	7.378	162	35590	5.35	ng		99
54) 2-Nitroaniline	7.496	65	7003	4.06	ng		97
55) 3-Nitroaniline	7.971	138	8042	3.93	ng		94
56) Pentachlorobenzene	8.190	250	15359	4.99	ng		98
57) 4-Nitroaniline	8.655	138	8096	3.82	ng		96
58) 2-Naphthylamine	8.313	143	34203	4.62	ng		98
59) 1-Naphthylamine	8.409	143	37174	4.70	ng		96
60) Dimethyl phthalate	7.747	163	38993	4.89	ng		99
61) Acenaphthylene	7.827	152	53889	4.89	ng		100
62) 2,6-Dinitrotoluene	7.789	165	6859	4.12	ng		92
63) Acenaphthene	8.030	154	33981	5.09	ng		99
64) 2,4-Dinitrophenol	8.088	184	871	20.39	ng		94
65) Dibenzofuran	8.227	168	53169	5.18	ng		90
66) 4-Nitrophenol	8.211	109	3811	3.81	ng	#	39
67) 2,4-Dinitrotoluene	8.243	165	8484	3.66	ng	#	76
68) 2,3,4,6-Tetrachlorophenol	8.388	232	7230	4.08	ng		95
69) Diethyl phthalate	8.553	149	37567	4.86	ng		97
70) Fluorene	8.612	166	43342	5.08	ng		97
71) 4-Chlorophenyl phenyl ether	8.644	204	20912	5.10	ng		98
74) 4,6-Dinitro-2-methylphenol	8.692	198	2245	14.22	ng	#	1
75) Azobenzene	8.815	77	34411	4.80	ng		98
76) 1,2-Diphenylhydrazine	8.815	182	10248	4.68	ng		96
77) Diphenylamine	8.778	170	7655	5.01	ng		99
78) N-Nitrosodiphenylamine	8.778	168	36058	5.00	ng		98
79) 4-Bromophenyl phenyl ether	9.184	248	12004	4.95	ng		97
80) Phenacetin	9.152	108	15195	4.12	ng		97
81) Hexachlorobenzene	9.232	284	12828	4.94	ng		94
82) Atrazine	9.408	200	10265	4.55	ng		96
83) 4-Aminobiphenyl	9.472	169	39144	4.29	ng		99
84) Pentachlorophenol	9.467	266	4827	3.36	ng		95
85) Pentachloronitrobenzene	9.477	237	3627	3.84	ng		89
86) Pronamide	9.584	173	13511	4.12	ng		98
87) Phenanthrene	9.675	178	63278	5.15	ng		99
88) Anthracene	9.734	178	61282	4.96	ng		99
89) Carbazole	9.932	167	53678	4.84	ng		100
90) Di-n-butyl phthalate	10.396	149	56126	4.27	ng		98
91) Fluoranthene	11.000	202	63819	4.67	ng		99
93) Pyrene	11.240	202	67297	4.88	ng		98
95) Benzidine	11.182	184	14922	2.89	ng	#	84
96) p-Dimethylaminoazobenzene	11.630	225	10148	3.71	ng		96
97) Butyl benzyl phthalate	12.047	149	21890	3.86	ng		98
98) Benz(a)anthracene	12.581	228	60263	4.66	ng		100
99) 3,3'-Dichlorobenzidine	12.587	252	20707	4.39	ng		98
100) Chrysene	12.619	228	67472	5.02	ng		98
101) Bis(2-ethylhexyl)phthalate	12.725	149	28358	3.78	ng		98
102) Di-n-octyl phthalate	13.404	149	36487	2.91	ng	#	97
103) 3-Methylcholanthrene	14.333	268	15525	3.53	ng		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042219.D
Acq On : 22 Apr 2021 2:18 pm
Operator : YH
Sample : bna5 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 23 14:54:00 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:53:14 2021
Response via : Initial Calibration

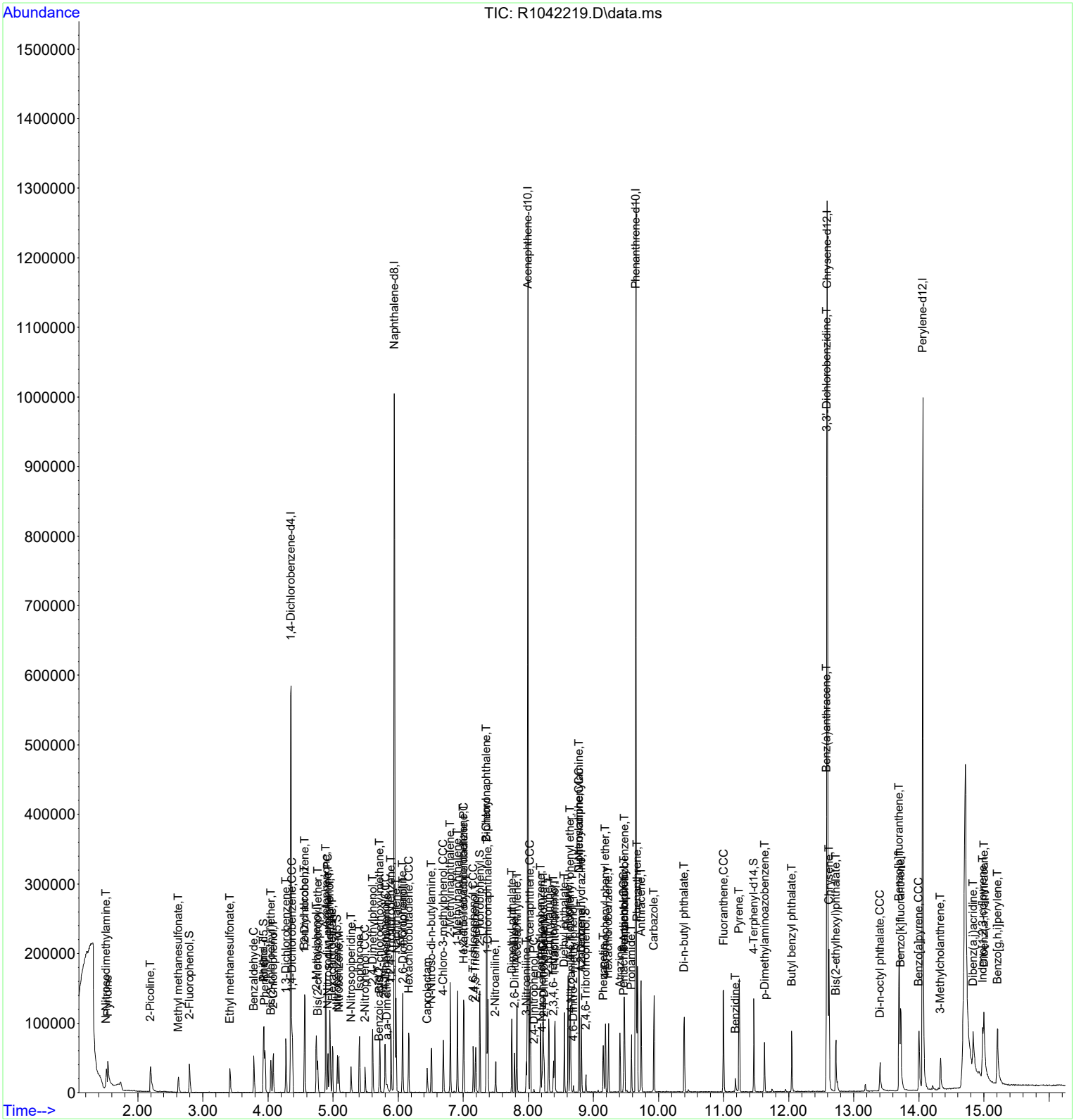
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	... 14.980	276	67206	4.46	ng	100
106) Benzo[b]fluoranthene	... 13.698	252	50616	3.96	ng	98
107) Benzo[k]fluoranthene	... 13.724	252	68386	5.37	ng	97
108) Benzo[a]pyrene	... 14.002	252	44373	3.95	ng	100
109) Dibenz(a,j)acridine	... 14.836	279	44968	4.68	ng	96
110) Dibenz(a,h)anthracene	... 15.001	278	57656	4.89	ng	94
111) Benzo[g,h,i]perylene	... 15.210	276	60435	5.02	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042219.D
Acq On : 22 Apr 2021 2:18 pm
Operator : YH
Sample : bna5 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 23 14:54:00 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:53:14 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.352	152	110909	40.00	ng		0.00
23) Naphthalene-d8	...	5.944	136	436527	40.00	ng		0.00
45) Acenaphthene-d10	...	7.995	164	257989	40.00	ng		0.00
73) Phenanthrene-d10	...	9.657	188	453481	40.00	ng		0.00
92) Chrysene-d12	...	12.600	240	428210	40.00	ng		0.00
105) Perylene-d12	...	14.064	264	474886	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.792	112	135326	39.11	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 39.11%					
9) Phenol-d5	...	3.941	99	163732	38.97	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 38.97%					
24) Nitrobenzene-d5	...	5.068	82	131479	38.89	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 77.78%					
50) 2-Fluorobiphenyl	...	7.258	172	329074	39.50	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 79.00%					
72) 2,4,6-Tribromophenol	...	8.888	330	38724	38.81	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 38.81%					
94) 4-Terphenyl-d14	...	11.468	244	412010	38.93	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 77.86%					
Target Compounds								Qvalue
2) Pyridine	...	1.526	79	160734	37.78	ng		97
3) 2-Picoline	...	2.178	93	104418	24.18	ng		97
4) Methyl methanesulfonate	...	2.616	80	39699	21.99	ng		96
6) Ethyl methanesulfonate	...	3.412	79	100716	35.76	ng		98
7) Benzaldehyde	...	3.780	105	105450	46.99	ng		98
8) Aniline	...	3.935	66	76912	36.09	ng	#	89
10) Phenol	...	3.962	94	190079	37.29	ng	#	58
11) Bis(2-chloroethyl)ether	...	4.048	93	142389	39.39	ng		99
12) 2-Chlorophenol	...	4.080	128	148305	38.01	ng		99
13) 1,3-Dichlorobenzene	...	4.277	146	168816	37.93	ng		99
14) 1,4-Dichlorobenzene	...	4.373	146	173934	38.66	ng		99
15) 1,2-Dichlorobenzene	...	4.566	146	159976	38.16	ng		99
16) Benzyl alcohol	...	4.566	108	95405	38.07	ng		92
17) Bis(2-chloroisopropyl)ether	...	4.763	45	125707	33.25	ng		93
18) 2-Methylphenol	...	4.747	107	114862	39.16	ng		93
19) 3,4-Methylphenol	...	4.961	107	328784	86.19	ng		97
20) N-Nitrosodi-n-propylamine	...	4.924	70	88487	36.77	ng		94
21) N-Nitrosodimethylamine	...	1.510	42	50304	38.56	ng		85
22) Hexachloroethane	...	4.993	117	61083	38.49	ng		98
25) Acetophenone	...	4.892	105	200057	40.41	ng		99
26) Nitrobenzene	...	5.095	123	74640	39.02	ng		94
27) N-Nitrosopiperidine	...	5.282	114	74266	39.38	ng		89
28) Isophorone	...	5.410	82	265616	38.08	ng		98
29) 2-Nitrophenol	...	5.495	139	73752	40.29	ng		94
30) 2,4-Dimethylphenol	...	5.613	122	128874	38.08	ng		96
31) Bis(2-chloroethoxy)methane	...	5.720	93	170773	38.90	ng		99
32) 2,4-Dichlorophenol	...	5.800	162	127816	39.46	ng		99
33) 1,2,4-Trichlorobenzene	...	5.891	180	141991	38.86	ng		99
34) Naphthalene	...	5.971	128	457322	40.00	ng		100
35) Benzoic acid	...	5.725	122	11479	45.11	ng	#	71
36) 2,6-Dichlorophenol	...	6.078	162	121814	38.61	ng		99
37) 4-Chloroaniline	...	6.072	127	184507	38.43	ng		97
38) Hexachlorobutadiene	...	6.163	225	78872	37.89	ng		99
39) a,a-Dimethylphenethylamine	...	5.859	58	329101	37.62	ng		77
40) Caprolactam	...	6.505	113	58104	47.30	ng		91

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.703	107	118693	38.39	ng		93
42) N-Nitroso-di-n-butylamine	6.516	84	126183	46.25	ng		95
43) 2-Methylnaphthalene	6.804	141	254033	38.32	ng		98
44) 1-Methylnaphthalene	6.916	141	255072	39.17	ng		99
46) 1,2,4,5-Tetrachlorobenzene	7.007	216	137764	38.61	ng		99
47) Hexachlorocyclopentadiene	7.012	237	59664	30.34	ng		99
48) 2,4,6-Trichlorophenol	7.162	196	87557	38.10	ng		97
49) 2,4,5-Trichlorophenol	7.199	196	99355	38.59	ng		98
51) Biphenyl	7.365	154	405351	45.22	ng		98
52) 2-Chloronaphthalene	7.365	162	334019	44.43	ng		98
53) 1-Chloronaphthalene	7.386	162	222417	32.73	ng		98
54) 2-Nitroaniline	7.504	65	69307	39.28	ng		93
55) 3-Nitroaniline	7.974	138	81092	38.82	ng		94
56) Pentachlorobenzene	8.193	250	125472	39.86	ng		99
57) 4-Nitroaniline	8.668	138	86762	40.02	ng		96
58) 2-Naphthylamine	8.321	143	264413	34.98	ng		98
59) 1-Naphthylamine	8.412	143	268244	33.20	ng		98
60) Dimethyl phthalate	7.755	163	316564	38.85	ng		100
61) Acenaphthylene	7.830	152	435067	38.64	ng		100
62) 2,6-Dinitrotoluene	7.798	165	68156	40.02	ng		96
63) Acenaphthene	8.033	154	274403	40.22	ng		99
64) 2,4-Dinitrophenol	8.097	184	19831	39.30	ng		89
65) Dibenzofuran	8.230	168	416120	39.69	ng		98
66) 4-Nitrophenol	8.220	109	38871	38.04	ng	#	66
67) 2,4-Dinitrotoluene	8.246	165	91501	38.63	ng	#	81
68) 2,3,4,6-Tetrachlorophenol	8.391	232	71303	39.38	ng		99
69) Diethyl phthalate	8.562	149	307929	39.01	ng		99
70) Fluorene	8.615	166	332870	38.15	ng		99
71) 4-Chlorophenyl phenyl ether	8.647	204	162792	38.82	ng		99
74) 4,6-Dinitro-2-methylphenol	8.706	198	36338	36.53	ng		98
75) Azobenzene	8.818	77	302359	41.95	ng		99
76) 1,2-Diphenylhydrazine	8.823	182	93190	42.30	ng		99
77) Diphenylamine	8.786	170	69711	45.39	ng		99
78) N-Nitrosodiphenylamine	8.786	168	328611	45.37	ng		100
79) 4-Bromophenyl phenyl ether	9.187	248	93976	38.57	ng		97
80) Phenacetin	9.165	108	151545	40.87	ng		99
81) Hexachlorobenzene	9.240	284	99143	37.99	ng		97
82) Atrazine	9.422	200	108545	47.89	ng		97
83) 4-Aminobiphenyl	9.480	169	345753	37.69	ng		99
84) Pentachlorophenol	9.475	266	50854	35.19	ng		97
85) Pentachloronitrobenzene	9.486	237	38581	40.69	ng		96
86) Pronamide	9.593	173	146188	44.31	ng		100
87) Phenanthrene	9.684	178	483004	39.10	ng		100
88) Anthracene	9.737	178	433282	34.87	ng		100
89) Carbazole	9.935	167	533913	47.89	ng		100
90) Di-n-butyl phthalate	10.399	149	510960	38.63	ng		100
91) Fluoranthene	11.003	202	541249	39.36	ng		99
93) Pyrene	11.243	202	577348	38.77	ng		100
95) Benzidine	11.185	184	199926	35.89	ng		100
96) p-Dimethylaminoazobenzene	11.633	225	113035	38.31	ng		99
97) Butyl benzyl phthalate	12.050	149	229416	37.51	ng		99
98) Benz(a)anthracene	12.584	228	528678	37.88	ng		100
99) 3,3'-Dichlorobenzidine	12.590	252	195683	38.50	ng		99
100) Chrysene	12.627	228	543216	37.50	ng		99
101) Bis(2-ethylhexyl)phthalate	12.729	149	320053	39.53	ng		100
102) Di-n-octyl phthalate	13.407	149	501738	37.08	ng		99
103) 3-Methylcholanthrene	14.342	268	237084	50.01	ng		97

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

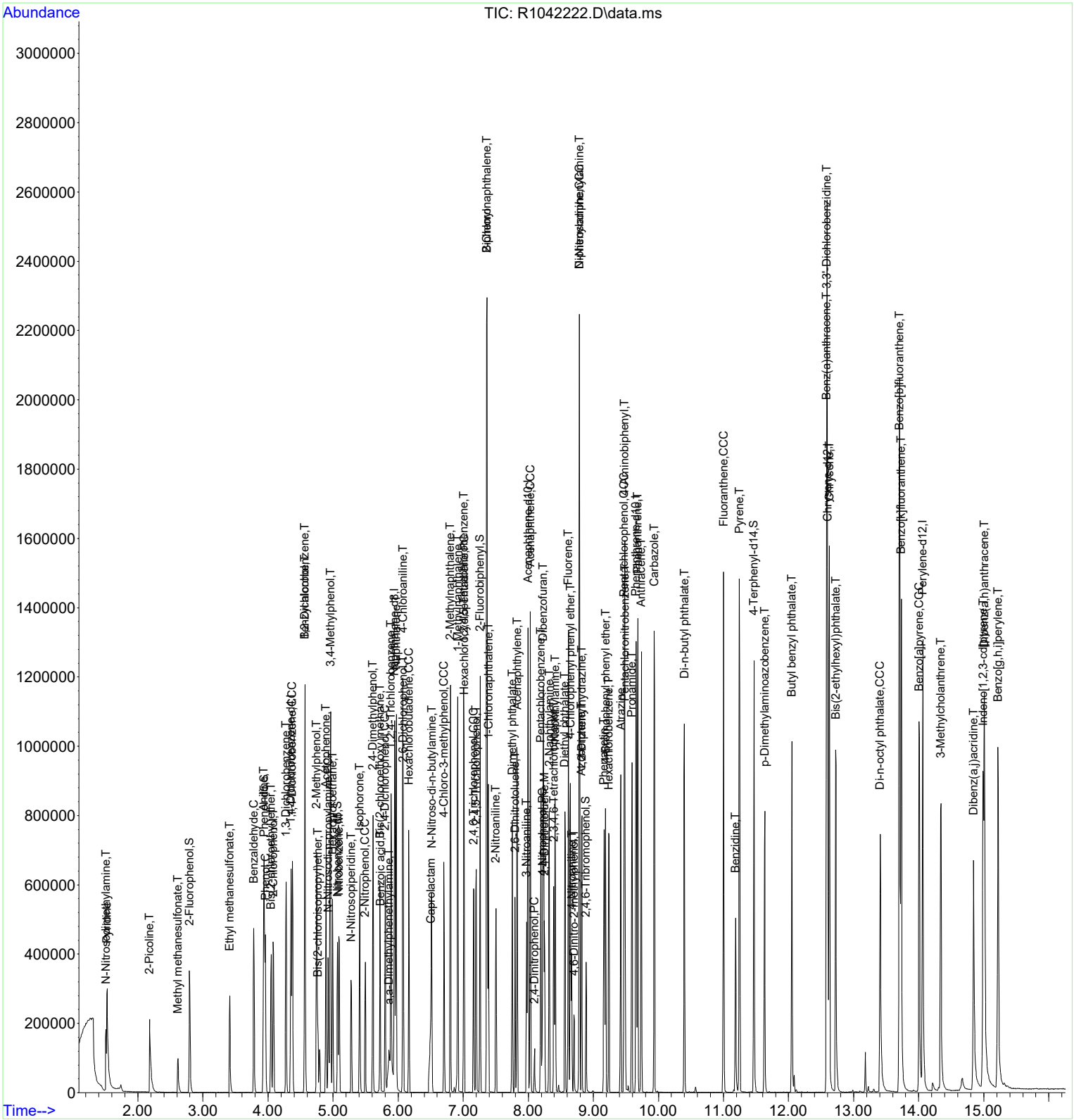
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	... 14.988	276	604103	37.18	ng	97
106) Benzo[b]fluoranthene	... 13.701	252	537627	33.69	ng	98
107) Benzo[k]fluoranthene	... 13.733	252	575470	36.20	ng	100
108) Benzo[a]pyrene	... 14.011	252	474062	33.86	ng	98
109) Dibenz(a,j)acridine	... 14.844	279	372972	31.12	ng	99
110) Dibenz(a,h)anthracene	... 15.010	278	500840	34.03	ng	99
111) Benzo[g,h,i]perylene	... 15.218	276	518070	34.52	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.352	152	117275	40.00	ng		0.00
23) Naphthalene-d8	...	5.949	136	452355	40.00	ng		0.00
45) Acenaphthene-d10	...	7.995	164	262352	40.00	ng		0.00
73) Phenanthrene-d10	...	9.662	188	463559	40.00	ng		0.00
92) Chrysene-d12	...	12.605	240	436890	40.00	ng		0.01
105) Perylene-d12	...	14.069	264	498417	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.797	112	284576	77.78	ng		0.00
Spiked Amount 100.000	Range 21 - 110			Recovery = 77.78%				
9) Phenol-d5	...	3.951	99	346490	78.00	ng		0.01
Spiked Amount 100.000	Range 10 - 110			Recovery = 78.00%				
24) Nitrobenzene-d5	...	5.073	82	283131	80.81	ng		0.00
Spiked Amount 50.000	Range 34 - 114			Recovery = 161.62%#				
50) 2-Fluorobiphenyl	...	7.263	172	679566	80.21	ng		0.00
Spiked Amount 50.000	Range 43 - 116			Recovery = 160.42%#				
72) 2,4,6-Tribromophenol	...	8.898	330	84826	83.61	ng		0.01
Spiked Amount 100.000	Range 10 - 123			Recovery = 83.61%				
94) 4-Terphenyl-d14	...	11.473	244	856922	79.35	ng		0.00
Spiked Amount 50.000	Range 33 - 141			Recovery = 158.70%#				
Target Compounds								Qvalue
2) Pyridine	...	1.520	79	324877	72.22	ng		98
3) 2-Picoline	...	2.172	93	309483	67.78	ng		98
4) Methyl methanesulfonate	...	2.615	80	138787	72.70	ng		95
6) Ethyl methanesulfonate	...	3.417	79	212679	71.41	ng		97
7) Benzaldehyde	...	3.780	105	162153	68.34	ng		98
8) Aniline	...	3.935	66	162128	71.95	ng	#	87
10) Phenol	...	3.967	94	398778	73.98	ng	#	58
11) Bis(2-chloroethyl)ether	...	4.052	93	298595	78.11	ng		99
12) 2-Chlorophenol	...	4.084	128	311085	75.39	ng		99
13) 1,3-Dichlorobenzene	...	4.277	146	354135	75.25	ng		99
14) 1,4-Dichlorobenzene	...	4.378	146	361217	75.93	ng		98
15) 1,2-Dichlorobenzene	...	4.571	146	330814	74.63	ng		99
16) Benzyl alcohol	...	4.576	108	199067	75.11	ng		93
17) Bis(2-chloroisopropyl)ether	...	4.763	45	257283	64.36	ng		95
18) 2-Methylphenol	...	4.752	107	240629	77.58	ng		94
19) 3,4-Methylphenol	...	4.971	107	646727	160.34	ng		98
20) N-Nitrosodi-n-propylamine	...	4.934	70	186619	73.34	ng		93
21) N-Nitrosodimethylamine	...	1.510	42	104260	75.58	ng	#	83
22) Hexachloroethane	...	4.993	117	128618	76.65	ng		98
25) Acetophenone	...	4.896	105	416412	81.17	ng		98
26) Nitrobenzene	...	5.099	123	159159	80.30	ng		92
27) N-Nitrosopiperidine	...	5.286	114	154017	78.81	ng		89
28) Isophorone	...	5.415	82	553417	76.57	ng		97
29) 2-Nitrophenol	...	5.500	139	160376	84.54	ng		95
30) 2,4-Dimethylphenol	...	5.618	122	276724	78.92	ng		96
31) Bis(2-chloroethoxy)methane	...	5.724	93	355627	78.18	ng		100
32) 2,4-Dichlorophenol	...	5.810	162	268848	80.10	ng		98
33) 1,2,4-Trichlorobenzene	...	5.895	180	298827	78.92	ng		99
34) Naphthalene	...	5.976	128	925495	78.12	ng		99
35) Benzoic acid	...	5.778	122	59119	80.31	ng	#	74
36) 2,6-Dichlorophenol	...	6.082	162	256957	78.59	ng		99
37) 4-Chloroaniline	...	6.077	127	385234	77.43	ng		99
38) Hexachlorobutadiene	...	6.168	225	165684	76.81	ng		99
39) a,a-Dimethylphenethylamine	...	5.917	58	703377	77.60	ng		84
40) Caprolactam	...	6.547	113	123761	97.22	ng	#	81

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 4-Chloro-3-methylphenol	6.713	107	258118	80.56	ng	94
42) N-Nitroso-di-n-butylamine	6.520	84	229104	81.03	ng	90
43) 2-Methylnaphthalene	6.809	141	524335	76.34	ng	98
44) 1-Methylnaphthalene	6.916	141	524086	77.67	ng	98
46) 1,2,4,5-Tetrachlorobenzene	7.012	216	288039	79.39	ng	99
47) Hexachlorocyclopentadiene	7.017	237	138861	69.45	ng	98
48) 2,4,6-Trichlorophenol	7.167	196	190219	81.39	ng	97
49) 2,4,5-Trichlorophenol	7.204	196	214469	81.91	ng	98
51) Biphenyl	7.370	154	796639	87.39	ng	98
52) 2-Chloronaphthalene	7.370	162	685295	89.64	ng	99
53) 1-Chloronaphthalene	7.391	162	448822	64.94	ng	98
54) 2-Nitroaniline	7.509	65	149853	83.51	ng	92
55) 3-Nitroaniline	7.984	138	174849	82.32	ng	95
56) Pentachlorobenzene	8.198	250	260639	81.42	ng	99
57) 4-Nitroaniline	8.684	138	186467	84.59	ng	95
58) 2-Naphthylamine	8.326	143	558797	72.70	ng	98
59) 1-Naphthylamine	8.422	143	558387	67.96	ng	98
60) Dimethyl phthalate	7.760	163	662430	79.95	ng	100
61) Acenaphthylene	7.829	152	901382	78.73	ng	99
62) 2,6-Dinitrotoluene	7.803	165	153509	88.63	ng	95
63) Acenaphthene	8.038	154	561699	80.95	ng	98
64) 2,4-Dinitrophenol	8.107	184	49592	68.19	ng	92
65) Dibenzofuran	8.235	168	849540	79.68	ng	100
66) 4-Nitrophenol	8.230	109	78612	75.66	ng	95
67) 2,4-Dinitrotoluene	8.257	165	206050	85.55	ng	95
68) 2,3,4,6-Tetrachlorophenol	8.401	232	154439	83.87	ng	99
69) Diethyl phthalate	8.572	149	645811	80.45	ng	100
70) Fluorene	8.620	166	691544	77.93	ng	99
71) 4-Chlorophenyl phenyl ether	8.652	204	341526	80.09	ng	100
74) 4,6-Dinitro-2-methylphenol	8.732	198	85107	67.23	ng	98
75) Azobenzene	8.828	77	629796	85.48	ng	98
76) 1,2-Diphenylhydrazine	8.828	182	199248	88.47	ng	95
77) Diphenylamine	8.796	170	141670	90.24	ng	98
78) N-Nitrosodiphenylamine	8.796	168	664902	89.80	ng	100
79) 4-Bromophenyl phenyl ether	9.191	248	196654	78.96	ng	97
80) Phenacetin	9.181	108	324626	85.64	ng	98
81) Hexachlorobenzene	9.245	284	211749	79.37	ng	97
82) Atrazine	9.432	200	226406	97.72	ng	97
83) 4-Aminobiphenyl	9.485	169	700708	74.72	ng	100
84) Pentachlorophenol	9.485	266	113129	76.58	ng	99
85) Pentachloronitrobenzene	9.491	237	82838	85.46	ng	96
86) Pronamide	9.603	173	314699	93.32	ng	100
87) Phenanthrene	9.688	178	986064	78.09	ng	99
88) Anthracene	9.742	178	893851	70.37	ng	99
89) Carbazole	9.945	167	1103226	96.81	ng	99
90) Di-n-butyl phthalate	10.399	149	1082795	80.09	ng	100
91) Fluoranthene	11.008	202	1131123	80.48	ng	99
93) Pyrene	11.254	202	1175267	77.36	ng	99
95) Benzidine	11.189	184	440264	77.46	ng	100
96) p-Dimethylaminoazobenzene	11.638	225	245101	81.41	ng	99
97) Butyl benzyl phthalate	12.055	149	500949	80.28	ng	98
98) Benz(a)anthracene	12.589	228	1119207	78.61	ng	99
99) 3,3'-Dichlorobenzidine	12.600	252	420107	81.00	ng	99
100) Chrysene	12.632	228	1124175	76.06	ng	99
101) Bis(2-ethylhexyl)phthalate	12.728	149	700243	84.77	ng	99
102) Di-n-octyl phthalate	13.412	149	1139974	82.58	ng	99
103) 3-Methylcholanthrene	14.347	268	530898	109.77	ng	98

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

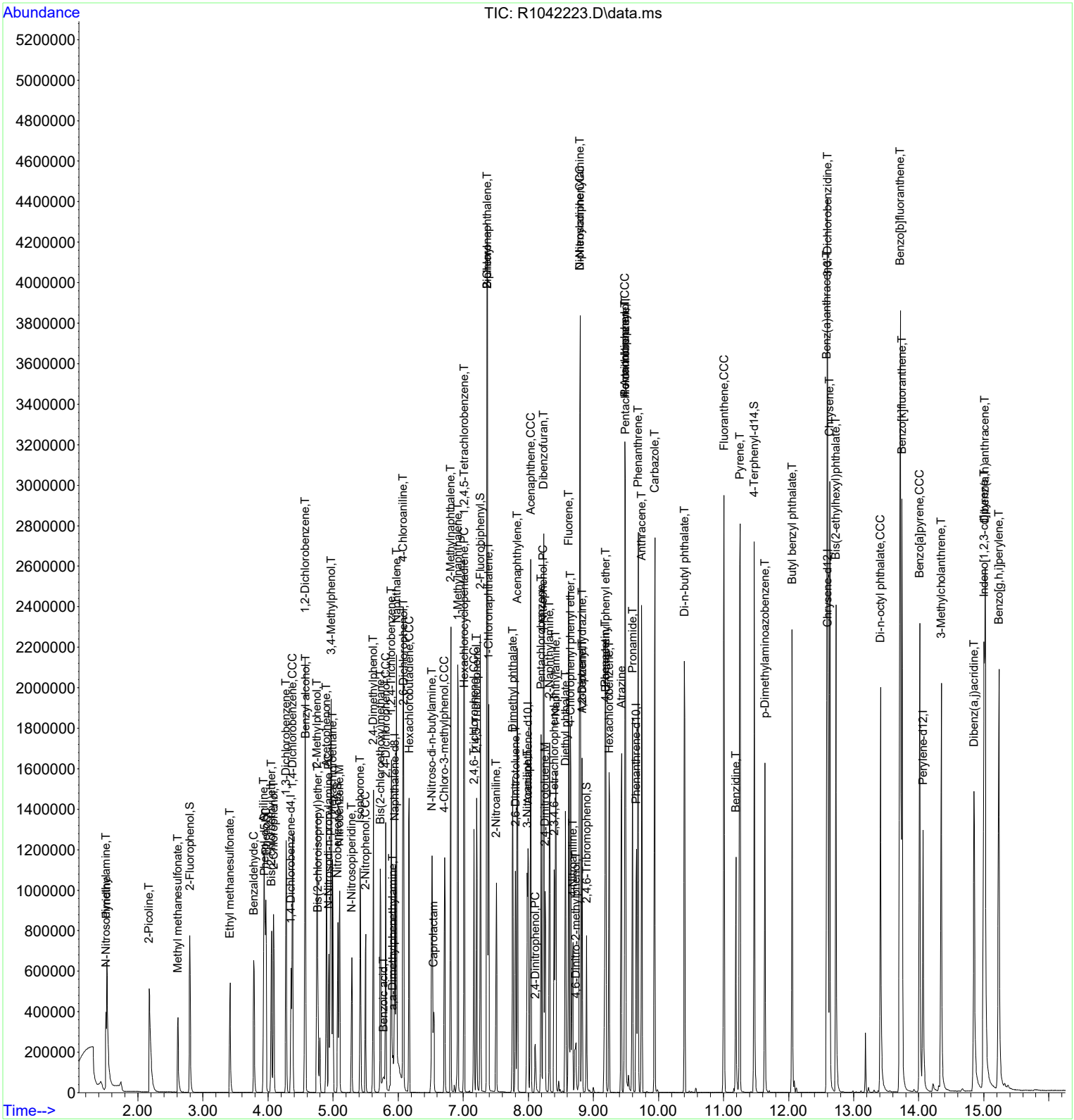
Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	15.004	276	1362555	82.18	ng	98
106) Benzo[b]fluoranthene	13.716	252	1181419	70.53	ng	98
107) Benzo[k]fluoranthene	13.743	252	1189646	71.31	ng	100
108) Benzo[a]pyrene	14.015	252	1035168	70.45	ng	99
109) Dibenz(a,j)acridine	14.849	279	856635	68.11	ng	99
110) Dibenz(a,h)anthracene	15.020	278	1114812	72.16	ng	99
111) Benzo[g,h,i]perylene	15.233	276	1144521	72.66	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration



Response Factor Report Instrument #10

Method Path : C:\msdchem\1\METHODS\
Method File : B042221.M
Title : MS-10 BNA CURVE 8270E/625
Last Update : Fri Apr 23 14:54:46 2021
Response Via : Initial Calibration

Calibration Files
160 =R1042218.D 60 =R1042213.D 40 =R1042212.D 120 =R1042217.D 80 =R1042214.D 10 =R1042210.D 20 =R1042211.D
5 =R1042219.D

		Compound	160	60	40	120	80	10	20	5	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		Pyridine	1.538	1.535	1.599	1.523	1.519	1.470	1.557		1.534	2.55
3)	T	2-Picoline	1.585	1.531	1.600	1.554	1.563	1.487	1.583		1.557	2.48
4)	T	Methyl methane...	0.660	0.656	0.655	0.646	0.658	0.636	0.646		0.651	1.33
5)	S	2-Fluorophenol	1.260	1.267	1.259	1.242	1.271	1.226	1.210		1.248	1.82
6)	T	Ethyl methanes...	1.023	1.026	1.024	1.005	1.027	1.010	0.996		1.016	1.19
7)	C	Benzaldehyde	0.935	0.749	0.834	0.802	0.645	0.858	0.841		0.809	11.32#
8)	T	Aniline	0.753	0.798	0.769	0.752	0.758	0.780	0.770		0.769	2.16
9)	S	Phenol-d5	1.503	1.525	1.539	1.501	1.538	1.511	1.490		1.515	1.26
10)	C	Phenol	1.809	1.857	1.876	1.806	1.861	1.833	1.827		1.838	1.46
11)	T	Bis(2-chloroet...	1.276	1.326	1.349	1.259	1.296	1.326	1.295		1.304	2.40
12)	T	2-Chlorophenol	1.418	1.424	1.417	1.399	1.435	1.384	1.375		1.407	1.57
13)	T	1,3-Dichlorobe...	1.559	1.626	1.650	1.565	1.628	1.619	1.591		1.605	2.14
14)	CCC	1,4-Dichlorobe...	1.564	1.652	1.650	1.577	1.633	1.658	1.624		1.623	2.32
15)	T	1,2-Dichlorobe...	1.446	1.534	1.553	1.458	1.523	1.554	1.516		1.512	2.88
16)	T	Benzyl alcohol	0.916	0.921	0.922	0.904	0.929	0.864	0.872		0.904	2.88
17)	T	Bis(2-chlorois...	1.202	1.406	1.441	1.240	1.333	1.488	1.434		1.364	7.95
18)	T	2-Methylphenol	1.042	1.079	1.084	1.040	1.075	1.048	1.037		1.058	1.95
19)	T	3,4-Methylphenol	1.303	1.399	1.420	1.349	1.411	1.389	1.384	1.351	1.376	2.83
20)	PC	N-Nitrosodi-n-...	0.791	0.899	0.891	0.836	0.902	0.882	0.875		0.868	4.68
21)	T	N-Nitrosodimet...	0.464	0.480	0.491	0.455	0.463	0.481	0.460		0.471	2.86
22)	T	Hexachloroethane	0.541	0.581	0.582	0.569	0.591	0.573	0.570		0.572	2.77
23)	I	Naphthalene-d8	----------ISTD----------									
24)	S	Nitrobenzene-d5	0.313	0.312	0.313	0.309	0.322	0.301	0.298		0.310	2.62
25)	T	Acetophenone	0.427	0.462	0.465	0.428	0.455	0.468	0.457	0.467	0.454	3.66
26)	M	Nitrobenzene	0.176	0.177	0.177	0.177	0.182	0.170	0.168		0.175	2.75
27)	T	N-Nitrosopiper...	0.172	0.177	0.174	0.171	0.178	0.170	0.169		0.173	2.02
28)	T	Isophorone	0.628	0.651	0.655	0.626	0.643	0.641	0.630		0.639	1.82
29)	CCC	2-Nitrophenol	0.185	0.171	0.165	0.181	0.184	0.141	0.146		0.168	10.80
30)	T	2,4-Dimethylph...	0.307	0.319	0.317	0.305	0.317	0.302	0.302		0.310	2.41
31)	T	Bis(2-chloroet...	0.393	0.411	0.414	0.393	0.407	0.405	0.392		0.402	2.28
32)	CCC	2,4-Dichloroph...	0.297	0.303	0.303	0.300	0.309	0.281	0.284		0.297	3.61
33)	T	1,2,4-Trichlor...	0.325	0.340	0.341	0.328	0.341	0.340	0.328		0.335	2.16
34)	T	Naphthalene	0.965	1.066	1.084	0.989	1.056	1.093	1.053	1.074	1.048	4.39
35)	T	Benzoic acid	0.094	0.046	0.019	0.079	0.063				0.060	48.64
36)	T	2,6-Dichloroph...	0.287	0.295	0.295	0.289	0.299	0.282	0.277		0.289	2.68
37)	T	4-Chloroaniline	0.420	0.453	0.454	0.426	0.449	0.443	0.435		0.440	2.97
38)	CCC	Hexachlorobuta...	0.188	0.194	0.195	0.187	0.193	0.193	0.185		0.191	2.15
39)	T	a,a-Dimethylph...	0.844	0.825	0.819	0.817	0.830	0.717	0.758		0.802	5.73
40)		Caprolactam	0.119	0.116	0.114	0.116	0.118	0.099	0.105		0.113	6.67
41)	CCC	4-Chloro-3-met...	0.292	0.291	0.286	0.289	0.295	0.264	0.267		0.283	4.34

Method Path : C:\msdchem\1\METHODS\
Method File : B042221.M
Title : MS-10 BNA CURVE 8270E/625

42)	T	N-Nitroso-di-n...	0.222	0.291	0.292	0.229	0.289	0.214	0.213		0.250	15.43
43)	T	2-Methylnaphth...	0.574	0.623	0.625	0.584	0.619	0.621	0.602	0.612	0.607	3.18
44)	T	1-Methylnaphth...	0.564	0.609	0.615	0.571	0.602	0.609	0.595	0.610	0.597	3.20
45)	I	Acenaphthene-d10	----------ISTD----------									
46)	T	1,2,4,5-Tetrac...	0.526	0.558	0.569	0.530	0.555	0.572	0.562		0.553	3.25
47)	PC	Hexachlorocycl...	0.319	0.317	0.309	0.316	0.328	0.268	0.278		0.305	7.49
48)	CCC	2,4,6-Trichlor...	0.377	0.366	0.356	0.372	0.374	0.319	0.331		0.356	6.45
49)	T	2,4,5-Trichlor...	0.417	0.412	0.407	0.409	0.416	0.359	0.375		0.399	5.70
50)	S	2-Fluorobiphenyl	1.231	1.312	1.330	1.240	1.300	1.326	1.303		1.292	3.10
51)		Biphenyl	1.210	1.421	1.479	1.277	1.397	1.500	1.445		1.390	7.74
52)	T	2-Chloronaphth...	1.172	1.193	1.171	1.129	1.134	1.195	1.166		1.166	2.22
53)	T	1-Chloronaphth...	0.910	1.062	1.142	0.981	1.108	1.089	1.084		1.054	7.64
54)	T	2-Nitroaniline	0.295	0.281	0.275	0.290	0.292	0.232	0.249		0.274	8.79
55)	T	3-Nitroaniline	0.361	0.331	0.323	0.348	0.348	0.268	0.288		0.324	10.58
56)	T	Pentachloroben...	0.489	0.490	0.492	0.483	0.495	0.489	0.479		0.488	1.12
57)	T	4-Nitroaniline	0.374	0.347	0.337	0.359	0.358	0.280	0.299		0.336	10.24
58)	T	2-Naphthylamine	1.143	1.193	1.213	1.142	1.196	1.148	1.169		1.172	2.47
59)	T	1-Naphthylamine	1.220	1.270	1.286	1.207	1.263	1.279	1.245		1.253	2.39
60)	T	Dimethyl phtha...	1.277	1.274	1.279	1.249	1.276	1.255	1.232		1.263	1.41
61)	T	Acenaphthylene	1.674	1.774	1.812	1.693	1.773	1.769	1.725		1.746	2.86
62)	T	2,6-Dinitrotol...	0.302	0.271	0.261	0.289	0.287	0.206	0.231		0.264	13.01
63)	CCC	Acenaphthene	1.010	1.073	1.085	1.021	1.064	1.091	1.062		1.058	2.92
64)	PC	2,4-Dinitrophenol	0.141	0.092	0.077	0.127	0.113		0.053		0.100	32.46#
65)	T	Dibenzofuran	1.537	1.667	1.685	1.551	1.627	1.669	1.644		1.626	3.64
66)	PC	4-Nitrophenol	0.173	0.163	0.154	0.167	0.168	0.147	0.137		0.158	8.26
67)	M	2,4-Dinitrotol...	0.426	0.381	0.364	0.403	0.405	0.278	0.314		0.367	14.57
68)	T	2,3,4,6-Tetrac...	0.314	0.287	0.278	0.305	0.304	0.233	0.245		0.281	11.12
69)	T	Diethyl phthalate	1.231	1.238	1.247	1.230	1.239	1.196	1.186		1.224	1.91
70)	T	Fluorene	1.311	1.385	1.387	1.307	1.361	1.360	1.360		1.353	2.38
71)	T	4-Chlorophenyl...	0.648	0.657	0.657	0.635	0.659	0.654	0.640		0.650	1.44
72)	S	2,4,6-Tribromo...	0.178	0.157	0.152	0.170	0.167	0.126	0.132		0.155	12.55
73)	I	Phenanthrene-d10	----------ISTD----------									
74)	T	4,6-Dinitro-2-...	0.129	0.094	0.082	0.117	0.110	0.048	0.061		0.091	32.43
75)	T	Azobenzene	0.690	0.635	0.642	0.591	0.626	0.637	0.630		0.636	4.58
76)	T	1,2-Diphenylhy...	0.194	0.197	0.197	0.192	0.195	0.194	0.192		0.194	1.12
77)	CCC	Diphenylamine	0.129	0.139	0.139	0.131	0.137	0.137	0.136		0.135	2.85
78)	T	N-Nitrosodiphe...	0.599	0.649	0.655	0.612	0.644	0.664	0.649		0.639	3.76
79)	T	4-Bromophenyl ...	0.213	0.216	0.215	0.209	0.221	0.215	0.214		0.215	1.59
80)	T	Phenacetin	0.336	0.342	0.336	0.332	0.347	0.289	0.306		0.327	6.45
81)	T	Hexachlorobenzene	0.233	0.231	0.230	0.231	0.234	0.226	0.226		0.230	1.35
82)		Atrazine	0.198	0.204	0.204	0.199	0.207	0.187	0.200		0.200	3.29
83)	T	4-Aminobiphenyl	0.749	0.849	0.847	0.781	0.833	0.789	0.816		0.809	4.64
84)	CCC	Pentachlorophenol	0.149	0.133	0.124	0.144	0.143	0.093	0.107		0.127	16.25
85)	T	Pentachloronit...	0.090	0.087	0.084	0.088	0.089	0.070	0.077		0.084	8.70
86)	T	Pronamide	0.304	0.299	0.297	0.300	0.304	0.261	0.273		0.291	5.89
87)	T	Phenanthrene	1.035	1.111	1.119	1.040	1.090	1.125	1.106		1.090	3.40
88)	T	Anthracene	1.044	1.121	1.133	1.058	1.110	1.100	1.107		1.096	3.00
89)	T	Carbazole	0.962	1.002	1.011	0.956	0.998	0.982	0.973		0.983	2.13
90)	T	Di-n-butyl pht...	1.171	1.210	1.202	1.163	1.216	1.080	1.124		1.167	4.28
91)	CCC	Fluoranthene	1.196	1.252	1.240	1.195	1.244	1.179	1.184		1.213	2.55

Method Path : C:\msdchem\1\METHODS\
Method File : B042221.M
Title : MS-10 BNA CURVE 8270E/625

92)	I	Chrysene-d12	----------ISTD----------								
93)	T	Pyrene	1.367	1.406	1.408	1.353	1.397	1.404	1.402	1.391	1.57
94)	S	4-Terphenyl-d14	1.013	1.007	0.996	0.979	1.010	0.956	0.959	0.989	2.43
95)	T	Benzidine	0.363	0.551	0.563	0.617	0.513	0.517	0.520	0.520	15.10
96)	T	p-Dimethylamin...	0.310	0.282	0.275	0.300	0.297	0.223	0.243	0.276	11.51
97)	T	Butyl benzyl p...	0.623	0.593	0.564	0.603	0.606	0.489	0.521	0.571	8.64
98)	T	Benz(a)anthracene	1.318	1.339	1.311	1.296	1.343	1.261	1.258	1.304	2.62
99)	T	3,3'-Dichlorob...	0.429	0.503	0.503	0.463	0.489	0.462	0.475	0.475	5.59
100)	T	Chrysene	1.342	1.365	1.372	1.335	1.366	1.355	1.338	1.353	1.12
101)	T	Bis(2-ethylhex...	0.856	0.812	0.778	0.836	0.841	0.655	0.702	0.572	0.756	13.61
102)	CCC	Di-n-octyl pht...	1.450	1.320	1.249	1.411	1.401	0.948	1.068		1.264	15.04
103)	T	3-Methylcholan...	0.500	0.454	0.432	0.484	0.484	0.359	0.387		0.443	12.03
104)	T	Indeno[1,2,3-c...	1.648	1.557	1.499	1.598	1.636	1.306	1.382		1.518	8.62
105)	I	Perylene-d12	----------ISTD----------								
106)	T	Benzo[b]fluora...	1.457	1.385	1.334	1.519	1.311	1.179	1.225		1.344	8.98
107)	T	Benzo[k]fluora...	1.147	1.420	1.451	1.154	1.269	1.469	1.462		1.339	10.87
108)	CCC	Benzo[a]pyrene	1.232	1.273	1.180	1.234	1.187	1.048	1.101		1.179	6.76
109)	T	Dibenz(a,j)acr...	1.134	1.056	0.997	1.116	1.074	0.812	0.877		1.009	12.13
110)	T	Dibenz(a,h)ant...	1.270	1.312	1.264	1.285	1.255	1.115	1.177		1.240	5.55
111)	T	Benzo[g,h,i]pe...	1.289	1.346	1.294	1.296	1.232	1.165	1.227		1.264	4.73

(#) = Out of Range

Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **12/14/2021 10:46:1**
Prep End Date: **12/15/2021 7:22:50**

Prep Batch **327248** Prep Code: **3510_BNA** Technician: **Theodore Tuerke**

Prep Factor Units: **mL / L**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2112C76-002A	Waste Water		1	0	0	1	1.000	12/14/2021	12/14/2021
2112E24-002B	Aqueous		0.5	0	0	0.5	1.000	12/15/2021	12/15/2021
	Very muddy viscious sample. A 100ml diluriion was performed. 100% tiotal emulsion requiring Na2SO4 clean up.								
2112F58-001C	Waste Water		1	0	0	1	1.000	12/15/2021	12/15/2021
	Composite sample.								
2112G62-001C	Surface Water		1	0	0	1	1.000	12/14/2021	12/14/2021
2112G62-002C	Surface Water		1	0	0	1	1.000	12/14/2021	12/14/2021
2112G62-003C	Surface Water		1	0	0	1	1.000	12/14/2021	12/14/2021
2112G62-003CMS	Surface Water		1	0	0	1	1.000	12/14/2021	12/14/2021
2112G62-003CMSD	Surface Water		1	0	0	1	1.000	12/14/2021	12/14/2021
2112G62-011C	Surface Water		1	0	0	1	1.000	12/14/2021	12/14/2021
2112G62-012C	Surface Water		1	0	0	1	1.000	12/14/2021	12/14/2021
2112H34-002F	Groundwater		1	0	0	1	1.000	12/15/2021	12/15/2021
2112H34-007F	Groundwater		1	0	0	1	1.000	12/15/2021	12/15/2021
2112H34-008F	Groundwater		1	0	0	1	1.000	12/15/2021	12/15/2021
LCS-327248			1	0	0	1	1.000	12/14/2021	12/14/2021
MB-327248			1	0	0	1	1.000	12/14/2021	12/14/2021

Injection Log

Directory: C:\MS-16\New\Raw Data\211214

Line	Vial	FileName	Multiplier	SampleName			Misc Info	Injected
1	1	V1637446.D	1.	BLANK			BLANK	14 Dec 2021 06:50
2	2	V1637447.D	1.	BLANK			BLANK	14 Dec 2021 07:11
3	3	V1637448.D	1.	CCV BTEX/OXY 050 (50uL/50mL)			CCV 8260_UST_W	14 Dec 2021 07:32
4	4	V1637449.D	1.	CCV NOR/AP 050 (50uL/50mL)			CCV 8260B_W	14 Dec 2021 07:54
5	5	V1637450.D	1.	BLANK			BLANK	14 Dec 2021 08:18
6	6	V1637451.D	1.	CCV 8260 020 (20uL/50mL)			CCV 8260B_W	14 Dec 2021 08:40
7	7	V1637452.D	1.	CCV BTEX/OXY 050 (50uL/50mL)			CCV 8260_UST_W	14 Dec 2021 09:27
8	8	V1637453.D	1.	CCV 8260 020 (20uL/50mL)			CCV 8260B_W	14 Dec 2021 09:48
9	9	V1637454.D	1.	AIR			AIR	14 Dec 2021 10:10
10	10	V1637455.D	1.	MB-			MBLK 8260B_W	14 Dec 2021 10:32
11	11	V1637456.D	1.	10PPB-OXY			MBLK 8260_LOW_W	14 Dec 2021 10:53
12	12	V1637457.D	1.	MB-			MBLK 8260B_W	14 Dec 2021 11:14
13	13	V1637458.D	1.	MB-			MBLK 8260_LOW_W	14 Dec 2021 11:36
14	14	V1637459.D	1.	2112C05-006A	2/2		SAMP BTEX_W-MS	14 Dec 2021 11:57
15	15	V1637460.D	1.	2112A54-005A	2/2		SAMP 8260_SC_LOW_W	14 Dec 2021 12:18
16	16	V1637461.D	1.	2112G62-013A	1/2	TB	SAMP 8260_LOW_W	14 Dec 2021 12:40
17	17	V1637462.D	1.	2112G62-011A	1/3		SAMP 8260_LOW_W	14 Dec 2021 13:01
18	18	V1637463.D	1.	2112G62-012A	1/3		SAMP 8260_LOW_W	14 Dec 2021 13:23
19	19	V1637464.D	1.	2112G62-001A	1/3		SAMP 8260_TCL4.2_W	14 Dec 2021 13:44
20	20	V1637465.D	1.	2112G62-003AMS	2/3		MS 8260_TCL4.2_W	14 Dec 2021 14:06
21	21	V1637466.D	1.	2112G62-003AMSD	2/3		MSD 8260_TCL4.2_W	14 Dec 2021 14:27
22	22	V1637467.D	1.	LCS-327182			LCS 8260_SC_LOW_W	14 Dec 2021 14:48
23	23	V1637468.D	1.	LCS-327183			LCS 624.1	14 Dec 2021 15:10
24	24	V1637469.D	1.	BLANK			BLANK	14 Dec 2021 15:31
25	25	V1637470.D	1.	2112E50-016A	1/3		SAMP 8260_UST_W	14 Dec 2021 15:53
26	26	V1637471.D	1.	2112E50-017A	1/3		SAMP 8260_UST_W	14 Dec 2021 16:14
27	29	V1637472.D	1.	2112C05-009A	2/2	100X	SAMP BTEX_W-MS	14 Dec 2021 16:35
28	30	V1637473.D	1.	2112C05-014A	2/2	10X	SAMP BTEX_W-MS	14 Dec 2021 16:57
29	31	V1637474.D	1.	2112C05-021A	2/2	10X	SAMP BTEX_W-MS	14 Dec 2021 17:18
30	20	V1637475.D	1.	2112G62-002A	1/3		SAMP 8260_LOW_W	14 Dec 2021 17:40
31	21	V1637476.D	1.	2112G62-003A	1/3		SAMP 8260_LOW_W	14 Dec 2021 18:01
32	32	V1637477.D	1.	CCV 8260 020 (20uL/50mL)			CCV 8260B_W	14 Dec 2021 18:22

Injection Log

Directory: C:\MS-16\New\Raw Data\211214

Line	Vial	FileName	Multiplier	SampleName		Misc Info	Injected
33	33	V1637478.D	1.	CCV 8260 020 (20uL/50mL)		CCV 8260B_W	14 Dec 2021 18:44
34	34	V1637479.D	1.	CCV 8260 020 (20uL/50mL)		CCV 8260B_W	14 Dec 2021 19:05
35	35	V1637480.D	1.	1/5PPBV		CCV 8260B_W	14 Dec 2021 19:26
36	36	V1637481.D	1.	MB-		MBLK 8260_A1_W	14 Dec 2021 19:47
37	37	V1637482.D	1.	MB-		MBLK 8260B_W	14 Dec 2021 20:09
38	38	V1637483.D	1.	5PPBV		CCV 8260B_W	14 Dec 2021 20:30
39	39	V1637484.D	1.	2PPBV		CCV 8260B_W	14 Dec 2021 20:52
40	40	V1637485.D	1.	2112A10-026A	1/2	SAMP 8260_TCL4.2_W	14 Dec 2021 21:13
41	41	V1637486.D	1.	2112A10-027A	1/2	SAMP 8260_TCL4.2_W	14 Dec 2021 21:34
42	42	V1637487.D	1.	2112D93-007A	1/2	SAMP 8260_TCL4.2_W	14 Dec 2021 21:56
43	43	V1637488.D	1.	2112B93-051A	1/2	SAMP 8260_A1_W	14 Dec 2021 22:18
44	44	V1637489.D	1.	2112B93-053A	1/2	SAMP 8260_A1_W	14 Dec 2021 22:39
45	45	V1637490.D	1.	2112B93-054A	1/2	SAMP 8260_A1_W	14 Dec 2021 23:01
46	46	V1637491.D	1.	2112B93-056A	1/2	SAMP 8260_A1_W	14 Dec 2021 23:22
47	47	V1637492.D	1.	2112B93-058A	1/2	SAMP 8260_A1_W	14 Dec 2021 23:43
48	48	V1637493.D	1.	2112B93-060A	1/2	SAMP 8260_A1_W	15 Dec 2021 00:05
49	49	V1637494.D	1.	2112B93-061A	1/2	SAMP 8260_A1_W	15 Dec 2021 00:26
50	50	V1637495.D	1.	2112B93-064A	1/2	SAMP 8260_A1_W	15 Dec 2021 00:48
51	51	V1637496.D	1.	2112E55-001A	1/2	SAMP 8260B_W	15 Dec 2021 01:09
52	52	V1637497.D	1.	2112E55-002A	1/2	SAMP 8260B_W	15 Dec 2021 01:31
53	53	V1637498.D	1.	2112E55-003A	1/2	SAMP 8260B_W	15 Dec 2021 01:52
54	54	V1637499.D	1.	2112E55-004A	1/2	SAMP 8260B_W	15 Dec 2021 02:14
55	55	V1637500.D	1.	2112E55-005A	1/2	SAMP 8260B_W	15 Dec 2021 02:35
56	56	V1637501.D	1.	2112E55-006A	1/2	SAMP 8260B_W	15 Dec 2021 02:57
57	57	V1637502.D	1.	2112F70-001A	1/2	SAMP 8260B_W	15 Dec 2021 03:19
58	58	V1637503.D	1.	2112F70-002A	1/2	SAMP 8260B_W	15 Dec 2021 03:40
59	59	V1637504.D	1.	2112A10-001A	1/2	SAMP 8260_TCL4.2_W	15 Dec 2021 04:02

Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637453.D
Acq On : 14 Dec 2021 09:48
Operator : CM
Sample : CCV 8260 020 (20uL/50mL)
Misc : CCV 8260B_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 14 10:11:34 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	71	-0.02
2	T	Dichlorodifluoromethane	20.000	21.974	-9.9	82	0.00
3	pcc	Chloromethane	20.000	16.275	18.6	57	0.00
4	ccc	Vinyl chloride	20.000	17.886	10.6	63	0.00
5	T	Bromomethane	20.000	19.468	2.7	64	0.00
6	T	Chloroethane	20.000	21.898	-9.5	67	-0.01
7	T	Trichlorofluoromethane	20.000	22.297	-11.5	79	0.00
8	T	Acrolein	20.000	12.871	35.6#	51	0.00
9	ccc	1,1-Dichloroethene	20.000	22.329	-11.6	73	-0.02
10		Freon-113	20.000	23.786	-18.9	84	-0.01
11	T	Acetone	40.000	40.243	-0.6	79	-0.02
12	T	Iodomethane	40.000	45.423	-13.6	68	-0.02
13	T	Carbon disulfide	40.000	40.548	-1.4	65	-0.01
14		Methyl acetate	20.000	18.747	6.3	76	-0.02
15	T	Vinyl acetate	40.000	36.466	8.8	63	-0.02
16	T	Methylene chloride	20.000	20.539	-2.7	67	-0.02
17	T	Acrylonitrile	20.000	22.579	-12.9	87	-0.02
18		Methyl tert-butyl ether	20.000	19.853	0.7	65	-0.02
19	T	trans-1,2-Dichloroethene	20.000	22.089	-10.4	68	-0.02
20	pcc	1,1-Dichloroethane	20.000	20.632	-3.2	62	-0.03
21	T	2,2-Dichloropropane	20.000	21.234	-6.2	75	-0.02
22	T	cis-1,2-Dichloroethene	20.000	21.664	-8.3	65	-0.02
23		2-Butanone	40.000	36.925	7.7	68	-0.03
24	T	Bromochloromethane	20.000	21.610	-8.0	68	-0.02
25	ccc	Chloroform	20.000	20.904	-4.5	63	-0.03
26		Cyclohexane	20.000	22.054	-10.3	76	-0.02
27	T	1,1,1-Trichloroethane	20.000	22.009	-10.0	69	-0.02
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	67	-0.02
29	S	Dibromofluoromethane	50.000	48.764	2.5	66	-0.02
30	T	1,1-Dichloropropene	20.000	24.738	-23.7#	73	-0.02
31	T	Carbon tetrachloride	20.000	23.952	-19.8	70	-0.03
32	M	Benzene	20.000	23.038	-15.2	65	-0.02
33	T	1,2-Dichloroethane	20.000	21.154	-5.8	63	-0.02
34	M	Trichloroethene	20.000	24.327	-21.6#	69	-0.02
35		Methylcyclohexane	20.000	26.002	-30.0#	78	-0.02
36	ccc	1,2-Dichloropropane	20.000	22.368	-11.8	64	-0.02
37	T	Dibromomethane	20.000	22.137	-10.7	67	-0.03
38		1,4-Dioxane	200.000	167.432	16.3	72	-0.02
39	T	Bromodichloromethane	20.000	20.971	-4.9	60	-0.02
40	T	2-Chloroethyl vinyl ether	40.000	42.750	-6.9	67	-0.02
41	T	cis-1,3-Dichloropropene	20.000	21.519	-7.6	62	-0.02
42	T	4-Methyl-2-pentanone	40.000	40.974	-2.4	68	-0.02
43	S	Toluene-d8	50.000	49.713	0.6	67	-0.02
44	ccc	Toluene	20.000	23.355	-16.8	66	-0.02
45	T	trans-1,3-Dichloropropene	20.000	20.922	-4.6	61	-0.02
46	T	1,1,2-Trichloroethane	20.000	22.772	-13.9	69	-0.02

Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637453.D
Acq On : 14 Dec 2021 09:48
Operator : CM
Sample : CCV 8260 020 (20uL/50mL)
Misc : CCV 8260B_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 14 10:11:34 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
47	I	Chlorobenzene-d5	50.000	50.000	0.0	69	-0.02
48	T	2-Hexanone	40.000	40.548	-1.4	69	-0.02
49	T	Tetrachloroethene	20.000	24.704	-23.5#	74	-0.02
50	T	1,3-Dichloropropane	20.000	21.794	-9.0	67	-0.02
51	T	Dibromochloromethane	20.000	20.395	-2.0	60	-0.02
52	T	1,2-Dibromoethane	20.000	22.380	-11.9	70	-0.02
53	pcc	Chlorobenzene	20.000	22.773	-13.9#	66	-0.02
54	T	1,1,1,2-Tetrachloroethane	20.000	22.630	-13.1	64	-0.02
55	ccc	Ethylbenzene	20.000	22.667	-13.3	66	-0.02
56	T	m,p-Xylene	40.000	45.369	-13.4	66	-0.02
57	T	o-Xylene	20.000	22.388	-11.9	64	-0.02
58	T	Styrene	20.000	22.193	-11.0	63	-0.02
59	pcc	Bromoform	20.000	16.187	19.1#	59	-0.02
60	S	4-Bromofluorobenzene	50.000	47.847	4.3	67	-0.02
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	67	-0.02
62	T	Bromobenzene	20.000	23.186	-15.9	65	-0.02
63	pcc	1,1,2,2-Tetrachloroethane	20.000	23.155	-15.8	73	-0.01
64	T	1,2,3-Trichloropropane	20.000	21.153	-5.8	69	-0.01
65	T	Isopropylbenzene	20.000	24.154	-20.8#	67	-0.02
66	T	n-Propylbenzene	20.000	23.594	-18.0	66	-0.02
67	T	trans-1,4-Dichloro-2-butene	40.000	39.791	0.5	69	-0.01
68	T	2-Chlorotoluene	20.000	22.598	-13.0	63	-0.02
69	T	4-Chlorotoluene	20.000	22.495	-12.5	62	-0.01
70	T	1,3,5-Trimethylbenzene	20.000	23.012	-15.1	63	-0.02
71	T	tert-Butylbenzene	20.000	23.183	-15.9	64	-0.01
72	T	1,2,4-Trimethylbenzene	20.000	22.523	-12.6	62	-0.02
73	T	sec-Butylbenzene	20.000	23.165	-15.8	64	-0.01
74	T	1,3-Dichlorobenzene	20.000	22.511	-12.6	63	-0.02
75	T	4-Isopropyltoluene	20.000	22.642	-13.2	63	-0.01
76	T	1,4-Dichlorobenzene	20.000	22.409	-12.0	63	-0.02
77	T	1,2-Dichlorobenzene	20.000	22.367	-11.8	63	-0.01
78	T	n-Butylbenzene	20.000	21.359	-6.8	60	-0.01
79	T	1,2-Dibromo-3-chloropropane	20.000	18.868	5.7	65	-0.02
80	T	1,2,4-Trichlorobenzene	20.000	18.883	5.6	54	-0.01
81	T	Hexachlorobutadiene	20.000	20.416	-2.1	62	-0.02
82	T	Naphthalene	20.000	21.785	-8.9	71	-0.01
83	T	1,2,3-Trichlorobenzene	20.000	20.704	-3.5	59	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 2

GC/MS QA-QC Check Report

Tune File : C:\MS-16\New\Raw Data\211214\V1637453.D
Tune Time : 14 Dec 2021 09:48

Daily Calibration File : C:\MS-16\New\Raw Data\211214\V1637453.D

						793353	1035960	984789
						552358		
File	Sample	Surrogate Recovery %				Internal Standard Responses		
V1637453.D								
	CCV 8260 0	98	99	96		793353	1035957	984789
					552358			
V1637458.D								
	MB-327367	94	98	95		766063	1011044	955925
					540445			
V1637461.D								
	2112G62-01	93	98	95		743720	993225	934339
					526878			
V1637462.D								
	2112G62-01	95	99	95		749058	989125	932948
					529820			
V1637463.D								
	2112G62-01	93	99	92		654127	948529	889738
					456572			
V1637464.D								
	2112G62-00	95	99	96		720990	961792	907102
					524393			
V1637465.D								
	2112G62-00	97	100	98		697569	927652	888651
					540322			
V1637466.D								
	2112G62-00	97	100	100		726651	963293	924517
					573727			
V1637467.D								
	LCS-327182	95	100	98		729015	971259	930802
					564994			
V1637468.D								
	LCS-327183	96	99	98		735308	975247	929291
					552307			
V1637475.D								
	2112G62-00	95	99	96		704399	951905	902419
					511347			
V1637476.D								
	2112G62-00	95	99	97		696938	938312	898501
					535367			

(fails) - fails 12hr time check * - fails criteria

Created: Wed Dec 15 07:24:41 2021 MS16

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637453.D
Acq On : 14 Dec 2021 09:48
Operator : CM
Sample : CCV 8260 020 (20uL/50mL)
Misc : CCV 8260B_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 14 10:11:34 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	6.069	168	793353	50.00	ug/L		-0.02
28) 1,4-Difluorobenzene	7.130	114	1035957	50.00	ug/L		-0.02
47) Chlorobenzene-d5	10.734	117	984789	50.00	ug/L		-0.02
61) 1,4-Dichlorobenzene-d4	12.741	152	552358	50.00	ug/L		-0.02
System Monitoring Compounds							
29) Dibromofluoromethane	5.992	113	335495	48.76	ug/L		-0.02
Spiked Amount 50.000	Range 84 - 122		Recovery = 97.52%				
43) Toluene-d8	9.101	98	1202756	49.71	ug/L		-0.02
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.42%				
60) 4-Bromofluorobenzene	11.815	95	458769	47.85	ug/L		-0.02
Spiked Amount 50.000	Range 64 - 125		Recovery = 95.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.532	85	132735	21.97	ug/L		100
3) Chloromethane	1.696	50	92729m	16.27	ug/L		
4) Vinyl chloride	1.783	62	89418	17.89	ug/L		95
5) Bromomethane	2.072	94	64753	19.47	ug/L		97
6) Chloroethane	2.159	64	70950	21.90	ug/L		100
7) Trichlorofluoromethane	2.378	101	179786	22.30	ug/L	#	98
8) Acrolein	2.754	56	8457	12.87	ug/L		99
9) 1,1-Dichloroethene	2.873	96	91099	22.33	ug/L		92
10) Freon-113	2.892	101	99130	23.79	µg/L		98
11) Acetone	2.889	58	19069m	40.24	ug/L		
12) Iodomethane	3.050	142	386730	45.42	ug/L		97
13) Carbon disulfide	3.114	76	451052	40.55	ug/L		100
14) Methyl acetate	3.233	43	82931m	18.75	µg/L		
15) Vinyl acetate	4.371	43	374542	36.47	ug/L	#	97
16) Methylene chloride	3.400	84	107100	20.54	ug/L		95
17) Acrylonitrile	3.690	53	39800	22.58	ug/L		96
18) Methyl tert-butyl ether	3.735	73	247123	19.85	µg/L		100
19) trans-1,2-Dichloroethene	3.741	96	101627	22.09	ug/L		97
20) 1,1-Dichloroethane	4.358	63	171981	20.63	ug/L		98
21) 2,2-Dichloropropane	5.246	77	100225	21.23	ug/L		100
22) cis-1,2-Dichloroethene	5.246	96	110260	21.66	ug/L		93
23) 2-Butanone	5.233	72	23842	36.93	µg/L		86
24) Bromochloromethane	5.590	128	56993	21.61	ug/L		93
25) Chloroform	5.763	83	177545	20.90	ug/L		98
26) Cyclohexane	6.082	56	164604	22.05	µg/L		91
27) 1,1,1-Trichloroethane	5.985	97	160551	22.01	ug/L		98
30) 1,1-Dichloropropene	6.223	110	54521	24.74	ug/L		91
31) Carbon tetrachloride	6.204	119	141578	23.95	ug/L		98
32) Benzene	6.493	78	386679	23.04	ug/L		98
33) 1,2-Dichloroethane	6.580	62	123397	21.15	ug/L		97
34) Trichloroethene	7.439	130	113940	24.33	ug/L		99
35) Methylcyclohexane	7.751	55	125846	26.00	µg/L		95
36) 1,2-Dichloropropane	7.792	63	98019	22.37	ug/L		100
37) Dibromomethane	7.902	93	63740	22.14	ug/L		94
38) 1,4-Dioxane	7.902	88	5288	167.43	µg/L	#	80
39) Bromodichloromethane	8.165	83	121151	20.97	ug/L		100
40) 2-Chloroethyl vinyl ether	8.574	63	132364	42.75	µg/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637453.D
Acq On : 14 Dec 2021 09:48
Operator : CM
Sample : CCV 8260 020 (20uL/50mL)
Misc : CCV 8260B_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 14 10:11:34 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration

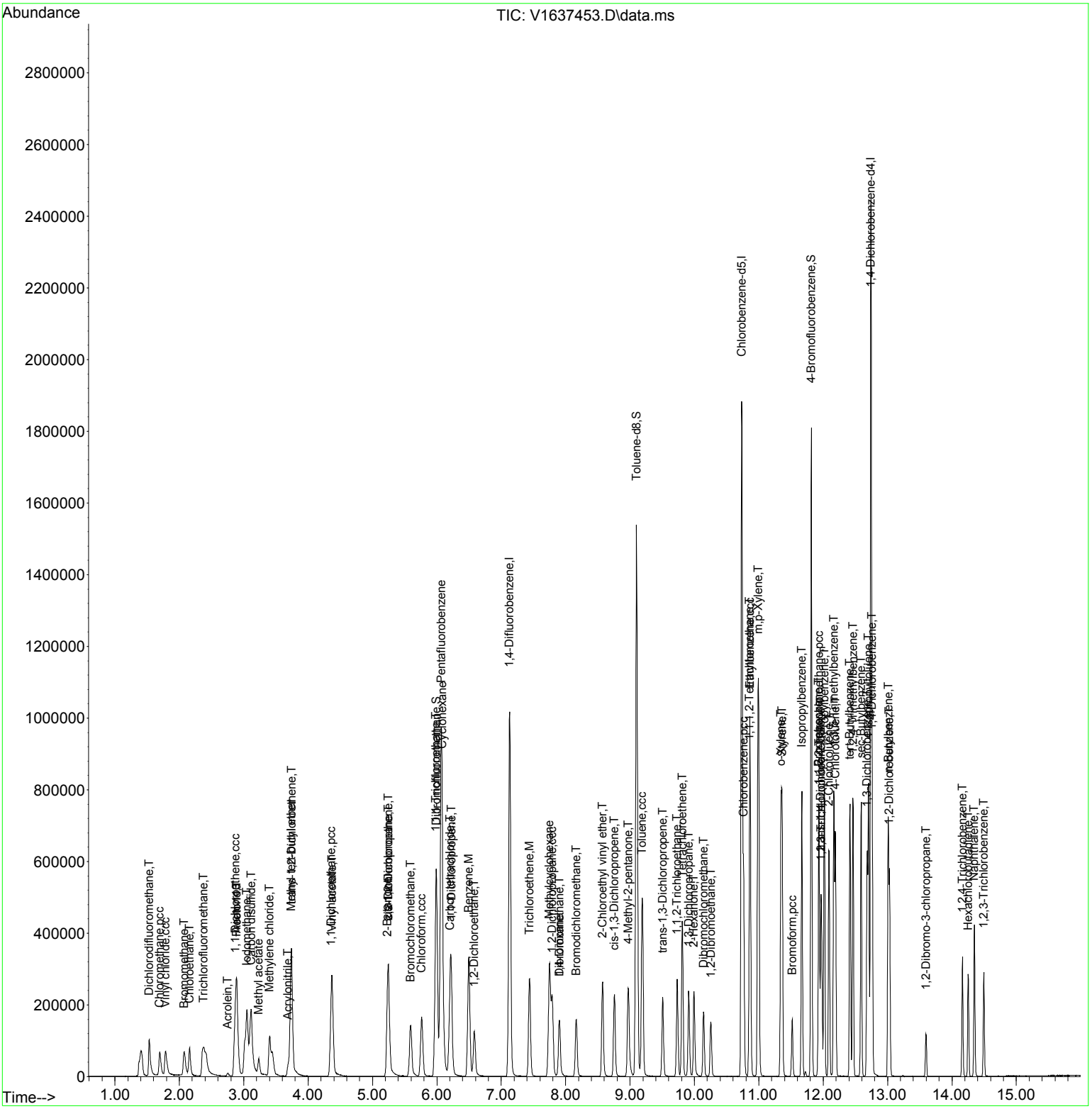
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) cis-1,3-Dichloropropene	8.757	75	149680	21.52	ug/L	97
42) 4-Methyl-2-pentanone	8.972	43	209644	40.97	ug/L	96
44) Toluene	9.188	92	247330	23.36	ug/L	99
45) trans-1,3-Dichloropropene	9.509	75	128409	20.92	ug/L	99
46) 1,1,2-Trichloroethane	9.731	83	74544	22.77	ug/L	99
48) 2-Hexanone	9.992	43	158857	40.55	ug/L	96
49) Tetrachloroethene	9.812	166	140238	24.70	ug/L	99
50) 1,3-Dichloropropane	9.911	76	143224	21.79	ug/L	98
51) Dibromochloromethane	10.143	129	92979	20.40	ug/L	97
52) 1,2-Dibromoethane	10.255	107	96034	22.38	ug/L	100
53) Chlorobenzene	10.763	112	282386	22.77	ug/L	96
54) 1,1,1,2-Tetrachloroethane	10.857	131	99039	22.63	ug/L	99
55) Ethylbenzene	10.866	91	464048	22.67	ug/L	100
56) m,p-Xylene	10.992	91	724376	45.37	ug/L	97
57) o-Xylene	11.342	91	358204	22.39	ug/L	99
58) Styrene	11.361	104	286934	22.19	ug/L	97
59) Bromoform	11.519	173	66311	16.19	ug/L	99
62) Bromobenzene	11.930	156	129573	23.19	ug/L	97
63) 1,1,2,2-Tetrachloroethane	11.937	83	125570	23.16	ug/L	100
64) 1,2,3-Trichloropropane	11.972	75	199064	21.15	ug/L	100
65) Isopropylbenzene	11.667	105	454066	24.15	ug/L	100
66) n-Propylbenzene	12.017	91	525607	23.59	ug/L	99
67) trans-1,4-Dichloro-2-b...	11.966	124	17027	39.79	ug/L	89
68) 2-Chlorotoluene	12.088	91	302828	22.60	ug/L	99
69) 4-Chlorotoluene	12.191	91	357919	22.49	ug/L	97
70) 1,3,5-Trimethylbenzene	12.165	105	355357	23.01	ug/L	97
71) tert-Butylbenzene	12.416	119	312858	23.18	ug/L	99
72) 1,2,4-Trimethylbenzene	12.461	105	354393	22.52	ug/L	100
73) sec-Butylbenzene	12.590	105	435741	23.17	ug/L	98
74) 1,3-Dichlorobenzene	12.683	146	218407	22.51	ug/L	99
75) 4-Isopropyltoluene	12.705	119	379459	22.64	ug/L	99
76) 1,4-Dichlorobenzene	12.760	146	225886	22.41	ug/L	98
77) 1,2-Dichlorobenzene	13.030	146	198177	22.37	ug/L	98
78) n-Butylbenzene	13.011	91	301760	21.36	ug/L	99
79) 1,2-Dibromo-3-chloropr...	13.596	75	21014	18.87	ug/L	89
80) 1,2,4-Trichlorobenzene	14.162	180	89716	18.88	ug/L	99
81) Hexachlorobutadiene	14.252	225	46130	20.42	ug/L	99
82) Naphthalene	14.348	128	267540	21.78	ug/L	100
83) 1,2,3-Trichlorobenzene	14.496	180	79150	20.70	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637453.D
Acq On : 14 Dec 2021 09:48
Operator : CM
Sample : CCV 8260 020 (20uL/50mL)
Misc : CCV 8260B_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 14 10:11:34 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637458.D
Acq On : 14 Dec 2021 11:36
Operator : CM
Sample : MB-327367
Misc : MBLK 8260_TCL4.2_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 14 13:01:51 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	6.069	168	766063	50.00	ug/L	-0.02
28) 1,4-Difluorobenzene	7.133	114	1011044	50.00	ug/L	-0.02
47) Chlorobenzene-d5	10.734	117	955925	50.00	ug/L	-0.02
61) 1,4-Dichlorobenzene-d4	12.744	152	540445	50.00	ug/L	-0.01
System Monitoring Compounds						
29) Dibromofluoromethane	5.992	113	316032	47.07	ug/L	-0.02
Spiked Amount 50.000	Range 84 - 122		Recovery = 94.14%			
43) Toluene-d8	9.104	98	1161155	49.18	ug/L	-0.02
Spiked Amount 50.000	Range 80 - 116		Recovery = 98.36%			
60) 4-Bromofluorobenzene	11.815	95	442110	47.50	ug/L	-0.02
Spiked Amount 50.000	Range 64 - 125		Recovery = 95.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	1.751	94	1357	Below Cal	#	4
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Acrolein	0.000		0	N.D.		
9) 1,1-Dichloroethene	0.000		0	N.D.		
10) Freon-113	0.000		0	N.D.		
11) Acetone	0.000		0	N.D.		
12) Iodomethane	0.000		0	N.D.		
13) Carbon disulfide	0.000		0	N.D.		
14) Methyl acetate	0.000		0	N.D.		
15) Vinyl acetate	0.000		0	N.D.		
16) Methylene chloride	0.000		0	N.D. d		
17) Acrylonitrile	0.000		0	N.D.		
18) Methyl tert-butyl ether	0.000		0	N.D.		
19) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) 1,1-Dichloroethane	0.000		0	N.D.		
21) 2,2-Dichloropropane	0.000		0	N.D.		
22) cis-1,2-Dichloroethene	0.000		0	N.D.		
23) 2-Butanone	0.000		0	N.D.		
24) Bromochloromethane	0.000		0	N.D.		
25) Chloroform	0.000		0	N.D.		
26) Cyclohexane	6.066	56	10501	Below Cal	#	1
27) 1,1,1-Trichloroethane	0.000		0	N.D.		
30) 1,1-Dichloropropene	0.000		0	N.D. d		
31) Carbon tetrachloride	0.000		0	N.D.		
32) Benzene	0.000		0	N.D.		
33) 1,2-Dichloroethane	0.000		0	N.D.		
34) Trichloroethene	0.000		0	N.D.		
35) Methylcyclohexane	0.000		0	N.D.		
36) 1,2-Dichloropropane	0.000		0	N.D.		
37) Dibromomethane	0.000		0	N.D.		
38) 1,4-Dioxane	0.000		0	N.D.		
39) Bromodichloromethane	0.000		0	N.D.		
40) 2-Chloroethyl vinyl ether	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637458.D
Acq On : 14 Dec 2021 11:36
Operator : CM
Sample : MB-327367
Misc : MBLK 8260_TCL4.2_W
ALS Vial : 13 Sample Multiplier: 1

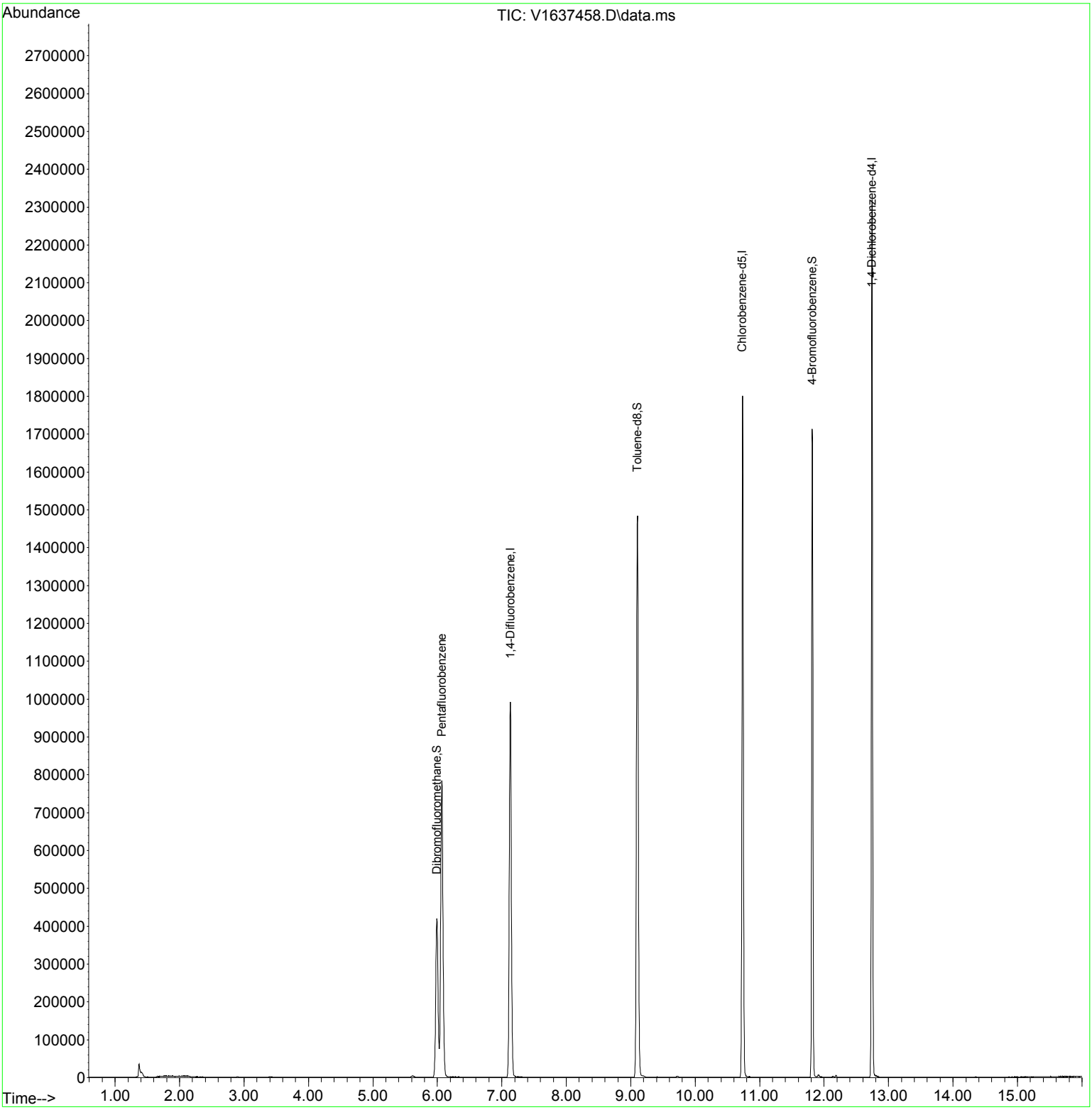
Quant Time: Dec 14 13:01:51 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) cis-1,3-Dichloropropene	0.000		0	N.D.		
42) 4-Methyl-2-pentanone	0.000		0	N.D.	d	
44) Toluene	0.000		0	N.D.		
45) trans-1,3-Dichloropropene	0.000		0	N.D.		
46) 1,1,2-Trichloroethane	0.000		0	N.D.		
48) 2-Hexanone	0.000		0	N.D.		
49) Tetrachloroethene	0.000		0	N.D.		
50) 1,3-Dichloropropane	0.000		0	N.D.		
51) Dibromochloromethane	0.000		0	N.D.		
52) 1,2-Dibromoethane	0.000		0	N.D.		
53) Chlorobenzene	0.000		0	N.D.		
54) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
55) Ethylbenzene	0.000		0	N.D.	d	
56) m,p-Xylene	0.000		0	N.D.		
57) o-Xylene	0.000		0	N.D.		
58) Styrene	0.000		0	N.D.		
59) Bromoform	0.000		0	N.D.		
62) Bromobenzene	0.000		0	N.D.		
63) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
64) 1,2,3-Trichloropropane	0.000		0	N.D.	d	
65) Isopropylbenzene	0.000		0	N.D.		
66) n-Propylbenzene	0.000		0	N.D.	d	
67) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
68) 2-Chlorotoluene	0.000		0	N.D.	d	
69) 4-Chlorotoluene	0.000		0	N.D.	d	
70) 1,3,5-Trimethylbenzene	0.000		0	N.D.		
71) tert-Butylbenzene	0.000		0	N.D.		
72) 1,2,4-Trimethylbenzene	0.000		0	N.D.		
73) sec-Butylbenzene	0.000		0	N.D.		
74) 1,3-Dichlorobenzene	0.000		0	N.D.		
75) 4-Isopropyltoluene	0.000		0	N.D.		
76) 1,4-Dichlorobenzene	0.000		0	N.D.		
77) 1,2-Dichlorobenzene	0.000		0	N.D.		
78) n-Butylbenzene	0.000		0	N.D.	d	
79) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
80) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
81) Hexachlorobutadiene	0.000		0	N.D.		
82) Naphthalene	0.000		0	N.D.	d	
83) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637458.D
Acq On : 14 Dec 2021 11:36
Operator : CM
Sample : MB-327367
Misc : MBLK 8260_TCL4.2_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 14 13:01:51 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637461.D
Acq On : 14 Dec 2021 12:40
Operator : CM
Sample : 2112G62-013A 1/2 TB
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 14 13:02:22 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	6.069	168	743720	50.00	ug/L	-0.02
28) 1,4-Difluorobenzene	7.133	114	993225	50.00	ug/L	-0.02
47) Chlorobenzene-d5	10.738	117	934339	50.00	ug/L	-0.01
61) 1,4-Dichlorobenzene-d4	12.744	152	526878	50.00	ug/L	-0.01
System Monitoring Compounds						
29) Dibromofluoromethane	5.992	113	306113	46.41	ug/L	-0.02
Spiked Amount 50.000	Range 84 - 122		Recovery = 92.82%			
43) Toluene-d8	9.104	98	1137774	49.05	ug/L	-0.02
Spiked Amount 50.000	Range 80 - 116		Recovery = 98.10%			
60) 4-Bromofluorobenzene	11.818	95	432207	47.51	ug/L	-0.01
Spiked Amount 50.000	Range 64 - 125		Recovery = 95.02%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Acrolein	0.000		0	N.D.		
9) 1,1-Dichloroethene	0.000		0	N.D.		
10) Freon-113	0.000		0	N.D.		
11) Acetone	2.895	58	1120	2.52	ug/L	96
12) Iodomethane	0.000		0	N.D.		
13) Carbon disulfide	0.000		0	N.D.		
14) Methyl acetate	0.000		0	N.D.		
15) Vinyl acetate	0.000		0	N.D.		
16) Methylene chloride	3.400	84	2033	0.42	ug/L	83
17) Acrylonitrile	0.000		0	N.D.		
18) Methyl tert-butyl ether	0.000		0	N.D.		
19) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) 1,1-Dichloroethane	0.000		0	N.D.		
21) 2,2-Dichloropropane	0.000		0	N.D.		
22) cis-1,2-Dichloroethene	0.000		0	N.D.		
23) 2-Butanone	0.000		0	N.D. d		
24) Bromochloromethane	0.000		0	N.D.		
25) Chloroform	0.000		0	N.D.		
26) Cyclohexane	6.072	56	10173	Below Cal #		1
27) 1,1,1-Trichloroethane	0.000		0	N.D.		
30) 1,1-Dichloropropene	0.000		0	N.D. d		
31) Carbon tetrachloride	0.000		0	N.D.		
32) Benzene	0.000		0	N.D.		
33) 1,2-Dichloroethane	0.000		0	N.D.		
34) Trichloroethene	0.000		0	N.D.		
35) Methylcyclohexane	0.000		0	N.D.		
36) 1,2-Dichloropropane	0.000		0	N.D.		
37) Dibromomethane	0.000		0	N.D.		
38) 1,4-Dioxane	0.000		0	N.D.		
39) Bromodichloromethane	0.000		0	N.D.		
40) 2-Chloroethyl vinyl ether	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637461.D
Acq On : 14 Dec 2021 12:40
Operator : CM
Sample : 2112G62-013A 1/2 TB
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

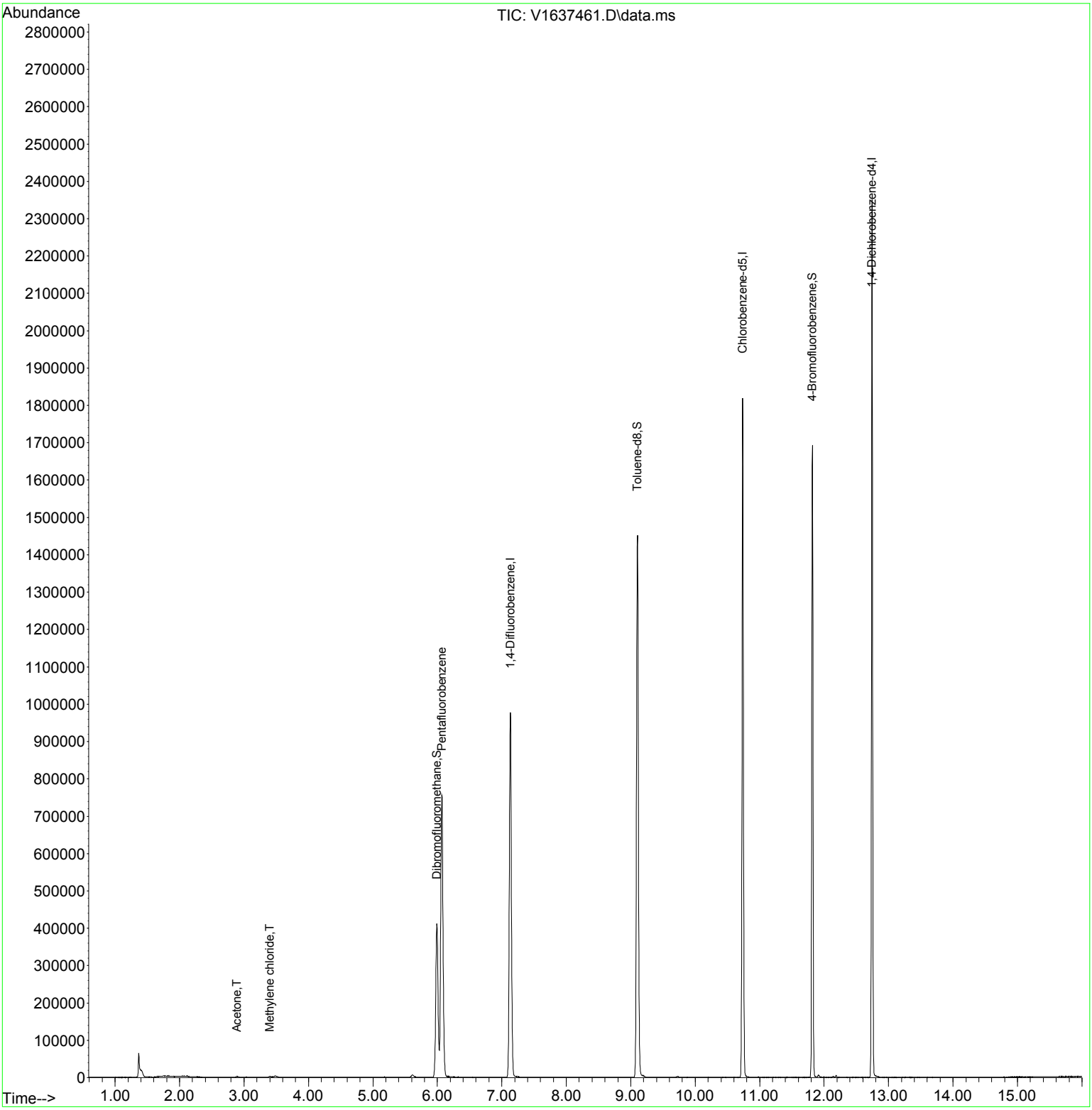
Quant Time: Dec 14 13:02:22 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) cis-1,3-Dichloropropene	0.000		0	N.D.		
42) 4-Methyl-2-pentanone	0.000		0	N.D.	d	
44) Toluene	0.000		0	N.D.		
45) trans-1,3-Dichloropropene	0.000		0	N.D.		
46) 1,1,2-Trichloroethane	0.000		0	N.D.		
48) 2-Hexanone	0.000		0	N.D.		
49) Tetrachloroethene	0.000		0	N.D.		
50) 1,3-Dichloropropane	0.000		0	N.D.		
51) Dibromochloromethane	0.000		0	N.D.		
52) 1,2-Dibromoethane	0.000		0	N.D.		
53) Chlorobenzene	0.000		0	N.D.		
54) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
55) Ethylbenzene	0.000		0	N.D.	d	
56) m,p-Xylene	0.000		0	N.D.		
57) o-Xylene	0.000		0	N.D.		
58) Styrene	0.000		0	N.D.		
59) Bromoform	0.000		0	N.D.		
62) Bromobenzene	0.000		0	N.D.		
63) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
64) 1,2,3-Trichloropropane	0.000		0	N.D.	d	
65) Isopropylbenzene	0.000		0	N.D.		
66) n-Propylbenzene	0.000		0	N.D.	d	
67) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
68) 2-Chlorotoluene	0.000		0	N.D.	d	
69) 4-Chlorotoluene	0.000		0	N.D.	d	
70) 1,3,5-Trimethylbenzene	0.000		0	N.D.		
71) tert-Butylbenzene	0.000		0	N.D.		
72) 1,2,4-Trimethylbenzene	0.000		0	N.D.		
73) sec-Butylbenzene	0.000		0	N.D.		
74) 1,3-Dichlorobenzene	0.000		0	N.D.		
75) 4-Isopropyltoluene	0.000		0	N.D.		
76) 1,4-Dichlorobenzene	0.000		0	N.D.		
77) 1,2-Dichlorobenzene	0.000		0	N.D.		
78) n-Butylbenzene	0.000		0	N.D.	d	
79) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
80) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
81) Hexachlorobutadiene	0.000		0	N.D.		
82) Naphthalene	0.000		0	N.D.		
83) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637461.D
Acq On : 14 Dec 2021 12:40
Operator : CM
Sample : 2112G62-013A 1/2 TB
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 14 13:02:22 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637462.D
Acq On : 14 Dec 2021 13:01
Operator : CM
Sample : 2112G62-011A 1/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 15 07:16:42 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	6.069	168	749058	50.00	ug/L	-0.02
28) 1,4-Difluorobenzene	7.130	114	989125	50.00	ug/L	-0.02
47) Chlorobenzene-d5	10.738	117	932948	50.00	ug/L	-0.01
61) 1,4-Dichlorobenzene-d4	12.744	152	529820	50.00	ug/L	-0.01
System Monitoring Compounds						
29) Dibromofluoromethane	5.992	113	310837	47.32	ug/L	-0.02
Spiked Amount 50.000	Range 84 - 122		Recovery = 94.64%			
43) Toluene-d8	9.104	98	1138847	49.30	ug/L	-0.02
Spiked Amount 50.000	Range 80 - 116		Recovery = 98.60%			
60) 4-Bromofluorobenzene	11.818	95	432229	47.58	ug/L	-0.01
Spiked Amount 50.000	Range 64 - 125		Recovery = 95.16%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Acrolein	0.000		0	N.D.		
9) 1,1-Dichloroethene	0.000		0	N.D.		
10) Freon-113	0.000		0	N.D.		
11) Acetone	0.000		0	N.D.		
12) Iodomethane	0.000		0	N.D.		
13) Carbon disulfide	0.000		0	N.D.		
14) Methyl acetate	0.000		0	N.D.	d	
15) Vinyl acetate	0.000		0	N.D.		
16) Methylene chloride	0.000		0	N.D.		
17) Acrylonitrile	0.000		0	N.D.		
18) Methyl tert-butyl ether	0.000		0	N.D.		
19) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) 1,1-Dichloroethane	0.000		0	N.D.		
21) 2,2-Dichloropropane	0.000		0	N.D.		
22) cis-1,2-Dichloroethene	0.000		0	N.D.		
23) 2-Butanone	0.000		0	N.D.		
24) Bromochloromethane	0.000		0	N.D.		
25) Chloroform	0.000		0	N.D.		
26) Cyclohexane	6.066	56	10439	Below Cal	#	1
27) 1,1,1-Trichloroethane	0.000		0	N.D.		
30) 1,1-Dichloropropene	0.000		0	N.D.	d	
31) Carbon tetrachloride	0.000		0	N.D.		
32) Benzene	0.000		0	N.D.		
33) 1,2-Dichloroethane	0.000		0	N.D.		
34) Trichloroethene	0.000		0	N.D.		
35) Methylcyclohexane	0.000		0	N.D.		
36) 1,2-Dichloropropane	0.000		0	N.D.		
37) Dibromomethane	0.000		0	N.D.		
38) 1,4-Dioxane	0.000		0	N.D.		
39) Bromodichloromethane	0.000		0	N.D.		
40) 2-Chloroethyl vinyl ether	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637462.D
Acq On : 14 Dec 2021 13:01
Operator : CM
Sample : 2112G62-011A 1/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 15 07:16:42 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration

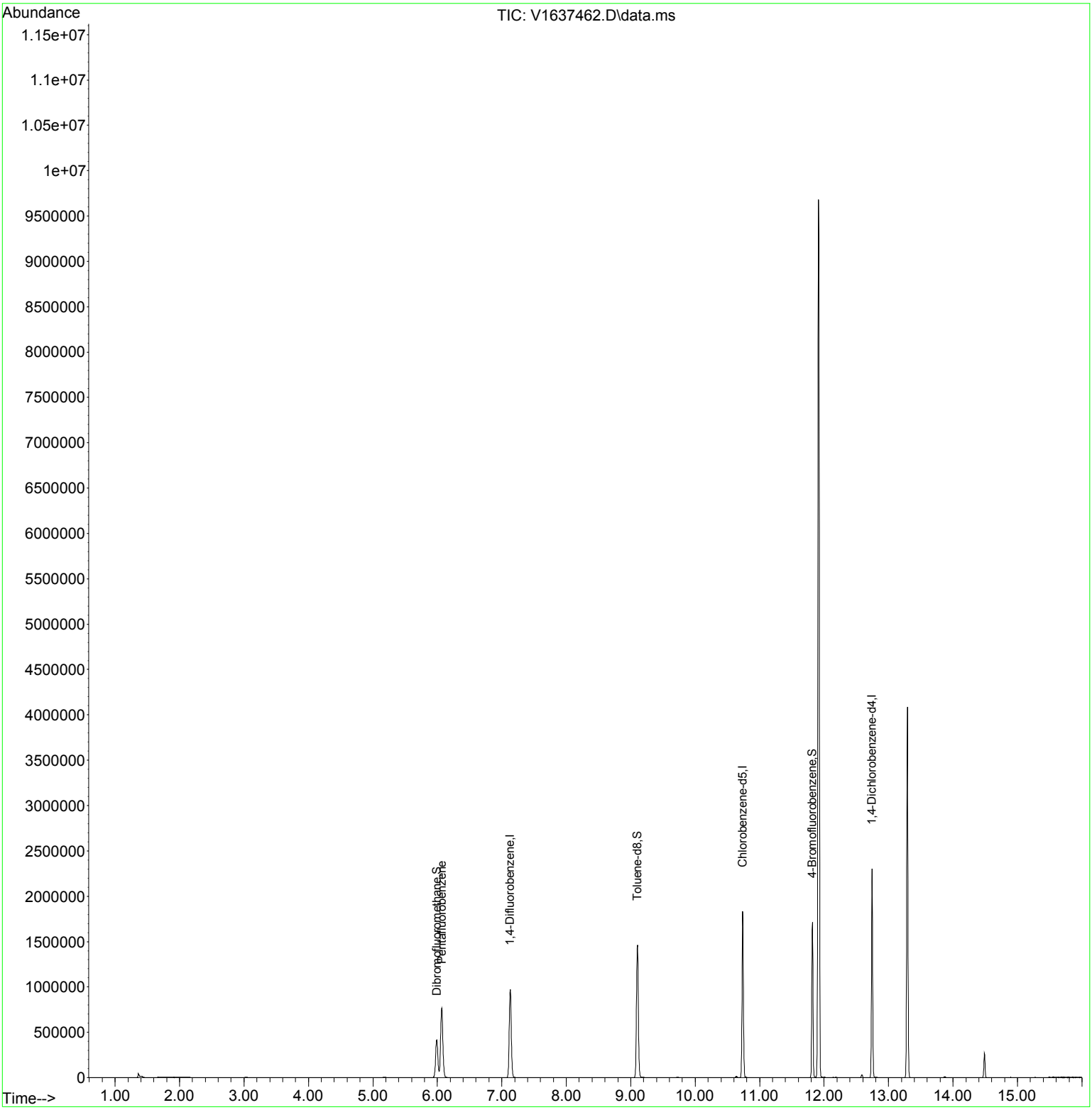
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) cis-1,3-Dichloropropene	0.000		0	N.D.		
42) 4-Methyl-2-pentanone	0.000		0	N.D.	d	
44) Toluene	0.000		0	N.D.		
45) trans-1,3-Dichloropropene	0.000		0	N.D.		
46) 1,1,2-Trichloroethane	0.000		0	N.D.		
48) 2-Hexanone	0.000		0	N.D.		
49) Tetrachloroethene	0.000		0	N.D.		
50) 1,3-Dichloropropane	0.000		0	N.D.		
51) Dibromochloromethane	0.000		0	N.D.		
52) 1,2-Dibromoethane	0.000		0	N.D.		
53) Chlorobenzene	0.000		0	N.D.		
54) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
55) Ethylbenzene	0.000		0	N.D.	d	
56) m,p-Xylene	0.000		0	N.D.		
57) o-Xylene	0.000		0	N.D.		
58) Styrene	0.000		0	N.D.	d	
59) Bromoform	0.000		0	N.D.	d	
62) Bromobenzene	0.000		0	N.D.		
63) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	d	
64) 1,2,3-Trichloropropane	0.000		0	N.D.	d	
65) Isopropylbenzene	0.000		0	N.D.	d	
66) n-Propylbenzene	0.000		0	N.D.	d	
67) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
68) 2-Chlorotoluene	0.000		0	N.D.	d	
69) 4-Chlorotoluene	0.000		0	N.D.	d	
70) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d	
71) tert-Butylbenzene	0.000		0	N.D.		
72) 1,2,4-Trimethylbenzene	0.000		0	N.D.		
73) sec-Butylbenzene	0.000		0	N.D.		
74) 1,3-Dichlorobenzene	0.000		0	N.D.		
75) 4-Isopropyltoluene	0.000		0	N.D.		
76) 1,4-Dichlorobenzene	0.000		0	N.D.		
77) 1,2-Dichlorobenzene	0.000		0	N.D.		
78) n-Butylbenzene	0.000		0	N.D.	d	
79) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	d	
80) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
81) Hexachlorobutadiene	0.000		0	N.D.		
82) Naphthalene	0.000		0	N.D.		
83) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637462.D
Acq On : 14 Dec 2021 13:01
Operator : CM
Sample : 2112G62-011A 1/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 15 07:16:42 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637463.D
Acq On : 14 Dec 2021 13:23
Operator : CM
Sample : 2112G62-012A 1/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 15 07:17:34 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	6.075	168	654127	50.00	ug/L	-0.02
28) 1,4-Difluorobenzene	7.136	114	948529	50.00	ug/L	-0.02
47) Chlorobenzene-d5	10.737	117	889738	50.00	ug/L	-0.01
61) 1,4-Dichlorobenzene-d4	12.744	152	456572	50.00	ug/L	-0.01
System Monitoring Compounds						
29) Dibromofluoromethane	5.998	113	293613	46.61	ug/L	-0.02
Spiked Amount 50.000	Range 84 - 122		Recovery = 93.22%			
43) Toluene-d8	9.107	98	1098516	49.59	ug/L	-0.02
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.18%			
60) 4-Bromofluorobenzene	11.818	95	399261	46.09	ug/L	-0.01
Spiked Amount 50.000	Range 64 - 125		Recovery = 92.18%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Acrolein	0.000		0	N.D.		
9) 1,1-Dichloroethene	0.000		0	N.D.		
10) Freon-113	0.000		0	N.D.		
11) Acetone	0.000		0	N.D.		
12) Iodomethane	0.000		0	N.D.		
13) Carbon disulfide	0.000		0	N.D.		
14) Methyl acetate	0.000		0	N.D.	d	
15) Vinyl acetate	0.000		0	N.D.		
16) Methylene chloride	0.000		0	N.D.		
17) Acrylonitrile	0.000		0	N.D.		
18) Methyl tert-butyl ether	0.000		0	N.D.		
19) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) 1,1-Dichloroethane	0.000		0	N.D.		
21) 2,2-Dichloropropane	0.000		0	N.D.		
22) cis-1,2-Dichloroethene	0.000		0	N.D.		
23) 2-Butanone	0.000		0	N.D.		
24) Bromochloromethane	0.000		0	N.D.		
25) Chloroform	0.000		0	N.D.		
26) Cyclohexane	6.072	56	9006	Below Cal #		1
27) 1,1,1-Trichloroethane	0.000		0	N.D.		
30) 1,1-Dichloropropene	0.000		0	N.D.	d	
31) Carbon tetrachloride	0.000		0	N.D.		
32) Benzene	0.000		0	N.D.		
33) 1,2-Dichloroethane	0.000		0	N.D.		
34) Trichloroethene	0.000		0	N.D.		
35) Methylcyclohexane	0.000		0	N.D.		
36) 1,2-Dichloropropane	0.000		0	N.D.		
37) Dibromomethane	0.000		0	N.D.		
38) 1,4-Dioxane	0.000		0	N.D.		
39) Bromodichloromethane	0.000		0	N.D.		
40) 2-Chloroethyl vinyl ether	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637463.D
Acq On : 14 Dec 2021 13:23
Operator : CM
Sample : 2112G62-012A 1/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 18 Sample Multiplier: 1

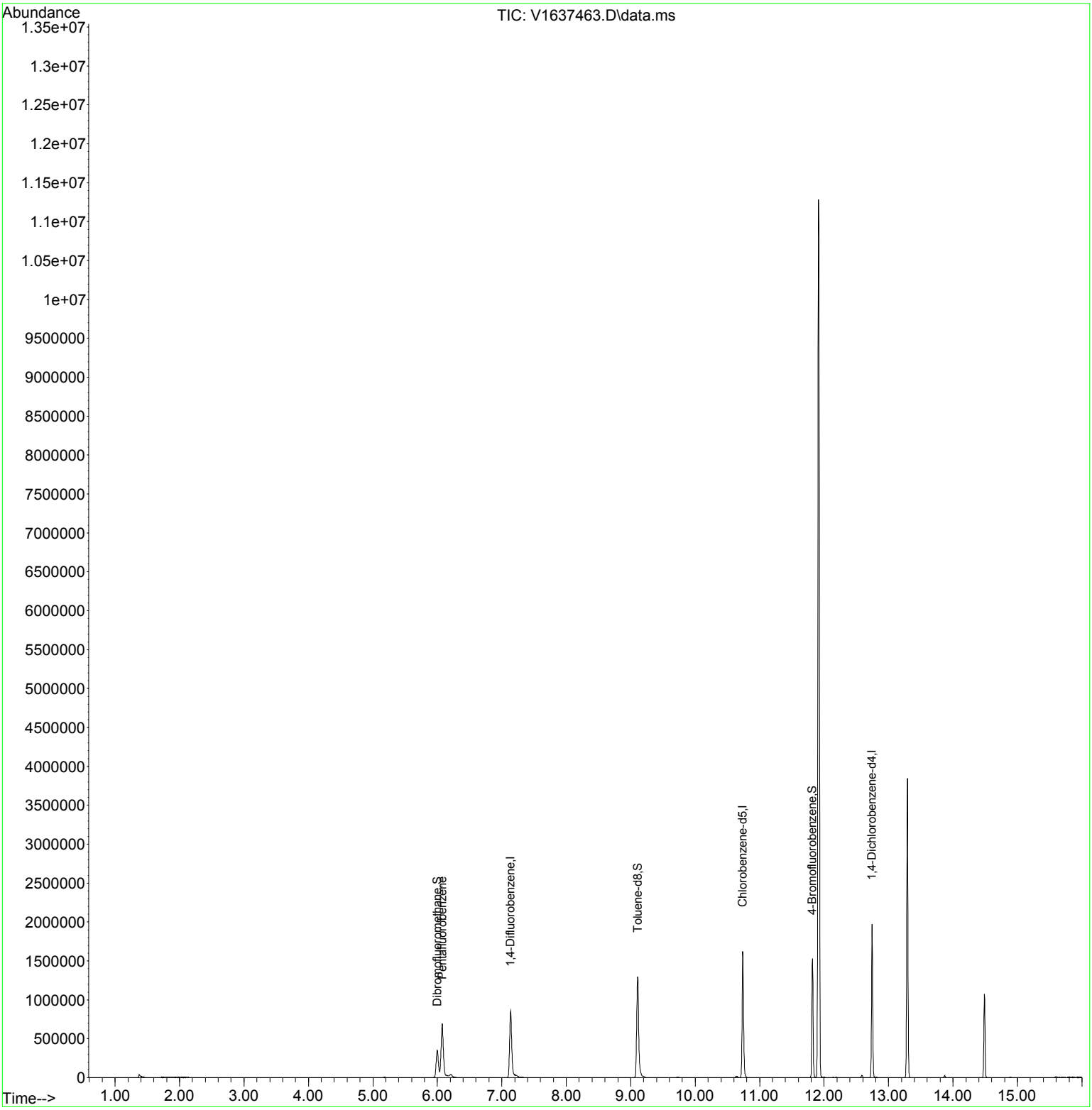
Quant Time: Dec 15 07:17:34 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) cis-1,3-Dichloropropene	0.000		0	N.D.		
42) 4-Methyl-2-pentanone	0.000		0	N.D.	d	
44) Toluene	0.000		0	N.D.		
45) trans-1,3-Dichloropropene	0.000		0	N.D.		
46) 1,1,2-Trichloroethane	0.000		0	N.D.		
48) 2-Hexanone	0.000		0	N.D.		
49) Tetrachloroethene	0.000		0	N.D.		
50) 1,3-Dichloropropane	0.000		0	N.D.		
51) Dibromochloromethane	0.000		0	N.D.		
52) 1,2-Dibromoethane	0.000		0	N.D.		
53) Chlorobenzene	0.000		0	N.D.		
54) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
55) Ethylbenzene	0.000		0	N.D.	d	
56) m,p-Xylene	0.000		0	N.D.		
57) o-Xylene	0.000		0	N.D.		
58) Styrene	0.000		0	N.D.		
59) Bromoform	0.000		0	N.D.	d	
62) Bromobenzene	0.000		0	N.D.		
63) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
64) 1,2,3-Trichloropropane	0.000		0	N.D.	d	
65) Isopropylbenzene	0.000		0	N.D.	d	
66) n-Propylbenzene	0.000		0	N.D.	d	
67) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
68) 2-Chlorotoluene	0.000		0	N.D.	d	
69) 4-Chlorotoluene	0.000		0	N.D.	d	
70) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d	
71) tert-Butylbenzene	0.000		0	N.D.		
72) 1,2,4-Trimethylbenzene	0.000		0	N.D.		
73) sec-Butylbenzene	0.000		0	N.D.		
74) 1,3-Dichlorobenzene	0.000		0	N.D.		
75) 4-Isopropyltoluene	0.000		0	N.D.		
76) 1,4-Dichlorobenzene	0.000		0	N.D.		
77) 1,2-Dichlorobenzene	0.000		0	N.D.		
78) n-Butylbenzene	0.000		0	N.D.	d	
79) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	d	
80) 1,2,4-Trichlorobenzene	0.000		0	N.D.	d	
81) Hexachlorobutadiene	0.000		0	N.D.	d	
82) Naphthalene	0.000		0	N.D.		
83) 1,2,3-Trichlorobenzene	0.000		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637463.D
Acq On : 14 Dec 2021 13:23
Operator : CM
Sample : 2112G62-012A 1/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 15 07:17:34 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637464.D
Acq On : 14 Dec 2021 13:44
Operator : CM
Sample : 2112G62-001A 1/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 15 07:18:29 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	6.075	168	720990	50.00	ug/L	-0.02
28) 1,4-Difluorobenzene	7.137	114	961792	50.00	ug/L	-0.02
47) Chlorobenzene-d5	10.738	117	907102	50.00	ug/L	-0.01
61) 1,4-Dichlorobenzene-d4	12.744	152	524393	50.00	ug/L	-0.01
System Monitoring Compounds						
29) Dibromofluoromethane	5.995	113	302570	47.37	ug/L	-0.02
Spiked Amount 50.000	Range 84 - 122		Recovery = 94.74%			
43) Toluene-d8	9.108	98	1109967	49.42	ug/L	-0.02
Spiked Amount 50.000	Range 80 - 116		Recovery = 98.84%			
60) 4-Bromofluorobenzene	11.818	95	425850	48.22	ug/L	-0.01
Spiked Amount 50.000	Range 64 - 125		Recovery = 96.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.693	50	1383	0.27	ug/L	87
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Acrolein	0.000		0	N.D.		
9) 1,1-Dichloroethene	0.000		0	N.D.		
10) Freon-113	0.000		0	N.D.		
11) Acetone	2.896	58	11350	26.36	ug/L	93
12) Iodomethane	0.000		0	N.D.		
13) Carbon disulfide	0.000		0	N.D.		
14) Methyl acetate	0.000		0	N.D.	d	
15) Vinyl acetate	0.000		0	N.D.		
16) Methylene chloride	0.000		0	N.D.		
17) Acrylonitrile	3.696	53	27857	17.39	ug/L	97
18) Methyl tert-butyl ether	0.000		0	N.D.		
19) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) 1,1-Dichloroethane	0.000		0	N.D.		
21) 2,2-Dichloropropane	0.000		0	N.D.		
22) cis-1,2-Dichloroethene	0.000		0	N.D.		
23) 2-Butanone	0.000		0	N.D.		
24) Bromochloromethane	0.000		0	N.D.		
25) Chloroform	0.000		0	N.D.		
26) Cyclohexane	6.075	56	10251	Below Cal	#	1
27) 1,1,1-Trichloroethane	0.000		0	N.D.		
30) 1,1-Dichloropropene	0.000		0	N.D.	d	
31) Carbon tetrachloride	0.000		0	N.D.		
32) Benzene	6.500	78	12413	0.80	ug/L	98
33) 1,2-Dichloroethane	0.000		0	N.D.		
34) Trichloroethene	0.000		0	N.D.		
35) Methylcyclohexane	0.000		0	N.D.		
36) 1,2-Dichloropropane	0.000		0	N.D.		
37) Dibromomethane	0.000		0	N.D.		
38) 1,4-Dioxane	0.000		0	N.D.		
39) Bromodichloromethane	0.000		0	N.D.		
40) 2-Chloroethyl vinyl ether	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637464.D
Acq On : 14 Dec 2021 13:44
Operator : CM
Sample : 2112G62-001A 1/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 19 Sample Multiplier: 1

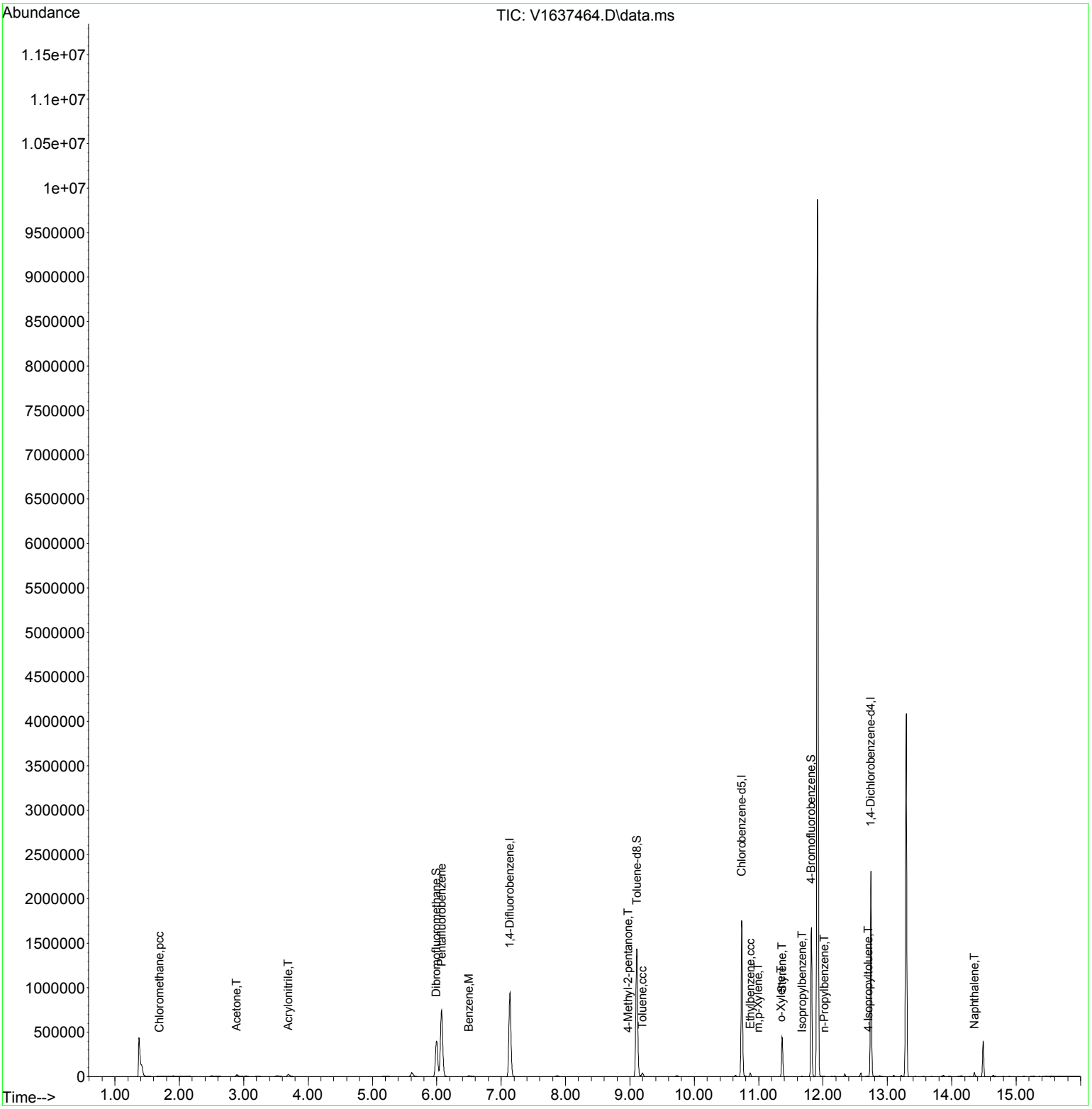
Quant Time: Dec 15 07:18:29 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) cis-1,3-Dichloropropene	0.000		0	N.D.	
42) 4-Methyl-2-pentanone	8.976	43	1280	0.27 ug/L #	76
44) Toluene	9.194	92	16414	1.67 ug/L	99
45) trans-1,3-Dichloropropene	0.000		0	N.D.	
46) 1,1,2-Trichloroethane	0.000		0	N.D.	
48) 2-Hexanone	0.000		0	N.D.	
49) Tetrachloroethene	0.000		0	N.D.	
50) 1,3-Dichloropropane	0.000		0	N.D.	
51) Dibromochloromethane	0.000		0	N.D.	
52) 1,2-Dibromoethane	0.000		0	N.D.	
53) Chlorobenzene	0.000		0	N.D.	
54) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
55) Ethylbenzene	10.870	91	24814	1.32 ug/L	99
56) m,p-Xylene	10.995	91	1557	0.11 ug/L	98
57) o-Xylene	11.352	91	1427	0.10 ug/L	84
58) Styrene	11.365	104	184187	15.47 ug/L	95
59) Bromoform	0.000		0	N.D. d	
62) Bromobenzene	0.000		0	N.D.	
63) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
64) 1,2,3-Trichloropropane	0.000		0	N.D. d	
65) Isopropylbenzene	11.673	105	2023	0.11 ug/L	98
66) n-Propylbenzene	12.021	91	1127	0.05 ug/L	94
67) trans-1,4-Dichloro-2-b...	0.000		0	N.D.	
68) 2-Chlorotoluene	0.000		0	N.D. d	
69) 4-Chlorotoluene	0.000		0	N.D. d	
70) 1,3,5-Trimethylbenzene	0.000		0	N.D. d	
71) tert-Butylbenzene	0.000		0	N.D. d	
72) 1,2,4-Trimethylbenzene	0.000		0	N.D.	
73) sec-Butylbenzene	0.000		0	N.D.	
74) 1,3-Dichlorobenzene	0.000		0	N.D.	
75) 4-Isopropyltoluene	12.709	119	3901	0.25 ug/L	94
76) 1,4-Dichlorobenzene	0.000		0	N.D.	
77) 1,2-Dichlorobenzene	0.000		0	N.D.	
78) n-Butylbenzene	0.000		0	N.D. d	
79) 1,2-Dibromo-3-chloropr...	0.000		0	N.D. d	
80) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
81) Hexachlorobutadiene	0.000		0	N.D.	
82) Naphthalene	14.352	128	27677	2.37 ug/L	100
83) 1,2,3-Trichlorobenzene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637464.D
Acq On : 14 Dec 2021 13:44
Operator : CM
Sample : 2112G62-001A 1/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 15 07:18:29 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637465.D
Acq On : 14 Dec 2021 14:06
Operator : CM
Sample : 2112G62-003AMS 2/3
Misc : MS 8260_TCL4.2_W
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 15 07:19:46 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	6.072	168	697569	50.00	ug/L	-0.02
28) 1,4-Difluorobenzene	7.133	114	927652	50.00	ug/L	-0.02
47) Chlorobenzene-d5	10.737	117	888651	50.00	ug/L	-0.01
61) 1,4-Dichlorobenzene-d4	12.744	152	540322	50.00	ug/L	-0.01
System Monitoring Compounds						
29) Dibromofluoromethane	5.995	113	298311	48.42	ug/L	-0.02
Spiked Amount 50.000	Range 84 - 122		Recovery = 96.84%			
43) Toluene-d8	9.104	98	1084384	50.05	ug/L	-0.02
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.10%			
60) 4-Bromofluorobenzene	11.818	95	423230	48.92	ug/L	-0.01
Spiked Amount 50.000	Range 64 - 125		Recovery = 97.84%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.535	85	128814	24.25	ug/L	99
3) Chloromethane	1.696	50	97444	19.45	ug/L	99
4) Vinyl chloride	1.789	62	93174	21.20	ug/L	99
5) Bromomethane	2.075	94	75584	25.99	ug/L	98
6) Chloroethane	2.162	64	70040	24.59	ug/L	99
7) Trichlorofluoromethane	2.362	101	170074	23.99	ug/L #	95
8) Acrolein	2.754	56	10275	17.78	ug/L	96
9) 1,1-Dichloroethene	2.860	96	86012	23.98	ug/L	92
10) Freon-113	2.899	101	94042	25.66	µg/L	97
11) Acetone	2.895	58	31067	74.57	ug/L	91
12) Iodomethane	3.014	142	355210	47.45	ug/L	98
13) Carbon disulfide	3.098	76	429246	43.89	ug/L	100
14) Methyl acetate	3.233	43	82688	21.26	µg/L	99
15) Vinyl acetate	4.374	43	336324	37.24	ug/L #	96
16) Methylene chloride	3.403	84	96586	21.07	ug/L	97
17) Acrylonitrile	3.690	53	44911	28.98	ug/L	99
18) Methyl tert-butyl ether	3.735	73	208938	19.09	µg/L	98
19) trans-1,2-Dichloroethene	3.747	96	95197	23.53	ug/L	96
20) 1,1-Dichloroethane	4.362	63	161379	22.02	ug/L	99
21) 2,2-Dichloropropane	5.249	77	86608	20.87	ug/L	99
22) cis-1,2-Dichloroethene	5.249	96	101529	22.69	ug/L	94
23) 2-Butanone	5.236	72	31495	55.48	µg/L	94
24) Bromochloromethane	5.593	128	51250	22.10	ug/L	92
25) Chloroform	5.770	83	165220	22.12	ug/L	98
26) Cyclohexane	6.082	56	144198	21.97	µg/L	92
27) 1,1,1-Trichloroethane	5.988	97	141544	22.07	ug/L	97
30) 1,1-Dichloropropene	6.226	110	50868	25.78	ug/L	93
31) Carbon tetrachloride	6.207	119	123452	23.32	ug/L	98
32) Benzene	6.500	78	361245	24.04	ug/L	100
33) 1,2-Dichloroethane	6.583	62	111183	21.29	ug/L	97
34) Trichloroethene	7.442	130	106494	25.39	ug/L	99
35) Methylcyclohexane	7.750	55	98020	22.62	µg/L	94
36) 1,2-Dichloropropane	7.792	63	90398	23.04	ug/L	99
37) Dibromomethane	7.905	93	57908	22.46	ug/L	96
38) 1,4-Dioxane	7.911	88	7181	253.92	µg/L #	96
39) Bromodichloromethane	8.168	83	106782	20.64	ug/L	96
40) 2-Chloroethyl vinyl ether	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637465.D
Acq On : 14 Dec 2021 14:06
Operator : CM
Sample : 2112G62-003AMS 2/3
Misc : MS 8260_TCL4.2_W
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 15 07:19:46 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration

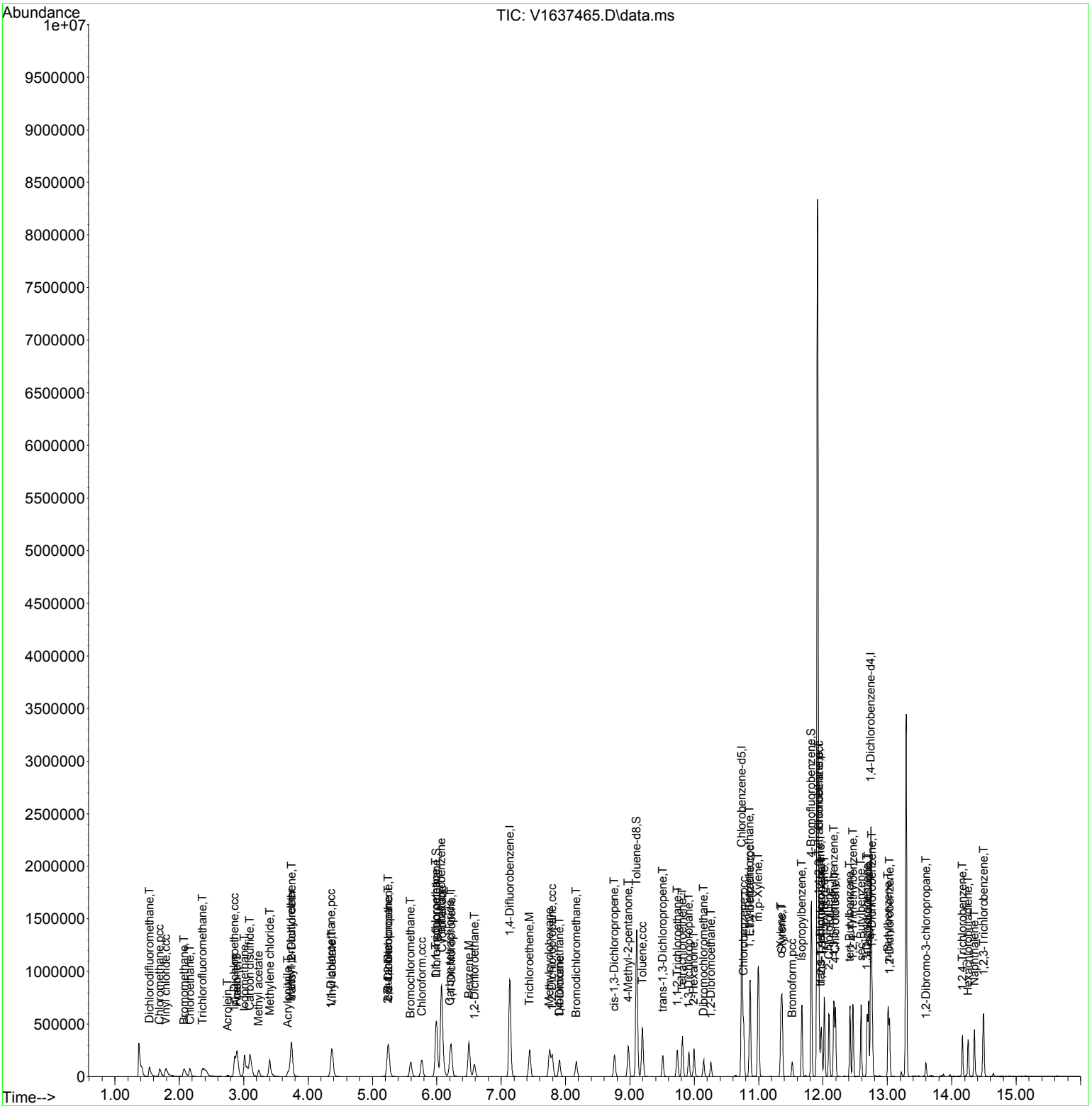
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) cis-1,3-Dichloropropene	8.760	75	131218	21.07	ug/L	99
42) 4-Methyl-2-pentanone	8.976	43	222079	48.47	ug/L	98
44) Toluene	9.194	92	228059	24.05	ug/L	99
45) trans-1,3-Dichloropropene	9.509	75	111767	20.34	ug/L	99
46) 1,1,2-Trichloroethane	9.734	83	67497	23.03	ug/L	99
48) 2-Hexanone	9.995	43	170038	48.10	ug/L	98
49) Tetrachloroethene	9.815	166	124385	24.28	ug/L	97
50) 1,3-Dichloropropane	9.914	76	130498	22.01	ug/L	99
51) Dibromochloromethane	10.146	129	79441	19.31	ug/L	97
52) 1,2-Dibromoethane	10.258	107	86846	22.43	ug/L	97
53) Chlorobenzene	10.766	112	260346	23.27	ug/L	96
54) 1,1,1,2-Tetrachloroethane	10.860	131	84500	21.40	ug/L	100
55) Ethylbenzene	10.866	91	424982	23.00	ug/L	99
56) m,p-Xylene	10.995	91	659822	45.80	ug/L	98
57) o-Xylene	11.345	91	319077	22.10	ug/L	100
58) Styrene	11.364	104	288543	24.73	ug/L	98
59) Bromoform	11.522	173	55570	15.09	ug/L	99
62) Bromobenzene	11.934	156	128987	23.60	ug/L	93
63) 1,1,2,2-Tetrachloroethane	11.937	83	122985	23.18	ug/L	99
64) 1,2,3-Trichloropropane	11.975	75	174490	18.95	ug/L	99
65) Isopropylbenzene	11.670	105	391628	21.30	ug/L	100
66) n-Propylbenzene	12.020	91	473252	21.72	ug/L	99
67) trans-1,4-Dichloro-2-b...	11.966	124	14475	34.58	ug/L	94
68) 2-Chlorotoluene	12.091	91	280240	21.38	ug/L	100
69) 4-Chlorotoluene	12.191	91	331144	21.28	ug/L	99
70) 1,3,5-Trimethylbenzene	12.168	105	313706	20.77	ug/L	99
71) tert-Butylbenzene	12.419	119	274145	20.77	ug/L	96
72) 1,2,4-Trimethylbenzene	12.464	105	318545	20.70	ug/L	99
73) sec-Butylbenzene	12.589	105	371864	20.21	ug/L	100
74) 1,3-Dichlorobenzene	12.686	146	207377	21.85	ug/L	100
75) 4-Isopropyltoluene	12.705	119	327284	19.96	ug/L	99
76) 1,4-Dichlorobenzene	12.763	146	216227	21.93	ug/L	98
77) 1,2-Dichlorobenzene	13.033	146	187661	21.65	ug/L	98
78) n-Butylbenzene	13.011	91	279005	20.19	ug/L	100
79) 1,2-Dibromo-3-chloropr...	13.599	75	22475	20.63	ug/L	85
80) 1,2,4-Trichlorobenzene	14.165	180	103352	22.24	ug/L	99
81) Hexachlorobutadiene	14.255	225	54417	24.62	ug/L	99
82) Naphthalene	14.351	128	282134	23.48	ug/L	100
83) 1,2,3-Trichlorobenzene	14.496	180	89054	23.81	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637465.D
Acq On : 14 Dec 2021 14:06
Operator : CM
Sample : 2112G62-003AMS 2/3
Misc : MS 8260_TCL4.2_W
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 15 07:19:46 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637466.D
Acq On : 14 Dec 2021 14:27
Operator : CM
Sample : 2112G62-003AMSD 2/3
Misc : MSD 8260_TCL4.2_W
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 15 07:20:23 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	6.072	168	726651	50.00	ug/L	-0.02
28) 1,4-Difluorobenzene	7.133	114	963293	50.00	ug/L	-0.02
47) Chlorobenzene-d5	10.738	117	924517	50.00	ug/L	-0.01
61) 1,4-Dichlorobenzene-d4	12.744	152	573727	50.00	ug/L	-0.01
System Monitoring Compounds						
29) Dibromofluoromethane	5.995	113	310297	48.50	ug/L	-0.02
Spiked Amount 50.000	Range 84 - 122		Recovery = 97.00%			
43) Toluene-d8	9.107	98	1123090	49.92	ug/L	-0.02
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.84%			
60) 4-Bromofluorobenzene	11.818	95	448467	49.82	ug/L	-0.01
Spiked Amount 50.000	Range 64 - 125		Recovery = 99.64%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.532	85	126404	22.85	ug/L	100
3) Chloromethane	1.696	50	89448	17.14	ug/L	99
4) Vinyl chloride	1.783	62	84865	18.53	ug/L	99
5) Bromomethane	2.069	94	63619	20.92	ug/L	95
6) Chloroethane	2.156	64	71690	24.16	ug/L	97
7) Trichlorofluoromethane	2.365	101	166941	22.60	ug/L #	98
8) Acrolein	2.754	56	10416	17.31	ug/L	97
9) 1,1-Dichloroethene	2.867	96	86679	23.20	ug/L	92
10) Freon-113	2.892	101	92983	24.36	µg/L	100
11) Acetone	2.899	58	31527	72.64	ug/L	94
12) Iodomethane	3.050	142	362204	46.45	ug/L	98
13) Carbon disulfide	3.111	76	437850	42.97	ug/L	100
14) Methyl acetate	3.236	43	81317	20.07	µg/L	96
15) Vinyl acetate	4.378	43	333307	35.43	ug/L #	97
16) Methylene chloride	3.403	84	97127	20.34	ug/L	96
17) Acrylonitrile	3.693	53	43326	26.84	ug/L	98
18) Methyl tert-butyl ether	3.738	73	215045	18.86	µg/L	99
19) trans-1,2-Dichloroethene	3.744	96	95778	22.73	ug/L	96
20) 1,1-Dichloroethane	4.365	63	163270	21.39	ug/L	99
21) 2,2-Dichloropropane	5.249	77	87227	20.18	ug/L	100
22) cis-1,2-Dichloroethene	5.249	96	101715	21.82	ug/L	97
23) 2-Butanone	5.236	72	32731	55.35	µg/L	87
24) Bromochloromethane	5.596	128	51601	21.36	ug/L	92
25) Chloroform	5.770	83	164379	21.13	ug/L	99
26) Cyclohexane	6.085	56	147769	21.58	µg/L	92
27) 1,1,1-Trichloroethane	5.985	97	147326	22.05	ug/L	99
30) 1,1-Dichloropropene	6.227	110	50765	24.77	ug/L	93
31) Carbon tetrachloride	6.207	119	129107	23.49	ug/L	98
32) Benzene	6.500	78	361170	23.14	ug/L	99
33) 1,2-Dichloroethane	6.587	62	111010	20.47	ug/L	98
34) Trichloroethene	7.442	130	106670	24.49	ug/L	99
35) Methylcyclohexane	7.754	55	102725	22.83	µg/L	93
36) 1,2-Dichloropropane	7.792	63	90211	22.14	ug/L	100
37) Dibromomethane	7.908	93	58038	21.68	ug/L	96
38) 1,4-Dioxane	7.921	88	11968	407.52	µg/L	92
39) Bromodichloromethane	8.169	83	107284	19.97	ug/L	99
40) 2-Chloroethyl vinyl ether	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637466.D
Acq On : 14 Dec 2021 14:27
Operator : CM
Sample : 2112G62-003AMSD 2/3
Misc : MSD 8260_TCL4.2_W
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 15 07:20:23 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration

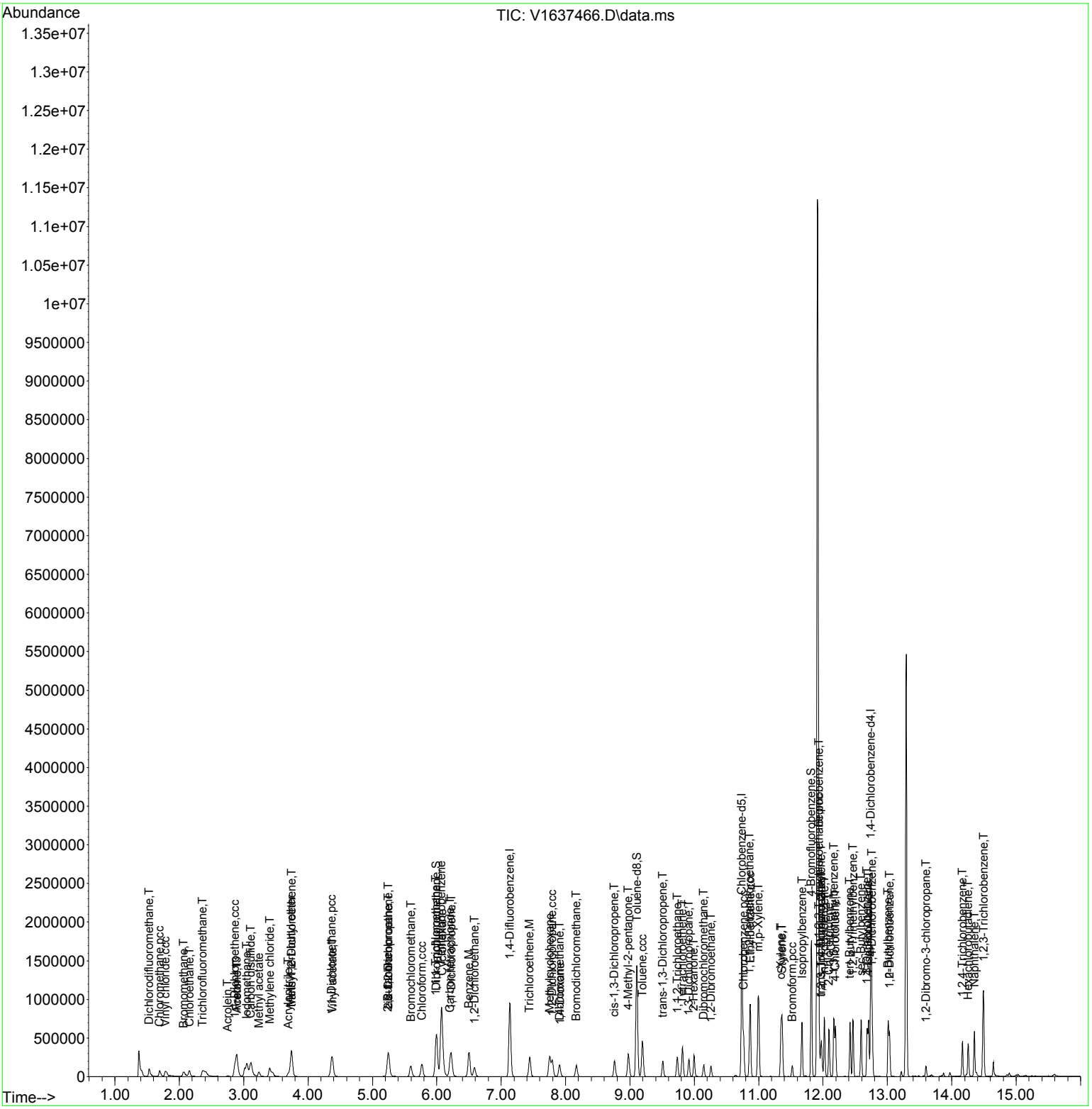
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) cis-1,3-Dichloropropene	8.760	75	131032	20.26	ug/L	99
42) 4-Methyl-2-pentanone	8.976	43	225515	47.40	ug/L	97
44) Toluene	9.194	92	228647	23.22	ug/L	99
45) trans-1,3-Dichloropropene	9.513	75	113272	19.85	ug/L	99
46) 1,1,2-Trichloroethane	9.734	83	67287	22.11	ug/L	99
48) 2-Hexanone	9.995	43	173428	47.15	ug/L	98
49) Tetrachloroethene	9.818	166	124374	23.34	ug/L	99
50) 1,3-Dichloropropane	9.914	76	129260	20.95	ug/L	100
51) Dibromochloromethane	10.146	129	79825	18.65	ug/L	97
52) 1,2-Dibromoethane	10.259	107	86275	21.42	ug/L	98
53) Chlorobenzene	10.767	112	260228	22.35	ug/L	97
54) 1,1,1,2-Tetrachloroethane	10.860	131	88069	21.43	ug/L	99
55) Ethylbenzene	10.869	91	430583	22.40	ug/L	100
56) m,p-Xylene	10.998	91	667083	44.50	ug/L	97
57) o-Xylene	11.345	91	327637	21.81	ug/L	100
58) Styrene	11.365	104	289798	23.88	ug/L	98
59) Bromoform	11.522	173	55607	14.55	ug/L	99
62) Bromobenzene	11.934	156	131432	22.64	ug/L	93
63) 1,1,2,2-Tetrachloroethane	11.940	83	126287	22.42	ug/L	100
64) 1,2,3-Trichloropropane	11.975	75	172491	17.65	ug/L	99
65) Isopropylbenzene	11.673	105	405218	20.75	ug/L	100
66) n-Propylbenzene	12.020	91	486034	21.01	ug/L	99
67) trans-1,4-Dichloro-2-b...	11.969	124	13973	31.44	ug/L	93
68) 2-Chlorotoluene	12.091	91	284876	20.47	ug/L	99
69) 4-Chlorotoluene	12.194	91	337081	20.40	ug/L	97
70) 1,3,5-Trimethylbenzene	12.168	105	329465	20.54	ug/L	96
71) tert-Butylbenzene	12.419	119	284426	20.29	ug/L	99
72) 1,2,4-Trimethylbenzene	12.464	105	332775	20.36	ug/L	98
73) sec-Butylbenzene	12.593	105	391291	20.03	ug/L	99
74) 1,3-Dichlorobenzene	12.686	146	213118	21.15	ug/L	100
75) 4-Isopropyltoluene	12.709	119	348939	20.05	ug/L	99
76) 1,4-Dichlorobenzene	12.763	146	221435	21.15	ug/L	98
77) 1,2-Dichlorobenzene	13.033	146	194600	21.15	ug/L	98
78) n-Butylbenzene	13.011	91	299661	20.42	ug/L	100
79) 1,2-Dibromo-3-chloropr...	13.599	75	23631	20.43	ug/L	92
80) 1,2,4-Trichlorobenzene	14.165	180	119687	24.25	ug/L	98
81) Hexachlorobutadiene	14.255	225	63266	26.96	ug/L	98
82) Naphthalene	14.352	128	351780	27.58	ug/L	100
83) 1,2,3-Trichlorobenzene	14.496	180	111877	28.17	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637466.D
Acq On : 14 Dec 2021 14:27
Operator : CM
Sample : 2112G62-003AMSD 2/3
Misc : MSD 8260_TCL4.2_W
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 15 07:20:23 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637475.D
Acq On : 14 Dec 2021 17:40
Operator : CM
Sample : 2112G62-002A 1/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 14 18:10:35 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	6.072	168	704399	50.00	ug/L	-0.02
28) 1,4-Difluorobenzene	7.133	114	951905	50.00	ug/L	-0.02
47) Chlorobenzene-d5	10.738	117	902419	50.00	ug/L	-0.01
61) 1,4-Dichlorobenzene-d4	12.744	152	511347	50.00	ug/L	-0.01
System Monitoring Compounds						
29) Dibromofluoromethane	5.992	113	300113	47.47	ug/L	-0.02
Spiked Amount 50.000	Range 84 - 122		Recovery = 94.94%			
43) Toluene-d8	9.104	98	1099130	49.44	ug/L	-0.02
Spiked Amount 50.000	Range 80 - 116		Recovery = 98.88%			
60) 4-Bromofluorobenzene	11.818	95	420041	47.81	ug/L	-0.01
Spiked Amount 50.000	Range 64 - 125		Recovery = 95.62%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D. d		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Acrolein	0.000		0	N.D.		
9) 1,1-Dichloroethene	0.000		0	N.D.		
10) Freon-113	0.000		0	N.D.		
11) Acetone	2.886	58	10148	24.12	ug/L	97
12) Iodomethane	0.000		0	N.D.		
13) Carbon disulfide	0.000		0	N.D.		
14) Methyl acetate	0.000		0	N.D.		
15) Vinyl acetate	0.000		0	N.D.		
16) Methylene chloride	0.000		0	N.D.		
17) Acrylonitrile	3.686	53	26668	17.04	ug/L	99
18) Methyl tert-butyl ether	0.000		0	N.D.		
19) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) 1,1-Dichloroethane	0.000		0	N.D.		
21) 2,2-Dichloropropane	0.000		0	N.D.		
22) cis-1,2-Dichloroethene	0.000		0	N.D.		
23) 2-Butanone	0.000		0	N.D.		
24) Bromochloromethane	0.000		0	N.D.		
25) Chloroform	0.000		0	N.D.		
26) Cyclohexane	6.066	56	9757	Below Cal #		1
27) 1,1,1-Trichloroethane	0.000		0	N.D.		
30) 1,1-Dichloropropene	0.000		0	N.D. d		
31) Carbon tetrachloride	0.000		0	N.D.		
32) Benzene	6.497	78	12138	0.79	ug/L	99
33) 1,2-Dichloroethane	0.000		0	N.D.		
34) Trichloroethene	0.000		0	N.D.		
35) Methylcyclohexane	0.000		0	N.D.		
36) 1,2-Dichloropropane	0.000		0	N.D.		
37) Dibromomethane	0.000		0	N.D.		
38) 1,4-Dioxane	0.000		0	N.D.		
39) Bromodichloromethane	0.000		0	N.D.		
40) 2-Chloroethyl vinyl ether	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637475.D
Acq On : 14 Dec 2021 17:40
Operator : CM
Sample : 2112G62-002A 1/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 14 18:10:35 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration

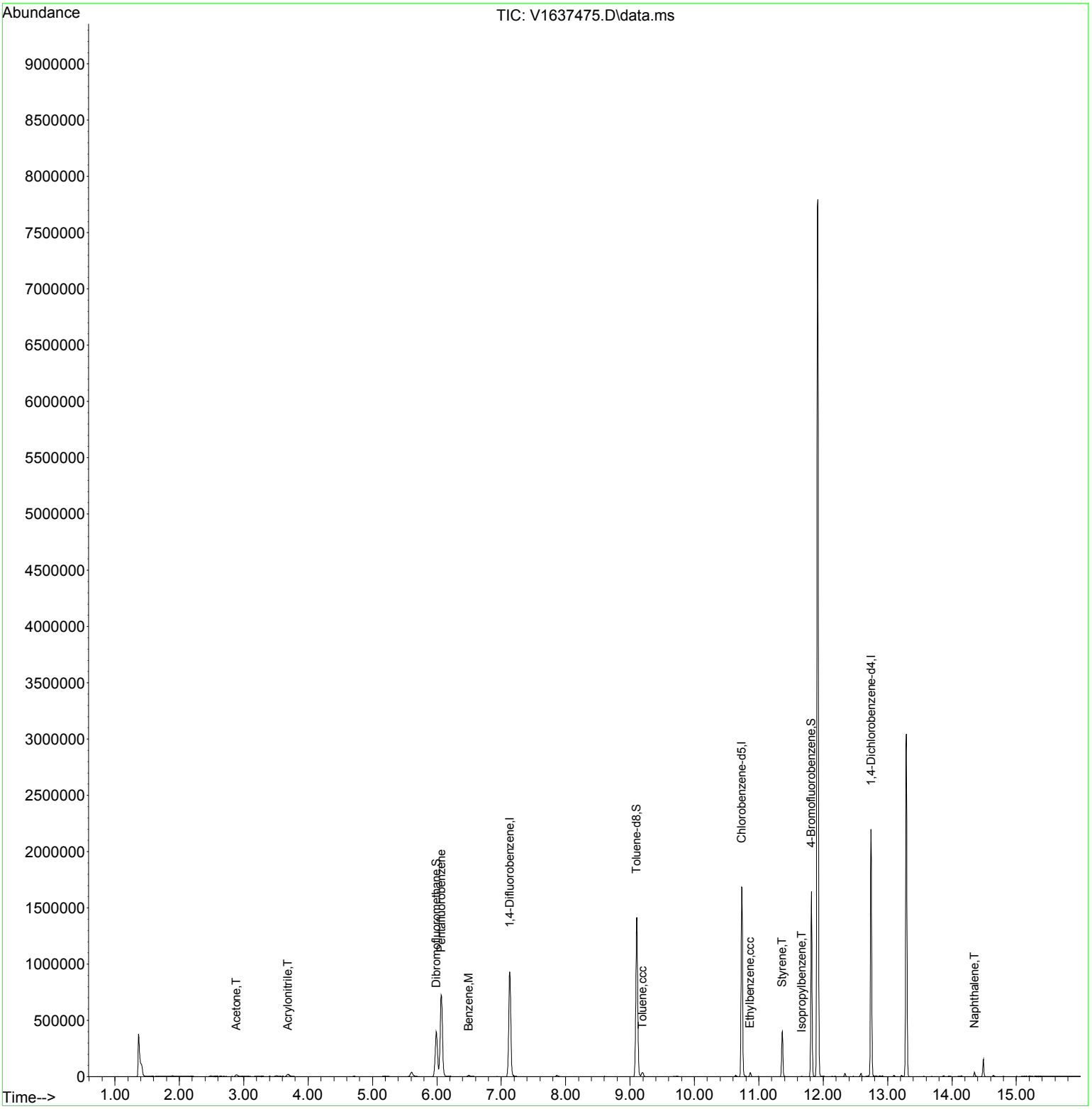
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) cis-1,3-Dichloropropene	0.000		0	N.D.		
42) 4-Methyl-2-pentanone	0.000		0	N.D.	d	
44) Toluene	9.191	92	15497	1.59	ug/L	95
45) trans-1,3-Dichloropropene	0.000		0	N.D.		
46) 1,1,2-Trichloroethane	0.000		0	N.D.		
48) 2-Hexanone	0.000		0	N.D.		
49) Tetrachloroethene	0.000		0	N.D.		
50) 1,3-Dichloropropane	0.000		0	N.D.		
51) Dibromochloromethane	0.000		0	N.D.		
52) 1,2-Dibromoethane	0.000		0	N.D.		
53) Chlorobenzene	0.000		0	N.D.		
54) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
55) Ethylbenzene	10.866	91	23113	1.23	ug/L	99
56) m,p-Xylene	0.000		0	N.D.	d	
57) o-Xylene	0.000		0	N.D.	d	
58) Styrene	11.364	104	170051	14.35	ug/L	95
59) Bromoform	0.000		0	N.D.		
62) Bromobenzene	0.000		0	N.D.		
63) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
64) 1,2,3-Trichloropropane	0.000		0	N.D.	d	
65) Isopropylbenzene	11.670	105	1845	0.11	ug/L	91
66) n-Propylbenzene	0.000		0	N.D.	d	
67) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
68) 2-Chlorotoluene	0.000		0	N.D.	d	
69) 4-Chlorotoluene	0.000		0	N.D.	d	
70) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d	
71) tert-Butylbenzene	0.000		0	N.D.	d	
72) 1,2,4-Trimethylbenzene	0.000		0	N.D.		
73) sec-Butylbenzene	0.000		0	N.D.		
74) 1,3-Dichlorobenzene	0.000		0	N.D.		
75) 4-Isopropyltoluene	0.000		0	N.D.	d	
76) 1,4-Dichlorobenzene	0.000		0	N.D.		
77) 1,2-Dichlorobenzene	0.000		0	N.D.		
78) n-Butylbenzene	0.000		0	N.D.	d	
79) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	d	
80) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
81) Hexachlorobutadiene	0.000		0	N.D.		
82) Naphthalene	14.352	128	23321	2.05	ug/L	100
83) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637475.D
Acq On : 14 Dec 2021 17:40
Operator : CM
Sample : 2112G62-002A 1/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 14 18:10:35 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637476.D
Acq On : 14 Dec 2021 18:01
Operator : CM
Sample : 2112G62-003A 1/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 14 18:48:58 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	6.069	168	696938	50.00	ug/L	-0.02
28) 1,4-Difluorobenzene	7.130	114	938312	50.00	ug/L	-0.02
47) Chlorobenzene-d5	10.737	117	898501	50.00	ug/L	-0.01
61) 1,4-Dichlorobenzene-d4	12.744	152	535367	50.00	ug/L	-0.01
System Monitoring Compounds						
29) Dibromofluoromethane	5.992	113	297059	47.67	ug/L	-0.02
Spiked Amount 50.000	Range 84 - 122		Recovery = 95.34%			
43) Toluene-d8	9.104	98	1090057	49.74	ug/L	-0.02
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.48%			
60) 4-Bromofluorobenzene	11.818	95	423445	48.40	ug/L	-0.01
Spiked Amount 50.000	Range 64 - 125		Recovery = 96.80%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Acrolein	0.000		0	N.D.		
9) 1,1-Dichloroethene	0.000		0	N.D.		
10) Freon-113	0.000		0	N.D.		
11) Acetone	2.889	58	9534	22.90	ug/L	74
12) Iodomethane	0.000		0	N.D.		
13) Carbon disulfide	0.000		0	N.D.		
14) Methyl acetate	0.000		0	N.D. d		
15) Vinyl acetate	0.000		0	N.D.		
16) Methylene chloride	0.000		0	N.D.		
17) Acrylonitrile	0.000		0	N.D.		
18) Methyl tert-butyl ether	0.000		0	N.D.		
19) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) 1,1-Dichloroethane	0.000		0	N.D.		
21) 2,2-Dichloropropane	0.000		0	N.D.		
22) cis-1,2-Dichloroethene	0.000		0	N.D.		
23) 2-Butanone	0.000		0	N.D.		
24) Bromochloromethane	0.000		0	N.D.		
25) Chloroform	0.000		0	N.D.		
26) Cyclohexane	6.069	56	9927	Below Cal #		1
27) 1,1,1-Trichloroethane	0.000		0	N.D.		
30) 1,1-Dichloropropene	0.000		0	N.D. d		
31) Carbon tetrachloride	0.000		0	N.D.		
32) Benzene	0.000		0	N.D.		
33) 1,2-Dichloroethane	0.000		0	N.D.		
34) Trichloroethene	0.000		0	N.D.		
35) Methylcyclohexane	0.000		0	N.D.		
36) 1,2-Dichloropropane	0.000		0	N.D.		
37) Dibromomethane	0.000		0	N.D.		
38) 1,4-Dioxane	0.000		0	N.D.		
39) Bromodichloromethane	0.000		0	N.D.		
40) 2-Chloroethyl vinyl ether	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637476.D
Acq On : 14 Dec 2021 18:01
Operator : CM
Sample : 2112G62-003A 1/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 14 18:48:58 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration

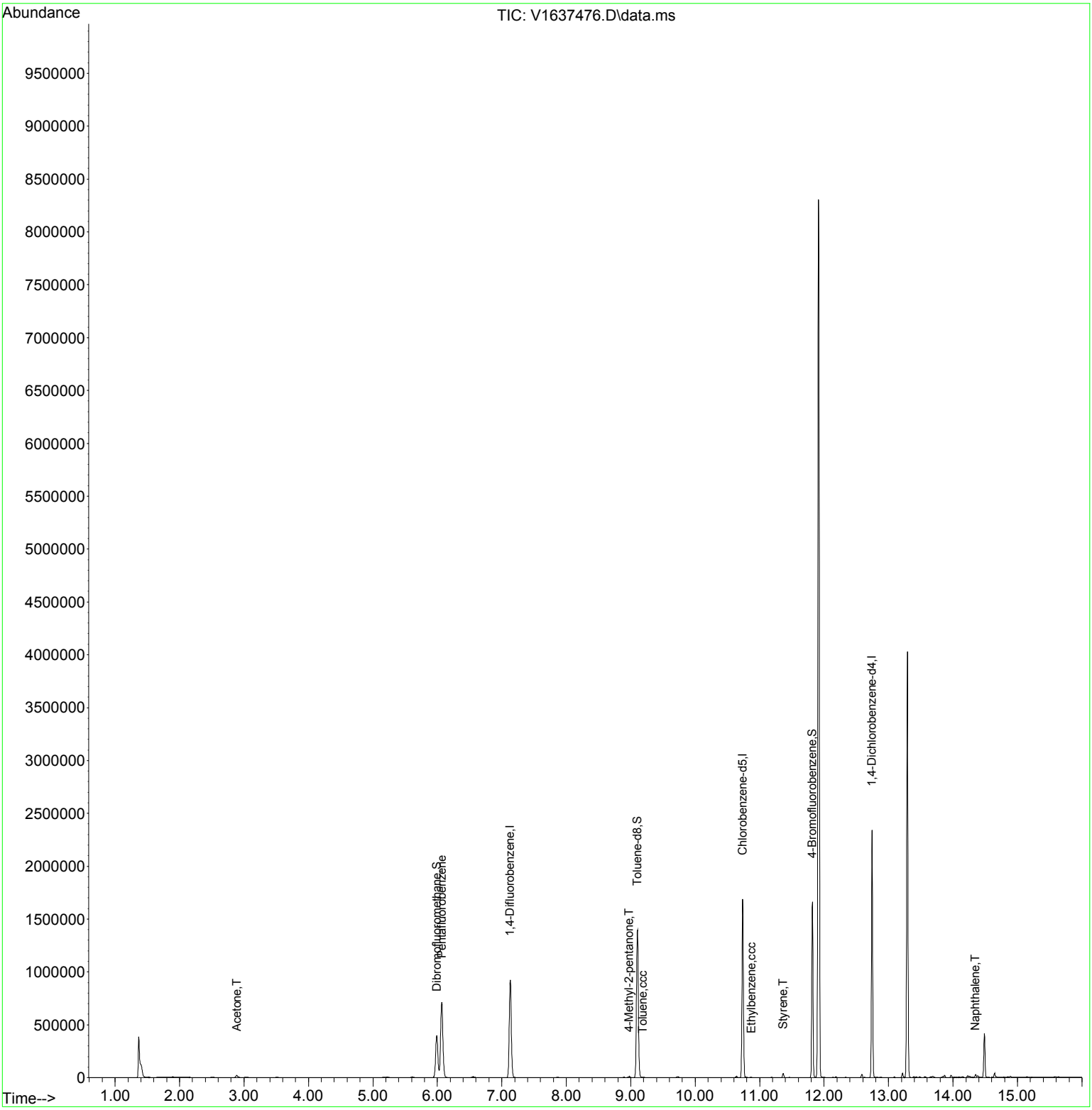
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) cis-1,3-Dichloropropene	0.000		0	N.D.	
42) 4-Methyl-2-pentanone	8.979	43	9251	2.00 ug/L	99
44) Toluene	9.188	92	1429	0.15 ug/L	82
45) trans-1,3-Dichloropropene	0.000		0	N.D.	
46) 1,1,2-Trichloroethane	0.000		0	N.D.	
48) 2-Hexanone	0.000		0	N.D.	
49) Tetrachloroethene	0.000		0	N.D.	
50) 1,3-Dichloropropane	0.000		0	N.D.	
51) Dibromochloromethane	0.000		0	N.D.	
52) 1,2-Dibromoethane	0.000		0	N.D.	
53) Chlorobenzene	0.000		0	N.D.	
54) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
55) Ethylbenzene	10.869	91	3129	0.17 ug/L	98
56) m,p-Xylene	0.000		0	N.D. d	
57) o-Xylene	0.000		0	N.D.	
58) Styrene	11.364	104	17576	1.49 ug/L	97
59) Bromoform	0.000		0	N.D. d	
62) Bromobenzene	0.000		0	N.D.	
63) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
64) 1,2,3-Trichloropropane	0.000		0	N.D. d	
65) Isopropylbenzene	0.000		0	N.D. d	
66) n-Propylbenzene	0.000		0	N.D. d	
67) trans-1,4-Dichloro-2-b...	0.000		0	N.D.	
68) 2-Chlorotoluene	0.000		0	N.D. d	
69) 4-Chlorotoluene	0.000		0	N.D. d	
70) 1,3,5-Trimethylbenzene	0.000		0	N.D. d	
71) tert-Butylbenzene	0.000		0	N.D. d	
72) 1,2,4-Trimethylbenzene	0.000		0	N.D.	
73) sec-Butylbenzene	0.000		0	N.D.	
74) 1,3-Dichlorobenzene	0.000		0	N.D.	
75) 4-Isopropyltoluene	0.000		0	N.D. d	
76) 1,4-Dichlorobenzene	0.000		0	N.D.	
77) 1,2-Dichlorobenzene	0.000		0	N.D.	
78) n-Butylbenzene	0.000		0	N.D. d	
79) 1,2-Dibromo-3-chloropr...	0.000		0	N.D. d	
80) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
81) Hexachlorobutadiene	0.000		0	N.D.	
82) Naphthalene	14.348	128	11859	1.00 ug/L	100
83) 1,2,3-Trichlorobenzene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211214\
Data File : V1637476.D
Acq On : 14 Dec 2021 18:01
Operator : CM
Sample : 2112G62-003A 1/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 21 Sample Multiplier: 1

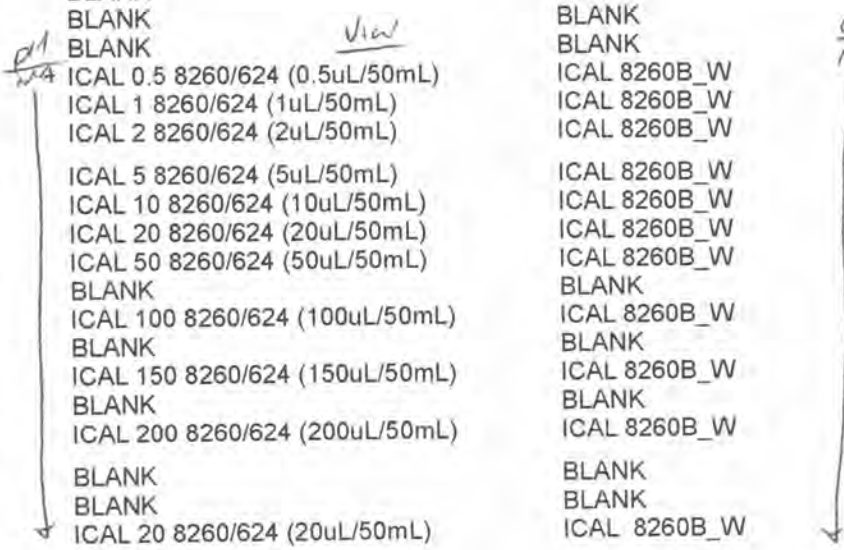
Quant Time: Dec 14 18:48:58 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Sat Dec 11 08:37:46 2021
Response via : Initial Calibration

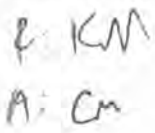


Injection Log

Directory: C:\MS-16\New\Raw Data\211108

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	51	V1636145.D	1.	BLANK	BLANK	08 Nov 2021 09:25
2	51	V1636146.D	1.	BLANK	BLANK	08 Nov 2021 09:46
3	52	V1636147.D	1.	CCV 20 8260/624 (20uL/50mL)	CCV 8260B_W	08 Nov 2021 10:07
4	53	V1636148.D	1.	BLANK	BLANK	08 Nov 2021 10:32
5	54	V1636149.D	1.			08 Nov 2021 10:53
6	55	V1636150.D	1.	BLANK	BLANK	08 Nov 2021 11:26
7	56	V1636151.D	1.	ICAL 10 8260/624 (10uL/50mL)	ICAL 8260B_W	08 Nov 2021 11:48
8	57	V1636152.D	1.	BLANK	BLANK	08 Nov 2021 12:16
9	58	V1636153.D	1.	BLANK	BLANK	08 Nov 2021 12:38
10	59	V1636154.D	1.	BLANK	BLANK	08 Nov 2021 12:59
11	60	V1636155.D	1.	BLANK	BLANK	08 Nov 2021 13:20
12	61	V1636156.D	1.	BLANK	BLANK	08 Nov 2021 13:42
13	62	V1636157.D	1.	BLANK	BLANK	08 Nov 2021 14:03
14	63	V1636158.D	1.	BLANK	BLANK	08 Nov 2021 14:24
15	64	V1636159.D	1.	BLANK	BLANK	08 Nov 2021 14:45
16	65	V1636160.D	1.	BLANK	BLANK	08 Nov 2021 15:07
17	66	V1636161.D	1.	ICAL 0.5 8260/624 (0.5uL/50mL)	ICAL 8260B_W	08 Nov 2021 15:28
18	67	V1636162.D	1.	ICAL 1 8260/624 (1uL/50mL)	ICAL 8260B_W	08 Nov 2021 15:49
19	68	V1636163.D	1.	ICAL 2 8260/624 (2uL/50mL)	ICAL 8260B_W	08 Nov 2021 16:11
20	69	V1636164.D	1.	ICAL 5 8260/624 (5uL/50mL)	ICAL 8260B_W	08 Nov 2021 16:32
21	70	V1636165.D	1.	ICAL 10 8260/624 (10uL/50mL)	ICAL 8260B_W	08 Nov 2021 16:53
22	71	V1636166.D	1.	ICAL 20 8260/624 (20uL/50mL)	ICAL 8260B_W	08 Nov 2021 17:14
23	72	V1636167.D	1.	ICAL 50 8260/624 (50uL/50mL)	ICAL 8260B_W	08 Nov 2021 17:36
24	73	V1636168.D	1.	BLANK	BLANK	08 Nov 2021 19:23
25	74	V1636169.D	1.	ICAL 100 8260/624 (100uL/50mL)	ICAL 8260B_W	08 Nov 2021 19:44
26	75	V1636170.D	1.	BLANK	BLANK	08 Nov 2021 20:05
27	76	V1636171.D	1.	ICAL 150 8260/624 (150uL/50mL)	ICAL 8260B_W	08 Nov 2021 20:27
28	77	V1636172.D	1.	BLANK	BLANK	08 Nov 2021 20:48
29	78	V1636173.D	1.	ICAL 200 8260/624 (200uL/50mL)	ICAL 8260B_W	08 Nov 2021 21:09
30	79	V1636174.D	1.	BLANK	BLANK	08 Nov 2021 21:31
31	79	V1636175.D	1.	BLANK	BLANK	08 Nov 2021 21:52
32	80	V1636176.D	1.	ICAL 20 8260/624 (20uL/50mL)	ICAL 8260B_W	08 Nov 2021 22:14



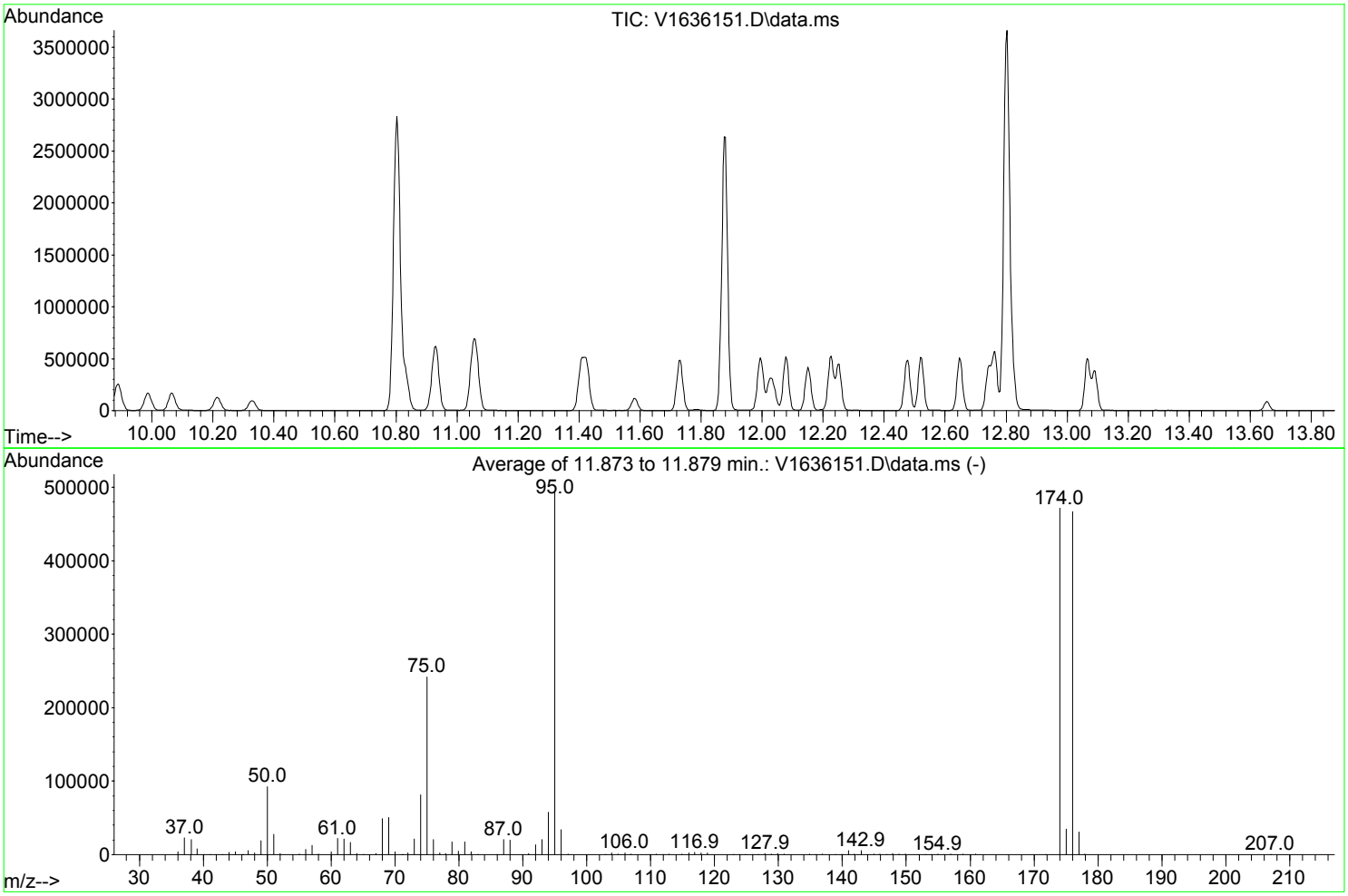


BFB

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636151.D
Acq On : 08 Nov 2021 11:48
Operator : CM
Sample : ICAL 10 8260/624 (10uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 56 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Title : 8260D/624.1 Purgeable organics calibration.
Last Update : Tue Nov 09 11:06:18 2021



AutoFind: Scans 3510, 3511, 3512; Background Corrected with Scan 3495

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.8	92483	PASS
75	95	30	60	49.1	241813	PASS
95	95	100	100	100.0	492672	PASS
96	95	5	9	6.9	33968	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	95.6	471189	PASS
175	174	5	9	7.5	35147	PASS
176	174	95	101	99.1	466923	PASS
177	176	5	9	6.6	30811	PASS

Response Factor Report MS16

Method Path : C:\MS-16\New\Calculation Methods\
Method File : MS-16_VW_LOW_110821.M
Title : 8260D/624.1 Purgeable organics calibration.
Last Update : Tue Nov 09 11:06:18 2021
Response Via : Initial Calibration

Calibration Files
0.5 =V1636161.D 1 =V1636162.D 2 =V1636163.D 5 =V1636164.D 10 =V1636151.D 20 =V1636176.D 50 =V1636167.D 100 =V16361
69.D 150 =V1636171.D
200 =V1636173.D

		Compound	0.5	1	2	5	10	20	50	100	150	200	Avg	%RSD
1)		Pentafluorobenzene	----------ISTD----------											
2)	T	Dichlorodifluo...	0.452	0.343	0.371	0.370	0.371	0.360	0.381	0.404	0.385	0.369	0.381	7.78
3)	pcc	Chloromethane	0.489	0.395	0.369	0.349	0.312	0.359	0.337	0.342	0.332	0.309	0.359	14.61
4)	ccc	Vinyl chloride	0.428	0.288	0.307	0.320	0.295	0.316	0.309	0.305	0.302	0.282	0.315	13.12
5)	T	Bromomethane	0.412	0.271	0.248	0.243	0.197	0.224	0.203				0.257	28.56
6)	T	Chloroethane		0.213	0.218	0.216	0.211	0.234	0.211	0.205	0.173	0.157	0.204	11.70
7)	T	Trichlorofluor...	0.621	0.441	0.455	0.500	0.492	0.508	0.519	0.536	0.518	0.492	0.508	9.70
8)	T	Acrolein			0.038	0.042	0.044	0.037	0.045	0.041	0.042	0.043	0.041	6.93
9)	ccc	1,1-Dichloroet...	0.216	0.253	0.245	0.254	0.245	0.279	0.260	0.273	0.276	0.271	0.257	7.45
10)		Freon-113		0.247	0.246	0.266	0.255	0.262	0.270	0.273	0.275	0.270	0.263	4.15
11)	T	Acetone			0.028	0.027	0.031	0.027	0.034	0.031	0.030	0.031	0.030	8.29
12)	T	Iodomethane	0.486	0.509	0.511	0.539	0.499	0.637	0.547	0.547	0.548	0.544	0.537	7.80
13)	T	Carbon disulfide		0.631	0.631	0.682	0.621	0.773	0.718	0.749	0.752	0.752	0.701	8.67
14)		Methyl acetate	0.368	0.318	0.288	0.258	0.251	0.243	0.282	0.264	0.256	0.259	0.279	13.74
15)	T	Vinyl acetate	0.587	0.608	0.606	0.634	0.628	0.665	0.705	0.688	0.678	0.671	0.647	6.15
16)	T	Methylene chlo...		0.389	0.345	0.323	0.306	0.354	0.317	0.309	0.308	0.307	0.329	8.70
17)	T	Acrylonitrile			0.098	0.108	0.115	0.102	0.126	0.111	0.113	0.114	0.111	7.73
18)		Methyl tert-bu...	0.766	0.733	0.751	0.778	0.765	0.842	0.833	0.795	0.773	0.810	0.784	4.47
19)	T	trans-1,2-Dich...	0.261	0.279	0.269	0.290	0.273	0.335	0.298	0.301	0.300	0.295	0.290	7.28
20)	pcc	1,1-Dichloroet...	0.506	0.496	0.502	0.527	0.495	0.614	0.533	0.533	0.529	0.518	0.525	6.60
21)	T	2,2-Dichloropr...	0.315	0.308	0.300	0.347	0.301	0.297	0.321	0.275	0.259	0.252	0.297	9.77
22)	T	cis-1,2-Dichlo...	0.292	0.307	0.300	0.323	0.300	0.378	0.331	0.329	0.326	0.323	0.321	7.58
23)		2-Butanone		0.034	0.033	0.039	0.041	0.039	0.048	0.045	0.044	0.045	0.041	12.80
24)	T	Bromochloromet...	0.155	0.159	0.154	0.165	0.159	0.186	0.175	0.172	0.169	0.170	0.166	6.11
25)	ccc	Chloroform	0.481	0.499	0.501	0.543	0.510	0.630	0.555	0.552	0.544	0.538	0.535	7.84
26)		Cyclohexane	1.930	1.153	0.790	0.597	0.498	0.481	0.442	0.469	0.431	0.439	0.723	66.50
27)	T	1,1,1-Trichlor...	0.399	0.422	0.442	0.478	0.450	0.520	0.475	0.479	0.458	0.473	0.460	7.35
28)	I	1,4-Difluorobenzene	----------ISTD----------											
29)	S	Dibromofluorom...	0.330	0.329	0.330	0.333	0.333	0.331	0.335	0.335	0.332	0.333	0.332	0.60
30)	T	1,1-Dichloropr...	0.090	0.093	0.104	0.106	0.101	0.121	0.109	0.115	0.113	0.112	0.106	9.25
31)	T	Carbon tetrach...	0.239	0.250	0.263	0.286	0.280	0.329	0.293	0.315	0.295	0.302	0.285	9.84
32)	M	Benzene	0.768	0.785	0.752	0.805	0.758	0.967	0.810	0.824	0.819	0.812	0.810	7.52
33)	T	1,2-Dichloroet...	0.263	0.278	0.265	0.281	0.271	0.318	0.288	0.286	0.283	0.283	0.282	5.54
34)	M	Trichloroethene	0.193	0.208	0.210	0.224	0.215	0.269	0.232	0.237	0.237	0.234	0.226	9.31
35)		Methylcyclohexane	0.196	0.202	0.219	0.244	0.238	0.262	0.238	0.264	0.224	0.251	0.234	10.07
36)	ccc	1,2-Dichloropr...	0.191	0.199	0.199	0.208	0.198	0.249	0.217	0.217	0.217	0.220	0.212	7.91

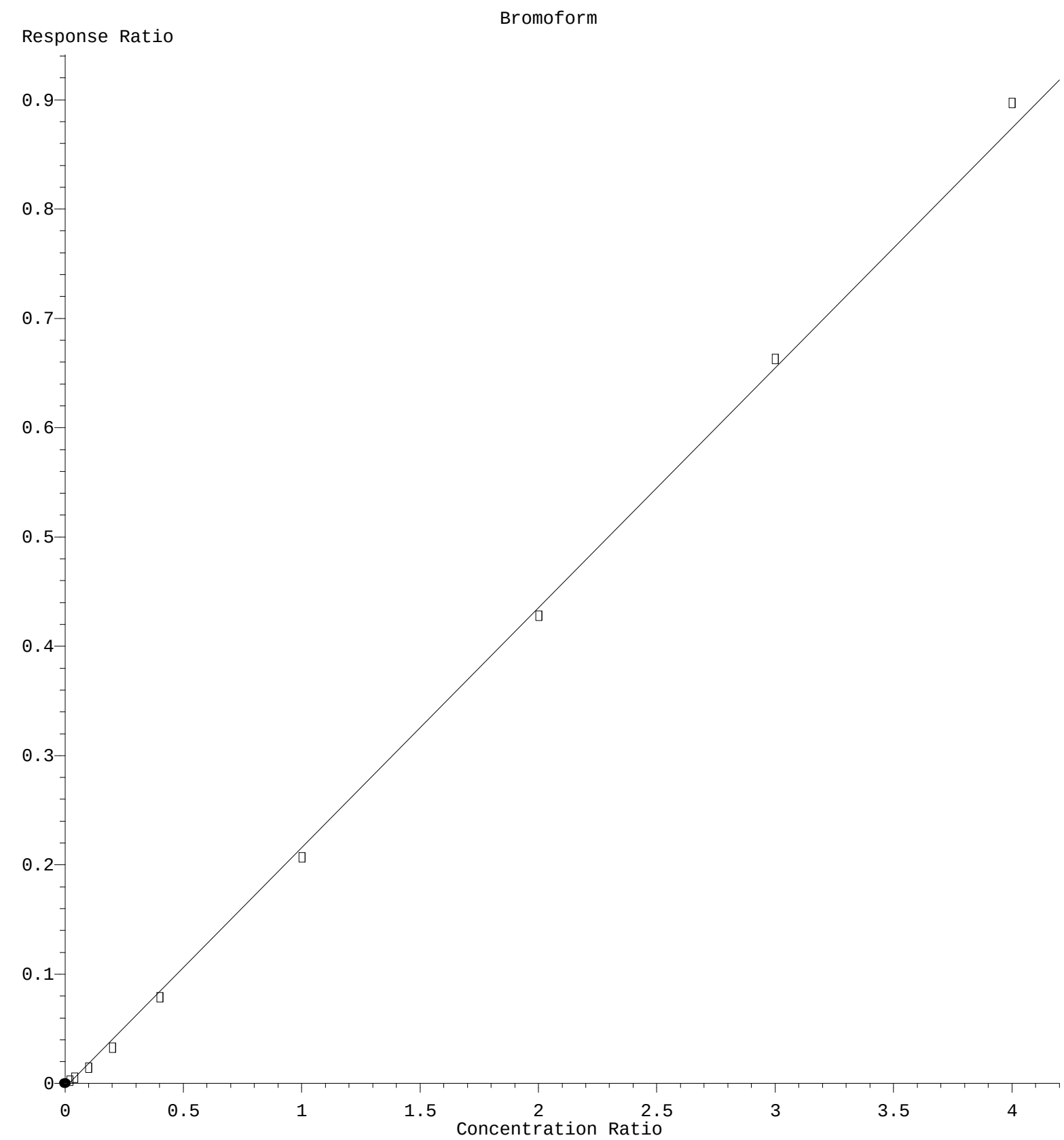
Method Path : C:\MS-16\New\Calculation Methods\
Method File : MS-16_VW_LOW_110821.M
Title : 8260D/624.1 Purgeable organics calibration.

37)	T	Dibromomethane	0.133	0.128	0.131	0.132	0.132	0.154	0.144	0.143	0.144	0.147	0.139	6.29
38)		1,4-Dioxane					0.001	0.001	0.002	0.002	0.002		0.002	16.88
39)	T	Bromodichlorom...	0.242	0.242	0.242	0.264	0.267	0.330	0.297	0.299	0.301	0.304	0.279	11.24
40)	T	2-Chloroethyl ...		0.135	0.132	0.137	0.141	0.160	0.157	0.159	0.162	0.162	0.149	8.59
41)	T	cis-1,3-Dichlo...	0.278	0.291	0.297	0.314	0.320	0.394	0.360	0.362	0.369	0.372	0.336	12.06
42)	T	4-Methyl-2-pen...	0.245	0.235	0.232	0.236	0.239	0.248	0.268	0.255	0.252	0.259	0.247	4.74
43)	S	Toluene-d8	1.156	1.162	1.172	1.172	1.171	1.167	1.170	1.163	1.163	1.182	1.168	0.62
44)	ccc	Toluene	0.463	0.473	0.476	0.503	0.478	0.608	0.518	0.525	0.531	0.536	0.511	8.46
45)	T	trans-1,3-Dich...	0.241	0.246	0.255	0.273	0.285	0.340	0.323	0.328	0.334	0.339	0.296	13.71
46)	T	1,1,2-Trichlor...	0.141	0.147	0.144	0.148	0.152	0.176	0.165	0.166	0.169	0.171	0.158	8.15
47)	I	Chlorobenzene-d5	----------ISTD----------											
48)	T	2-Hexanone	0.189	0.181	0.179	0.191	0.200	0.201	0.220	0.213	0.210	0.205	0.199	6.89
49)	T	Tetrachloroethene	0.245	0.275	0.267	0.287	0.278	0.331	0.293	0.305	0.302	0.298	0.288	8.21
50)	T	1,3-Dichloropr...	0.304	0.310	0.313	0.322	0.322	0.375	0.346	0.347	0.349	0.348	0.334	6.78
51)	T	Dibromochlorom...	0.184	0.189	0.191	0.209	0.219	0.272	0.255	0.261	0.267	0.268	0.231	15.79
52)	T	1,2-Dibromoethane	0.194	0.200	0.195	0.205	0.207	0.241	0.232	0.233	0.236	0.236	0.218	8.86
53)	pcc	Chlorobenzene	0.564	0.588	0.594	0.616	0.594	0.754	0.641	0.647	0.651	0.645	0.630	8.43
54)	T	1,1,1,2-Tetrac...	0.193	0.184	0.201	0.213	0.215	0.273	0.240	0.226	0.231	0.246	0.222	12.05
55)	ccc	Ethylbenzene	0.923	0.942	0.967	1.026	0.981	1.240	1.068	1.083	1.090	1.074	1.039	8.98
56)	T	m,p-Xylene	0.721	0.737	0.744	0.794	0.772	0.970	0.847	0.850	0.846	0.825	0.811	9.16
57)	T	o-Xylene	0.720	0.731	0.742	0.790	0.769	0.980	0.847	0.832	0.848	0.863	0.812	9.70
58)	T	Styrene	0.524	0.554	0.573	0.605	0.621	0.803	0.705	0.722	0.733	0.725	0.656	14.12
59)	pcc	Bromoform		0.127	0.128	0.143	0.164	0.196	0.207	0.214	0.221	0.224	0.180	22.23#
60)	S	4-Bromofluorob...	0.483	0.485	0.481	0.478	0.486	0.484	0.492	0.493	0.494	0.491	0.487	1.10
61)	I	1,4-Dichlorobenzen...	----------ISTD----------											
62)	T	Bromobenzene	0.462	0.466	0.467	0.499	0.474	0.601	0.520	0.522	0.522	0.526	0.506	8.39
63)	pcc	1,1,2,2-Tetrac...	0.442	0.440	0.459	0.483	0.474	0.522	0.531	0.513	0.516	0.529	0.491	7.25
64)	T	1,2,3-Trichlor...	0.910	0.789	0.754	0.813	0.773	0.878	0.922	0.898	0.889	0.894	0.852	7.38
65)	T	Isopropylbenzene	1.470	1.535	1.635	1.805	1.667	2.051	1.767	1.667	1.679	1.741	1.702	9.34
66)	T	n-Propylbenzene	1.749	1.812	1.915	2.082	1.980	2.408	2.089	2.051	2.037	2.043	2.017	8.90
67)	T	trans-1,4-Dich...				0.030	0.030	0.037	0.044	0.043	0.043	0.043	0.039	16.19
68)	T	2-Chlorotoluene	1.126	1.130	1.162	1.233	1.147	1.465	1.232	1.198	1.205	1.232	1.213	8.07
69)	T	4-Chlorotoluene	1.271	1.350	1.362	1.435	1.368	1.739	1.473	1.464	1.464	1.477	1.440	8.69
70)	T	1,3,5-Trimethy...	1.209	1.248	1.290	1.404	1.360	1.706	1.469	1.393	1.420	1.479	1.398	10.06
71)	T	tert-Butylbenzene	1.035	1.098	1.151	1.260	1.205	1.473	1.266	1.225	1.218	1.285	1.222	9.69
72)	T	1,2,4-Trimethy...	1.221	1.282	1.310	1.390	1.366	1.742	1.502	1.458	1.467	1.507	1.424	10.37
73)	T	sec-Butylbenzene	1.385	1.475	1.567	1.727	1.701	2.060	1.795	1.748	1.747	1.821	1.703	11.18
74)	T	1,3-Dichlorobe...	0.768	0.800	0.800	0.842	0.838	1.051	0.910	0.917	0.929	0.927	0.878	9.67
75)	T	4-Isopropyltol...	1.252	1.298	1.352	1.485	1.507	1.837	1.610	1.592	1.592	1.644	1.517	11.74
76)	T	1,4-Dichlorobe...	0.834	0.869	0.833	0.870	0.867	1.090	0.932	0.940	0.942	0.949	0.912	8.41
77)	T	1,2-Dichlorobe...	0.684	0.740	0.726	0.746	0.776	0.951	0.838	0.843	0.848	0.867	0.802	10.10
78)	T	n-Butylbenzene	0.960	1.071	1.102	1.198	1.285	1.529	1.380	1.412	1.408	1.442	1.279	14.66
79)	T	1,2-Dibromo-3-...		0.083	0.090	0.084	0.096	0.098	0.116	0.112	0.113	0.116	0.101	13.47
80)	T	1,2,4-Trichlor...	0.359	0.433	0.346	0.312	0.443	0.507	0.490	0.551			0.430	19.71
81)	T	Hexachlorobuta...	0.156	0.189	0.155	0.160	0.203	0.224	0.215	0.245	0.254	0.244	0.205	18.61
82)	T	Naphthalene		1.109	0.913	0.793	1.125	1.139	1.307	1.396			1.112	18.77

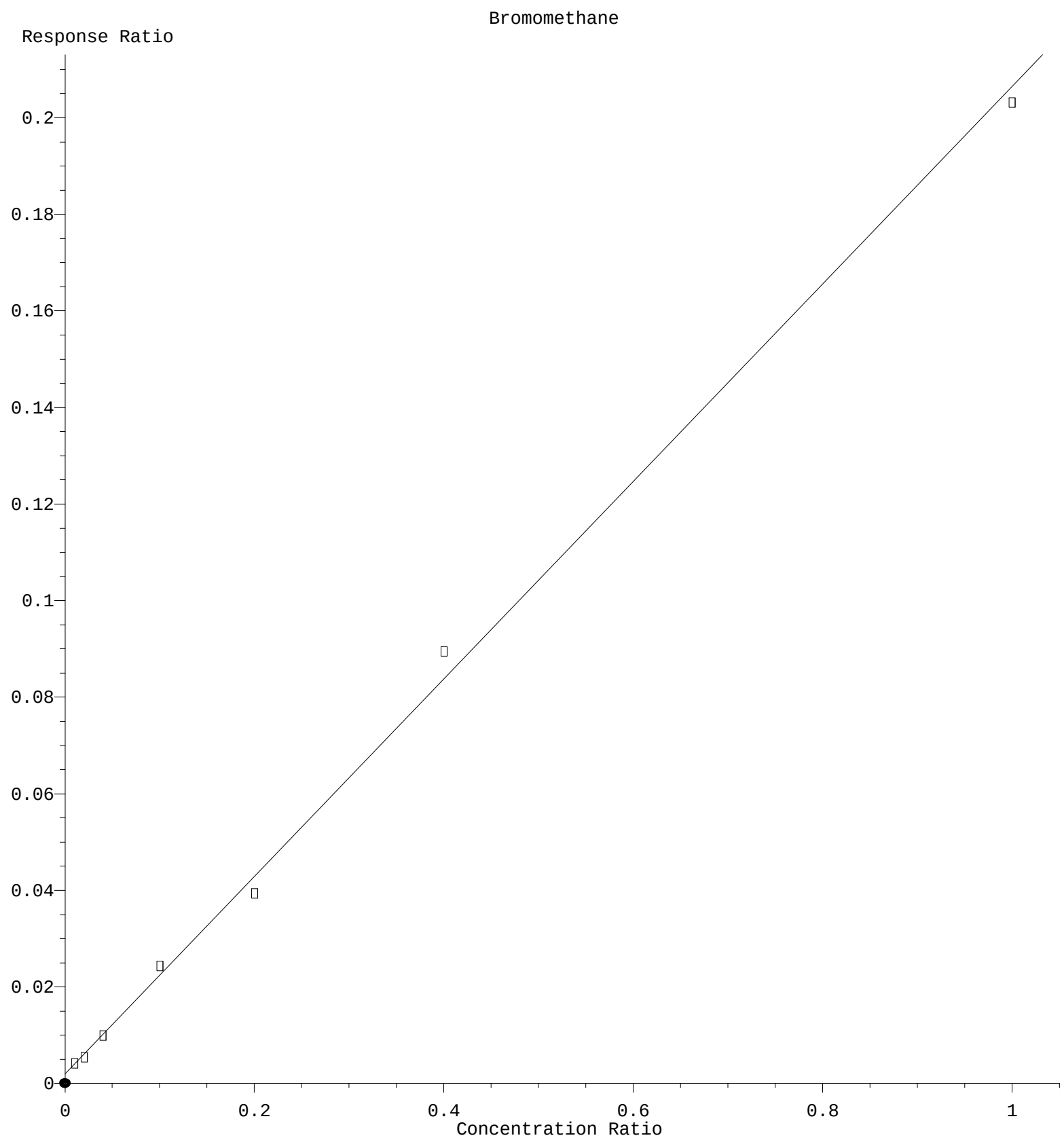
Method Path : C:\MS-16\New\Calculation Methods\
Method File : MS-16_VW_LOW_110821.M
Title : 8260D/624.1 Purgeable organics calibration.

83) T	1,2,3-Trichlor...	0.290	0.386	0.290	0.252	0.375	0.408	0.421		0.346	19.35

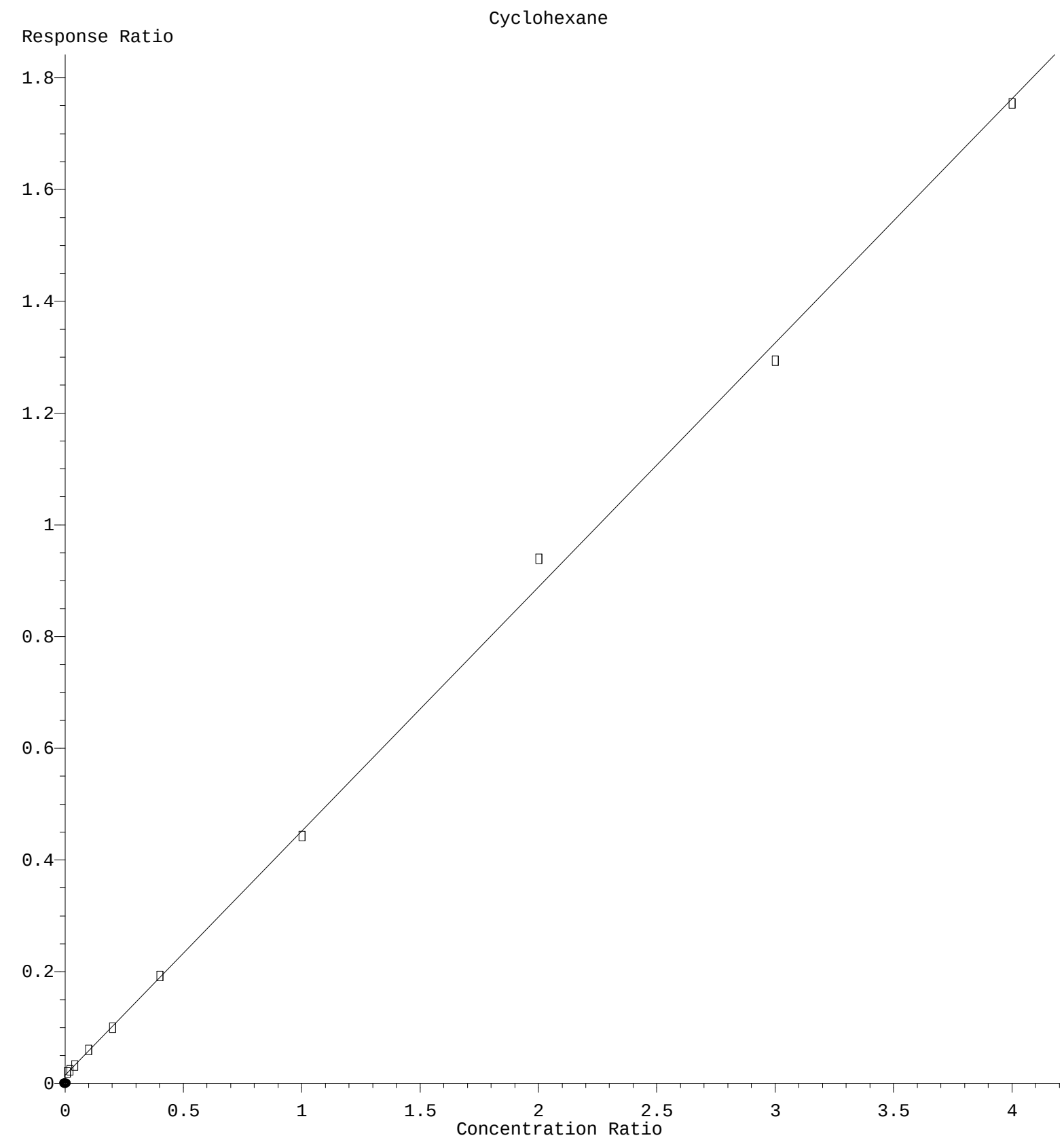
(#) = Out of Range



Response = 2.194e-001 * Amt - 3.706e-003
Coef of Det (r^2) = 0.998030 Curve Fit: wlr(1/a)
Method Name: C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Calibration Table Last Updated: Tue Nov 09 10:54:28 2021



Response = 2.048e-001 * Amt + 1.880e-003
Coef of Det (r^2) = 0.996710 Curve Fit: wlr(1/a)
Method Name: C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Calibration Table Last Updated: Tue Nov 09 10:54:28 2021



Response = 4.371e-001 * Amt + 1.470e-002
Coef of Det (r^2) = 0.999086 Curve Fit: wlr(1/a)
Method Name: C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Calibration Table Last Updated: Tue Nov 09 10:54:28 2021

Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636151.D
Acq On : 08 Nov 2021 11:48
Operator : CM
Sample : ICAL 10 8260/624 (10uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Nov 09 10:50:54 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	10.000	9.751	2.5	100	0.00
3	pcc	Chloromethane	10.000	8.681	13.2	100	0.00
4	ccc	Vinyl chloride	10.000	9.361	6.4	100	0.00
5	T	Bromomethane	10.000	9.147	8.5	100	0.00
6	T	Chloroethane	10.000	10.315	-3.1	100	0.00
7	T	Trichlorofluoromethane	10.000	9.678	3.2	100	0.00
8	T	Acrolein	10.000	10.689	-6.9	100	0.00
9	ccc	1,1-Dichloroethene	10.000	9.516	4.8	100	0.00
10		Freon-113	10.000	9.711	2.9	100	0.00
11	T	Acetone	20.000	20.757	-3.8	100	0.00
12	T	Iodomethane	20.000	18.624	6.9	100	0.02
13	T	Carbon disulfide	20.000	17.730	11.3	100	0.00
14		Methyl acetate	10.000	9.002	10.0	100	0.00
15	T	Vinyl acetate	20.000	19.415	2.9	100	0.00
16	T	Methylene chloride	10.000	9.301	7.0	100	0.00
17	T	Acrylonitrile	10.000	10.389	-3.9	100	0.00
18		Methyl tert-butyl ether	10.000	9.750	2.5	100	0.00
19	T	trans-1,2-Dichloroethene	10.000	9.411	5.9	100	0.00
20	pcc	1,1-Dichloroethane	10.000	9.432	5.7	100	0.00
21	T	2,2-Dichloropropane	10.000	10.129	-1.3	100	0.00
22	T	cis-1,2-Dichloroethene	10.000	9.339	6.6	100	0.00
23		2-Butanone	20.000	19.952	0.2	100	0.00
24	T	Bromochloromethane	10.000	9.539	4.6	100	0.00
25	ccc	Chloroform	10.000	9.525	4.7	100	0.00
26		Cyclohexane	10.000	9.723	2.8	100	0.00
27	T	1,1,1-Trichloroethane	10.000	9.789	2.1	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	50.077	-0.2	100	0.00
30	T	1,1-Dichloropropene	10.000	9.469	5.3	100	0.00
31	T	Carbon tetrachloride	10.000	9.801	2.0	100	0.00
32	M	Benzene	10.000	9.363	6.4	100	0.00
33	T	1,2-Dichloroethane	10.000	9.618	3.8	100	0.00
34	M	Trichloroethene	10.000	9.530	4.7	100	0.00
35		Methylcyclohexane	10.000	10.176	-1.8	100	0.00
36	ccc	1,2-Dichloropropane	10.000	9.378	6.2	100	0.00
37	T	Dibromomethane	10.000	9.477	5.2	100	0.00
38		1,4-Dioxane	100.000	91.670	8.3	100	0.00
39	T	Bromodichloromethane	10.000	9.560	4.4	100	0.00
40	T	2-Chloroethyl vinyl ether	20.000	18.926	5.4	100	0.00
41	T	cis-1,3-Dichloropropene	10.000	9.518	4.8	100	0.00
42	T	4-Methyl-2-pentanone	20.000	19.385	3.1	100	0.00
43	S	Toluene-d8	50.000	50.159	-0.3	100	0.00
44	ccc	Toluene	10.000	9.351	6.5	100	0.00
45	T	trans-1,3-Dichloropropene	10.000	9.618	3.8	100	0.00
46	T	1,1,2-Trichloroethane	10.000	9.616	3.8	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636151.D
Acq On : 08 Nov 2021 11:48
Operator : CM
Sample : ICAL 10 8260/624 (10uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Nov 09 10:50:54 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	20.000	20.070	-0.4	100	0.00
49	T	Tetrachloroethene	10.000	9.650	3.5	100	0.00
50	T	1,3-Dichloropropane	10.000	9.643	3.6	100	0.00
51	T	Dibromochloromethane	10.000	9.441	5.6	100	0.00
52	T	1,2-Dibromoethane	10.000	9.511	4.9	100	0.00
53	pcc	Chlorobenzene	10.000	9.439	5.6#	100	0.00
54	T	1,1,1,2-Tetrachloroethane	10.000	9.674	3.3	100	0.00
55	ccc	Ethylbenzene	10.000	9.438	5.6	100	0.00
56	T	m,p-Xylene	20.000	19.046	4.8	100	0.00
57	T	o-Xylene	10.000	9.472	5.3	100	0.00
58	T	Styrene	10.000	9.465	5.4	100	0.00
59	pcc	Bromoform	10.000	8.301	17.0#	100	0.00
60	S	4-Bromofluorobenzene	50.000	49.944	0.1	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	10.000	9.369	6.3	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	10.000	9.656	3.4	100	0.00
64	T	1,2,3-Trichloropropane	10.000	9.069	9.3	100	0.00
65	T	Isopropylbenzene	10.000	9.797	2.0	100	0.00
66	T	n-Propylbenzene	10.000	9.820	1.8	100	0.00
67	T	trans-1,4-Dichloro-2-butene	20.000	15.637	21.8#	100	0.00
68	T	2-Chlorotoluene	10.000	9.454	5.5	100	0.00
69	T	4-Chlorotoluene	10.000	9.500	5.0	100	0.00
70	T	1,3,5-Trimethylbenzene	10.000	9.733	2.7	100	0.00
71	T	tert-Butylbenzene	10.000	9.866	1.3	100	0.00
72	T	1,2,4-Trimethylbenzene	10.000	9.589	4.1	100	0.00
73	T	sec-Butylbenzene	10.000	9.990	0.1	100	0.00
74	T	1,3-Dichlorobenzene	10.000	9.546	4.5	100	0.00
75	T	4-Isopropyltoluene	10.000	9.936	0.6	100	0.00
76	T	1,4-Dichlorobenzene	10.000	9.500	5.0	100	0.00
77	T	1,2-Dichlorobenzene	10.000	9.678	3.2	100	0.00
78	T	n-Butylbenzene	10.000	10.051	-0.5	100	0.00
79	T	1,2-Dibromo-3-chloropropane	10.000	9.557	4.4	100	0.00
80	T	1,2,4-Trichlorobenzene	10.000	10.293	-2.9	100	0.00
81	T	Hexachlorobutadiene	10.000	9.916	0.8	100	0.00
82	T	Naphthalene	10.000	10.117	-1.2	100	0.00
83	T	1,2,3-Trichlorobenzene	10.000	10.827	-8.3	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 2

Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636161.D
Acq On : 08 Nov 2021 15:28
Operator : CM
Sample : ICAL 0.5 8260/624 (0.5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Nov 09 10:46:45 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	0.500	0.593	-18.6	100	0.00
3	pcc	Chloromethane	0.500	0.681	-36.2#	100	0.00
4	ccc	Vinyl chloride	0.500	0.679	-35.8#	100	0.00
5	T	Bromomethane	0.500	0.548	-9.6	100	0.00
6	T	Chloroethane	-1.000	0.694	0.0	100	0.00
7	T	Trichlorofluoromethane	0.500	0.611	-22.2#	100	0.00
8	T	Acrolein	-1.000	0.601	0.0	100	-0.01
9	ccc	1,1-Dichloroethene	0.500	0.420	16.0	100	0.00
10		Freon-113	-1.000	0.398	0.0	100	-0.01
11	T	Acetone	-1.000	1.569	0.0	100	0.00
12	T	Iodomethane	1.000	0.906	9.4	100	0.00
13	T	Carbon disulfide	-1.000	0.872	0.0	100	0.00
14		Methyl acetate	0.500	0.660	-32.0#	100	-0.01
15	T	Vinyl acetate	1.000	0.907	9.3	100	0.00
16	T	Methylene chloride	-1.000	0.763	0.0	100	0.00
17	T	Acrylonitrile	-1.000	0.472	0.0	100	0.00
18		Methyl tert-butyl ether	0.500	0.488	2.4	100	0.00
19	T	trans-1,2-Dichloroethene	0.500	0.449	10.2	100	0.00
20	pcc	1,1-Dichloroethane	0.500	0.481	3.8	100	0.00
21	T	2,2-Dichloropropane	0.500	0.529	-5.8	100	-0.01
22	T	cis-1,2-Dichloroethene	0.500	0.455	9.0	100	0.00
23		2-Butanone	-1.000	0.000	0.0	0	-5.34#
24	T	Bromochloromethane	0.500	0.466	6.8	100	0.00
25	ccc	Chloroform	0.500	0.449	10.2	100	0.00
26		Cyclohexane	0.500	0.527	-5.4	100	-0.02
27	T	1,1,1-Trichloroethane	0.500	0.434	13.2	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	49.708	0.6	100	0.00
30	T	1,1-Dichloropropene	0.500	0.422	15.6	100	0.00
31	T	Carbon tetrachloride	0.500	0.420	16.0	100	0.00
32	M	Benzene	0.500	0.474	5.2	100	0.00
33	T	1,2-Dichloroethane	0.500	0.467	6.6	100	0.00
34	M	Trichloroethene	0.500	0.428	14.4	100	0.00
35		Methylcyclohexane	0.500	0.419	16.2	100	0.00
36	ccc	1,2-Dichloropropane	0.500	0.452	9.6	100	0.00
37	T	Dibromomethane	0.500	0.478	4.4	100	0.00
38		1,4-Dioxane	-1.000	0.000	0.0	0	-8.00#
39	T	Bromodichloromethane	0.500	0.434	13.2	100	0.00
40	T	2-Chloroethyl vinyl ether	-1.000	0.874	0.0	100	0.00
41	T	cis-1,3-Dichloropropene	0.500	0.414	17.2	100	0.00
42	T	4-Methyl-2-pentanone	1.000	0.991	0.9	100	0.00
43	S	Toluene-d8	50.000	49.486	1.0	100	0.00
44	ccc	Toluene	0.500	0.453	9.4	100	0.00
45	T	trans-1,3-Dichloropropene	0.500	0.406	18.8	100	0.00
46	T	1,1,2-Trichloroethane	0.500	0.446	10.8	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636161.D
Acq On : 08 Nov 2021 15:28
Operator : CM
Sample : ICAL 0.5 8260/624 (0.5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Nov 09 10:46:45 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	1.000	0.949	5.1	100	0.00
49	T	Tetrachloroethene	0.500	0.425	15.0	100	0.00
50	T	1,3-Dichloropropane	0.500	0.455	9.0	100	0.00
51	T	Dibromochloromethane	0.500	0.397	20.6#	100	0.00
52	T	1,2-Dibromoethane	0.500	0.444	11.2	100	0.00
53	pcc	Chlorobenzene	0.500	0.448	10.4#	100	0.00
54	T	1,1,1,2-Tetrachloroethane	0.500	0.434	13.2	100	0.00
55	ccc	Ethylbenzene	0.500	0.444	11.2	100	0.00
56	T	m,p-Xylene	1.000	0.890	11.0	100	0.00
57	T	o-Xylene	0.500	0.443	11.4	100	0.00
58	T	Styrene	0.500	0.399	20.2#	100	0.00
59	pcc	Bromoform	-1.000	1.133	0.0	100	0.00
60	S	4-Bromofluorobenzene	50.000	49.604	0.8	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	0.500	0.457	8.6	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	0.500	0.451	9.8	100	0.00
64	T	1,2,3-Trichloropropane	0.500	0.534	-6.8	100	0.00
65	T	Isopropylbenzene	0.500	0.432	13.6	100	0.00
66	T	n-Propylbenzene	0.500	0.434	13.2	100	0.00
67	T	trans-1,4-Dichloro-2-butene	-1.000	0.593	0.0	100	0.00
68	T	2-Chlorotoluene	0.500	0.464	7.2	100	0.00
69	T	4-Chlorotoluene	0.500	0.441	11.8	100	0.00
70	T	1,3,5-Trimethylbenzene	0.500	0.433	13.4	100	0.00
71	T	tert-Butylbenzene	0.500	0.424	15.2	100	0.00
72	T	1,2,4-Trimethylbenzene	0.500	0.428	14.4	100	0.00
73	T	sec-Butylbenzene	0.500	0.407	18.6	100	0.00
74	T	1,3-Dichlorobenzene	0.500	0.437	12.6	100	0.00
75	T	4-Isopropyltoluene	0.500	0.413	17.4	100	0.00
76	T	1,4-Dichlorobenzene	0.500	0.457	8.6	100	0.00
77	T	1,2-Dichlorobenzene	0.500	0.426	14.8	100	0.00
78	T	n-Butylbenzene	0.500	0.375	25.0#	100	0.00
79	T	1,2-Dibromo-3-chloropropane	-1.000	0.411	0.0	100	0.00
80	T	1,2,4-Trichlorobenzene	0.500	0.418	16.4	100	0.00
81	T	Hexachlorobutadiene	0.500	0.382	23.6#	100	0.00
82	T	Naphthalene	-1.000	0.397	0.0	100	0.00
83	T	1,2,3-Trichlorobenzene	0.500	0.419	16.2	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 3

Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636162.D
Acq On : 08 Nov 2021 15:49
Operator : CM
Sample : ICAL 1 8260/624 (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 67 Sample Multiplier: 1

Quant Time: Nov 09 10:49:14 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	1.000	0.901	9.9	100	0.00
3	pcc	Chloromethane	1.000	1.099	-9.9	100	0.00
4	ccc	Vinyl chloride	1.000	0.915	8.5	100	0.00
5	T	Bromomethane	1.000	0.863	13.7	100	0.00
6	T	Chloroethane	1.000	1.043	-4.3	100	0.00
7	T	Trichlorofluoromethane	1.000	0.867	13.3	100	0.00
8	T	Acrolein	-1.000	1.084	0.0	100	0.00
9	ccc	1,1-Dichloroethene	1.000	0.983	1.7	100	0.00
10		Freon-113	1.000	0.941	5.9	100	0.00
11	T	Acetone	-1.000	2.661	0.0	100	0.00
12	T	Iodomethane	2.000	1.899	5.0	100	0.00
13	T	Carbon disulfide	2.000	1.799	10.1	100	0.00
14		Methyl acetate	1.000	1.142	-14.2	100	0.00
15	T	Vinyl acetate	2.000	1.879	6.0	100	0.00
16	T	Methylene chloride	1.000	1.183	-18.3	100	0.00
17	T	Acrylonitrile	-1.000	0.905	0.0	100	0.00
18		Methyl tert-butyl ether	1.000	0.935	6.5	100	-0.01
19	T	trans-1,2-Dichloroethene	1.000	0.962	3.8	100	0.00
20	pcc	1,1-Dichloroethane	1.000	0.944	5.6	100	0.00
21	T	2,2-Dichloropropane	1.000	1.034	-3.4	100	0.00
22	T	cis-1,2-Dichloroethene	1.000	0.958	4.2	100	0.00
23		2-Butanone	2.000	1.653	17.3	100	0.00
24	T	Bromochloromethane	1.000	0.956	4.4	100	0.00
25	ccc	Chloroform	1.000	0.933	6.7	100	0.00
26		Cyclohexane	1.000	0.957	4.3	100	-0.01
27	T	1,1,1-Trichloroethane	1.000	0.918	8.2	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	49.568	0.9	100	0.00
30	T	1,1-Dichloropropene	1.000	0.873	12.7	100	0.00
31	T	Carbon tetrachloride	1.000	0.878	12.2	100	0.00
32	M	Benzene	1.000	0.969	3.1	100	0.00
33	T	1,2-Dichloroethane	1.000	0.987	1.3	100	0.00
34	M	Trichloroethene	1.000	0.919	8.1	100	0.00
35		Methylcyclohexane	1.000	0.863	13.7	100	0.00
36	ccc	1,2-Dichloropropane	1.000	0.939	6.1	100	0.00
37	T	Dibromomethane	1.000	0.923	7.7	100	0.00
38		1,4-Dioxane	-1.000	0.000	0.0	0	-8.00#
39	T	Bromodichloromethane	1.000	0.870	13.0	100	0.00
40	T	2-Chloroethyl vinyl ether	2.000	1.804	9.8	100	0.00
41	T	cis-1,3-Dichloropropene	1.000	0.867	13.3	100	0.00
42	T	4-Methyl-2-pentanone	2.000	1.907	4.6	100	0.00
43	S	Toluene-d8	50.000	49.745	0.5	100	0.00
44	ccc	Toluene	1.000	0.926	7.4	100	0.00
45	T	trans-1,3-Dichloropropene	1.000	0.832	16.8	100	0.00
46	T	1,1,2-Trichloroethane	1.000	0.930	7.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636162.D
Acq On : 08 Nov 2021 15:49
Operator : CM
Sample : ICAL 1 8260/624 (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 67 Sample Multiplier: 1

Quant Time: Nov 09 10:49:14 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	2.000	1.823	8.9	100	0.00
49	T	Tetrachloroethene	1.000	0.953	4.7	100	0.00
50	T	1,3-Dichloropropane	1.000	0.930	7.0	100	0.00
51	T	Dibromochloromethane	1.000	0.818	18.2	100	0.00
52	T	1,2-Dibromoethane	1.000	0.917	8.3	100	0.00
53	pcc	Chlorobenzene	1.000	0.934	6.6#	100	0.00
54	T	1,1,1,2-Tetrachloroethane	1.000	0.829	17.1	100	0.00
55	ccc	Ethylbenzene	1.000	0.906	9.4	100	0.00
56	T	m,p-Xylene	2.000	1.817	9.2	100	0.00
57	T	o-Xylene	1.000	0.899	10.1	100	0.00
58	T	Styrene	1.000	0.844	15.6	100	0.00
59	pcc	Bromoform	1.000	1.423	-42.3#	100	0.00
60	S	4-Bromofluorobenzene	50.000	49.827	0.3	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	1.000	0.921	7.9	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	1.000	0.897	10.3	100	0.00
64	T	1,2,3-Trichloropropane	1.000	0.926	7.4	100	0.00
65	T	Isopropylbenzene	1.000	0.902	9.8	100	0.00
66	T	n-Propylbenzene	1.000	0.898	10.2	100	0.00
67	T	trans-1,4-Dichloro-2-butene	-1.000	1.001	0.0	100	0.00
68	T	2-Chlorotoluene	1.000	0.932	6.8	100	0.00
69	T	4-Chlorotoluene	1.000	0.937	6.3	100	0.00
70	T	1,3,5-Trimethylbenzene	1.000	0.893	10.7	100	0.00
71	T	tert-Butylbenzene	1.000	0.899	10.1	100	0.00
72	T	1,2,4-Trimethylbenzene	1.000	0.900	10.0	100	0.00
73	T	sec-Butylbenzene	1.000	0.866	13.4	100	0.00
74	T	1,3-Dichlorobenzene	1.000	0.911	8.9	100	0.00
75	T	4-Isopropyltoluene	1.000	0.856	14.4	100	0.00
76	T	1,4-Dichlorobenzene	1.000	0.952	4.8	100	0.00
77	T	1,2-Dichlorobenzene	1.000	0.923	7.7	100	0.00
78	T	n-Butylbenzene	1.000	0.838	16.2	100	0.00
79	T	1,2-Dibromo-3-chloropropane	1.000	0.822	17.8	100	0.00
80	T	1,2,4-Trichlorobenzene	1.000	1.006	-0.6	100	0.00
81	T	Hexachlorobutadiene	1.000	0.923	7.7	100	0.00
82	T	Naphthalene	1.000	0.997	0.3	100	0.00
83	T	1,2,3-Trichlorobenzene	1.000	1.117	-11.7	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 2

Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636163.D
Acq On : 08 Nov 2021 16:11
Operator : CM
Sample : ICAL 2 8260/624 (2uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Nov 09 10:50:04 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	2.000	1.948	2.6	100	0.00
3	pcc	Chloromethane	2.000	2.056	-2.8	100	0.00
4	ccc	Vinyl chloride	2.000	1.952	2.4	100	0.00
5	T	Bromomethane	2.000	1.963	1.8	100	0.00
6	T	Chloroethane	2.000	2.136	-6.8	100	0.00
7	T	Trichlorofluoromethane	2.000	1.789	10.6	100	0.00
8	T	Acrolein	2.000	1.818	9.1	100	0.00
9	ccc	1,1-Dichloroethene	2.000	1.905	4.7	100	0.00
10		Freon-113	2.000	1.874	6.3	100	0.00
11	T	Acetone	4.000	3.684	7.9	100	0.00
12	T	Iodomethane	4.000	3.814	4.6	100	0.02
13	T	Carbon disulfide	4.000	3.601	10.0	100	0.00
14		Methyl acetate	2.000	2.067	-3.4	100	-0.01
15	T	Vinyl acetate	4.000	3.746	6.3	100	0.00
16	T	Methylene chloride	2.000	2.101	-5.0	100	0.00
17	T	Acrylonitrile	2.000	1.769	11.6	100	0.00
18		Methyl tert-butyl ether	2.000	1.914	4.3	100	0.00
19	T	trans-1,2-Dichloroethene	2.000	1.854	7.3	100	0.00
20	pcc	1,1-Dichloroethane	2.000	1.912	4.4	100	0.00
21	T	2,2-Dichloropropane	2.000	2.019	-1.0	100	0.00
22	T	cis-1,2-Dichloroethene	2.000	1.872	6.4	100	0.00
23		2-Butanone	4.000	3.236	19.1	100	0.00
24	T	Bromochloromethane	2.000	1.849	7.6	100	0.00
25	ccc	Chloroform	2.000	1.871	6.5	100	0.00
26		Cyclohexane	2.000	1.932	3.4	100	-0.01
27	T	1,1,1-Trichloroethane	2.000	1.923	3.8	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	49.708	0.6	100	0.00
30	T	1,1-Dichloropropene	2.000	1.957	2.1	100	0.00
31	T	Carbon tetrachloride	2.000	1.843	7.9	100	0.00
32	M	Benzene	2.000	1.856	7.2	100	0.00
33	T	1,2-Dichloroethane	2.000	1.880	6.0	100	0.00
34	M	Trichloroethene	2.000	1.861	7.0	100	0.00
35		Methylcyclohexane	2.000	1.873	6.3	100	0.00
36	ccc	1,2-Dichloropropane	2.000	1.877	6.2	100	0.00
37	T	Dibromomethane	2.000	1.888	5.6	100	0.00
38		1,4-Dioxane	-1.000	0.000	0.0	0	-8.00#
39	T	Bromodichloromethane	2.000	1.734	13.3	100	0.00
40	T	2-Chloroethyl vinyl ether	4.000	3.538	11.6	100	0.00
41	T	cis-1,3-Dichloropropene	2.000	1.770	11.5	100	0.00
42	T	4-Methyl-2-pentanone	4.000	3.756	6.1	100	0.00
43	S	Toluene-d8	50.000	50.189	-0.4	100	0.00
44	ccc	Toluene	2.000	1.861	7.0	100	0.00
45	T	trans-1,3-Dichloropropene	2.000	1.718	14.1	100	0.00
46	T	1,1,2-Trichloroethane	2.000	1.823	8.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636163.D
Acq On : 08 Nov 2021 16:11
Operator : CM
Sample : ICAL 2 8260/624 (2uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Nov 09 10:50:04 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	4.000	3.594	10.2	100	0.00
49	T	Tetrachloroethene	2.000	1.855	7.3	100	0.00
50	T	1,3-Dichloropropane	2.000	1.879	6.0	100	0.00
51	T	Dibromochloromethane	2.000	1.653	17.3	100	0.00
52	T	1,2-Dibromoethane	2.000	1.787	10.7	100	0.00
53	pcc	Chlorobenzene	2.000	1.887	5.6#	100	0.00
54	T	1,1,1,2-Tetrachloroethane	2.000	1.807	9.7	100	0.00
55	ccc	Ethylbenzene	2.000	1.861	7.0	100	0.00
56	T	m,p-Xylene	4.000	3.670	8.3	100	0.00
57	T	o-Xylene	2.000	1.828	8.6	100	0.00
58	T	Styrene	2.000	1.747	12.6	100	0.00
59	pcc	Bromoform	2.000	2.015	-0.8#	100	0.00
60	S	4-Bromofluorobenzene	50.000	49.432	1.1	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	2.000	1.847	7.7	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	2.000	1.868	6.6	100	0.00
64	T	1,2,3-Trichloropropane	2.000	1.770	11.5	100	0.00
65	T	Isopropylbenzene	2.000	1.921	3.9	100	0.00
66	T	n-Propylbenzene	2.000	1.899	5.0	100	0.00
67	T	trans-1,4-Dichloro-2-butene	-1.000	2.471	0.0	100	0.00
68	T	2-Chlorotoluene	2.000	1.916	4.2	100	0.00
69	T	4-Chlorotoluene	2.000	1.891	5.4	100	0.00
70	T	1,3,5-Trimethylbenzene	2.000	1.845	7.8	100	0.00
71	T	tert-Butylbenzene	2.000	1.884	5.8	100	0.00
72	T	1,2,4-Trimethylbenzene	2.000	1.839	8.1	100	0.00
73	T	sec-Butylbenzene	2.000	1.841	8.0	100	0.00
74	T	1,3-Dichlorobenzene	2.000	1.821	9.0	100	0.00
75	T	4-Isopropyltoluene	2.000	1.782	10.9	100	0.00
76	T	1,4-Dichlorobenzene	2.000	1.825	8.8	100	0.00
77	T	1,2-Dichlorobenzene	2.000	1.810	9.5	100	0.00
78	T	n-Butylbenzene	2.000	1.724	13.8	100	0.00
79	T	1,2-Dibromo-3-chloropropane	2.000	1.776	11.2	100	0.00
80	T	1,2,4-Trichlorobenzene	2.000	1.610	19.5	100	0.00
81	T	Hexachlorobutadiene	2.000	1.518	24.1#	100	0.00
82	T	Naphthalene	2.000	1.642	17.9	100	0.00
83	T	1,2,3-Trichlorobenzene	2.000	1.676	16.2	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 2

Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636164.D
Acq On : 08 Nov 2021 16:32
Operator : CM
Sample : ICAL 5 8260/624 (5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Nov 09 10:50:30 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	5.000	4.858	2.8	100	0.00
3	pcc	Chloromethane	5.000	4.853	2.9	100	0.00
4	ccc	Vinyl chloride	5.000	5.076	-1.5	100	0.00
5	T	Bromomethane	5.000	5.470	-9.4	100	0.00
6	T	Chloroethane	5.000	5.291	-5.8	100	0.00
7	T	Trichlorofluoromethane	5.000	4.922	1.6	100	0.00
8	T	Acrolein	5.000	5.054	-1.1	100	0.00
9	ccc	1,1-Dichloroethene	5.000	4.944	1.1	100	0.00
10		Freon-113	5.000	5.068	-1.4	100	0.00
11	T	Acetone	10.000	9.141	8.6	100	0.00
12	T	Iodomethane	10.000	10.040	-0.4	100	0.00
13	T	Carbon disulfide	10.000	9.731	2.7	100	0.00
14		Methyl acetate	5.000	4.621	7.6	100	0.00
15	T	Vinyl acetate	10.000	9.799	2.0	100	0.00
16	T	Methylene chloride	5.000	4.908	1.8	100	0.00
17	T	Acrylonitrile	5.000	4.882	2.4	100	0.00
18		Methyl tert-butyl ether	5.000	4.957	0.9	100	0.00
19	T	trans-1,2-Dichloroethene	5.000	5.009	-0.2	100	0.00
20	pcc	1,1-Dichloroethane	5.000	5.019	-0.4	100	0.00
21	T	2,2-Dichloropropane	5.000	5.838	-16.8	100	0.00
22	T	cis-1,2-Dichloroethene	5.000	5.028	-0.6	100	0.00
23		2-Butanone	10.000	9.463	5.4	100	0.00
24	T	Bromochloromethane	5.000	4.950	1.0	100	0.00
25	ccc	Chloroform	5.000	5.071	-1.4	100	0.00
26		Cyclohexane	5.000	5.149	-3.0	100	0.00
27	T	1,1,1-Trichloroethane	5.000	5.201	-4.0	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	50.156	-0.3	100	0.00
30	T	1,1-Dichloropropene	5.000	4.978	0.4	100	0.00
31	T	Carbon tetrachloride	5.000	5.006	-0.1	100	0.00
32	M	Benzene	5.000	4.971	0.6	100	0.00
33	T	1,2-Dichloroethane	5.000	4.982	0.4	100	0.00
34	M	Trichloroethene	5.000	4.957	0.9	100	0.00
35		Methylcyclohexane	5.000	5.214	-4.3	100	0.00
36	ccc	1,2-Dichloropropane	5.000	4.917	1.7	100	0.00
37	T	Dibromomethane	5.000	4.757	4.9	100	0.00
38		1,4-Dioxane	-1.000	20.295	0.0	100	0.02
39	T	Bromodichloromethane	5.000	4.742	5.2	100	0.00
40	T	2-Chloroethyl vinyl ether	10.000	9.137	8.6	100	0.00
41	T	cis-1,3-Dichloropropene	5.000	4.672	6.6	100	0.00
42	T	4-Methyl-2-pentanone	10.000	9.542	4.6	100	0.00
43	S	Toluene-d8	50.000	50.178	-0.4	100	0.00
44	ccc	Toluene	5.000	4.916	1.7	100	0.00
45	T	trans-1,3-Dichloropropene	5.000	4.601	8.0	100	0.00
46	T	1,1,2-Trichloroethane	5.000	4.692	6.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636164.D
Acq On : 08 Nov 2021 16:32
Operator : CM
Sample : ICAL 5 8260/624 (5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Nov 09 10:50:30 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	10.000	9.616	3.8	100	0.00
49	T	Tetrachloroethene	5.000	4.978	0.4	100	0.00
50	T	1,3-Dichloropropane	5.000	4.829	3.4	100	0.00
51	T	Dibromochloromethane	5.000	4.516	9.7	100	0.00
52	T	1,2-Dibromoethane	5.000	4.704	5.9	100	0.00
53	pcc	Chlorobenzene	5.000	4.896	2.1#	100	0.00
54	T	1,1,1,2-Tetrachloroethane	5.000	4.785	4.3	100	0.00
55	ccc	Ethylbenzene	5.000	4.934	1.3	100	0.00
56	T	m,p-Xylene	10.000	9.800	2.0	100	0.00
57	T	o-Xylene	5.000	4.864	2.7	100	0.00
58	T	Styrene	5.000	4.608	7.8	100	0.00
59	pcc	Bromoform	5.000	4.104	17.9#	100	0.00
60	S	4-Bromofluorobenzene	50.000	49.131	1.7	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	5.000	4.928	1.4	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	5.000	4.922	1.6	100	0.00
64	T	1,2,3-Trichloropropane	5.000	4.770	4.6	100	0.00
65	T	Isopropylbenzene	5.000	5.303	-6.1	100	0.00
66	T	n-Propylbenzene	5.000	5.162	-3.2	100	0.00
67	T	trans-1,4-Dichloro-2-butene	10.000	7.747	22.5#	100	0.00
68	T	2-Chlorotoluene	5.000	5.080	-1.6	100	0.00
69	T	4-Chlorotoluene	5.000	4.982	0.4	100	0.00
70	T	1,3,5-Trimethylbenzene	5.000	5.022	-0.4	100	0.00
71	T	tert-Butylbenzene	5.000	5.158	-3.2	100	0.00
72	T	1,2,4-Trimethylbenzene	5.000	4.879	2.4	100	0.00
73	T	sec-Butylbenzene	5.000	5.072	-1.4	100	0.00
74	T	1,3-Dichlorobenzene	5.000	4.793	4.1	100	0.00
75	T	4-Isopropyltoluene	5.000	4.894	2.1	100	0.00
76	T	1,4-Dichlorobenzene	5.000	4.768	4.6	100	0.00
77	T	1,2-Dichlorobenzene	5.000	4.653	6.9	100	0.00
78	T	n-Butylbenzene	5.000	4.683	6.3	100	0.00
79	T	1,2-Dibromo-3-chloropropane	5.000	4.180	16.4	100	0.00
80	T	1,2,4-Trichlorobenzene	5.000	3.624	27.5#	100	0.00
81	T	Hexachlorobutadiene	5.000	3.921	21.6#	100	0.00
82	T	Naphthalene	5.000	3.567	28.7#	100	0.00
83	T	1,2,3-Trichlorobenzene	5.000	3.647	27.1#	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 2

Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636167.D
Acq On : 08 Nov 2021 17:36
Operator : CM
Sample : ICAL 50 8260/624 (50uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Nov 09 10:51:47 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	50.000	50.009	-0.0	100	0.00
3	pcc	Chloromethane	50.000	46.868	6.3	100	0.00
4	ccc	Vinyl chloride	50.000	48.991	2.0	100	0.00
5	T	Bromomethane	50.000	49.135	1.7	100	0.00
6	T	Chloroethane	50.000	51.608	-3.2	100	0.00
7	T	Trichlorofluoromethane	50.000	51.093	-2.2	100	0.00
8	T	Acrolein	50.000	54.273	-8.5	100	0.00
9	ccc	1,1-Dichloroethene	50.000	50.591	-1.2	100	0.00
10		Freon-113	50.000	51.308	-2.6	100	0.00
11	T	Acetone	100.000	113.810	-13.8	100	0.00
12	T	Iodomethane	100.000	101.892	-1.9	100	0.00
13	T	Carbon disulfide	100.000	102.391	-2.4	100	0.00
14		Methyl acetate	50.000	50.627	-1.3	100	0.00
15	T	Vinyl acetate	100.000	108.975	-9.0	100	0.00
16	T	Methylene chloride	50.000	48.231	3.5	100	0.00
17	T	Acrylonitrile	50.000	56.787	-13.6	100	0.00
18		Methyl tert-butyl ether	50.000	53.078	-6.2	100	0.00
19	T	trans-1,2-Dichloroethene	50.000	51.367	-2.7	100	0.00
20	pcc	1,1-Dichloroethane	50.000	50.725	-1.5	100	0.00
21	T	2,2-Dichloropropane	50.000	53.974	-7.9	100	0.00
22	T	cis-1,2-Dichloroethene	50.000	51.591	-3.2	100	0.00
23		2-Butanone	100.000	117.220	-17.2	100	0.00
24	T	Bromochloromethane	50.000	52.527	-5.1	100	0.00
25	ccc	Chloroform	50.000	51.884	-3.8	100	0.00
26		Cyclohexane	50.000	48.921	2.2	100	0.00
27	T	1,1,1-Trichloroethane	50.000	51.705	-3.4	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	50.431	-0.9	100	0.00
30	T	1,1-Dichloropropene	50.000	51.189	-2.4	100	0.00
31	T	Carbon tetrachloride	50.000	51.385	-2.8	100	0.00
32	M	Benzene	50.000	50.008	-0.0	100	0.00
33	T	1,2-Dichloroethane	50.000	51.173	-2.3	100	0.00
34	M	Trichloroethene	50.000	51.366	-2.7	100	0.00
35		Methylcyclohexane	50.000	50.895	-1.8	100	0.00
36	ccc	1,2-Dichloropropane	50.000	51.373	-2.7	100	0.00
37	T	Dibromomethane	50.000	51.953	-3.9	100	0.00
38		1,4-Dioxane	500.000	532.876	-6.6	100	0.00
39	T	Bromodichloromethane	50.000	53.219	-6.4	100	0.00
40	T	2-Chloroethyl vinyl ether	100.000	105.387	-5.4	100	0.00
41	T	cis-1,3-Dichloropropene	50.000	53.671	-7.3	100	0.00
42	T	4-Methyl-2-pentanone	100.000	108.618	-8.6	100	0.00
43	S	Toluene-d8	50.000	50.107	-0.2	100	0.00
44	ccc	Toluene	50.000	50.645	-1.3	100	0.00
45	T	trans-1,3-Dichloropropene	50.000	54.497	-9.0	100	0.00
46	T	1,1,2-Trichloroethane	50.000	52.368	-4.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636167.D
Acq On : 08 Nov 2021 17:36
Operator : CM
Sample : ICAL 50 8260/624 (50uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Nov 09 10:51:47 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	100.000	110.541	-10.5	100	0.00
49	T	Tetrachloroethene	50.000	50.822	-1.6	100	0.00
50	T	1,3-Dichloropropane	50.000	51.866	-3.7	100	0.00
51	T	Dibromochloromethane	50.000	55.000	-10.0	100	0.00
52	T	1,2-Dibromoethane	50.000	53.162	-6.3	100	0.00
53	pcc	Chlorobenzene	50.000	50.875	-1.8#	100	0.00
54	T	1,1,1,2-Tetrachloroethane	50.000	54.006	-8.0	100	0.00
55	ccc	Ethylbenzene	50.000	51.358	-2.7	100	0.00
56	T	m,p-Xylene	100.000	104.492	-4.5	100	0.00
57	T	o-Xylene	50.000	52.127	-4.3	100	0.00
58	T	Styrene	50.000	53.682	-7.4	100	0.00
59	pcc	Bromoform	50.000	47.984	4.0#	100	0.00
60	S	4-Bromofluorobenzene	50.000	50.556	-1.1	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	50.000	51.382	-2.8	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	50.000	54.045	-8.1	100	0.00
64	T	1,2,3-Trichloropropane	50.000	54.119	-8.2	100	0.00
65	T	Isopropylbenzene	50.000	51.929	-3.9	100	0.00
66	T	n-Propylbenzene	50.000	51.805	-3.6	100	0.00
67	T	trans-1,4-Dichloro-2-butene	100.000	112.737	-12.7	100	0.00
68	T	2-Chlorotoluene	50.000	50.799	-1.6	100	0.00
69	T	4-Chlorotoluene	50.000	51.137	-2.3	100	0.00
70	T	1,3,5-Trimethylbenzene	50.000	52.551	-5.1	100	0.00
71	T	tert-Butylbenzene	50.000	51.804	-3.6	100	0.00
72	T	1,2,4-Trimethylbenzene	50.000	52.717	-5.4	100	0.00
73	T	sec-Butylbenzene	50.000	52.724	-5.4	100	0.00
74	T	1,3-Dichlorobenzene	50.000	51.818	-3.6	100	0.00
75	T	4-Isopropyltoluene	50.000	53.078	-6.2	100	0.00
76	T	1,4-Dichlorobenzene	50.000	51.069	-2.1	100	0.00
77	T	1,2-Dichlorobenzene	50.000	52.258	-4.5	100	0.00
78	T	n-Butylbenzene	50.000	53.957	-7.9	100	0.00
79	T	1,2-Dibromo-3-chloropropane	50.000	57.391	-14.8	100	0.00
80	T	1,2,4-Trichlorobenzene	50.000	56.999	-14.0	100	0.00
81	T	Hexachlorobutadiene	50.000	52.609	-5.2	100	0.00
82	T	Naphthalene	50.000	58.798	-17.6	100	0.00
83	T	1,2,3-Trichlorobenzene	50.000	60.764	-21.5#	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 2

Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636169.D
Acq On : 08 Nov 2021 19:44
Operator : CM
Sample : ICAL 100 8260/624 (100uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Nov 09 10:52:11 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	100.000	106.160	-6.2	100	0.00
3	pcc	Chloromethane	100.000	95.147	4.9	100	0.00
4	ccc	Vinyl chloride	100.000	96.766	3.2	100	0.00
5	T	Bromomethane	-1.000	80.323	0.0	100	0.00
6	T	Chloroethane	100.000	100.605	-0.6	100	0.00
7	T	Trichlorofluoromethane	100.000	105.432	-5.4	100	0.02
8	T	Acrolein	100.000	98.867	1.1	100	0.00
9	ccc	1,1-Dichloroethene	100.000	106.097	-6.1	100	0.00
10		Freon-113	100.000	103.846	-3.8	100	0.00
11	T	Acetone	200.000	210.144	-5.1	100	0.00
12	T	Iodomethane	200.000	203.936	-2.0	100	0.00
13	T	Carbon disulfide	200.000	213.602	-6.8	100	0.01
14		Methyl acetate	100.000	94.859	5.1	100	0.00
15	T	Vinyl acetate	200.000	212.699	-6.3	100	0.00
16	T	Methylene chloride	100.000	94.081	5.9	100	0.00
17	T	Acrylonitrile	100.000	99.747	0.3	100	0.00
18		Methyl tert-butyl ether	100.000	101.384	-1.4	100	0.00
19	T	trans-1,2-Dichloroethene	100.000	103.645	-3.6	100	0.00
20	pcc	1,1-Dichloroethane	100.000	101.487	-1.5	100	0.00
21	T	2,2-Dichloropropane	100.000	92.285	7.7	100	0.00
22	T	cis-1,2-Dichloroethene	100.000	102.570	-2.6	100	0.00
23		2-Butanone	200.000	223.508	-11.8	100	0.00
24	T	Bromochloromethane	100.000	103.183	-3.2	100	0.00
25	ccc	Chloroform	100.000	103.052	-3.1	100	0.00
26		Cyclohexane	100.000	105.706	-5.7	100	0.00
27	T	1,1,1-Trichloroethane	100.000	104.256	-4.3	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	50.407	-0.8	100	0.00
30	T	1,1-Dichloropropene	100.000	108.367	-8.4	100	0.00
31	T	Carbon tetrachloride	100.000	110.568	-10.6	100	0.00
32	M	Benzene	100.000	101.664	-1.7	100	0.00
33	T	1,2-Dichloroethane	100.000	101.731	-1.7	100	0.00
34	M	Trichloroethene	100.000	104.857	-4.9	100	0.00
35		Methylcyclohexane	100.000	113.054	-13.1	100	0.00
36	ccc	1,2-Dichloropropane	100.000	102.667	-2.7	100	0.00
37	T	Dibromomethane	100.000	103.204	-3.2	100	0.00
38		1,4-Dioxane	1000.000	1236.310	-23.6#	100	0.00
39	T	Bromodichloromethane	100.000	107.391	-7.4	100	0.00
40	T	2-Chloroethyl vinyl ether	200.000	212.176	-6.1	100	0.00
41	T	cis-1,3-Dichloropropene	100.000	107.925	-7.9	100	0.00
42	T	4-Methyl-2-pentanone	200.000	206.747	-3.4	100	0.00
43	S	Toluene-d8	50.000	49.780	0.4	100	0.00
44	ccc	Toluene	100.000	102.736	-2.7	100	0.00
45	T	trans-1,3-Dichloropropene	100.000	110.572	-10.6	100	0.00
46	T	1,1,2-Trichloroethane	100.000	104.933	-4.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636169.D
Acq On : 08 Nov 2021 19:44
Operator : CM
Sample : ICAL 100 8260/624 (100uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Nov 09 10:52:11 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	200.000	214.229	-7.1	100	0.00
49	T	Tetrachloroethene	100.000	105.694	-5.7	100	0.00
50	T	1,3-Dichloropropane	100.000	104.017	-4.0	100	0.00
51	T	Dibromochloromethane	100.000	112.778	-12.8	100	0.00
52	T	1,2-Dibromoethane	100.000	107.143	-7.1	100	0.00
53	pcc	Chlorobenzene	100.000	102.824	-2.8#	100	0.00
54	T	1,1,1,2-Tetrachloroethane	100.000	101.914	-1.9	100	0.00
55	ccc	Ethylbenzene	100.000	104.168	-4.2	100	0.00
56	T	m,p-Xylene	200.000	209.760	-4.9	100	0.00
57	T	o-Xylene	100.000	102.463	-2.5	100	0.00
58	T	Styrene	100.000	110.008	-10.0	100	0.00
59	pcc	Bromoform	100.000	98.316	1.7#	100	0.00
60	S	4-Bromofluorobenzene	50.000	50.618	-1.2	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	100.000	103.224	-3.2	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	100.000	104.576	-4.6	100	0.00
64	T	1,2,3-Trichloropropane	100.000	105.368	-5.4	100	0.00
65	T	Isopropylbenzene	100.000	97.946	2.1	100	0.00
66	T	n-Propylbenzene	100.000	101.699	-1.7	100	0.00
67	T	trans-1,4-Dichloro-2-butene	200.000	223.755	-11.9	100	0.00
68	T	2-Chlorotoluene	100.000	98.753	1.2	100	0.00
69	T	4-Chlorotoluene	100.000	101.632	-1.6	100	0.00
70	T	1,3,5-Trimethylbenzene	100.000	99.653	0.3	100	0.00
71	T	tert-Butylbenzene	100.000	100.305	-0.3	100	0.00
72	T	1,2,4-Trimethylbenzene	100.000	102.351	-2.4	100	0.00
73	T	sec-Butylbenzene	100.000	102.680	-2.7	100	0.00
74	T	1,3-Dichlorobenzene	100.000	104.456	-4.5	100	0.00
75	T	4-Isopropyltoluene	100.000	104.947	-4.9	100	0.00
76	T	1,4-Dichlorobenzene	100.000	102.964	-3.0	100	0.00
77	T	1,2-Dichlorobenzene	100.000	105.120	-5.1	100	0.00
78	T	n-Butylbenzene	100.000	110.424	-10.4	100	0.00
79	T	1,2-Dibromo-3-chloropropane	100.000	111.485	-11.5	100	0.00
80	T	1,2,4-Trichlorobenzene	100.000	128.023	-28.0#	100	0.00
81	T	Hexachlorobutadiene	100.000	119.737	-19.7	100	0.00
82	T	Naphthalene	100.000	125.606	-25.6#	100	0.00
83	T	1,2,3-Trichlorobenzene	-1.000	138.011	0.0	0	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 2

Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636171.D
Acq On : 08 Nov 2021 20:27
Operator : CM
Sample : ICAL 150 8260/624 (150uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 76 Sample Multiplier: 1

Quant Time: Nov 09 10:53:02 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	150.000	151.827	-1.2	100	0.00
3	pcc	Chloromethane	150.000	138.632	7.6	100	0.00
4	ccc	Vinyl chloride	150.000	143.583	4.3	100	0.00
5	T	Bromomethane	-1.000	96.487	0.0	100	0.00
6	T	Chloroethane	150.000	127.409	15.1	100	0.00
7	T	Trichlorofluoromethane	150.000	152.861	-1.9	100	0.00
8	T	Acrolein	150.000	152.485	-1.7	100	0.00
9	ccc	1,1-Dichloroethene	150.000	160.859	-7.2	100	0.00
10		Freon-113	150.000	157.269	-4.8	100	0.00
11	T	Acetone	300.000	305.235	-1.7	100	0.00
12	T	Iodomethane	300.000	306.177	-2.1	100	0.00
13	T	Carbon disulfide	300.000	321.981	-7.3	100	0.00
14		Methyl acetate	150.000	137.849	8.1	100	0.00
15	T	Vinyl acetate	300.000	314.289	-4.8	100	0.00
16	T	Methylene chloride	150.000	140.525	6.3	100	0.00
17	T	Acrylonitrile	150.000	153.048	-2.0	100	0.00
18		Methyl tert-butyl ether	150.000	147.781	1.5	100	0.00
19	T	trans-1,2-Dichloroethene	150.000	155.421	-3.6	100	0.00
20	pcc	1,1-Dichloroethane	150.000	150.923	-0.6	100	0.00
21	T	2,2-Dichloropropane	150.000	130.353	13.1	100	0.00
22	T	cis-1,2-Dichloroethene	150.000	152.481	-1.7	100	0.00
23		2-Butanone	300.000	324.597	-8.2	100	0.00
24	T	Bromochloromethane	150.000	152.384	-1.6	100	0.00
25	ccc	Chloroform	150.000	152.449	-1.6	100	0.00
26		Cyclohexane	150.000	146.285	2.5	100	0.00
27	T	1,1,1-Trichloroethane	150.000	149.459	0.4	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	49.941	0.1	100	0.00
30	T	1,1-Dichloropropene	150.000	159.992	-6.7	100	0.00
31	T	Carbon tetrachloride	150.000	155.223	-3.5	100	0.00
32	M	Benzene	150.000	151.682	-1.1	100	0.00
33	T	1,2-Dichloroethane	150.000	150.613	-0.4	100	0.00
34	M	Trichloroethene	150.000	157.286	-4.9	100	0.00
35		Methylcyclohexane	150.000	143.668	4.2	100	0.00
36	ccc	1,2-Dichloropropane	150.000	153.983	-2.7	100	0.00
37	T	Dibromomethane	150.000	155.552	-3.7	100	0.00
38		1,4-Dioxane	1500.000	1496.634	0.2	100	0.00
39	T	Bromodichloromethane	150.000	161.764	-7.8	100	0.00
40	T	2-Chloroethyl vinyl ether	300.000	324.472	-8.2	100	0.00
41	T	cis-1,3-Dichloropropene	150.000	164.903	-9.9	100	0.00
42	T	4-Methyl-2-pentanone	300.000	305.886	-2.0	100	0.00
43	S	Toluene-d8	50.000	49.794	0.4	100	0.00
44	ccc	Toluene	150.000	155.920	-3.9	100	0.00
45	T	trans-1,3-Dichloropropene	150.000	168.998	-12.7	100	0.00
46	T	1,1,2-Trichloroethane	150.000	160.842	-7.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636171.D
Acq On : 08 Nov 2021 20:27
Operator : CM
Sample : ICAL 150 8260/624 (150uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 76 Sample Multiplier: 1

Quant Time: Nov 09 10:53:02 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	300.000	316.838	-5.6	100	0.00
49	T	Tetrachloroethene	150.000	157.428	-5.0	100	0.00
50	T	1,3-Dichloropropane	150.000	156.682	-4.5	100	0.00
51	T	Dibromochloromethane	150.000	172.886	-15.3	100	0.00
52	T	1,2-Dibromoethane	150.000	162.719	-8.5	100	0.00
53	pcc	Chlorobenzene	150.000	155.210	-3.5#	100	0.00
54	T	1,1,1,2-Tetrachloroethane	150.000	156.228	-4.2	100	0.00
55	ccc	Ethylbenzene	150.000	157.325	-4.9	100	0.00
56	T	m,p-Xylene	300.000	313.047	-4.3	100	0.00
57	T	o-Xylene	150.000	156.643	-4.4	100	0.00
58	T	Styrene	150.000	167.410	-11.6	100	0.00
59	pcc	Bromoform	150.000	151.876	-1.3#	100	0.00
60	S	4-Bromofluorobenzene	50.000	50.724	-1.4	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	150.000	154.696	-3.1	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	150.000	157.647	-5.1	100	0.00
64	T	1,2,3-Trichloropropane	150.000	156.602	-4.4	100	0.00
65	T	Isopropylbenzene	150.000	148.033	1.3	100	0.00
66	T	n-Propylbenzene	150.000	151.532	-1.0	100	0.00
67	T	trans-1,4-Dichloro-2-butene	300.000	334.426	-11.5	100	0.00
68	T	2-Chlorotoluene	150.000	149.006	0.7	100	0.00
69	T	4-Chlorotoluene	150.000	152.494	-1.7	100	0.00
70	T	1,3,5-Trimethylbenzene	150.000	152.376	-1.6	100	0.00
71	T	tert-Butylbenzene	150.000	149.555	0.3	100	0.00
72	T	1,2,4-Trimethylbenzene	150.000	154.509	-3.0	100	0.00
73	T	sec-Butylbenzene	150.000	153.923	-2.6	100	0.00
74	T	1,3-Dichlorobenzene	150.000	158.682	-5.8	100	0.00
75	T	4-Isopropyltoluene	150.000	157.428	-5.0	100	0.00
76	T	1,4-Dichlorobenzene	150.000	154.930	-3.3	100	0.00
77	T	1,2-Dichlorobenzene	150.000	158.678	-5.8	100	0.00
78	T	n-Butylbenzene	150.000	165.174	-10.1	100	0.00
79	T	1,2-Dibromo-3-chloropropane	150.000	167.951	-12.0	100	0.00
80	T	1,2,4-Trichlorobenzene	-1.000	198.478	0.0	100	0.00
81	T	Hexachlorobutadiene	150.000	186.053	-24.0#	100	0.00
82	T	Naphthalene	-1.000	191.608	0.0	100	0.00
83	T	1,2,3-Trichlorobenzene	-1.000	214.732	0.0	0	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 2

Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636173.D
Acq On : 08 Nov 2021 21:09
Operator : CM
Sample : ICAL 200 8260/624 (200uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 78 Sample Multiplier: 1

Quant Time: Nov 09 10:53:52 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	200.000	193.977	3.0	100	0.00
3	pcc	Chloromethane	200.000	171.964	14.0	100	0.00
4	ccc	Vinyl chloride	200.000	178.716	10.6	100	0.00
5	T	Bromomethane	-1.000	149.026	0.0	100	0.00
6	T	Chloroethane	200.000	153.486	23.3#	100	0.00
7	T	Trichlorofluoromethane	200.000	193.598	3.2	100	0.02
8	T	Acrolein	200.000	205.948	-3.0	100	0.00
9	ccc	1,1-Dichloroethene	200.000	210.939	-5.5	100	0.00
10		Freon-113	200.000	205.693	-2.8	100	0.00
11	T	Acetone	400.000	409.334	-2.3	100	0.00
12	T	Iodomethane	400.000	405.271	-1.3	100	0.02
13	T	Carbon disulfide	400.000	429.037	-7.3	100	0.00
14		Methyl acetate	200.000	185.857	7.1	100	0.00
15	T	Vinyl acetate	400.000	414.809	-3.7	100	0.00
16	T	Methylene chloride	200.000	186.781	6.6	100	0.00
17	T	Acrylonitrile	200.000	205.778	-2.9	100	0.00
18		Methyl tert-butyl ether	200.000	206.426	-3.2	100	0.00
19	T	trans-1,2-Dichloroethene	200.000	203.161	-1.6	100	0.00
20	pcc	1,1-Dichloroethane	200.000	197.027	1.5	100	0.00
21	T	2,2-Dichloropropane	200.000	169.330	15.3	100	0.00
22	T	cis-1,2-Dichloroethene	200.000	201.156	-0.6	100	0.00
23		2-Butanone	400.000	438.198	-9.5	100	0.00
24	T	Bromochloromethane	200.000	204.699	-2.3	100	0.00
25	ccc	Chloroform	200.000	201.189	-0.6	100	0.00
26		Cyclohexane	200.000	198.976	0.5	100	0.00
27	T	1,1,1-Trichloroethane	200.000	205.762	-2.9	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	50.167	-0.3	100	0.00
30	T	1,1-Dichloropropene	200.000	211.070	-5.5	100	0.00
31	T	Carbon tetrachloride	200.000	212.028	-6.0	100	0.00
32	M	Benzene	200.000	200.538	-0.3	100	0.00
33	T	1,2-Dichloroethane	200.000	201.210	-0.6	100	0.00
34	M	Trichloroethene	200.000	207.212	-3.6	100	0.00
35		Methylcyclohexane	200.000	214.652	-7.3	100	0.00
36	ccc	1,2-Dichloropropane	200.000	208.101	-4.1	100	0.00
37	T	Dibromomethane	200.000	211.876	-5.9	100	0.00
38		1,4-Dioxane	-1.000	1666.860	0.0	100	0.00
39	T	Bromodichloromethane	200.000	218.235	-9.1	100	0.00
40	T	2-Chloroethyl vinyl ether	400.000	434.206	-8.6	100	0.00
41	T	cis-1,3-Dichloropropene	200.000	221.648	-10.8	100	0.00
42	T	4-Methyl-2-pentanone	400.000	418.895	-4.7	100	0.00
43	S	Toluene-d8	50.000	50.595	-1.2	100	0.00
44	ccc	Toluene	200.000	209.928	-5.0	100	0.00
45	T	trans-1,3-Dichloropropene	200.000	228.801	-14.4	100	0.00
46	T	1,1,2-Trichloroethane	200.000	216.953	-8.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636173.D
Acq On : 08 Nov 2021 21:09
Operator : CM
Sample : ICAL 200 8260/624 (200uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 78 Sample Multiplier: 1

Quant Time: Nov 09 10:53:52 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	400.000	412.506	-3.1	100	0.00
49	T	Tetrachloroethene	200.000	207.102	-3.6	100	0.00
50	T	1,3-Dichloropropane	200.000	208.680	-4.3	100	0.00
51	T	Dibromochloromethane	200.000	231.791	-15.9	100	0.00
52	T	1,2-Dibromoethane	200.000	216.317	-8.2	100	0.00
53	pcc	Chlorobenzene	200.000	204.830	-2.4#	100	0.00
54	T	1,1,1,2-Tetrachloroethane	200.000	221.344	-10.7	100	0.00
55	ccc	Ethylbenzene	200.000	206.736	-3.4	100	0.00
56	T	m,p-Xylene	400.000	407.003	-1.8	100	0.00
57	T	o-Xylene	200.000	212.584	-6.3	100	0.00
58	T	Styrene	200.000	220.812	-10.4	100	0.00
59	pcc	Bromoform	200.000	205.239	-2.6#	100	0.00
60	S	4-Bromofluorobenzene	50.000	50.425	-0.8	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	200.000	207.980	-4.0	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	200.000	215.460	-7.7	100	0.00
64	T	1,2,3-Trichloropropane	200.000	209.886	-4.9	100	0.00
65	T	Isopropylbenzene	200.000	204.586	-2.3	100	0.00
66	T	n-Propylbenzene	200.000	202.584	-1.3	100	0.00
67	T	trans-1,4-Dichloro-2-butene	400.000	447.514	-11.9	100	0.00
68	T	2-Chlorotoluene	200.000	203.083	-1.5	100	0.00
69	T	4-Chlorotoluene	200.000	205.079	-2.5	100	0.00
70	T	1,3,5-Trimethylbenzene	200.000	211.583	-5.8	100	0.00
71	T	tert-Butylbenzene	200.000	210.329	-5.2	100	0.00
72	T	1,2,4-Trimethylbenzene	200.000	211.647	-5.8	100	0.00
73	T	sec-Butylbenzene	200.000	213.928	-7.0	100	0.00
74	T	1,3-Dichlorobenzene	200.000	211.208	-5.6	100	0.00
75	T	4-Isopropyltoluene	200.000	216.799	-8.4	100	0.00
76	T	1,4-Dichlorobenzene	200.000	207.905	-4.0	100	0.00
77	T	1,2-Dichlorobenzene	200.000	216.162	-8.1	100	0.00
78	T	n-Butylbenzene	200.000	225.515	-12.8	100	0.00
79	T	1,2-Dibromo-3-chloropropane	200.000	229.476	-14.7	100	0.00
80	T	1,2,4-Trichlorobenzene	-1.000	256.150	0.0	100	0.00
81	T	Hexachlorobutadiene	200.000	238.294	-19.1	100	0.00
82	T	Naphthalene	-1.000	245.610	0.0	100	0.00
83	T	1,2,3-Trichlorobenzene	-1.000	273.775	0.0	0	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 2

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Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636176.D
Acq On : 08 Nov 2021 22:14
Operator : CM
Sample : ICAL 20 8260/624 (20uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 80 Sample Multiplier: 1

Quant Time: Nov 09 10:51:18 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	20.000	18.927	5.4	100	0.00
3	pcc	Chloromethane	20.000	19.972	0.1	100	0.00
4	ccc	Vinyl chloride	20.000	20.032	-0.2	100	0.00
5	T	Bromomethane	20.000	21.375	-6.9	100	0.00
6	T	Chloroethane	20.000	22.890	-14.5	100	0.00
7	T	Trichlorofluoromethane	20.000	20.003	-0.0	100	0.00
8	T	Acrolein	20.000	17.821	10.9	100	0.00
9	ccc	1,1-Dichloroethene	20.000	21.689	-8.4	100	0.00
10		Freon-113	20.000	19.914	0.4	100	-0.01
11	T	Acetone	40.000	35.898	10.3	100	0.00
12	T	Iodomethane	40.000	47.480	-18.7	100	0.02
13	T	Carbon disulfide	40.000	44.119	-10.3	100	0.00
14		Methyl acetate	20.000	17.431	12.8	100	0.00
15	T	Vinyl acetate	40.000	41.121	-2.8	100	0.00
16	T	Methylene chloride	20.000	21.571	-7.9	100	0.00
17	T	Acrylonitrile	20.000	18.359	8.2	100	0.00
18		Methyl tert-butyl ether	20.000	21.460	-7.3	100	0.00
19	T	trans-1,2-Dichloroethene	20.000	23.073	-15.4	100	0.00
20	pcc	1,1-Dichloroethane	20.000	23.393	-17.0	100	0.00
21	T	2,2-Dichloropropane	20.000	19.994	0.0	100	0.00
22	T	cis-1,2-Dichloroethene	20.000	23.538	-17.7	100	0.00
23		2-Butanone	40.000	38.136	4.7	100	0.00
24	T	Bromochloromethane	20.000	22.431	-12.2	100	0.00
25	ccc	Chloroform	20.000	23.526	-17.6	100	0.00
26		Cyclohexane	20.000	20.324	-1.6	100	0.00
27	T	1,1,1-Trichloroethane	20.000	22.622	-13.1	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	49.837	0.3	100	0.00
30	T	1,1-Dichloropropene	20.000	22.669	-13.3	100	0.00
31	T	Carbon tetrachloride	20.000	23.036	-15.2	100	0.00
32	M	Benzene	20.000	23.877	-19.4	100	0.00
33	T	1,2-Dichloroethane	20.000	22.610	-13.0	100	0.00
34	M	Trichloroethene	20.000	23.819	-19.1	100	0.00
35		Methylcyclohexane	20.000	22.472	-12.4	100	0.00
36	ccc	1,2-Dichloropropane	20.000	23.545	-17.7	100	0.00
37	T	Dibromomethane	20.000	22.202	-11.0	100	0.00
38		1,4-Dioxane	200.000	156.697	21.7#	100	0.02
39	T	Bromodichloromethane	20.000	23.645	-18.2	100	0.00
40	T	2-Chloroethyl vinyl ether	40.000	42.867	-7.2	100	0.00
41	T	cis-1,3-Dichloropropene	20.000	23.479	-17.4	100	0.00
42	T	4-Methyl-2-pentanone	40.000	40.241	-0.6	100	0.00
43	S	Toluene-d8	50.000	49.968	0.1	100	0.00
44	ccc	Toluene	20.000	23.788	-18.9	100	0.00
45	T	trans-1,3-Dichloropropene	20.000	22.964	-14.8	100	0.00
46	T	1,1,2-Trichloroethane	20.000	22.273	-11.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636176.D
Acq On : 08 Nov 2021 22:14
Operator : CM
Sample : ICAL 20 8260/624 (20uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 80 Sample Multiplier: 1

Quant Time: Nov 09 10:51:18 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	40.000	40.499	-1.2	100	0.00
49	T	Tetrachloroethene	20.000	22.999	-15.0	100	0.00
50	T	1,3-Dichloropropane	20.000	22.490	-12.4	100	0.00
51	T	Dibromochloromethane	20.000	23.518	-17.6	100	0.00
52	T	1,2-Dibromoethane	20.000	22.139	-10.7	100	0.00
53	pcc	Chlorobenzene	20.000	23.963	-19.8#	100	0.00
54	T	1,1,1,2-Tetrachloroethane	20.000	24.554	-22.8#	100	0.00
55	ccc	Ethylbenzene	20.000	23.858	-19.3	100	0.00
56	T	m,p-Xylene	40.000	47.885	-19.7	100	0.00
57	T	o-Xylene	20.000	24.117	-20.6#	100	0.00
58	T	Styrene	20.000	24.453	-22.3#	100	0.00
59	pcc	Bromoform	20.000	18.742	6.3#	100	0.00
60	S	4-Bromofluorobenzene	50.000	49.739	0.5	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	20.000	23.761	-18.8	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	20.000	21.256	-6.3	100	0.00
64	T	1,2,3-Trichloropropane	20.000	20.615	-3.1	100	0.00
65	T	Isopropylbenzene	20.000	24.104	-20.5#	100	0.00
66	T	n-Propylbenzene	20.000	23.880	-19.4	100	0.00
67	T	trans-1,4-Dichloro-2-butene	40.000	38.552	3.6	100	0.00
68	T	2-Chlorotoluene	20.000	24.157	-20.8#	100	0.00
69	T	4-Chlorotoluene	20.000	24.150	-20.7#	100	0.00
70	T	1,3,5-Trimethylbenzene	20.000	24.405	-22.0#	100	0.00
71	T	tert-Butylbenzene	20.000	24.118	-20.6#	100	0.00
72	T	1,2,4-Trimethylbenzene	20.000	24.461	-22.3#	100	0.00
73	T	sec-Butylbenzene	20.000	24.192	-21.0#	100	0.00
74	T	1,3-Dichlorobenzene	20.000	23.938	-19.7	100	0.00
75	T	4-Isopropyltoluene	20.000	24.220	-21.1#	100	0.00
76	T	1,4-Dichlorobenzene	20.000	23.884	-19.4	100	0.00
77	T	1,2-Dichlorobenzene	20.000	23.726	-18.6	100	0.00
78	T	n-Butylbenzene	20.000	23.916	-19.6	100	0.00
79	T	1,2-Dibromo-3-chloropropane	20.000	19.376	3.1	100	0.00
80	T	1,2,4-Trichlorobenzene	20.000	23.582	-17.9	100	0.00
81	T	Hexachlorobutadiene	20.000	21.935	-9.7	100	0.00
82	T	Naphthalene	20.000	20.490	-2.4	100	0.00
83	T	1,2,3-Trichlorobenzene	20.000	23.594	-18.0	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 2

Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211109\
Data File : V1636179.D
Acq On : 09 Nov 2021 11:00
Operator : CM
Sample : ICV 20 8260/624 (20uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 83 Sample Multiplier: 1

Quant Time: Nov 09 11:18:06 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 11:06:18 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	20.000	20.539	-2.7	108	0.00
3	pcc	Chloromethane	20.000	19.069	4.7	95	0.00
4	ccc	Vinyl chloride	20.000	20.716	-3.6	103	0.00
5	T	Bromomethane	20.000	19.444	2.8	91	0.00
6	T	Chloroethane	20.000	21.082	-5.4	92	0.00
7	T	Trichlorofluoromethane	20.000	20.892	-4.5	104	0.00
8	T	Acrolein	20.000	20.296	-1.5	114	-0.01
9	ccc	1,1-Dichloroethene	20.000	21.499	-7.5	99	0.00
10		Freon-113	20.000	21.930	-9.6	110	0.00
11	T	Acetone	40.000	37.908	5.2	105	0.00
12	T	Iodomethane	40.000	41.806	-4.5	88	0.00
13	T	Carbon disulfide	40.000	42.658	-6.6	96	0.00
14		Methyl acetate	20.000	18.150	9.3	104	-0.01
15	T	Vinyl acetate	40.000	40.610	-1.5	98	0.00
16	T	Methylene chloride	20.000	19.030	4.8	88	0.00
17	T	Acrylonitrile	20.000	19.861	0.7	108	0.00
18		Methyl tert-butyl ether	20.000	20.342	-1.7	95	0.00
19	T	trans-1,2-Dichloroethene	20.000	21.207	-6.0	92	-0.01
20	pcc	1,1-Dichloroethane	20.000	20.632	-3.2	88	0.00
21	T	2,2-Dichloropropane	20.000	23.465	-17.3	117	-0.01
22	T	cis-1,2-Dichloroethene	20.000	20.451	-2.3	87	0.00
23		2-Butanone	40.000	40.785	-2.0	107	0.00
24	T	Bromochloromethane	20.000	20.311	-1.6	90	0.00
25	ccc	Chloroform	20.000	20.854	-4.3	88	0.00
26		Cyclohexane	20.000	22.083	-10.4	108	0.00
27	T	1,1,1-Trichloroethane	20.000	22.063	-10.3	97	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	49.917	0.2	100	0.00
30	T	1,1-Dichloropropene	20.000	22.579	-12.9	100	0.00
31	T	Carbon tetrachloride	20.000	23.223	-16.1	101	0.00
32	M	Benzene	20.000	21.030	-5.2	88	0.00
33	T	1,2-Dichloroethane	20.000	20.581	-2.9	91	0.00
34	M	Trichloroethene	20.000	21.653	-8.3	91	0.00
35		Methylcyclohexane	20.000	24.612	-23.1#	110	0.00
36	ccc	1,2-Dichloropropane	20.000	20.902	-4.5	89	0.00
37	T	Dibromomethane	20.000	20.470	-2.3	92	0.00
38		1,4-Dioxane	200.000	187.365	6.3	120	0.00
39	T	Bromodichloromethane	20.000	20.933	-4.7	89	0.00
40	T	2-Chloroethyl vinyl ether	40.000	40.504	-1.3	95	0.00
41	T	cis-1,3-Dichloropropene	20.000	21.567	-7.8	92	0.00
42	T	4-Methyl-2-pentanone	40.000	40.656	-1.6	101	0.00
43	S	Toluene-d8	50.000	49.891	0.2	100	0.00
44	ccc	Toluene	20.000	21.282	-6.4	90	0.00
45	T	trans-1,3-Dichloropropene	20.000	21.523	-7.6	94	0.00
46	T	1,1,2-Trichloroethane	20.000	20.510	-2.6	92	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-16\New\Raw Data\211109\
Data File : V1636179.D
Acq On : 09 Nov 2021 11:00
Operator : CM
Sample : ICV 20 8260/624 (20uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 83 Sample Multiplier: 1

Quant Time: Nov 09 11:18:06 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 11:06:18 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
47	I	Chlorobenzene-d5	50.000	50.000	0.0	102	0.00
48	T	2-Hexanone	40.000	40.456	-1.1	101	0.00
49	T	Tetrachloroethene	20.000	22.102	-10.5	98	0.00
50	T	1,3-Dichloropropane	20.000	20.415	-2.1	92	0.00
51	T	Dibromochloromethane	20.000	21.120	-5.6	91	0.00
52	T	1,2-Dibromoethane	20.000	20.516	-2.6	94	0.00
53	pcc	Chlorobenzene	20.000	20.818	-4.1#	88	0.00
54	T	1,1,1,2-Tetrachloroethane	20.000	21.392	-7.0	88	0.00
55	ccc	Ethylbenzene	20.000	21.297	-6.5	91	0.00
56	T	m,p-Xylene	40.000	42.592	-6.5	90	0.00
57	T	o-Xylene	20.000	20.937	-4.7	88	0.00
58	T	Styrene	20.000	21.171	-5.9	88	0.00
59	pcc	Bromoform	20.000	17.823	10.9#	96	0.00
60	S	4-Bromofluorobenzene	50.000	49.278	1.4	101	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	20.000	21.073	-5.4	89	0.00
63	pcc	1,1,2,2-Tetrachloroethane	20.000	20.964	-4.8	99	0.00
64	T	1,2,3-Trichloropropane	20.000	21.061	-5.3	102	0.00
65	T	Isopropylbenzene	20.000	22.442	-12.2	93	0.00
66	T	n-Propylbenzene	20.000	22.373	-11.9	94	0.00
67	T	trans-1,4-Dichloro-2-butene	40.000	41.842	-4.6	109	0.00
68	T	2-Chlorotoluene	20.000	21.362	-6.8	89	0.00
69	T	4-Chlorotoluene	20.000	21.438	-7.2	89	0.00
70	T	1,3,5-Trimethylbenzene	20.000	21.848	-9.2	90	0.00
71	T	tert-Butylbenzene	20.000	22.624	-13.1	94	0.00
72	T	1,2,4-Trimethylbenzene	20.000	21.728	-8.6	89	0.00
73	T	sec-Butylbenzene	20.000	23.167	-15.8	96	0.00
74	T	1,3-Dichlorobenzene	20.000	21.260	-6.3	89	0.00
75	T	4-Isopropyltoluene	20.000	22.688	-13.4	94	0.00
76	T	1,4-Dichlorobenzene	20.000	20.983	-4.9	88	0.00
77	T	1,2-Dichlorobenzene	20.000	20.797	-4.0	88	0.00
78	T	n-Butylbenzene	20.000	22.695	-13.5	95	0.00
79	T	1,2-Dibromo-3-chloropropane	20.000	20.219	-1.1	104	0.00
80	T	1,2,4-Trichlorobenzene	20.000	19.255	3.7	82	0.00
81	T	Hexachlorobutadiene	20.000	20.351	-1.8	93	0.00
82	T	Naphthalene	20.000	18.408	8.0	90	0.00
83	T	1,2,3-Trichlorobenzene	20.000	18.618	6.9	79	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 2

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Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636151.D
Acq On : 08 Nov 2021 11:48
Operator : CM
Sample : ICAL 10 8260/624 (10uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Nov 09 10:50:54 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	6.169	168	1079897	50.00	ug/L	0.00
28) 1,4-Difluorobenzene	7.226	114	1528606	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.802	117	1416117	50.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.802	152	827820	50.00	ug/L	0.00
System Monitoring Compounds						
29) Dibromofluoromethane	6.091	113	508364	50.08	ug/L	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 100.16%			
43) Toluene-d8	9.191	98	1790631	50.16	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.32%			
60) 4-Bromofluorobenzene	11.876	95	688625	49.94	ug/L	0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 99.88%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.574	85	80190	9.75	ug/L	100
3) Chloromethane	1.741	50	67324	8.68	ug/L	99
4) Vinyl chloride	1.838	62	63702	9.36	ug/L	99
5) Bromomethane	2.127	94	42491	9.15	ug/L	99
6) Chloroethane	2.204	64	45492	10.31	ug/L	99
7) Trichlorofluoromethane	2.426	101	106222	9.68	ug/L #	99
8) Acrolein	2.818	56	9560	10.69	ug/L	86
9) 1,1-Dichloroethene	2.931	96	52845	9.52	ug/L	97
10) Freon-113	2.953	101	55088	9.71	µg/L	99
11) Acetone	2.969	58	13388	20.76	ug/L	98
12) Iodomethane	3.108	142	215750	18.62	ug/L	99
13) Carbon disulfide	3.182	76	268459	17.73	ug/L	100
14) Methyl acetate	3.313	43	54206	9.00	µg/L	97
15) Vinyl acetate	4.481	43	271428	19.41	ug/L	100
16) Methylene chloride	3.490	84	66019	9.30	ug/L	96
17) Acrylonitrile	3.783	53	24927	10.39	ug/L	97
18) Methyl tert-butyl ether	3.825	73	165192	9.75	µg/L	99
19) trans-1,2-Dichloroethene	3.834	96	58936	9.41	ug/L	99
20) 1,1-Dichloroethane	4.465	63	107011	9.43	ug/L	99
21) 2,2-Dichloropropane	5.349	77	65076	10.13	ug/L	96
22) cis-1,2-Dichloroethene	5.346	96	64699	9.34	ug/L	94
23) 2-Butanone	5.333	72	17536	19.95	µg/L	92
24) Bromochloromethane	5.693	128	34242	9.54	ug/L	98
25) Chloroform	5.866	83	110120	9.53	ug/L	99
26) Cyclohexane	6.181	56	107656	9.72	µg/L #	87
27) 1,1,1-Trichloroethane	6.082	97	97197	9.79	ug/L	99
30) 1,1-Dichloropropene	6.320	110	30795	9.47	ug/L	97
31) Carbon tetrachloride	6.307	119	85483	9.80	ug/L	99
32) Benzene	6.596	78	231878	9.36	ug/L	98
33) 1,2-Dichloroethane	6.677	62	82785	9.62	ug/L	97
34) Trichloroethene	7.532	130	65862	9.53	ug/L	97
35) Methylcyclohexane	7.847	55	72675	10.18	µg/L	99
36) 1,2-Dichloropropane	7.886	63	60636	9.38	ug/L	98
37) Dibromomethane	7.995	93	40263	9.48	ug/L	98
38) 1,4-Dioxane	7.995	88	4272	91.67	µg/L #	90
39) Bromodichloromethane	8.255	83	81491	9.56	ug/L	98
40) 2-Chloroethyl vinyl ether	8.661	63	86465	18.93	µg/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636151.D
Acq On : 08 Nov 2021 11:48
Operator : CM
Sample : ICAL 10 8260/624 (10uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Nov 09 10:50:54 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

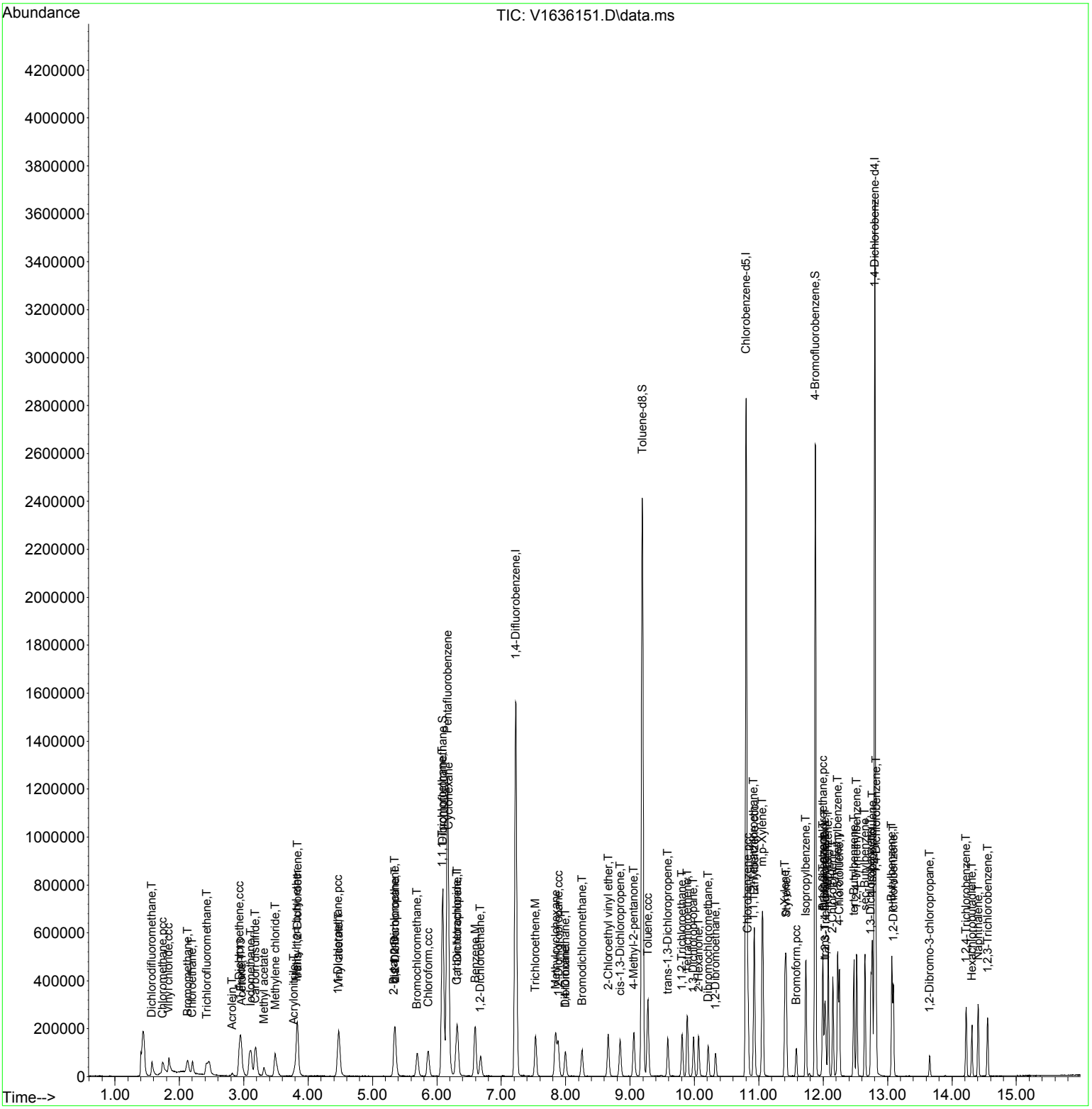
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) cis-1,3-Dichloropropene	8.847	75	97689	9.52	ug/L	99
42) 4-Methyl-2-pentanone	9.056	43	146354	19.39	ug/L	99
44) Toluene	9.278	92	146120	9.35	ug/L	99
45) trans-1,3-Dichloropropene	9.586	75	87104	9.62	ug/L	99
46) 1,1,2-Trichloroethane	9.808	83	46448	9.62	ug/L	97
48) 2-Hexanone	10.066	43	113066	20.07	ug/L	100
49) Tetrachloroethene	9.892	166	78770	9.65	ug/L	97
50) 1,3-Dichloropropane	9.985	76	91131	9.64	ug/L	100
51) Dibromochloromethane	10.214	129	61892	9.44	ug/L	99
52) 1,2-Dibromoethane	10.329	107	58687	9.51	ug/L	100
53) Chlorobenzene	10.831	112	168315	9.44	ug/L	98
54) 1,1,1,2-Tetrachloroethane	10.921	131	60883	9.67	ug/L	97
55) Ethylbenzene	10.934	91	277854	9.44	ug/L	98
56) m,p-Xylene	11.056	91	437289	19.05	ug/L	100
57) o-Xylene	11.406	91	217925	9.47	ug/L	99
58) Styrene	11.426	104	175966	9.46	ug/L	100
59) Bromoform	11.583	173	46344	8.30	ug/L	100
62) Bromobenzene	11.995	156	78466	9.37	ug/L	99
63) 1,1,2,2-Tetrachloroethane	11.995	83	78479	9.66	ug/L	98
64) 1,2,3-Trichloropropane	12.033	75	127904	9.07	ug/L	99
65) Isopropylbenzene	11.731	105	276000	9.80	ug/L	99
66) n-Propylbenzene	12.078	91	327843	9.82	ug/L	100
67) trans-1,4-Dichloro-2-b...	12.024	124	10028	15.64	ug/L	95
68) 2-Chlorotoluene	12.149	91	189879	9.45	ug/L	100
69) 4-Chlorotoluene	12.252	91	226527	9.50	ug/L	99
70) 1,3,5-Trimethylbenzene	12.226	105	225245	9.73	ug/L	99
71) tert-Butylbenzene	12.477	119	199543	9.87	ug/L	98
72) 1,2,4-Trimethylbenzene	12.519	105	226135	9.59	ug/L	99
73) sec-Butylbenzene	12.647	105	281616	9.99	ug/L	98
74) 1,3-Dichlorobenzene	12.741	146	138809	9.55	ug/L	98
75) 4-Isopropyltoluene	12.763	119	249554	9.94	ug/L	99
76) 1,4-Dichlorobenzene	12.821	146	143512	9.50	ug/L	98
77) 1,2-Dichlorobenzene	13.091	146	128515	9.68	ug/L	96
78) n-Butylbenzene	13.065	91	212816	10.05	ug/L	99
79) 1,2-Dibromo-3-chloropr...	13.657	75	15952	9.56	ug/L	96
80) 1,2,4-Trichlorobenzene	14.220	180	73291	10.29	ug/L	97
81) Hexachlorobutadiene	14.310	225	33577	9.92	ug/L	97
82) Naphthalene	14.406	128	186201	10.12	ug/L	100
83) 1,2,3-Trichlorobenzene	14.554	180	62033	10.83	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636151.D
Acq On : 08 Nov 2021 11:48
Operator : CM
Sample : ICAL 10 8260/624 (10uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Nov 09 10:50:54 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636161.D
Acq On : 08 Nov 2021 15:28
Operator : CM
Sample : ICAL 0.5 8260/624 (0.5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Nov 09 10:46:45 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	6.165	168	1045917	50.00	ug/L	0.00
28) 1,4-Difluorobenzene	7.223	114	1518724	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.805	117	1400827	50.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.802	152	789742	50.00	ug/L	0.00
System Monitoring Compounds						
29) Dibromofluoromethane	6.091	113	501362	49.71	ug/L	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 99.42%			
43) Toluene-d8	9.191	98	1755201	49.49	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 98.98%			
60) 4-Bromofluorobenzene	11.879	95	676556	49.60	ug/L	0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 99.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.571	85	4726	0.59	ug/L	97
3) Chloromethane	1.738	50	5118m	0.68	ug/L	
4) Vinyl chloride	1.831	62	4475	0.68	ug/L	98
5) Bromomethane	2.114	94	4313m	0.55	ug/L	
6) Chloroethane	2.201	64	2965	0.69	ug/L	96
7) Trichlorofluoromethane	2.426	101	6500	0.61	ug/L #	99
8) Acrolein	2.812	56	521	0.60	ug/L	98
9) 1,1-Dichloroethene	2.931	96	2258	0.42	ug/L	84
10) Freon-113	2.944	101	2186	0.40	µg/L #	81
11) Acetone	2.966	58	980	1.57	ug/L	71
12) Iodomethane	3.085	142	10161	0.91	ug/L	91
13) Carbon disulfide	3.169	76	12781	0.87	ug/L	100
14) Methyl acetate	3.304	43	3848	0.66	µg/L	94
15) Vinyl acetate	4.481	43	12285	0.91	ug/L	98
16) Methylene chloride	3.484	84	5245	0.76	ug/L	97
17) Acrylonitrile	3.793	53	1096	0.47	ug/L #	80
18) Methyl tert-butyl ether	3.825	73	8011	0.49	µg/L #	90
19) trans-1,2-Dichloroethene	3.831	96	2726	0.45	ug/L	90
20) 1,1-Dichloroethane	4.465	63	5290	0.48	ug/L	98
21) 2,2-Dichloropropane	5.346	77	3292	0.53	ug/L	95
22) cis-1,2-Dichloroethene	5.346	96	3051	0.45	ug/L	95
23) 2-Butanone	0.000		0	N.D.		
24) Bromochloromethane	5.696	128	1620	0.47	ug/L	77
25) Chloroform	5.863	83	5026	0.45	ug/L	99
26) Cyclohexane	6.165	56	20190	0.53	µg/L #	1
27) 1,1,1-Trichloroethane	6.085	97	4177	0.43	ug/L	91
30) 1,1-Dichloropropene	6.317	110	1362	0.42	ug/L	98
31) Carbon tetrachloride	6.300	119	3636	0.42	ug/L	99
32) Benzene	6.590	78	11660	0.47	ug/L	94
33) 1,2-Dichloroethane	6.680	62	3990	0.47	ug/L #	75
34) Trichloroethene	7.535	130	2936	0.43	ug/L	90
35) Methylcyclohexane	7.850	55	2970	0.42	µg/L	91
36) 1,2-Dichloropropane	7.886	63	2901	0.45	ug/L #	88
37) Dibromomethane	7.992	93	2017	0.48	ug/L	88
38) 1,4-Dioxane	0.000		0	N.D.		
39) Bromodichloromethane	8.249	83	3678	0.43	ug/L #	83
40) 2-Chloroethyl vinyl ether	8.667	63	3967	0.87	µg/L	90

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636161.D
Acq On : 08 Nov 2021 15:28
Operator : CM
Sample : ICAL 0.5 8260/624 (0.5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Nov 09 10:46:45 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

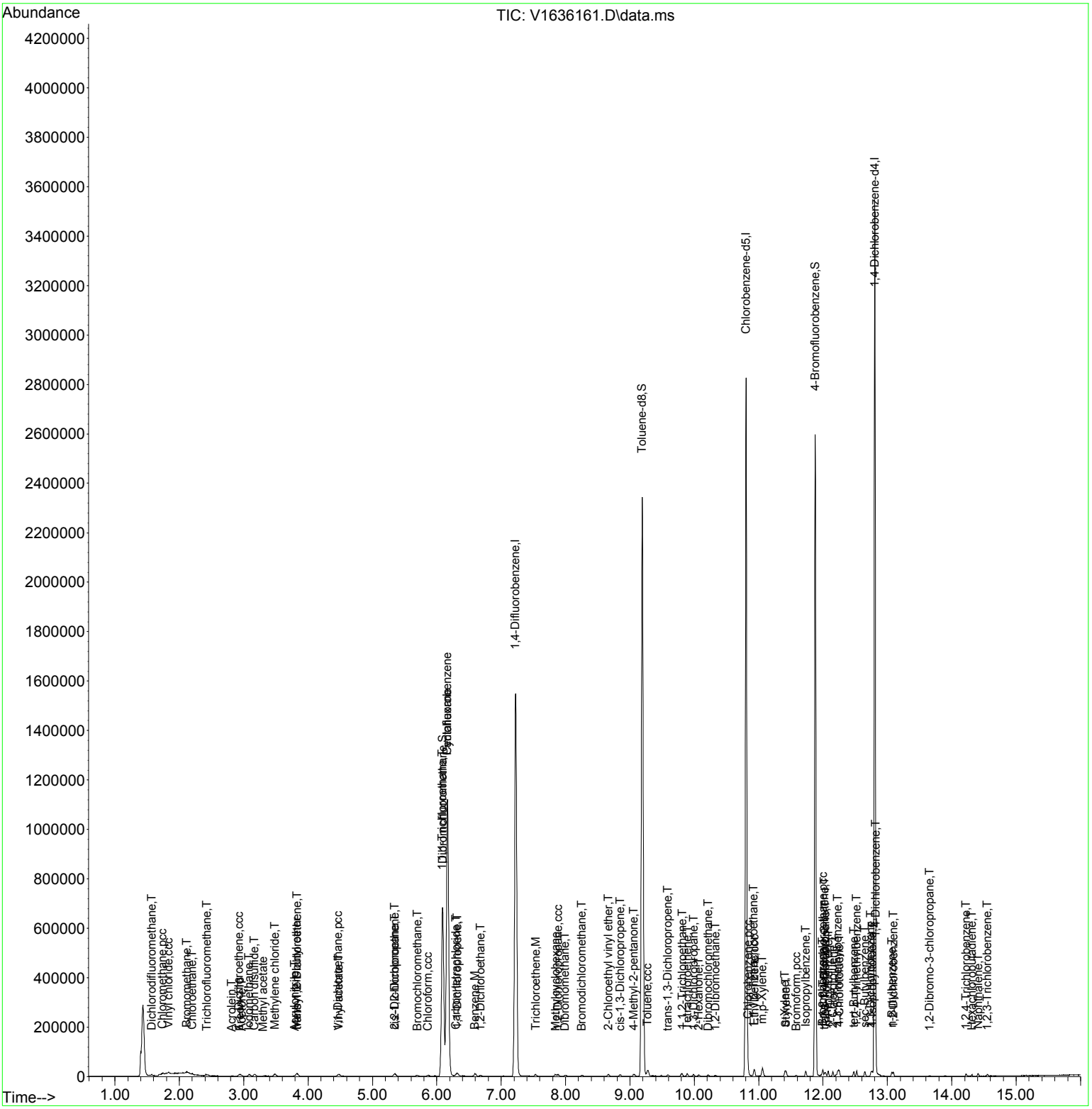
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) cis-1,3-Dichloropropene	8.850	75	4219	0.41 ug/L	95
42) 4-Methyl-2-pentanone	9.062	43	7436	0.99 ug/L	94
44) Toluene	9.275	92	7039	0.45 ug/L	88
45) trans-1,3-Dichloropropene	9.590	75	3655	0.41 ug/L	94
46) 1,1,2-Trichloroethane	9.812	83	2139	0.45 ug/L	93
48) 2-Hexanone	10.072	43	5286	0.95 ug/L	91
49) Tetrachloroethene	9.892	166	3435	0.43 ug/L	96
50) 1,3-Dichloropropane	9.988	76	4257	0.46 ug/L	86
51) Dibromochloromethane	10.217	129	2573	0.40 ug/L	98
52) 1,2-Dibromoethane	10.329	107	2713	0.44 ug/L #	99
53) Chlorobenzene	10.837	112	7904	0.45 ug/L	97
54) 1,1,1,2-Tetrachloroethane	10.921	131	2703	0.43 ug/L	95
55) Ethylbenzene	10.934	91	12936	0.44 ug/L	94
56) m,p-Xylene	11.059	91	20206	0.89 ug/L	94
57) o-Xylene	11.410	91	10087	0.44 ug/L	98
58) Styrene	11.426	104	7341	0.40 ug/L	99
59) Bromoform	11.583	173	1772	1.13 ug/L #	87
62) Bromobenzene	11.995	156	3652	0.46 ug/L	99
63) 1,1,2,2-Tetrachloroethane	11.998	83	3493	0.45 ug/L	100
64) 1,2,3-Trichloropropane	12.037	75	7183	0.53 ug/L	83
65) Isopropylbenzene	11.731	105	11613	0.43 ug/L	98
66) n-Propylbenzene	12.082	91	13816	0.43 ug/L	95
67) trans-1,4-Dichloro-2-b...	12.021	124	363	0.59 ug/L #	67
68) 2-Chlorotoluene	12.156	91	8896	0.46 ug/L	100
69) 4-Chlorotoluene	12.255	91	10040	0.44 ug/L	94
70) 1,3,5-Trimethylbenzene	12.226	105	9550	0.43 ug/L	94
71) tert-Butylbenzene	12.480	119	8172	0.42 ug/L	96
72) 1,2,4-Trimethylbenzene	12.522	105	9640	0.43 ug/L	95
73) sec-Butylbenzene	12.651	105	10938	0.41 ug/L	96
74) 1,3-Dichlorobenzene	12.744	146	6062	0.44 ug/L	97
75) 4-Isopropyltoluene	12.766	119	9887	0.41 ug/L	96
76) 1,4-Dichlorobenzene	12.821	146	6585m	0.46 ug/L	
77) 1,2-Dichlorobenzene	13.091	146	5399	0.43 ug/L	94
78) n-Butylbenzene	13.069	91	7585	0.38 ug/L	97
79) 1,2-Dibromo-3-chloropr...	13.654	75	655	0.41 ug/L	78
80) 1,2,4-Trichlorobenzene	14.220	180	2838	0.42 ug/L	91
81) Hexachlorobutadiene	14.313	225	1235	0.38 ug/L	89
82) Naphthalene	14.409	128	6974	0.40 ug/L	100
83) 1,2,3-Trichlorobenzene	14.554	180	2292	0.42 ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636161.D
Acq On : 08 Nov 2021 15:28
Operator : CM
Sample : ICAL 0.5 8260/624 (0.5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 66 Sample Multiplier: 1

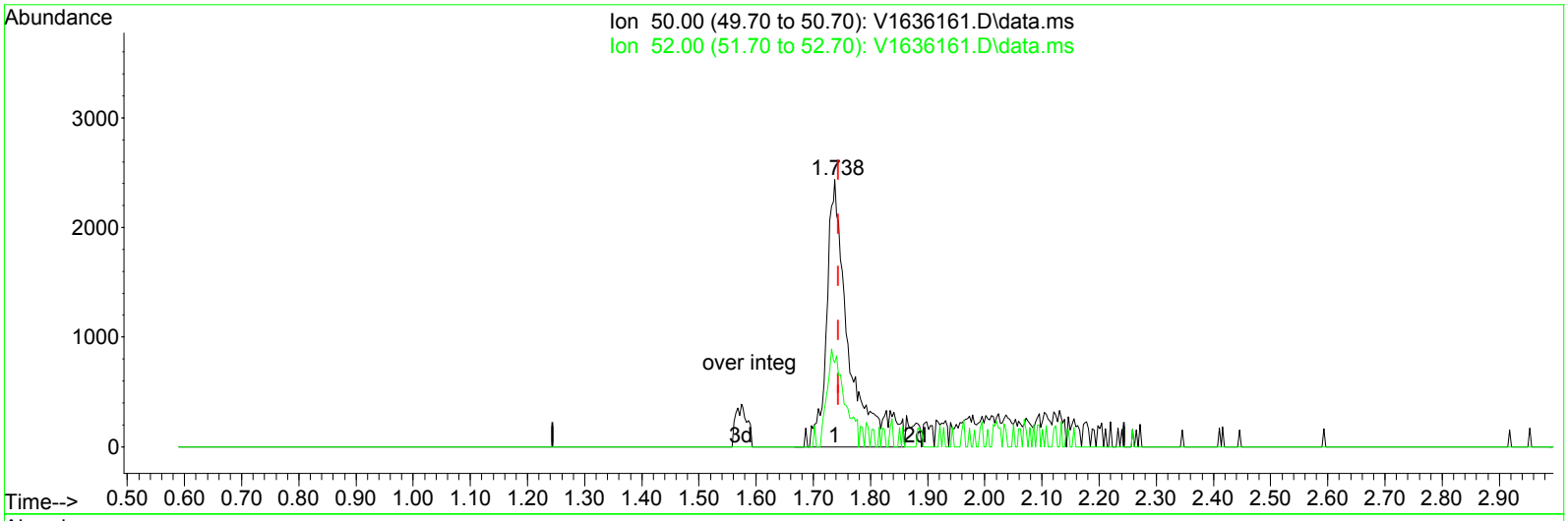
Quant Time: Nov 09 10:46:45 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

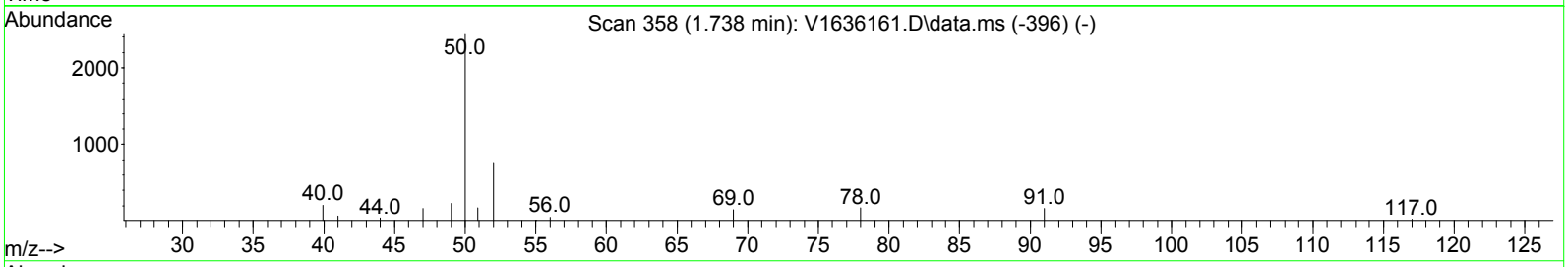


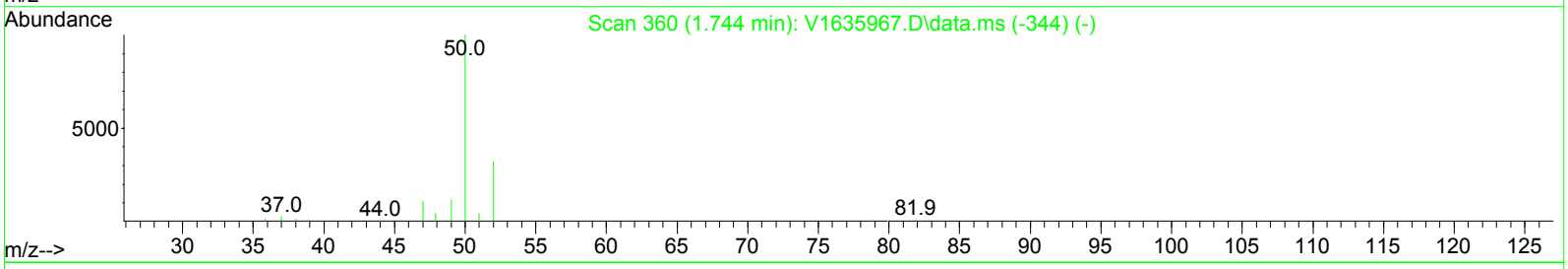
Quantitation Report (Qedit)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636161.D
Acq On : 08 Nov 2021 15:28
Operator : CM
Sample : ICAL 0.5 8260/624 (0.5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Nov 09 10:46:45 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration







TIC: V1636161.D\data.ms

(3) Chloromethane (pcc)

1.738min (-0.006) 0.90 ug/L

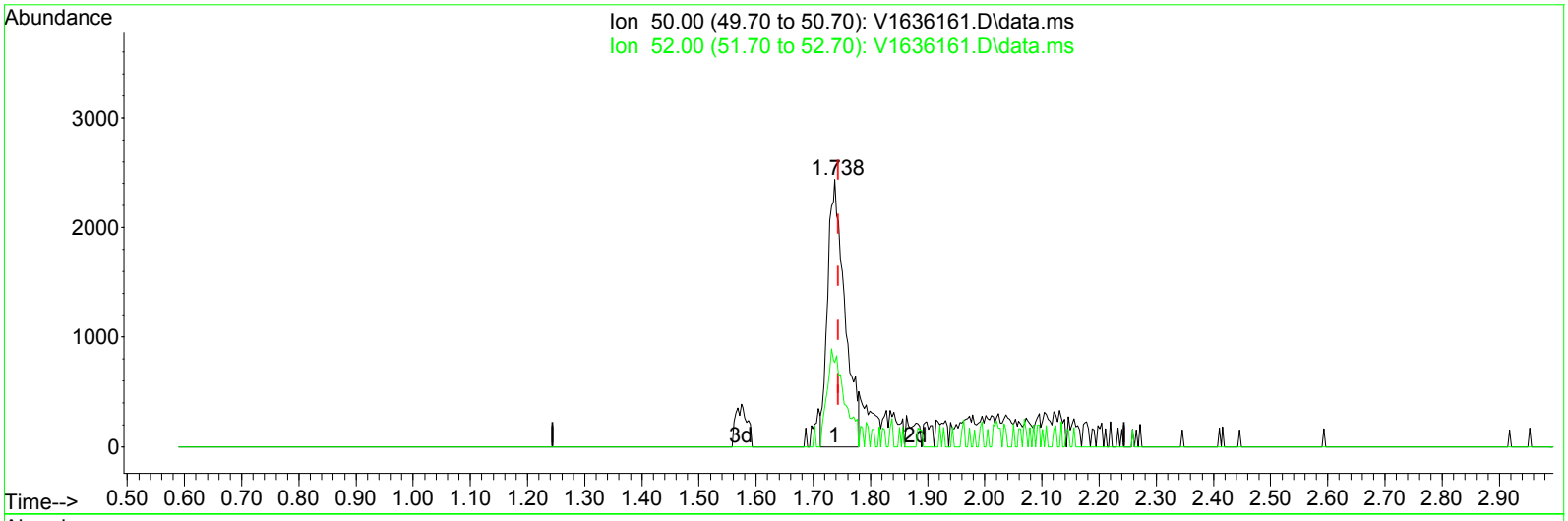
response 6735

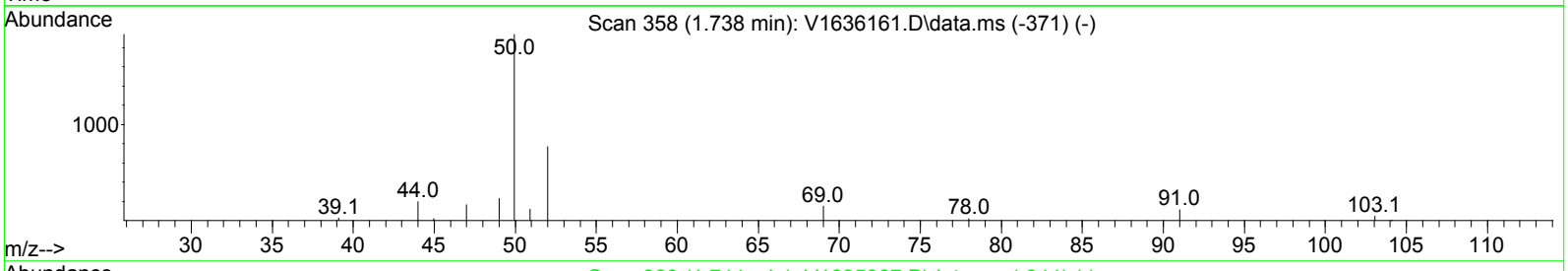
Ion	Exp%	Act%
50.00	100.00	100.00
52.00	33.20	31.54
0.00	0.00	0.00
0.00	0.00	0.00

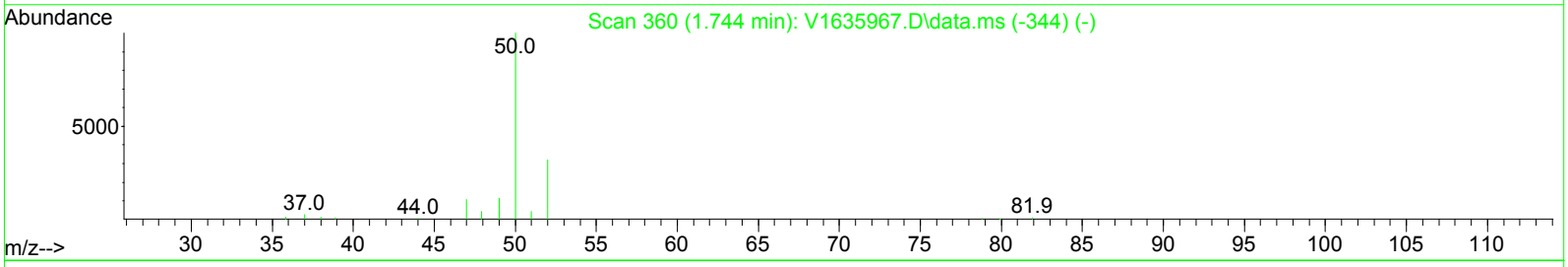
Quantitation Report (Qedit)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636161.D
Acq On : 08 Nov 2021 15:28
Operator : CM
Sample : ICAL 0.5 8260/624 (0.5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Nov 09 10:46:45 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration







TIC: V1636161.D\data.ms

(3) Chloromethane (pcc)

1.738min (-0.006) 0.68 ug/L m

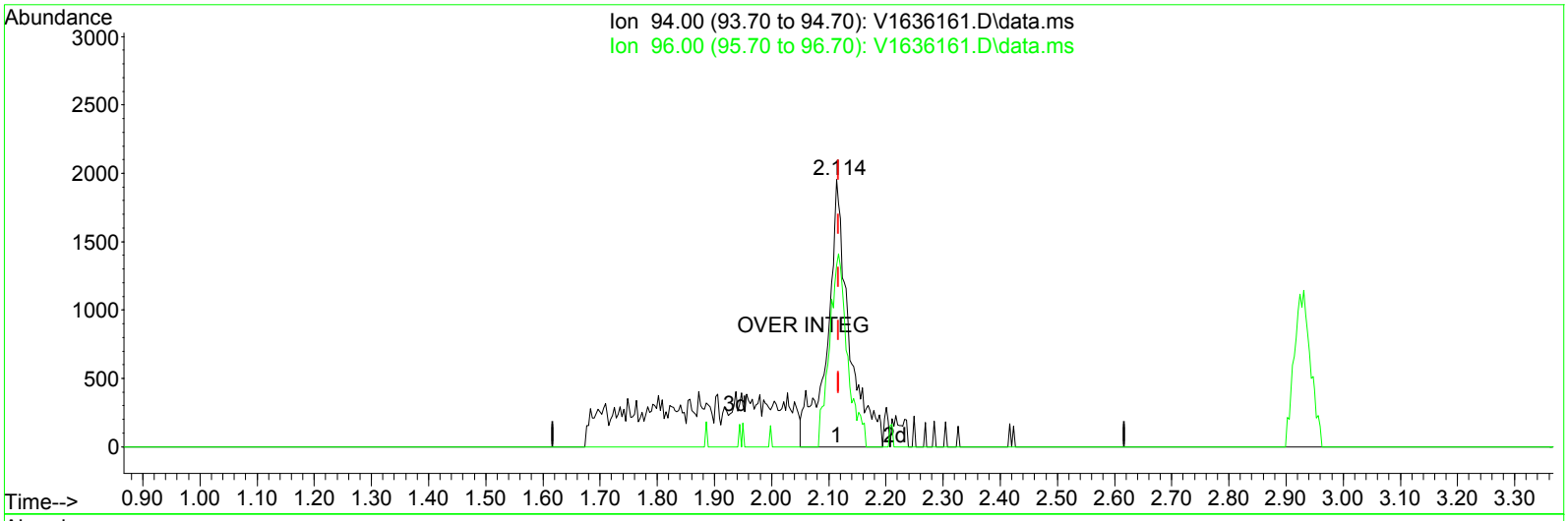
response 5118

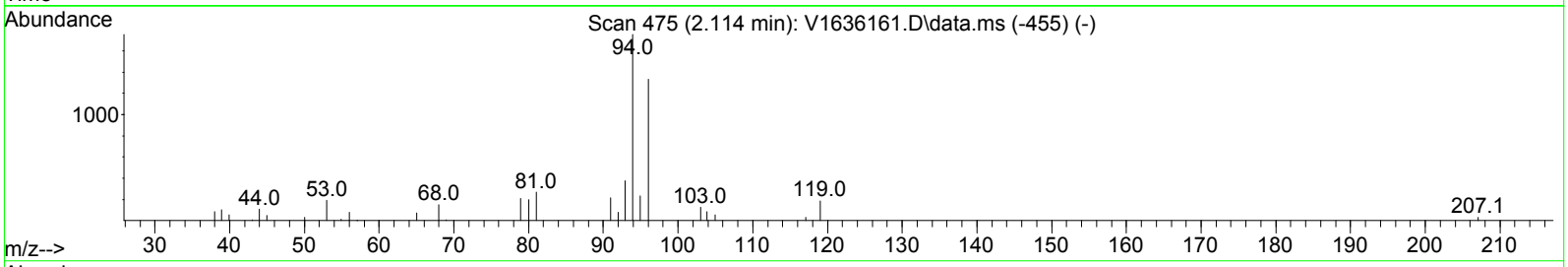
Ion	Exp%	Act%
50.00	100.00	100.00
52.00	33.20	31.54
0.00	0.00	0.00
0.00	0.00	0.00

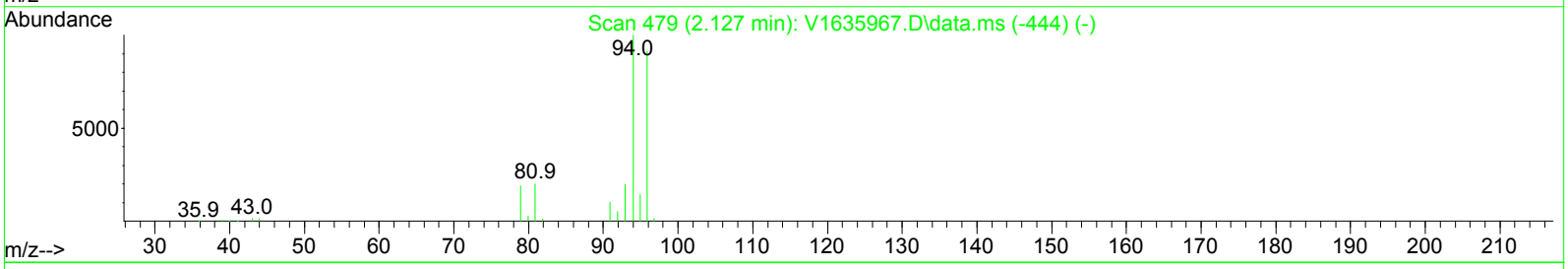
Quantitation Report (Qedit)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636161.D
Acq On : 08 Nov 2021 15:28
Operator : CM
Sample : ICAL 0.5 8260/624 (0.5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Nov 09 10:46:45 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration







TIC: V1636161.D\data.ms

(5) Bromomethane (T)

2.114min (-0.003) 0.77 ug/L

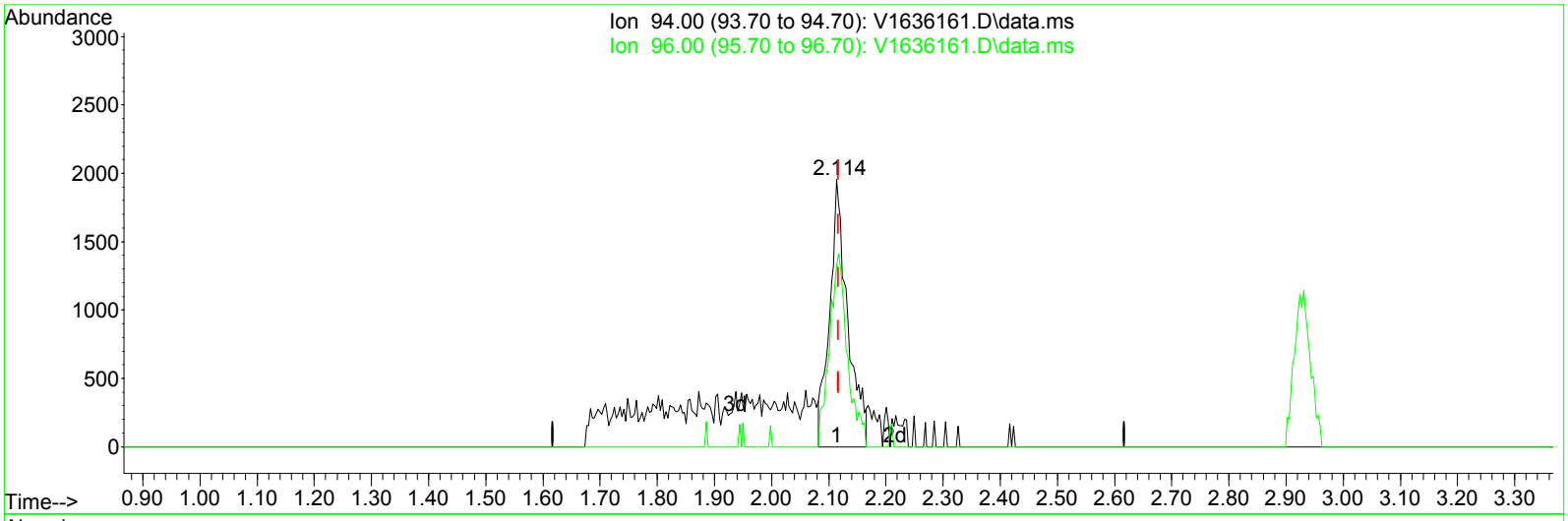
response 5280

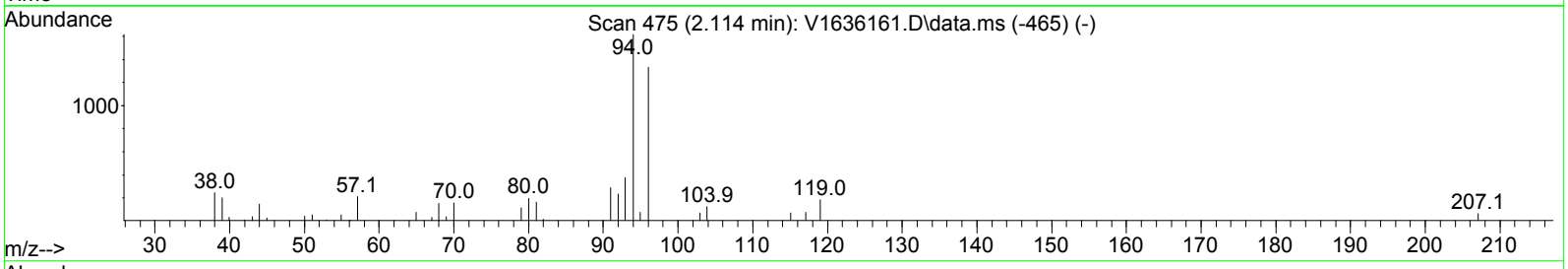
Ion	Exp%	Act%
94.00	100.00	100.00
96.00	92.00	68.14
0.00	0.00	0.00
0.00	0.00	0.00

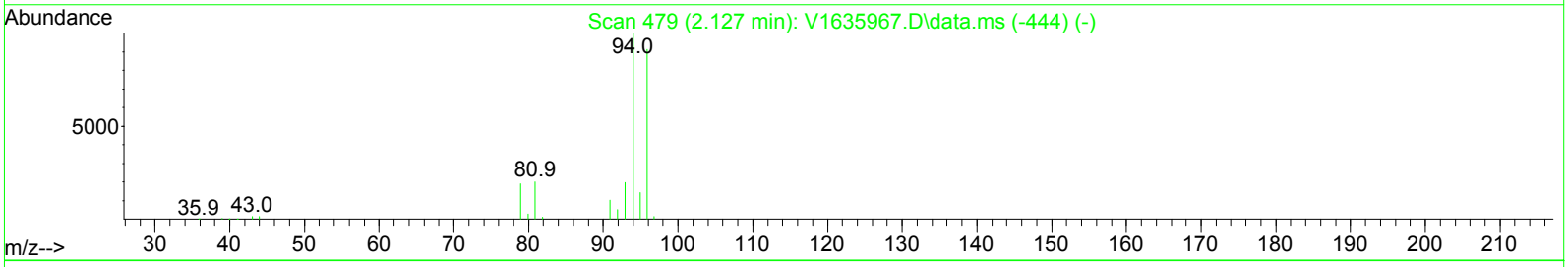
Quantitation Report (Qedit)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636161.D
Acq On : 08 Nov 2021 15:28
Operator : CM
Sample : ICAL 0.5 8260/624 (0.5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Nov 09 10:46:45 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration







TIC: V1636161.D\data.ms

(5) Bromomethane (T)

2.114min (-0.003) 0.55 ug/L m

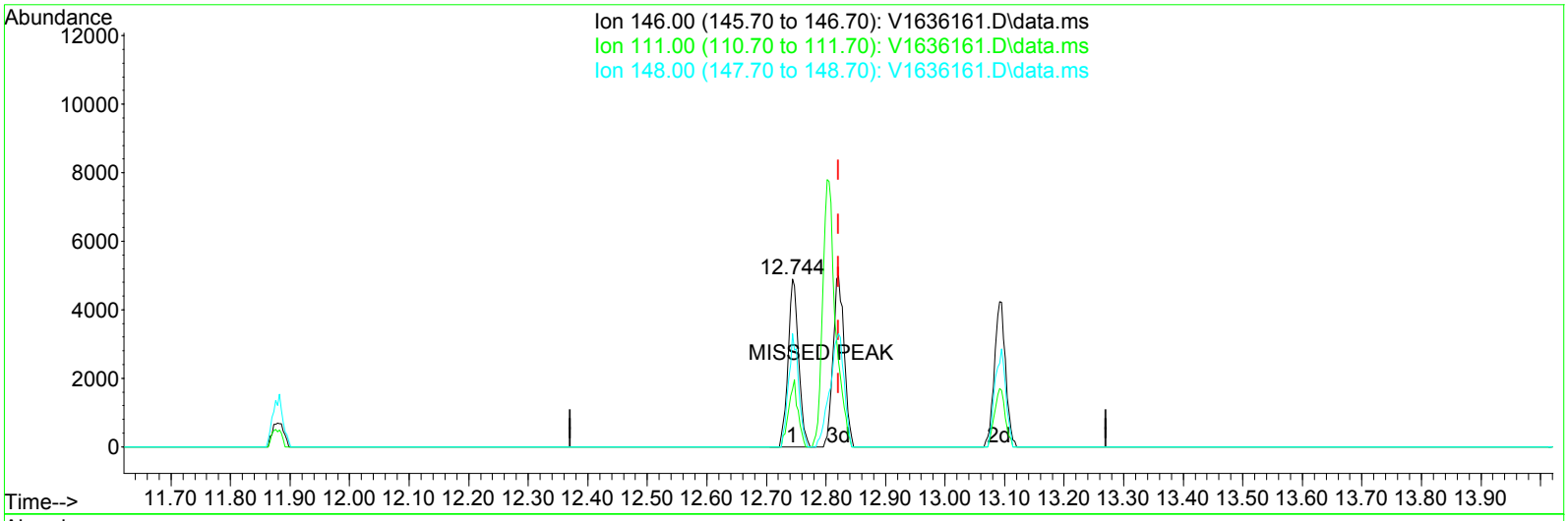
response 4313

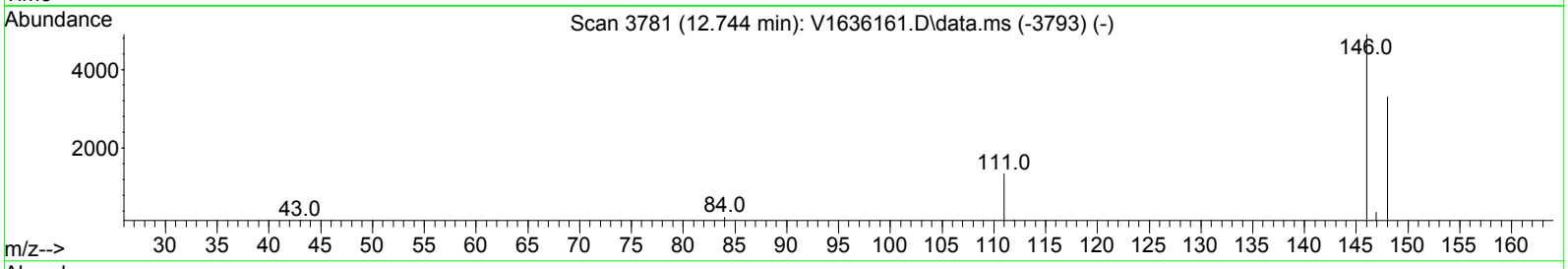
Ion	Exp%	Act%
94.00	100.00	100.00
96.00	92.00	68.14
0.00	0.00	0.00
0.00	0.00	0.00

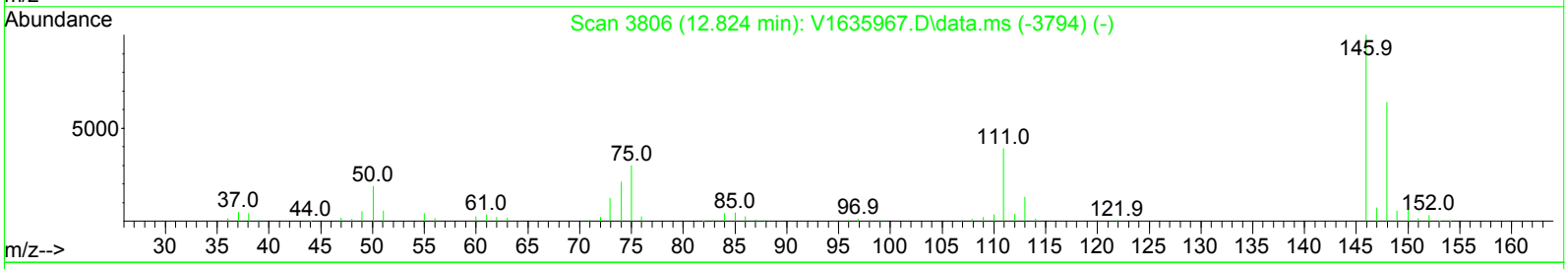
Quantitation Report (Qedit)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636161.D
Acq On : 08 Nov 2021 15:28
Operator : CM
Sample : ICAL 0.5 8260/624 (0.5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Nov 09 10:46:45 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration







TIC: V1636161.D\data.ms

(76) 1,4-Dichlorobenzene (T)

12.744min (-0.077) 0.42 ug/L

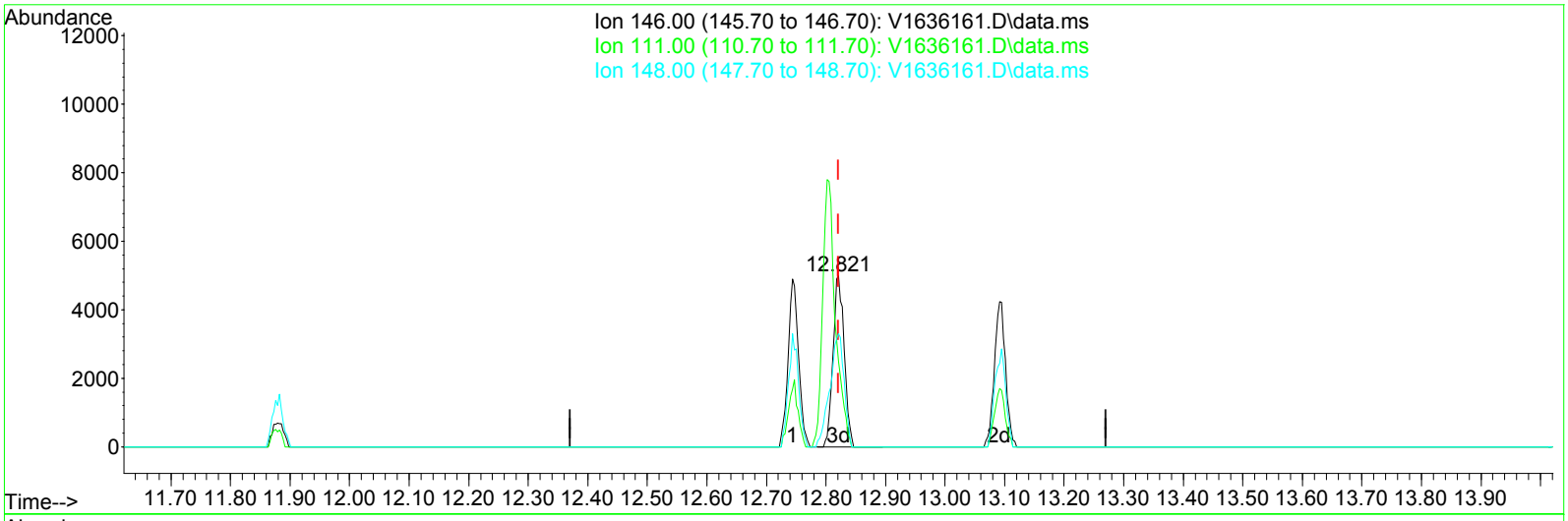
response 6062

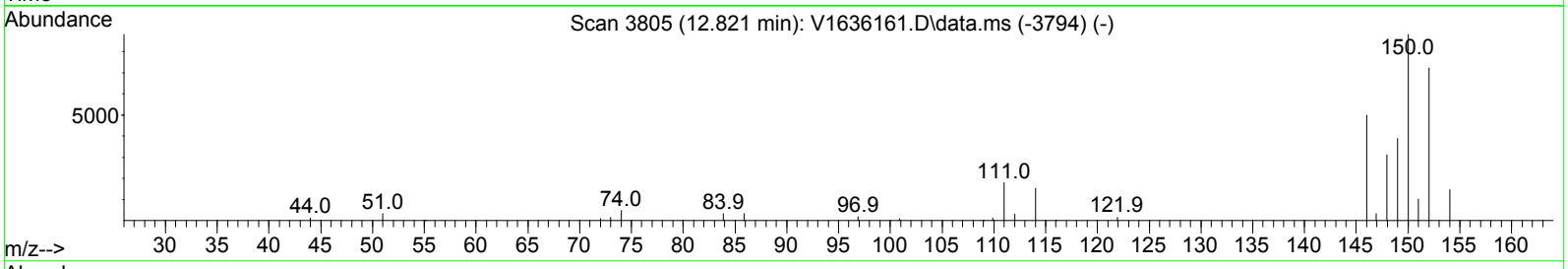
Ion	Exp%	Act%
146.00	100.00	100.00
111.00	35.60	34.27
148.00	64.10	67.44
0.00	0.00	0.00

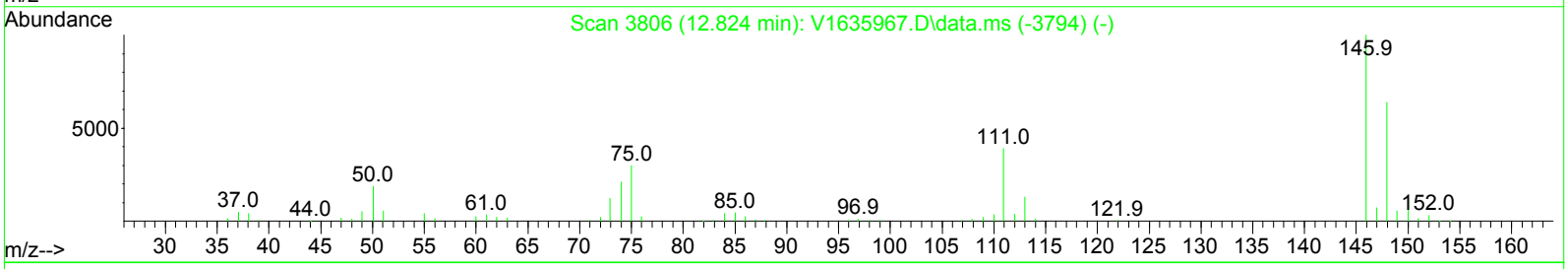
Quantitation Report (Qedit)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636161.D
Acq On : 08 Nov 2021 15:28
Operator : CM
Sample : ICAL 0.5 8260/624 (0.5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Nov 09 10:46:45 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration







TIC: V1636161.D\data.ms

(76) 1,4-Dichlorobenzene (T)

12.821min (+ 0.000) 0.46 ug/L m

response 6585

Ion	Exp%	Act%
146.00	100.00	100.00
111.00	35.60	49.97#
148.00	64.10	66.04
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636162.D
Acq On : 08 Nov 2021 15:49
Operator : CM
Sample : ICAL 1 8260/624 (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 67 Sample Multiplier: 1

Quant Time: Nov 09 10:49:14 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	6.165	168	1034841	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	7.226	114	1497368	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.805	117	1384297	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	12.805	152	795950	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	6.088	113	492913	49.57	ug/L		0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 99.14%				
43) Toluene-d8	9.191	98	1739554	49.74	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.48%				
60) 4-Bromofluorobenzene	11.879	95	671572	49.83	ug/L		0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 99.66%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.571	85	7102	0.90	ug/L		99
3) Chloromethane	1.741	50	8168	1.10	ug/L		97
4) Vinyl chloride	1.834	62	5966	0.91	ug/L		92
5) Bromomethane	2.124	94	5602	0.86	ug/L		79
6) Chloroethane	2.211	64	4408	1.04	ug/L		92
7) Trichlorofluoromethane	2.436	101	9118	0.87	ug/L	#	92
8) Acrolein	2.818	56	929	1.08	ug/L		81
9) 1,1-Dichloroethene	2.928	96	5233	0.98	ug/L		88
10) Freon-113	2.957	101	5116	0.94	µg/L	#	87
11) Acetone	2.966	58	1645	2.66	ug/L		81
12) Iodomethane	3.082	142	21078	1.90	ug/L		99
13) Carbon disulfide	3.169	76	26102	1.80	ug/L		100
14) Methyl acetate	3.317	43	6587	1.14	µg/L		96
15) Vinyl acetate	4.481	43	25176	1.88	ug/L	#	93
16) Methylene chloride	3.481	84	8046	1.18	ug/L		97
17) Acrylonitrile	3.780	53	2080	0.90	ug/L		85
18) Methyl tert-butyl ether	3.818	73	15175	0.93	µg/L		95
19) trans-1,2-Dichloroethene	3.831	96	5773	0.96	ug/L		89
20) 1,1-Dichloroethane	4.468	63	10261	0.94	ug/L		99
21) 2,2-Dichloropropane	5.349	77	6366	1.03	ug/L		90
22) cis-1,2-Dichloroethene	5.355	96	6362	0.96	ug/L		86
23) 2-Butanone	5.345	72	1392m	1.65	µg/L		
24) Bromochloromethane	5.690	128	3290	0.96	ug/L		88
25) Chloroform	5.866	83	10338	0.93	ug/L		92
26) Cyclohexane	6.172	56	23864	0.96	µg/L	#	8
27) 1,1,1-Trichloroethane	6.085	97	8731	0.92	ug/L		90
30) 1,1-Dichloropropene	6.313	110	2780	0.87	ug/L		98
31) Carbon tetrachloride	6.300	119	7499	0.88	ug/L		97
32) Benzene	6.593	78	23515	0.97	ug/L		100
33) 1,2-Dichloroethane	6.680	62	8322	0.99	ug/L		96
34) Trichloroethene	7.532	130	6218	0.92	ug/L		90
35) Methylcyclohexane	7.841	55	6036	0.86	µg/L		93
36) 1,2-Dichloropropane	7.879	63	5945	0.94	ug/L	#	88
37) Dibromomethane	7.995	93	3843	0.92	ug/L		91
38) 1,4-Dioxane	0.000		0	N.D.			
39) Bromodichloromethane	8.255	83	7261	0.87	ug/L		97
40) 2-Chloroethyl vinyl ether	8.660	63	8073	1.80	µg/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636162.D
Acq On : 08 Nov 2021 15:49
Operator : CM
Sample : ICAL 1 8260/624 (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 67 Sample Multiplier: 1

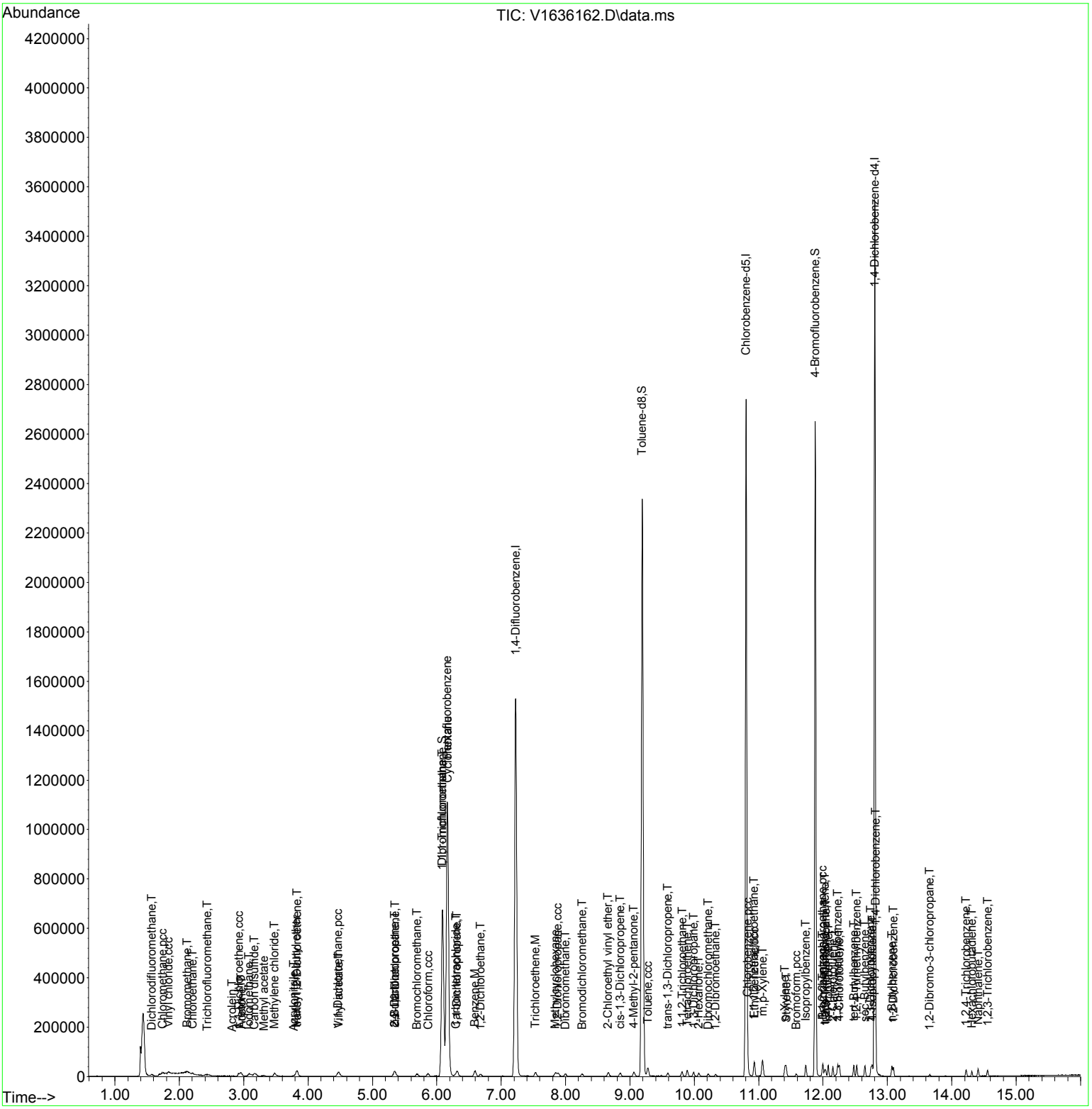
Quant Time: Nov 09 10:49:14 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) cis-1,3-Dichloropropene	8.847	75	8718	0.87	ug/L		95
42) 4-Methyl-2-pentanone	9.062	43	14102	1.91	ug/L		98
44) Toluene	9.278	92	14168	0.93	ug/L		100
45) trans-1,3-Dichloropropene	9.590	75	7380	0.83	ug/L		95
46) 1,1,2-Trichloroethane	9.812	83	4398	0.93	ug/L		98
48) 2-Hexanone	10.069	43	10039	1.82	ug/L		92
49) Tetrachloroethene	9.889	166	7603	0.95	ug/L		98
50) 1,3-Dichloropropane	9.992	76	8589	0.93	ug/L		94
51) Dibromochloromethane	10.220	129	5239	0.82	ug/L		100
52) 1,2-Dibromoethane	10.332	107	5534	0.92	ug/L	#	96
53) Chlorobenzene	10.831	112	16283	0.93	ug/L		98
54) 1,1,1,2-Tetrachloroethane	10.927	131	5098	0.83	ug/L		99
55) Ethylbenzene	10.934	91	26074	0.91	ug/L		98
56) m,p-Xylene	11.062	91	40782	1.82	ug/L		99
57) o-Xylene	11.410	91	20228	0.90	ug/L		100
58) Styrene	11.429	104	15331	0.84	ug/L		97
59) Bromoform	11.586	173	3514	1.42	ug/L		97
62) Bromobenzene	11.995	156	7416	0.92	ug/L		96
63) 1,1,2,2-Tetrachloroethane	11.995	83	7010	0.90	ug/L		87
64) 1,2,3-Trichloropropane	12.040	75	12559	0.93	ug/L		95
65) Isopropylbenzene	11.731	105	24428	0.90	ug/L		99
66) n-Propylbenzene	12.082	91	28838	0.90	ug/L		98
67) trans-1,4-Dichloro-2-b...	12.030	124	617	1.00	ug/L		71
68) 2-Chlorotoluene	12.152	91	17996	0.93	ug/L		96
69) 4-Chlorotoluene	12.252	91	21484	0.94	ug/L		98
70) 1,3,5-Trimethylbenzene	12.226	105	19872	0.89	ug/L		95
71) tert-Butylbenzene	12.477	119	17479	0.90	ug/L		97
72) 1,2,4-Trimethylbenzene	12.522	105	20401	0.90	ug/L		97
73) sec-Butylbenzene	12.651	105	23475	0.87	ug/L		99
74) 1,3-Dichlorobenzene	12.744	146	12732	0.91	ug/L		98
75) 4-Isopropyltoluene	12.766	119	20669	0.86	ug/L		98
76) 1,4-Dichlorobenzene	12.821	146	13831	0.95	ug/L		95
77) 1,2-Dichlorobenzene	13.091	146	11781	0.92	ug/L		97
78) n-Butylbenzene	13.069	91	17053	0.84	ug/L		97
79) 1,2-Dibromo-3-chloropr...	13.657	75	1319	0.82	ug/L		82
80) 1,2,4-Trichlorobenzene	14.223	180	6887	1.01	ug/L		98
81) Hexachlorobutadiene	14.313	225	3004	0.92	ug/L		96
82) Naphthalene	14.409	128	17650	1.00	ug/L		100
83) 1,2,3-Trichlorobenzene	14.557	180	6151	1.12	ug/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636162.D
Acq On : 08 Nov 2021 15:49
Operator : CM
Sample : ICAL 1 8260/624 (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 67 Sample Multiplier: 1

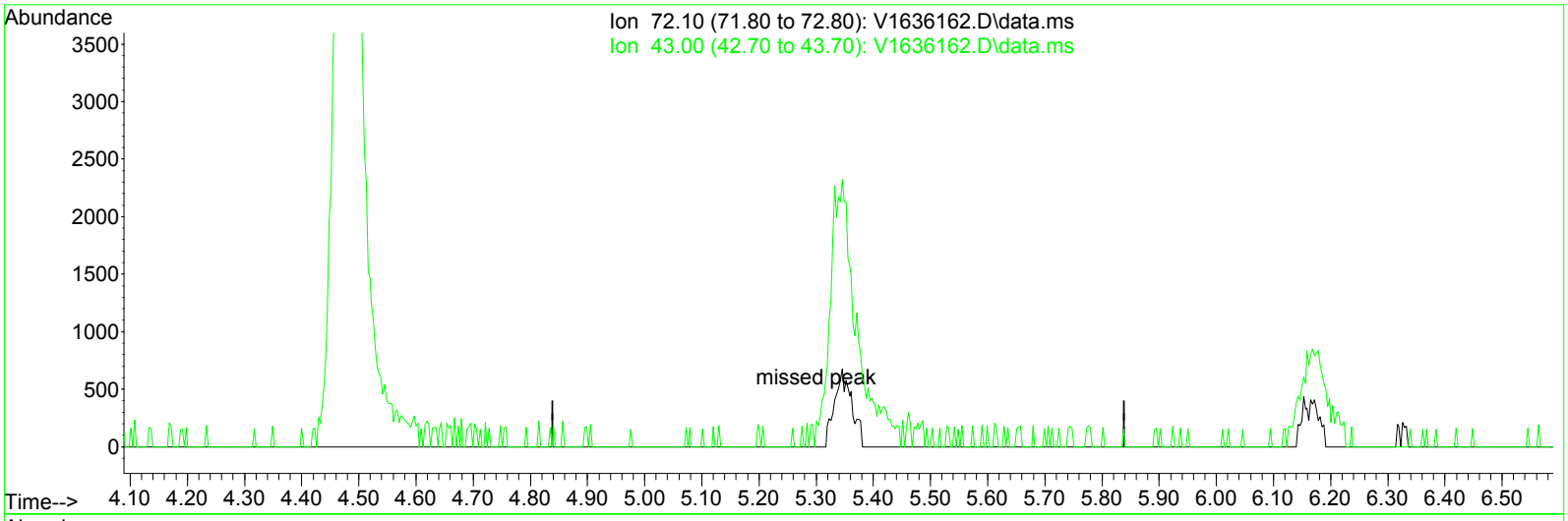
Quant Time: Nov 09 10:49:14 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

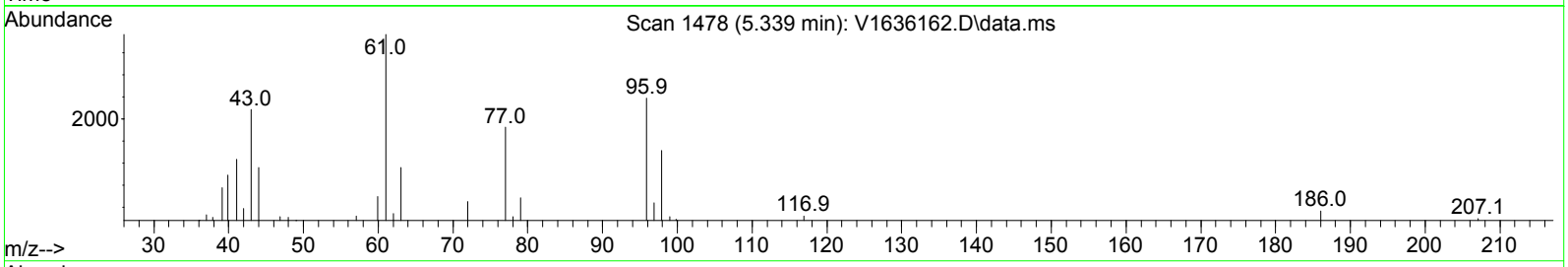


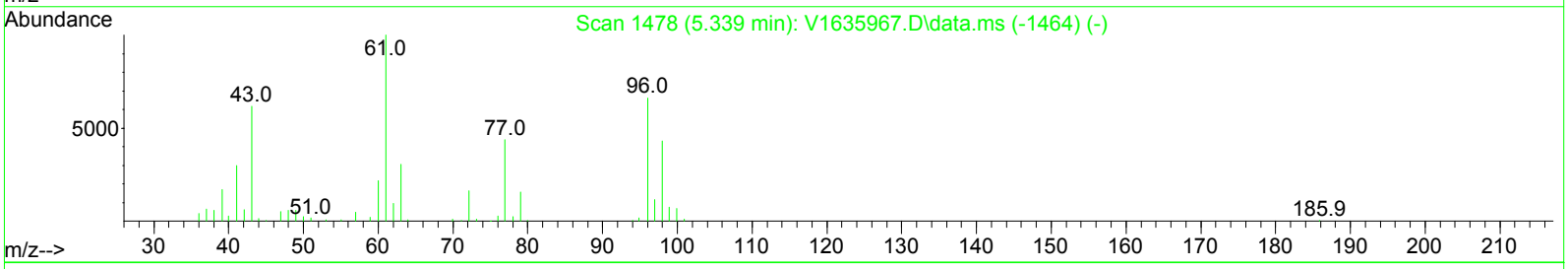
Quantitation Report (Qedit)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636162.D
Acq On : 08 Nov 2021 15:49
Operator : CM
Sample : ICAL 1 8260/624 (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 67 Sample Multiplier: 1

Quant Time: Nov 09 10:49:14 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration







TIC: V1636162.D\data.ms

(23) 2-Butanone

5.339min (-5.339) 0.00 µg/L

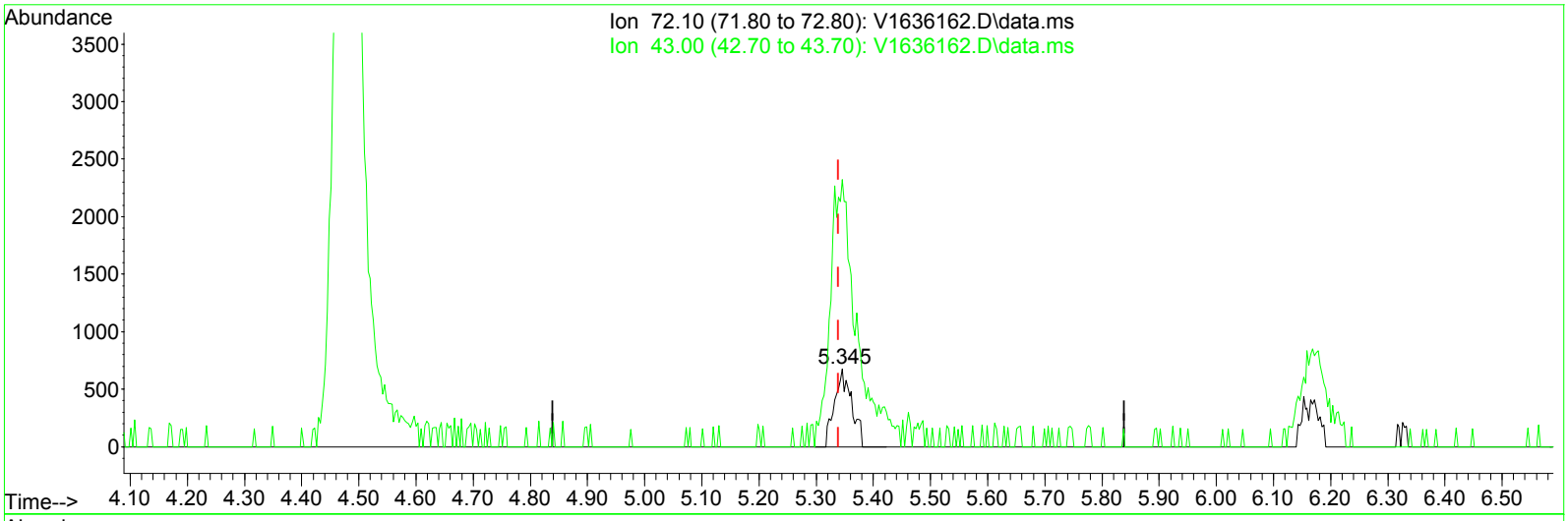
response 0

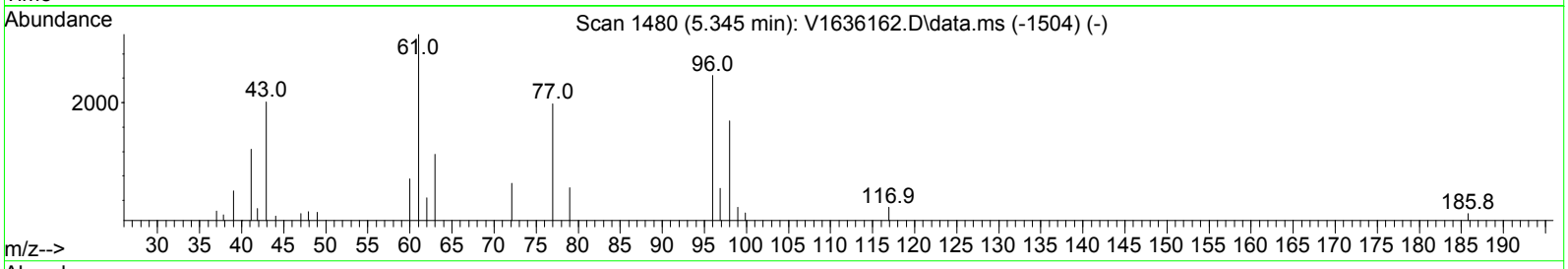
Ion	Exp%	Act%
72.10	100.00	0.00
43.00	387.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

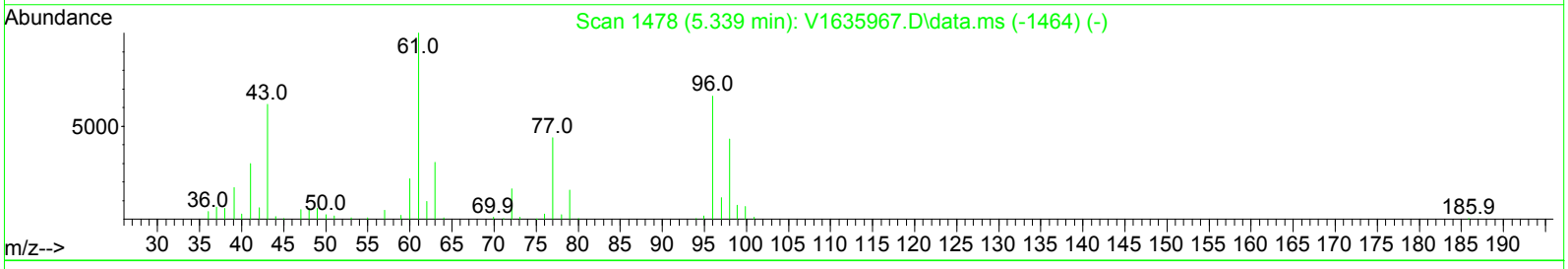
Quantitation Report (Qedit)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636162.D
Acq On : 08 Nov 2021 15:49
Operator : CM
Sample : ICAL 1 8260/624 (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 67 Sample Multiplier: 1

Quant Time: Nov 09 10:49:14 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration







TIC: V1636162.D\data.ms

(23) 2-Butanone

5.345min (+ 0.006) 1.65 µg/L m

response 1392

Ion	Exp%	Act%
72.10	100.00	100.00
43.00	387.80	342.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636163.D
Acq On : 08 Nov 2021 16:11
Operator : CM
Sample : ICAL 2 8260/624 (2uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Nov 09 10:50:04 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	6.165	168	1052107	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	7.226	114	1519522	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.805	117	1406139	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	12.802	152	788662	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	6.091	113	501624	49.71	ug/L		0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 99.42%				
43) Toluene-d8	9.191	98	1781044	50.19	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.38%				
60) 4-Bromofluorobenzene	11.879	95	676765	49.43	ug/L		0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 98.86%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.574	85	15604	1.95	ug/L		98
3) Chloromethane	1.741	50	15538	2.06	ug/L		90
4) Vinyl chloride	1.834	62	12940	1.95	ug/L		94
5) Bromomethane	2.120	94	10437	1.96	ug/L		94
6) Chloroethane	2.201	64	9177	2.14	ug/L		98
7) Trichlorofluoromethane	2.429	101	19131	1.79	ug/L	#	97
8) Acrolein	2.818	56	1584	1.82	ug/L		77
9) 1,1-Dichloroethene	2.931	96	10306	1.90	ug/L		91
10) Freon-113	2.950	101	10357	1.87	µg/L		93
11) Acetone	2.969	58	2315	3.68	ug/L		66
12) Iodomethane	3.104	142	43047	3.81	ug/L		96
13) Carbon disulfide	3.178	76	53119	3.60	ug/L		100
14) Methyl acetate	3.307	43	12125	2.07	µg/L		93
15) Vinyl acetate	4.480	43	51025	3.75	ug/L		99
16) Methylene chloride	3.493	84	14529	2.10	ug/L		97
17) Acrylonitrile	3.783	53	4134	1.77	ug/L		91
18) Methyl tert-butyl ether	3.828	73	31591	1.91	µg/L		99
19) trans-1,2-Dichloroethene	3.831	96	11311	1.85	ug/L		96
20) 1,1-Dichloroethane	4.468	63	21139	1.91	ug/L		97
21) 2,2-Dichloropropane	5.352	77	12639	2.02	ug/L		95
22) cis-1,2-Dichloroethene	5.349	96	12634	1.87	ug/L		93
23) 2-Butanone	5.349	72	2771	3.24	µg/L		90
24) Bromochloromethane	5.689	128	6467	1.85	ug/L		94
25) Chloroform	5.866	83	21077	1.87	ug/L		99
26) Cyclohexane	6.175	56	33229	1.93	µg/L	#	30
27) 1,1,1-Trichloroethane	6.091	97	18607	1.92	ug/L		95
30) 1,1-Dichloropropene	6.323	110	6328	1.96	ug/L		79
31) Carbon tetrachloride	6.310	119	15982	1.84	ug/L		86
32) Benzene	6.596	78	45693	1.86	ug/L		99
33) 1,2-Dichloroethane	6.676	62	16089	1.88	ug/L		96
34) Trichloroethene	7.538	130	12784	1.86	ug/L		91
35) Methylcyclohexane	7.847	55	13297	1.87	µg/L		98
36) 1,2-Dichloropropane	7.889	63	12066	1.88	ug/L		97
37) Dibromomethane	8.001	93	7975	1.89	ug/L		97
38) 1,4-Dioxane	0.000		0	N.D.			
39) Bromodichloromethane	8.258	83	14697	1.73	ug/L		95
40) 2-Chloroethyl vinyl ether	8.660	63	16069	3.54	µg/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636163.D
Acq On : 08 Nov 2021 16:11
Operator : CM
Sample : ICAL 2 8260/624 (2uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Nov 09 10:50:04 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

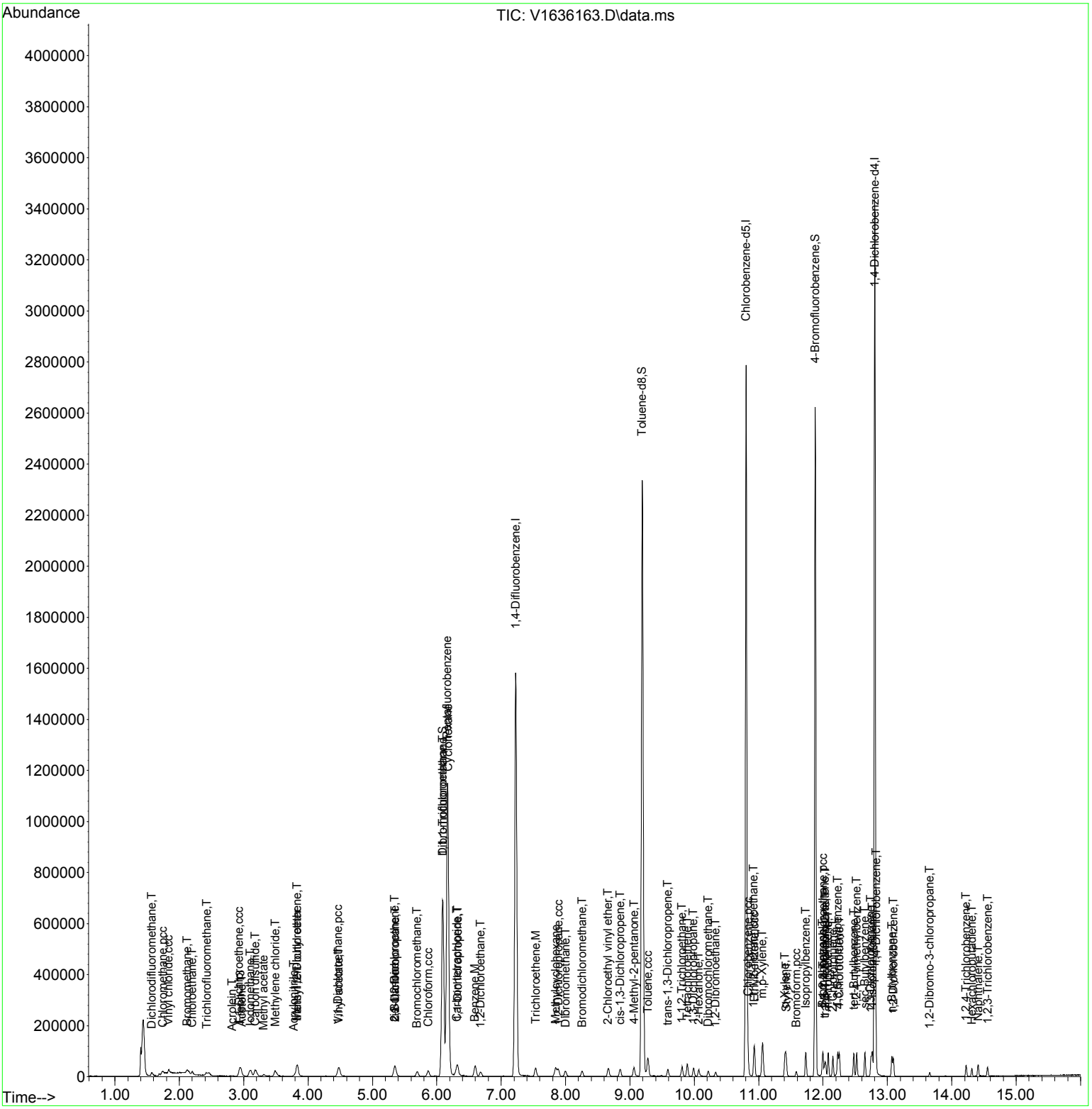
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) cis-1,3-Dichloropropene	8.850	75	18059	1.77	ug/L	98
42) 4-Methyl-2-pentanone	9.065	43	28186	3.76	ug/L	97
44) Toluene	9.278	92	28905	1.86	ug/L	100
45) trans-1,3-Dichloropropene	9.586	75	15469	1.72	ug/L	98
46) 1,1,2-Trichloroethane	9.808	83	8754	1.82	ug/L	92
48) 2-Hexanone	10.069	43	20105	3.59	ug/L	99
49) Tetrachloroethene	9.892	166	15035	1.85	ug/L	95
50) 1,3-Dichloropropane	9.985	76	17628	1.88	ug/L	97
51) Dibromochloromethane	10.217	129	10760	1.65	ug/L	99
52) 1,2-Dibromoethane	10.332	107	10951	1.79	ug/L	99
53) Chlorobenzene	10.834	112	33419	1.89	ug/L	99
54) 1,1,1,2-Tetrachloroethane	10.924	131	11290	1.81	ug/L	96
55) Ethylbenzene	10.934	91	54405	1.86	ug/L	100
56) m,p-Xylene	11.059	91	83675	3.67	ug/L	100
57) o-Xylene	11.409	91	41762	1.83	ug/L	97
58) Styrene	11.429	104	32254	1.75	ug/L	97
59) Bromoform	11.583	173	7226	2.02	ug/L	95
62) Bromobenzene	11.995	156	14736	1.85	ug/L	100
63) 1,1,2,2-Tetrachloroethane	11.998	83	14467	1.87	ug/L	98
64) 1,2,3-Trichloropropane	12.036	75	23786	1.77	ug/L	94
65) Isopropylbenzene	11.731	105	51572	1.92	ug/L	99
66) n-Propylbenzene	12.078	91	60412	1.90	ug/L	99
67) trans-1,4-Dichloro-2-b...	12.030	124	1510	2.47	ug/L	93
68) 2-Chlorotoluene	12.152	91	36651	1.92	ug/L	99
69) 4-Chlorotoluene	12.252	91	42953	1.89	ug/L	100
70) 1,3,5-Trimethylbenzene	12.229	105	40682	1.85	ug/L	100
71) tert-Butylbenzene	12.477	119	36306	1.88	ug/L	96
72) 1,2,4-Trimethylbenzene	12.522	105	41311	1.84	ug/L	98
73) sec-Butylbenzene	12.651	105	49437	1.84	ug/L	97
74) 1,3-Dichlorobenzene	12.744	146	25227	1.82	ug/L	99
75) 4-Isopropyltoluene	12.766	119	42638	1.78	ug/L	98
76) 1,4-Dichlorobenzene	12.824	146	26273	1.83	ug/L	96
77) 1,2-Dichlorobenzene	13.091	146	22899	1.81	ug/L	97
78) n-Butylbenzene	13.069	91	34771	1.72	ug/L	99
79) 1,2-Dibromo-3-chloropr...	13.660	75	2824	1.78	ug/L	99
80) 1,2,4-Trichlorobenzene	14.223	180	10924	1.61	ug/L	97
81) Hexachlorobutadiene	14.313	225	4896	1.52	ug/L	99
82) Naphthalene	14.409	128	28797	1.64	ug/L	100
83) 1,2,3-Trichlorobenzene	14.557	180	9147	1.68	ug/L	85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636163.D
Acq On : 08 Nov 2021 16:11
Operator : CM
Sample : ICAL 2 8260/624 (2uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Nov 09 10:50:04 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636164.D
Acq On : 08 Nov 2021 16:32
Operator : CM
Sample : ICAL 5 8260/624 (5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Nov 09 10:50:30 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	6.168	168	1044949	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	7.226	114	1506305	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.805	117	1389135	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	12.802	152	759311	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	6.091	113	501745	50.16	ug/L		0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 100.32%				
43) Toluene-d8	9.191	98	1765168	50.18	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.36%				
60) 4-Bromofluorobenzene	11.879	95	664512	49.13	ug/L		0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 98.26%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.577	85	38657	4.86	ug/L		99
3) Chloromethane	1.741	50	36421	4.85	ug/L		98
4) Vinyl chloride	1.841	62	33424	5.08	ug/L		98
5) Bromomethane	2.120	94	25375	5.47	ug/L		98
6) Chloroethane	2.201	64	22578	5.29	ug/L		99
7) Trichlorofluoromethane	2.423	101	52270	4.92	ug/L	#	98
8) Acrolein	2.825	56	4374	5.05	ug/L		97
9) 1,1-Dichloroethene	2.931	96	26568	4.94	ug/L		96
10) Freon-113	2.956	101	27817	5.07	µg/L		94
11) Acetone	2.966	58	5705	9.14	ug/L		89
12) Iodomethane	3.088	142	112547	10.04	ug/L		98
13) Carbon disulfide	3.175	76	142573	9.73	ug/L		100
14) Methyl acetate	3.313	43	26927	4.62	µg/L		99
15) Vinyl acetate	4.480	43	132568	9.80	ug/L		98
16) Methylene chloride	3.487	84	33710	4.91	ug/L		98
17) Acrylonitrile	3.780	53	11335	4.88	ug/L		96
18) Methyl tert-butyl ether	3.828	73	81267	4.96	µg/L		97
19) trans-1,2-Dichloroethene	3.837	96	30354	5.01	ug/L		95
20) 1,1-Dichloroethane	4.471	63	55105	5.02	ug/L		96
21) 2,2-Dichloropropane	5.358	77	36296	5.84	ug/L		94
22) cis-1,2-Dichloroethene	5.349	96	33709	5.03	ug/L		97
23) 2-Butanone	5.339	72	8048	9.46	µg/L		96
24) Bromochloromethane	5.696	128	17196	4.95	ug/L		97
25) Chloroform	5.866	83	56728	5.07	ug/L		99
26) Cyclohexane	6.181	56	62394	5.15	µg/L	#	77
27) 1,1,1-Trichloroethane	6.088	97	49968	5.20	ug/L		96
30) 1,1-Dichloropropene	6.323	110	15954	4.98	ug/L		97
31) Carbon tetrachloride	6.304	119	43023	5.01	ug/L		99
32) Benzene	6.596	78	121306	4.97	ug/L		99
33) 1,2-Dichloroethane	6.680	62	42259	4.98	ug/L		99
34) Trichloroethene	7.532	130	33757	4.96	ug/L		96
35) Methylcyclohexane	7.847	55	36692	5.21	µg/L		99
36) 1,2-Dichloropropane	7.889	63	31333	4.92	ug/L		99
37) Dibromomethane	8.001	93	19917	4.76	ug/L		95
38) 1,4-Dioxane	8.014	88	932	20.30	µg/L	#	23
39) Bromodichloromethane	8.255	83	39835	4.74	ug/L		99
40) 2-Chloroethyl vinyl ether	8.660	63	41134	9.14	µg/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636164.D
Acq On : 08 Nov 2021 16:32
Operator : CM
Sample : ICAL 5 8260/624 (5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Nov 09 10:50:30 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

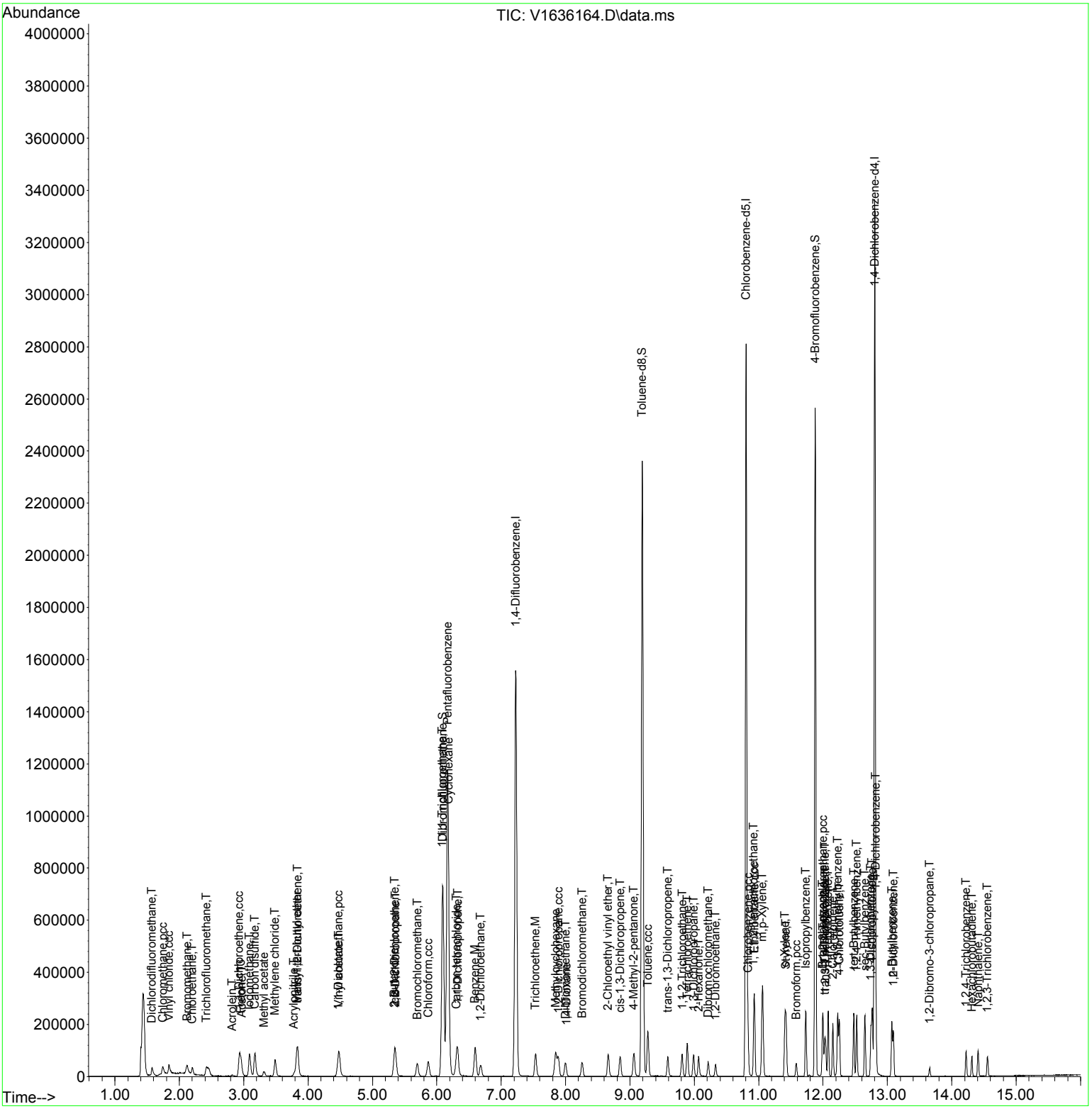
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) cis-1,3-Dichloropropene	8.847	75	47252	4.67	ug/L	98
42) 4-Methyl-2-pentanone	9.062	43	70988	9.54	ug/L	97
44) Toluene	9.278	92	75701	4.92	ug/L	98
45) trans-1,3-Dichloropropene	9.586	75	41057	4.60	ug/L	97
46) 1,1,2-Trichloroethane	9.811	83	22335	4.69	ug/L	99
48) 2-Hexanone	10.065	43	53138	9.62	ug/L	99
49) Tetrachloroethene	9.892	166	39862	4.98	ug/L	100
50) 1,3-Dichloropropane	9.991	76	44766	4.83	ug/L	97
51) Dibromochloromethane	10.213	129	29038	4.52	ug/L	96
52) 1,2-Dibromoethane	10.329	107	28472	4.70	ug/L	99
53) Chlorobenzene	10.834	112	85637	4.90	ug/L	99
54) 1,1,1,2-Tetrachloroethane	10.924	131	29541	4.79	ug/L	98
55) Ethylbenzene	10.934	91	142490	4.93	ug/L	99
56) m,p-Xylene	11.059	91	220727	9.80	ug/L	99
57) o-Xylene	11.409	91	109787	4.86	ug/L	99
58) Styrene	11.426	104	84033	4.61	ug/L	97
59) Bromoform	11.586	173	19873	4.10	ug/L	97
62) Bromobenzene	11.995	156	37854	4.93	ug/L	97
63) 1,1,2,2-Tetrachloroethane	11.998	83	36691	4.92	ug/L	97
64) 1,2,3-Trichloropropane	12.033	75	61702	4.77	ug/L	97
65) Isopropylbenzene	11.734	105	137046	5.30	ug/L	97
66) n-Propylbenzene	12.078	91	158066	5.16	ug/L	98
67) trans-1,4-Dichloro-2-b...	12.027	124	4557	7.75	ug/L	93
68) 2-Chlorotoluene	12.152	91	93590	5.08	ug/L	97
69) 4-Chlorotoluene	12.252	91	108970	4.98	ug/L	100
70) 1,3,5-Trimethylbenzene	12.226	105	106618	5.02	ug/L	99
71) tert-Butylbenzene	12.477	119	95689	5.16	ug/L	97
72) 1,2,4-Trimethylbenzene	12.525	105	105528	4.88	ug/L	99
73) sec-Butylbenzene	12.651	105	131162	5.07	ug/L	100
74) 1,3-Dichlorobenzene	12.744	146	63921	4.79	ug/L	97
75) 4-Isopropyltoluene	12.763	119	112752	4.89	ug/L	99
76) 1,4-Dichlorobenzene	12.821	146	66072	4.77	ug/L	97
77) 1,2-Dichlorobenzene	13.091	146	56676	4.65	ug/L	98
78) n-Butylbenzene	13.069	91	90944	4.68	ug/L	99
79) 1,2-Dibromo-3-chloropr...	13.657	75	6399	4.18	ug/L	97
80) 1,2,4-Trichlorobenzene	14.223	180	23671	3.62	ug/L	96
81) Hexachlorobutadiene	14.313	225	12180	3.92	ug/L	98
82) Naphthalene	14.409	128	60216	3.57	ug/L	100
83) 1,2,3-Trichlorobenzene	14.554	180	19164	3.65	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636164.D
Acq On : 08 Nov 2021 16:32
Operator : CM
Sample : ICAL 5 8260/624 (5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Nov 09 10:50:30 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636167.D
Acq On : 08 Nov 2021 17:36
Operator : CM
Sample : ICAL 50 8260/624 (50uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Nov 09 10:51:47 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	6.169	168	1051351	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	7.227	114	1506003	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.805	117	1406989	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	12.805	152	837080	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	6.095	113	504393	50.43	ug/L		0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 100.86%				
43) Toluene-d8	9.194	98	1762336	50.11	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.22%				
60) 4-Bromofluorobenzene	11.879	95	692570	50.56	ug/L		0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 101.12%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.577	85	400392	50.01	ug/L		100
3) Chloromethane	1.744	50	353890	46.87	ug/L		100
4) Vinyl chloride	1.841	62	324562	48.99	ug/L		100
5) Bromomethane	2.117	94	213568	49.13	ug/L		100
6) Chloroethane	2.201	64	221591	51.61	ug/L		100
7) Trichlorofluoromethane	2.426	101	545942	51.09	ug/L	#	100
8) Acrolein	2.822	56	47259	54.27	ug/L		100
9) 1,1-Dichloroethene	2.931	96	273526	50.59	ug/L		100
10) Freon-113	2.957	101	283362	51.31	µg/L		100
11) Acetone	2.963	58	71466	113.81	ug/L		100
12) Iodomethane	3.088	142	1149194	101.89	ug/L		100
13) Carbon disulfide	3.175	76	1509375	102.39	ug/L		100
14) Methyl acetate	3.317	43	296793	50.63	µg/L		100
15) Vinyl acetate	4.481	43	1483256	108.98	ug/L		100
16) Methylene chloride	3.490	84	333283	48.23	ug/L		100
17) Acrylonitrile	3.783	53	132647	56.79	ug/L		100
18) Methyl tert-butyl ether	3.831	73	875539	53.08	µg/L		100
19) trans-1,2-Dichloroethene	3.838	96	313190	51.37	ug/L		100
20) 1,1-Dichloroethane	4.471	63	560316	50.72	ug/L		100
21) 2,2-Dichloropropane	5.358	77	337599	53.97	ug/L		100
22) cis-1,2-Dichloroethene	5.352	96	347963	51.59	ug/L		100
23) 2-Butanone	5.339	72	100300	117.22	µg/L		100
24) Bromochloromethane	5.699	128	183579	52.53	ug/L		100
25) Chloroform	5.866	83	583967	51.88	ug/L		100
26) Cyclohexane	6.185	56	465049	48.92	µg/L		100
27) 1,1,1-Trichloroethane	6.088	97	499823	51.70	ug/L		100
30) 1,1-Dichloropropene	6.323	110	164005	51.19	ug/L		100
31) Carbon tetrachloride	6.307	119	441547	51.39	ug/L		100
32) Benzene	6.596	78	1220195	50.01	ug/L		100
33) 1,2-Dichloroethane	6.683	62	433950	51.17	ug/L		100
34) Trichloroethene	7.538	130	349740	51.37	ug/L		100
35) Methylcyclohexane	7.847	55	358093	50.89	µg/L		100
36) 1,2-Dichloropropane	7.889	63	327269	51.37	ug/L		100
37) Dibromomethane	7.998	93	217463	51.95	ug/L		100
38) 1,4-Dioxane	7.995	88	24466	532.88	µg/L		100
39) Bromodichloromethane	8.255	83	446944	53.22	ug/L		100
40) 2-Chloroethyl vinyl ether	8.664	63	474357	105.39	µg/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636167.D
Acq On : 08 Nov 2021 17:36
Operator : CM
Sample : ICAL 50 8260/624 (50uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Nov 09 10:51:47 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

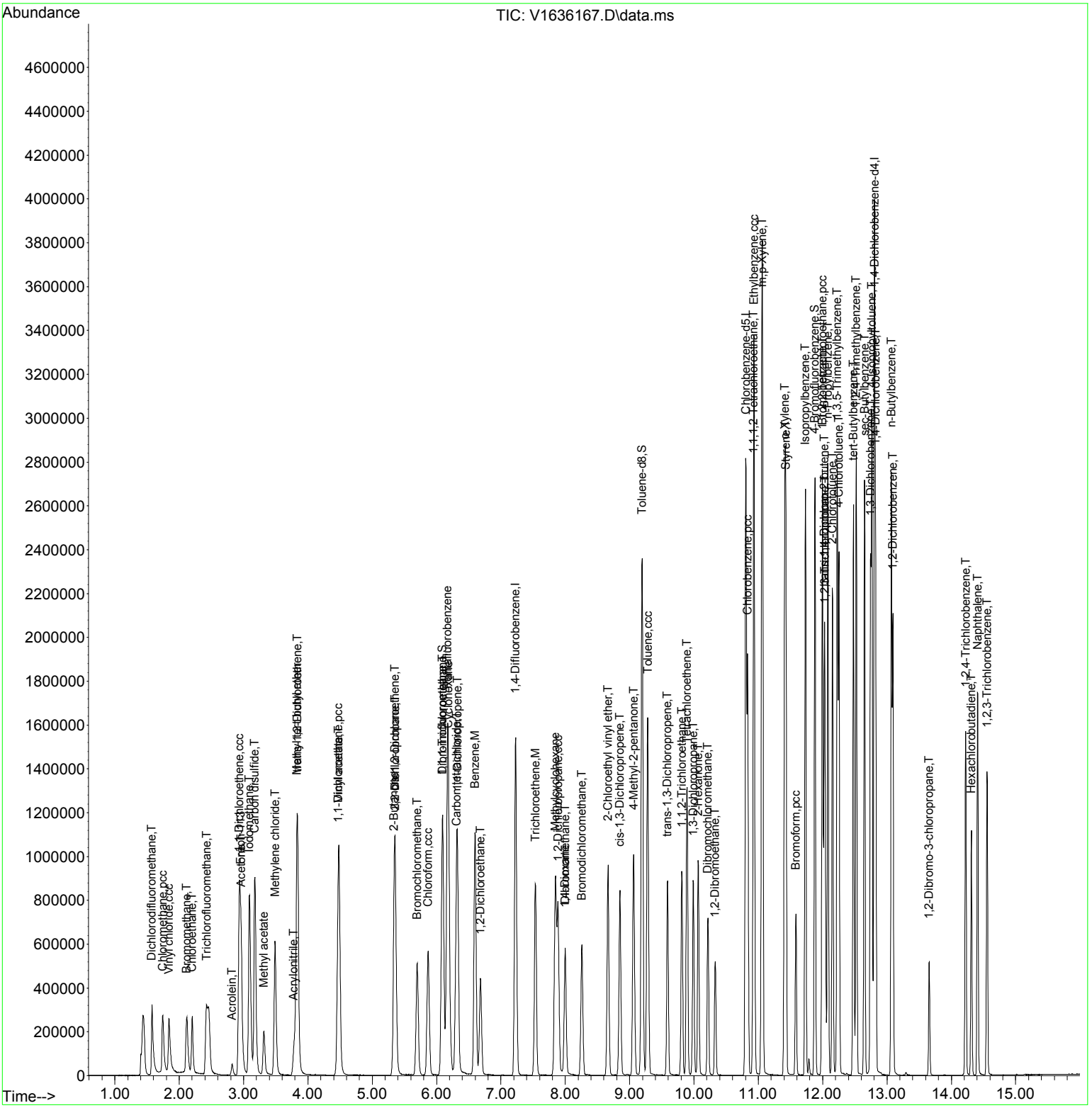
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) cis-1,3-Dichloropropene	8.847	75	542715	53.67	ug/L	100
42) 4-Methyl-2-pentanone	9.062	43	807904	108.62	ug/L	100
44) Toluene	9.281	92	779676	50.65	ug/L	100
45) trans-1,3-Dichloropropene	9.590	75	486243	54.50	ug/L	100
46) 1,1,2-Trichloroethane	9.812	83	249207	52.37	ug/L	100
48) 2-Hexanone	10.066	43	618731	110.54	ug/L	100
49) Tetrachloroethene	9.892	166	412186	50.82	ug/L	100
50) 1,3-Dichloropropane	9.988	76	486971	51.87	ug/L	100
51) Dibromochloromethane	10.217	129	358233	55.00	ug/L	100
52) 1,2-Dibromoethane	10.329	107	325916	53.16	ug/L	100
53) Chlorobenzene	10.834	112	901315	50.88	ug/L	100
54) 1,1,1,2-Tetrachloroethane	10.924	131	337688	54.01	ug/L	100
55) Ethylbenzene	10.934	91	1502187	51.36	ug/L	100
56) m,p-Xylene	11.062	91	2383616	104.49	ug/L	100
57) o-Xylene	11.410	91	1191610	52.13	ug/L	100
58) Styrene	11.429	104	991611	53.68	ug/L	100
59) Bromoform	11.583	173	291085	47.98	ug/L	100
62) Bromobenzene	11.995	156	435152	51.38	ug/L	100
63) 1,1,2,2-Tetrachloroethane	11.998	83	444159	54.05	ug/L	100
64) 1,2,3-Trichloropropane	12.033	75	771819	54.12	ug/L	100
65) Isopropylbenzene	11.731	105	1479367	51.93	ug/L	100
66) n-Propylbenzene	12.082	91	1748936	51.80	ug/L	100
67) trans-1,4-Dichloro-2-b...	12.027	124	73109	112.74	ug/L	100
68) 2-Chlorotoluene	12.152	91	1031643	50.80	ug/L	100
69) 4-Chlorotoluene	12.252	91	1233040	51.14	ug/L	100
70) 1,3,5-Trimethylbenzene	12.226	105	1229820	52.55	ug/L	100
71) tert-Butylbenzene	12.477	119	1059451	51.80	ug/L	100
72) 1,2,4-Trimethylbenzene	12.522	105	1257075	52.72	ug/L	100
73) sec-Butylbenzene	12.651	105	1502962	52.72	ug/L	100
74) 1,3-Dichlorobenzene	12.744	146	761909	51.82	ug/L	100
75) 4-Isopropyltoluene	12.767	119	1348048	53.08	ug/L	100
76) 1,4-Dichlorobenzene	12.821	146	780133	51.07	ug/L	100
77) 1,2-Dichlorobenzene	13.091	146	701669	52.26	ug/L	100
78) n-Butylbenzene	13.069	91	1155258	53.96	ug/L	100
79) 1,2-Dibromo-3-chloropr...	13.654	75	96865	57.39	ug/L	100
80) 1,2,4-Trichlorobenzene	14.223	180	410410	57.00	ug/L	100
81) Hexachlorobutadiene	14.313	225	180140	52.61	ug/L	100
82) Naphthalene	14.410	128	1094316	58.80	ug/L	100
83) 1,2,3-Trichlorobenzene	14.554	180	352045	60.76	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636167.D
Acq On : 08 Nov 2021 17:36
Operator : CM
Sample : ICAL 50 8260/624 (50uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Nov 09 10:51:47 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636169.D
Acq On : 08 Nov 2021 19:44
Operator : CM
Sample : ICAL 100 8260/624 (100uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Nov 09 10:52:11 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	6.165	168	1115715	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	7.226	114	1568278	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.805	117	1458251	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	12.802	152	890819	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	6.091	113	524995	50.41	ug/L		0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 100.82%				
43) Toluene-d8	9.191	98	1823228	49.78	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.56%				
60) 4-Bromofluorobenzene	11.879	95	718683	50.62	ug/L		0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 101.24%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.577	85	901987	106.16	ug/L		100
3) Chloromethane	1.748	50	762409	95.15	ug/L		99
4) Vinyl chloride	1.844	62	680317	96.77	ug/L		99
5) Bromomethane	2.124	94	369173	80.32	ug/L		97
6) Chloroethane	2.211	64	458417	100.60	ug/L		99
7) Trichlorofluoromethane	2.442	101	1195543	105.43	ug/L	#	97
8) Acrolein	2.818	56	91361	98.87	ug/L		95
9) 1,1-Dichloroethene	2.931	96	608748	106.10	ug/L		98
10) Freon-113	2.963	101	608629	103.85	µg/L		99
11) Acetone	2.963	58	140036	210.14	ug/L		99
12) Iodomethane	3.088	142	2440914m	203.94	ug/L		
13) Carbon disulfide	3.188	76	3341544	213.60	ug/L		100
14) Methyl acetate	3.313	43	590139	94.86	µg/L		99
15) Vinyl acetate	4.481	43	3072277	212.70	ug/L		99
16) Methylene chloride	3.487	84	689907	94.08	ug/L		98
17) Acrylonitrile	3.776	53	247261	99.75	ug/L		97
18) Methyl tert-butyl ether	3.825	73	1774727	101.38	µg/L		99
19) trans-1,2-Dichloroethene	3.834	96	670619	103.65	ug/L		99
20) 1,1-Dichloroethane	4.468	63	1189676	101.49	ug/L		100
21) 2,2-Dichloropropane	5.352	77	612564	92.28	ug/L		99
22) cis-1,2-Dichloroethene	5.349	96	734155	102.57	ug/L		99
23) 2-Butanone	5.339	72	202954	223.51	µg/L		99
24) Bromochloromethane	5.693	128	382698	103.18	ug/L		98
25) Chloroform	5.866	83	1230896	103.05	ug/L		100
26) Cyclohexane	6.182	56	1047324	105.71	µg/L		99
27) 1,1,1-Trichloroethane	6.085	97	1069523	104.26	ug/L		99
30) 1,1-Dichloropropene	6.320	110	361559	108.37	ug/L		97
31) Carbon tetrachloride	6.304	119	989384	110.57	ug/L		98
32) Benzene	6.593	78	2583158	101.66	ug/L		99
33) 1,2-Dichloroethane	6.680	62	898366	101.73	ug/L		99
34) Trichloroethene	7.532	130	743465	104.86	ug/L		98
35) Methylcyclohexane	7.844	55	828339	113.05	µg/L		97
36) 1,2-Dichloropropane	7.886	63	681085	102.67	ug/L		100
37) Dibromomethane	7.998	93	449850	103.20	ug/L		99
38) 1,4-Dioxane	7.998	88	59110	1236.31	µg/L		91
39) Bromodichloromethane	8.255	83	939186	107.39	ug/L		100
40) 2-Chloroethyl vinyl ether	8.661	63	994516	212.18	µg/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636169.D
Acq On : 08 Nov 2021 19:44
Operator : CM
Sample : ICAL 100 8260/624 (100uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Nov 09 10:52:11 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

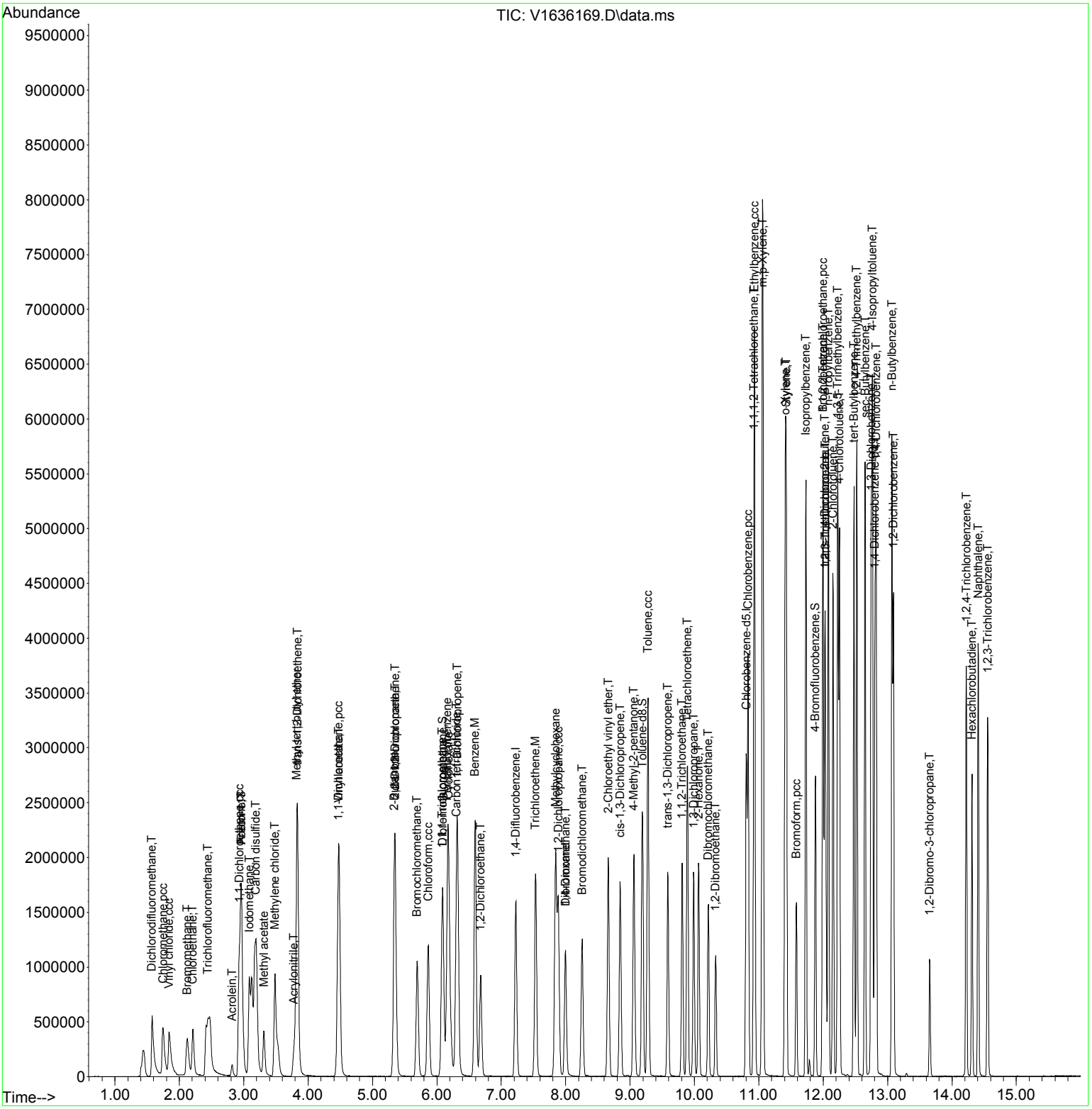
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) cis-1,3-Dichloropropene	8.847	75	1136464	107.93	ug/L	100
42) 4-Methyl-2-pentanone	9.059	43	1601383	206.75	ug/L	100
44) Toluene	9.278	92	1647012	102.74	ug/L	98
45) trans-1,3-Dichloropropene	9.587	75	1027350	110.57	ug/L	100
46) 1,1,2-Trichloroethane	9.808	83	520002	104.93	ug/L	98
48) 2-Hexanone	10.066	43	1242792	214.23	ug/L	100
49) Tetrachloroethene	9.892	166	888456	105.69	ug/L	99
50) 1,3-Dichloropropane	9.988	76	1012210	104.02	ug/L	100
51) Dibromochloromethane	10.217	129	761323	112.78	ug/L	99
52) 1,2-Dibromoethane	10.329	107	680786	107.14	ug/L	99
53) Chlorobenzene	10.834	112	1888021	102.82	ug/L	99
54) 1,1,1,2-Tetrachloroethane	10.924	131	660470	101.91	ug/L	98
55) Ethylbenzene	10.934	91	3157842	104.17	ug/L	100
56) m,p-Xylene	11.059	91	4959275	209.76	ug/L	100
57) o-Xylene	11.410	91	2427610	102.46	ug/L	99
58) Styrene	11.426	104	2106080	110.01	ug/L	100
59) Bromoform	11.583	173	623819	98.32	ug/L	99
62) Bromobenzene	11.998	156	930313	103.22	ug/L	96
63) 1,1,2,2-Tetrachloroethane	11.998	83	914612	104.58	ug/L	100
64) 1,2,3-Trichloropropane	12.030	75	1599182	105.37	ug/L	100
65) Isopropylbenzene	11.731	105	2969446	97.95	ug/L	100
66) n-Propylbenzene	12.082	91	3653776	101.70	ug/L	98
67) trans-1,4-Dichloro-2-b...	12.027	124	154419	223.76	ug/L	97
68) 2-Chlorotoluene	12.152	91	2134263	98.75	ug/L	99
69) 4-Chlorotoluene	12.252	91	2607952	101.63	ug/L	100
70) 1,3,5-Trimethylbenzene	12.226	105	2481831	99.65	ug/L	97
71) tert-Butylbenzene	12.477	119	2183044	100.31	ug/L	100
72) 1,2,4-Trimethylbenzene	12.522	105	2597317	102.35	ug/L	99
73) sec-Butylbenzene	12.651	105	3114912	102.68	ug/L	98
74) 1,3-Dichlorobenzene	12.744	146	1634482	104.46	ug/L	99
75) 4-Isopropyltoluene	12.763	119	2836536	104.95	ug/L	99
76) 1,4-Dichlorobenzene	12.821	146	1673860	102.96	ug/L	99
77) 1,2-Dichlorobenzene	13.091	146	1502077	105.12	ug/L	99
78) n-Butylbenzene	13.069	91	2516029	110.42	ug/L	100
79) 1,2-Dibromo-3-chloropr...	13.654	75	200244	111.48	ug/L	92
80) 1,2,4-Trichlorobenzene	14.223	180	980985	128.02	ug/L	99
81) Hexachlorobutadiene	14.313	225	436319	119.74	ug/L	99
82) Naphthalene	14.406	128	2487779	125.61	ug/L	100
83) 1,2,3-Trichlorobenzene	14.554	180	850917	138.01	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636169.D
Acq On : 08 Nov 2021 19:44
Operator : CM
Sample : ICAL 100 8260/624 (100uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 74 Sample Multiplier: 1

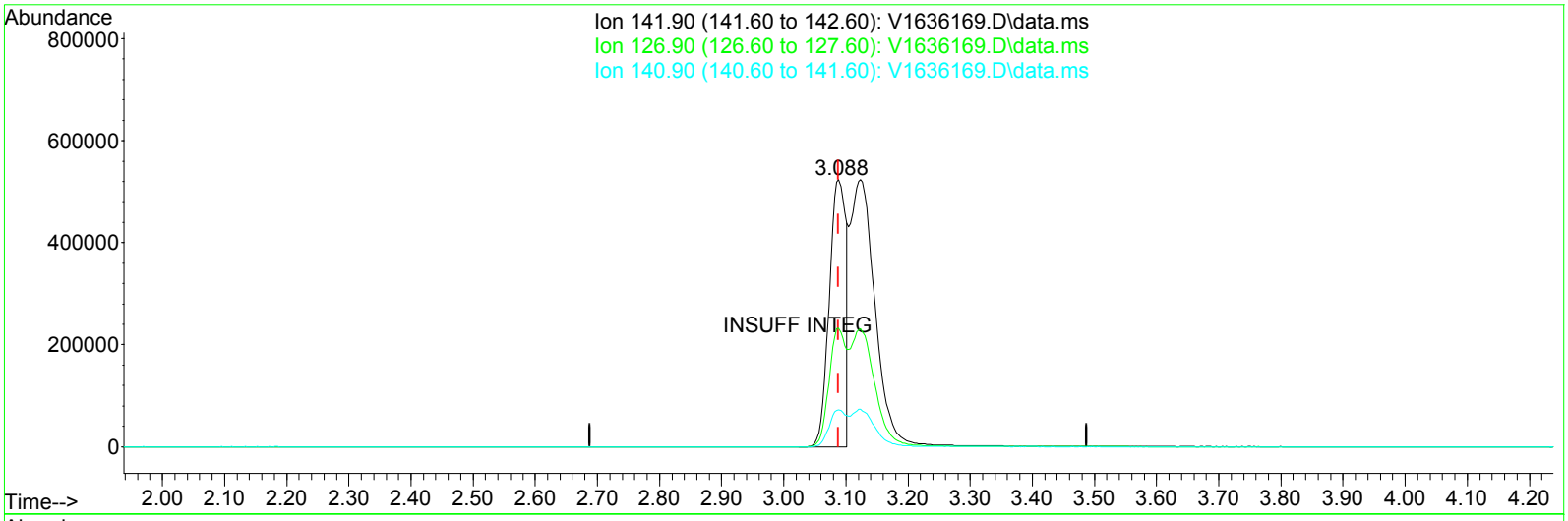
Quant Time: Nov 09 10:52:11 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

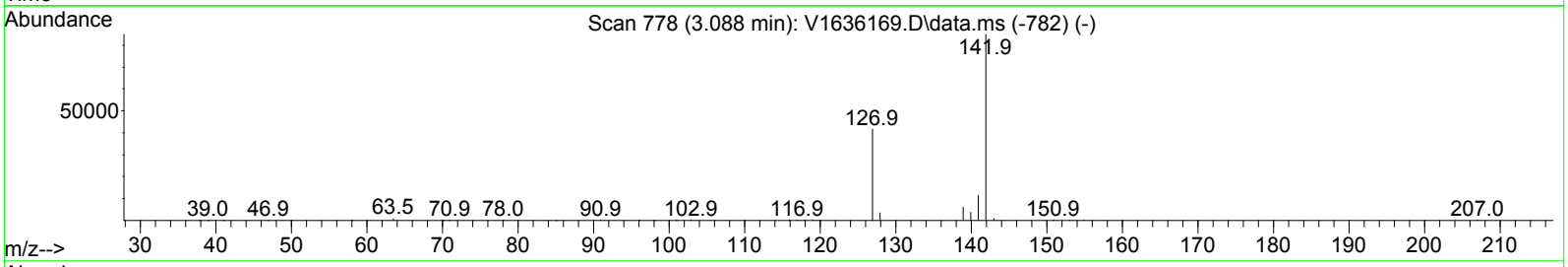


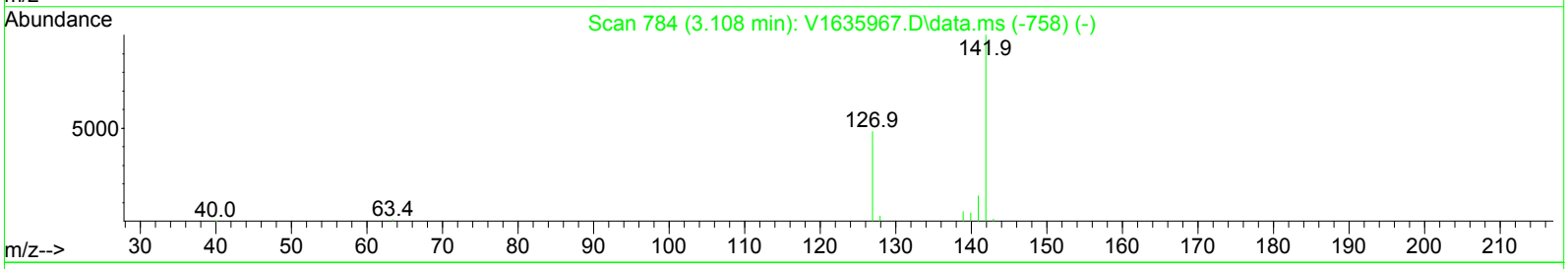
Quantitation Report (Qedit)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636169.D
Acq On : 08 Nov 2021 19:44
Operator : CM
Sample : ICAL 100 8260/624 (100uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Nov 09 10:52:11 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration







TIC: V1636169.D\data.ms

(12) Iodomethane (T)

3.088min (+ 0.000) 80.93 ug/L

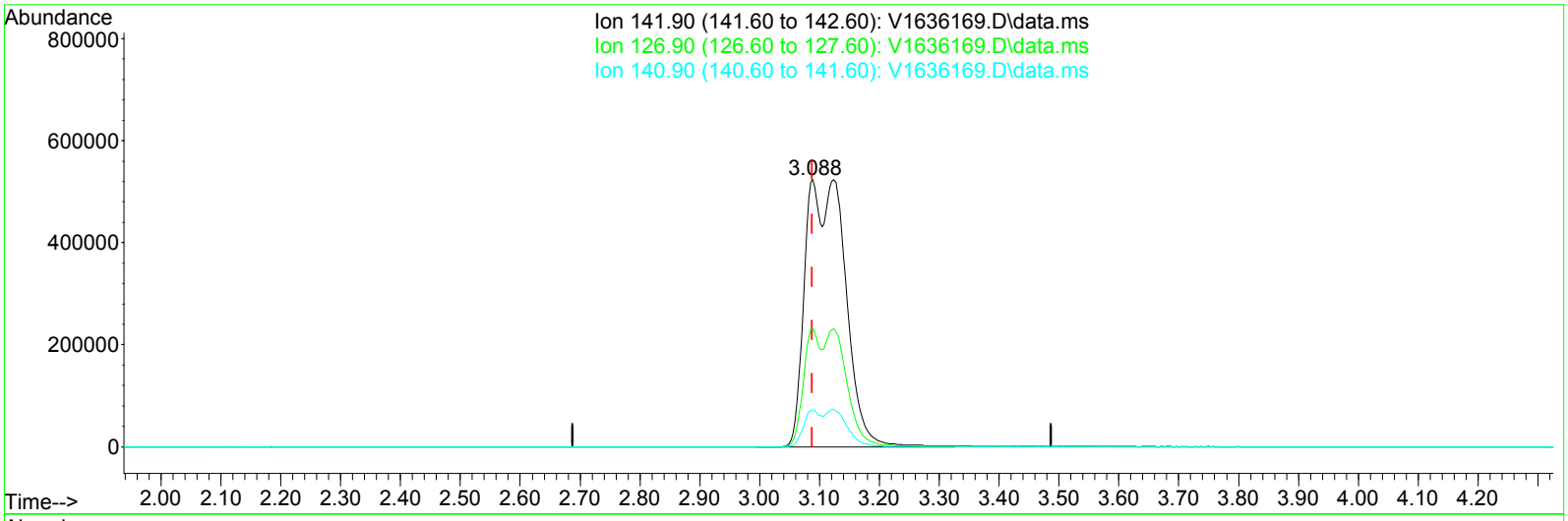
response 968664

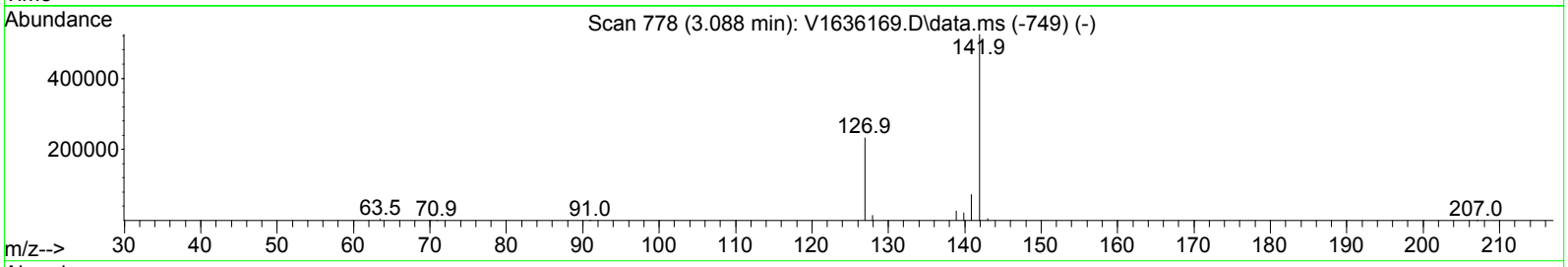
Ion	Exp%	Act%
141.90	100.00	100.00
126.90	43.80	44.41
140.90	13.50	13.86
0.00	0.00	0.00

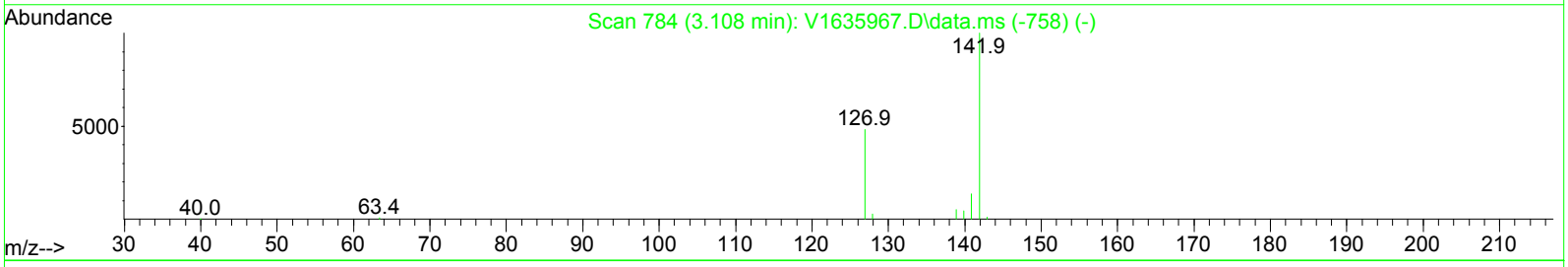
Quantitation Report (Qedit)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636169.D
Acq On : 08 Nov 2021 19:44
Operator : CM
Sample : ICAL 100 8260/624 (100uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Nov 09 10:52:11 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration







TIC: V1636169.D\data.ms

(12) Iodomethane (T)

3.088min (+ 0.000) 203.94 ug/L m

response 2440914

Ion	Exp%	Act%
141.90	100.00	100.00
126.90	43.80	44.41
140.90	13.50	13.86
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636171.D
Acq On : 08 Nov 2021 20:27
Operator : CM
Sample : ICAL 150 8260/624 (150uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 76 Sample Multiplier: 1

Quant Time: Nov 09 10:53:02 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	6.166	168	1080461	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	7.227	114	1510362	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.805	117	1414725	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	12.802	152	876123	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	6.092	113	500938	49.94	ug/L		0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 99.88%				
43) Toluene-d8	9.191	98	1756391	49.79	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.58%				
60) 4-Bromofluorobenzene	11.879	95	698693	50.72	ug/L		0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 101.44%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.577	85	1249231m	151.83	ug/L		
3) Chloromethane	1.745	50	1075752	138.63	ug/L		100
4) Vinyl chloride	1.841	62	977570	143.58	ug/L		100
5) Bromomethane	2.118	94	429041	96.49	ug/L		96
6) Chloroethane	2.201	64	562210	127.41	ug/L		99
7) Trichlorofluoromethane	2.433	101	1678594	152.86	ug/L	#	99
8) Acrolein	2.819	56	136455	152.48	ug/L		96
9) 1,1-Dichloroethene	2.928	96	893792	160.86	ug/L		98
10) Freon-113	2.954	101	892605	157.27	µg/L		99
11) Acetone	2.960	58	196976	305.24	ug/L		97
12) Iodomethane	3.089	142	3550173	306.18	ug/L		99
13) Carbon disulfide	3.175	76	4877856	321.98	ug/L		100
14) Methyl acetate	3.311	43	830487	137.85	µg/L		100
15) Vinyl acetate	4.481	43	4396219	314.29	ug/L		99
16) Methylene chloride	3.484	84	997926	140.52	ug/L		99
17) Acrylonitrile	3.780	53	367402	153.05	ug/L		97
18) Methyl tert-butyl ether	3.825	73	2505166	147.78	µg/L		99
19) trans-1,2-Dichloroethene	3.835	96	973849	155.42	ug/L		99
20) 1,1-Dichloroethane	4.468	63	1713281	150.92	ug/L		99
21) 2,2-Dichloropropane	5.349	77	837912	130.35	ug/L		98
22) cis-1,2-Dichloroethene	5.349	96	1056907	152.48	ug/L		99
23) 2-Butanone	5.336	72	285434	324.60	µg/L		96
24) Bromochloromethane	5.693	128	547322	152.38	ug/L		99
25) Chloroform	5.863	83	1763377	152.45	ug/L		99
26) Cyclohexane	6.182	56	1397489	146.29	µg/L		98
27) 1,1,1-Trichloroethane	6.085	97	1484804	149.46	ug/L		100
30) 1,1-Dichloropropene	6.323	110	514089	159.99	ug/L		99
31) Carbon tetrachloride	6.304	119	1337671	155.22	ug/L		99
32) Benzene	6.593	78	3711729	151.68	ug/L		100
33) 1,2-Dichloroethane	6.680	62	1280913	150.61	ug/L		100
34) Trichloroethene	7.535	130	1074015	157.29	ug/L		98
35) Methylcyclohexane	7.844	55	1013766	143.67	µg/L		95
36) 1,2-Dichloropropane	7.886	63	983786	153.98	ug/L		100
37) Dibromomethane	7.995	93	652984	155.55	ug/L		98
38) 1,4-Dioxane	7.998	88	68914	1496.63	µg/L		99
39) Bromodichloromethane	8.256	83	1362453	161.76	ug/L		100
40) 2-Chloroethyl vinyl ether	8.661	63	1464707	324.47	µg/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636171.D
Acq On : 08 Nov 2021 20:27
Operator : CM
Sample : ICAL 150 8260/624 (150uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 76 Sample Multiplier: 1

Quant Time: Nov 09 10:53:02 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) cis-1,3-Dichloropropene	8.847	75	1672314	164.90	ug/L	98
42) 4-Methyl-2-pentanone	9.059	43	2281775	305.89	ug/L	99
44) Toluene	9.278	92	2407310	155.92	ug/L	99
45) trans-1,3-Dichloropropene	9.587	75	1512219	169.00	ug/L	99
46) 1,1,2-Trichloroethane	9.809	83	767628	160.84	ug/L	99
48) 2-Hexanone	10.066	43	1783191	316.84	ug/L	99
49) Tetrachloroethene	9.889	166	1283821	157.43	ug/L	98
50) 1,3-Dichloropropane	9.989	76	1479189	156.68	ug/L	99
51) Dibromochloromethane	10.217	129	1132255	172.89	ug/L	98
52) 1,2-Dibromoethane	10.330	107	1003055	162.72	ug/L	98
53) Chlorobenzene	10.834	112	2764858	155.21	ug/L	100
54) 1,1,1,2-Tetrachloroethane	10.924	131	982240	156.23	ug/L	98
55) Ethylbenzene	10.934	91	4626909	157.32	ug/L	99
56) m,p-Xylene	11.059	91	7180323	313.05	ug/L	99
57) o-Xylene	11.407	91	3600522	156.64	ug/L	99
58) Styrene	11.426	104	3109385	167.41	ug/L	99
59) Bromoform	11.584	173	937746	151.88	ug/L	98
62) Bromobenzene	11.995	156	1371214	154.70	ug/L	99
63) 1,1,2,2-Tetrachloroethane	11.995	83	1356024	157.65	ug/L	99
64) 1,2,3-Trichloropropane	12.030	75	2337550	156.60	ug/L	99
65) Isopropylbenzene	11.731	105	4413902	148.03	ug/L	100
66) n-Propylbenzene	12.082	91	5354332	151.53	ug/L	98
67) trans-1,4-Dichloro-2-b...	12.027	124	226988	334.43	ug/L	96
68) 2-Chlorotoluene	12.153	91	3167197	149.01	ug/L	100
69) 4-Chlorotoluene	12.252	91	3848557	152.49	ug/L	98
70) 1,3,5-Trimethylbenzene	12.227	105	3732270	152.38	ug/L	98
71) tert-Butylbenzene	12.477	119	3201209	149.55	ug/L	100
72) 1,2,4-Trimethylbenzene	12.522	105	3856208	154.51	ug/L	99
73) sec-Butylbenzene	12.651	105	4592396	153.92	ug/L	98
74) 1,3-Dichlorobenzene	12.744	146	2442030	158.68	ug/L	99
75) 4-Isopropyltoluene	12.764	119	4184804	157.43	ug/L	98
76) 1,4-Dichlorobenzene	12.821	146	2477090	154.93	ug/L	98
77) 1,2-Dichlorobenzene	13.091	146	2229963	158.68	ug/L	98
78) n-Butylbenzene	13.066	91	3701425	165.17	ug/L	99
79) 1,2-Dibromo-3-chloropr...	13.654	75	296689	167.95	ug/L	89
80) 1,2,4-Trichlorobenzene	14.223	180	1495766	198.48	ug/L	100
81) Hexachlorobutadiene	14.310	225	666786	186.05	ug/L	99
82) Naphthalene	14.407	128	3732433	191.61	ug/L	100
83) 1,2,3-Trichlorobenzene	14.554	180	1302107	214.73	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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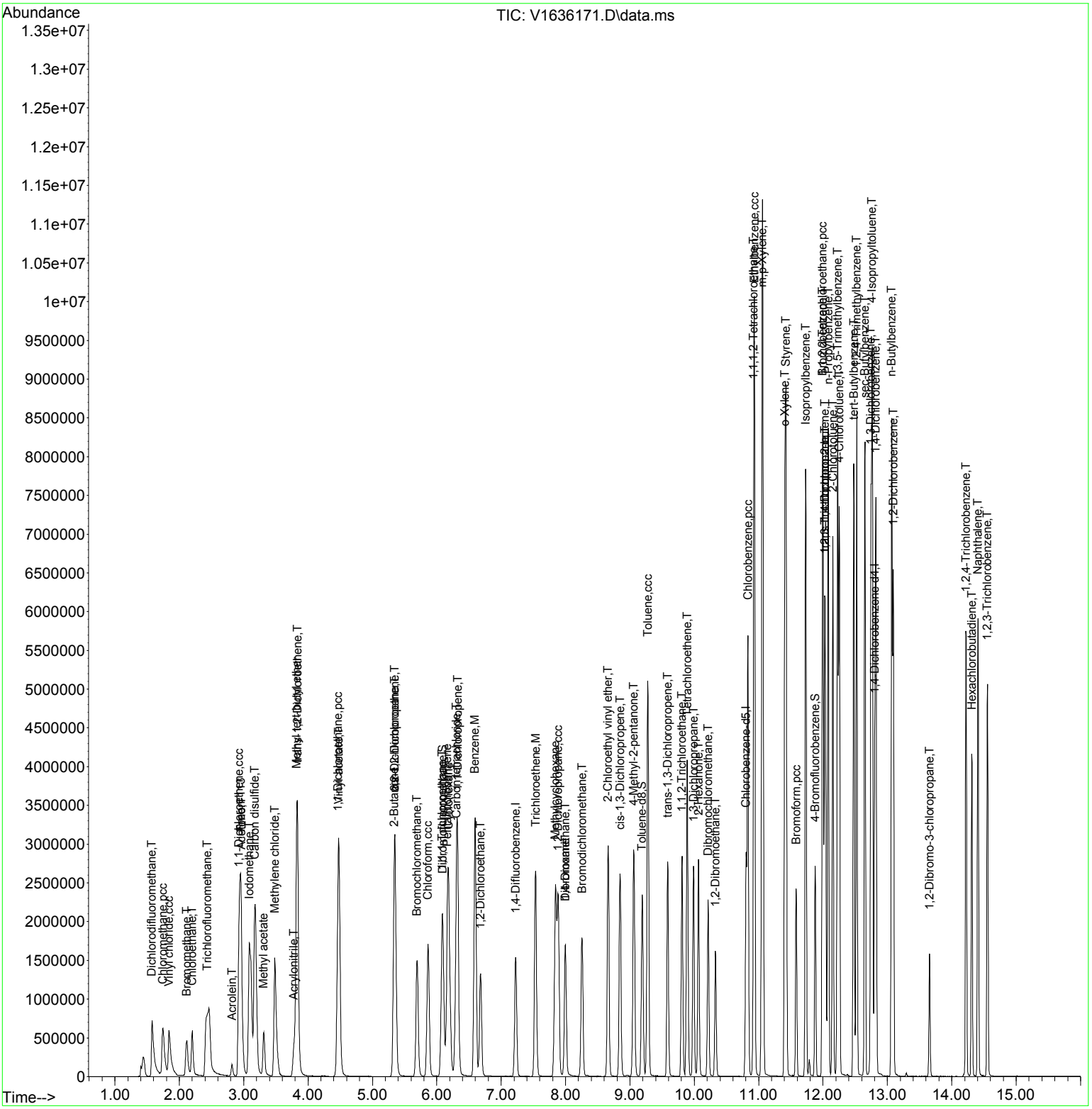
Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636171.D
Acq On : 08 Nov 2021 20:27
Operator : CM
Sample : ICAL 150 8260/624 (150uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 76 Sample Multiplier: 1

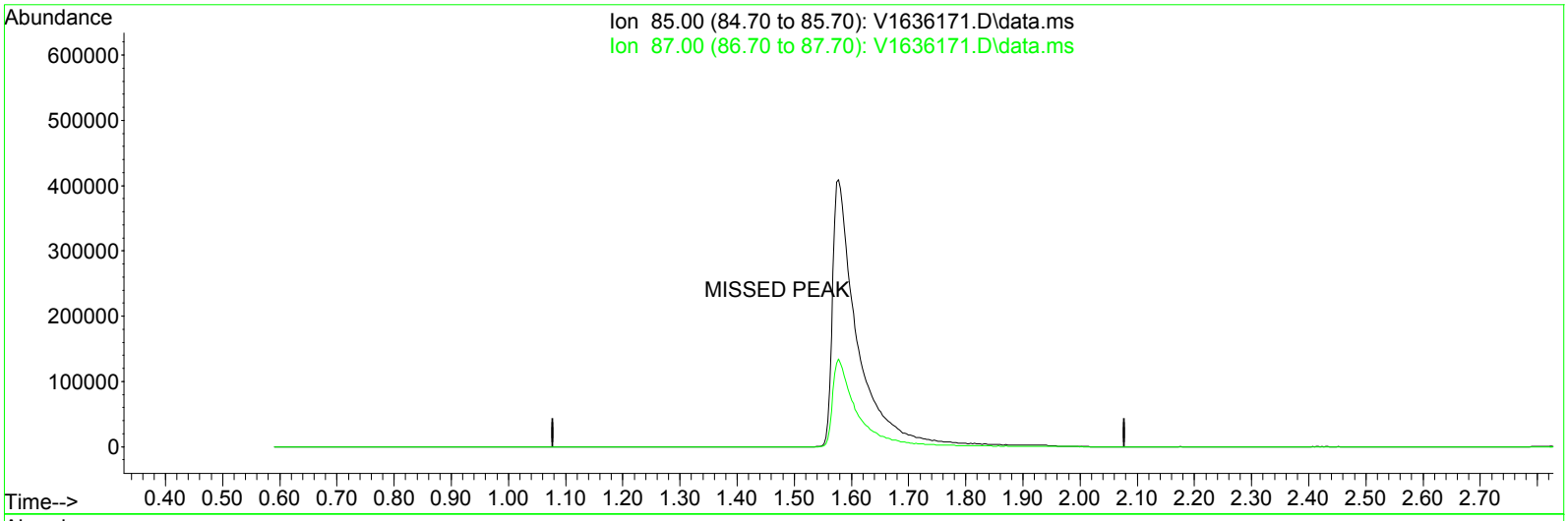
Quant Time: Nov 09 10:53:02 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

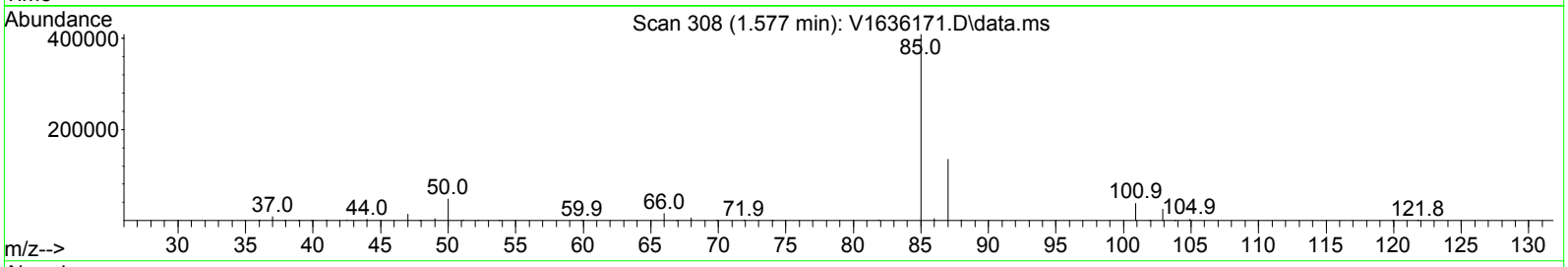


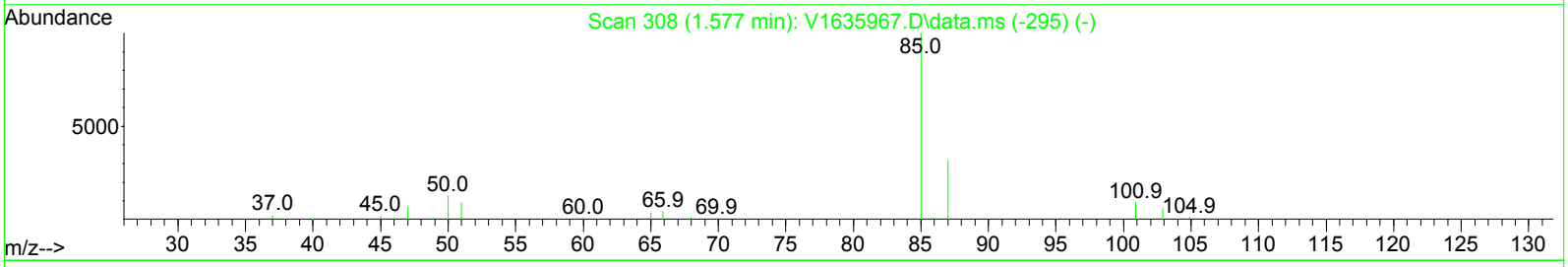
Quantitation Report (Qedit)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636171.D
Acq On : 08 Nov 2021 20:27
Operator : CM
Sample : ICAL 150 8260/624 (150uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 76 Sample Multiplier: 1

Quant Time: Nov 09 10:53:02 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration







TIC: V1636171.D\data.ms

(2) Dichlorodifluoromethane (T)

1.577min (-1.577) 0.00 ug/L

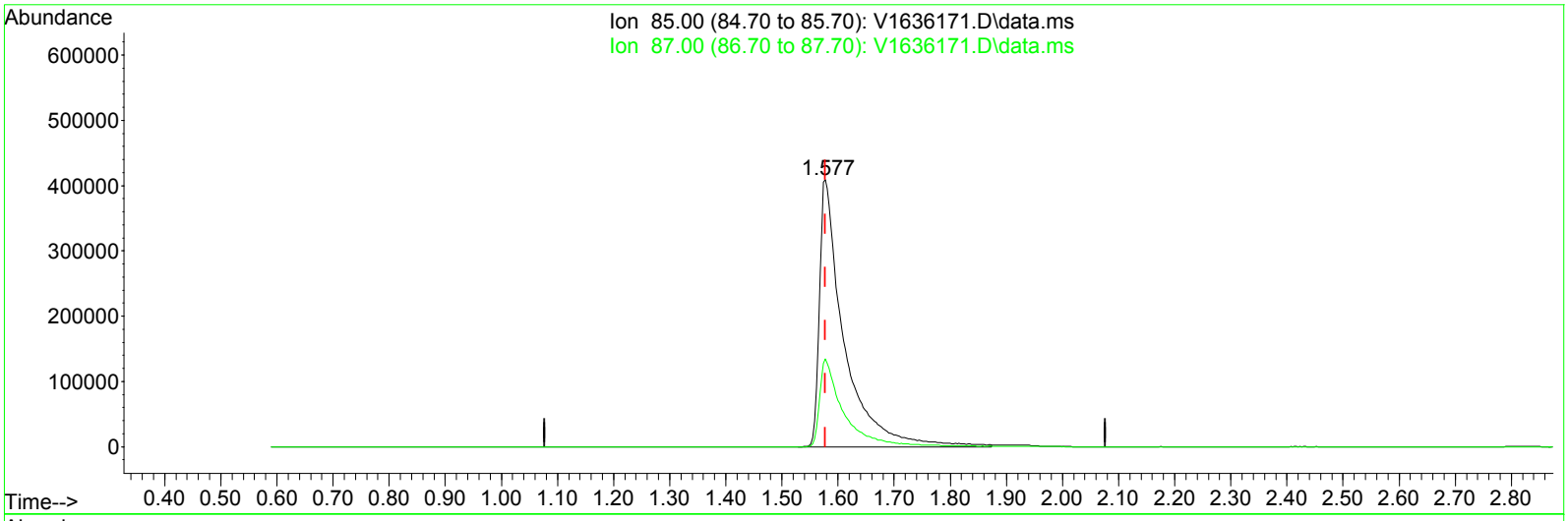
response 0

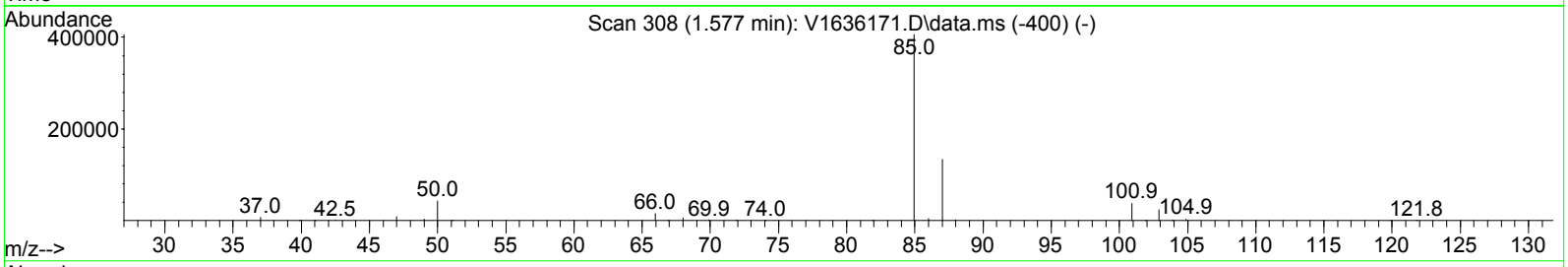
Ion	Exp%	Act%
85.00	100.00	0.00
87.00	32.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

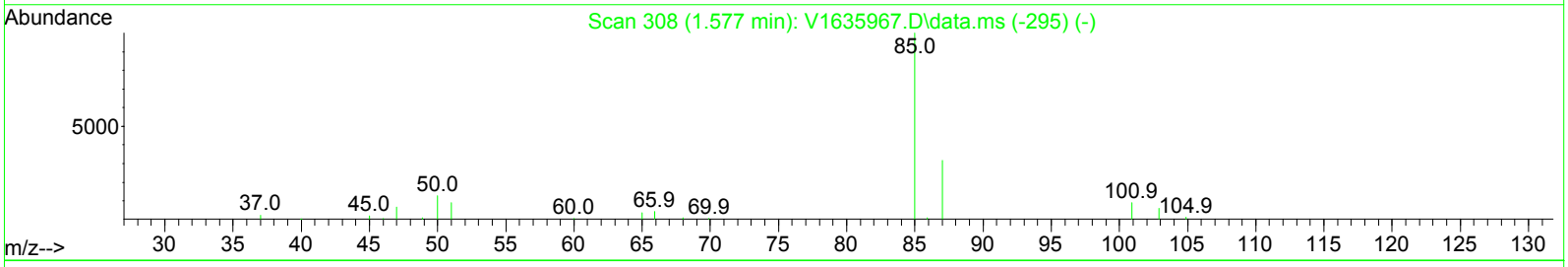
Quantitation Report (Qedit)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636171.D
Acq On : 08 Nov 2021 20:27
Operator : CM
Sample : ICAL 150 8260/624 (150uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 76 Sample Multiplier: 1

Quant Time: Nov 09 10:53:02 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration







TIC: V1636171.D\data.ms

(2) Dichlorodifluoromethane (T)

1.577min (+ 0.000) 151.83 ug/L m

response 1249231

Ion	Exp%	Act%
85.00	100.00	100.00
87.00	32.70	32.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636173.D
Acq On : 08 Nov 2021 21:09
Operator : CM
Sample : ICAL 200 8260/624 (200uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 78 Sample Multiplier: 1

Quant Time: Nov 09 10:53:52 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	6.169	168	1095727	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	7.226	114	1520945	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.805	117	1450243	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	12.805	152	885667	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	6.091	113	506724	50.17	ug/L		0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 100.34%				
43) Toluene-d8	9.191	98	1797135	50.59	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 101.18%				
60) 4-Bromofluorobenzene	11.879	95	712006	50.42	ug/L		0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 100.84%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.574	85	1618341	193.98	ug/L		99
3) Chloromethane	1.741	50	1353255	171.96	ug/L		99
4) Vinyl chloride	1.838	62	1233955	178.72	ug/L		100
5) Bromomethane	2.120	94	670906	149.03	ug/L		97
6) Chloroethane	2.194	64	686848	153.49	ug/L		99
7) Trichlorofluoromethane	2.442	101	2155966	193.60	ug/L	#	99
8) Acrolein	2.818	56	186902	205.95	ug/L		100
9) 1,1-Dichloroethene	2.937	96	1188613	210.94	ug/L		97
10) Freon-113	2.950	101	1183942	205.69	µg/L		99
11) Acetone	2.966	58	267886	409.33	ug/L		98
12) Iodomethane	3.108	142	4765578	405.27	ug/L		99
13) Carbon disulfide	3.185	76	6591528	429.04	ug/L		100
14) Methyl acetate	3.313	43	1135541	185.86	µg/L		99
15) Vinyl acetate	4.481	43	5884265	414.81	ug/L		98
16) Methylene chloride	3.490	84	1345152	186.78	ug/L		99
17) Acrylonitrile	3.780	53	500964	205.78	ug/L		98
18) Methyl tert-butyl ether	3.825	73	3548761	206.43	µg/L		98
19) trans-1,2-Dichloroethene	3.834	96	1290970	203.16	ug/L		98
20) 1,1-Dichloroethane	4.464	63	2268256	197.03	ug/L		99
21) 2,2-Dichloropropane	5.352	77	1103834	169.33	ug/L		97
22) cis-1,2-Dichloroethene	5.349	96	1413998	201.16	ug/L		99
23) 2-Butanone	5.342	72	390773	438.20	µg/L		93
24) Bromochloromethane	5.693	128	745612	204.70	ug/L		98
25) Chloroform	5.863	83	2360027	201.19	ug/L		99
26) Cyclohexane	6.181	56	1921910	198.98	µg/L		97
27) 1,1,1-Trichloroethane	6.088	97	2073026	205.76	ug/L		99
30) 1,1-Dichloropropene	6.323	110	682964	211.07	ug/L		99
31) Carbon tetrachloride	6.307	119	1840005	212.03	ug/L		100
32) Benzene	6.596	78	4941640	200.54	ug/L		100
33) 1,2-Dichloroethane	6.680	62	1723212	201.21	ug/L		99
34) Trichloroethene	7.535	130	1424845	207.21	ug/L		98
35) Methylcyclohexane	7.844	55	1525266	214.65	µg/L		96
36) 1,2-Dichloropropane	7.886	63	1338855	208.10	ug/L		100
37) Dibromomethane	7.995	93	895658	211.88	ug/L		99
38) 1,4-Dioxane	8.001	88	77290	1666.86	µg/L		99
39) Bromodichloromethane	8.255	83	1850960	218.23	ug/L		99
40) 2-Chloroethyl vinyl ether	8.664	63	1973790	434.21	µg/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636173.D
Acq On : 08 Nov 2021 21:09
Operator : CM
Sample : ICAL 200 8260/624 (200uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 78 Sample Multiplier: 1

Quant Time: Nov 09 10:53:52 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

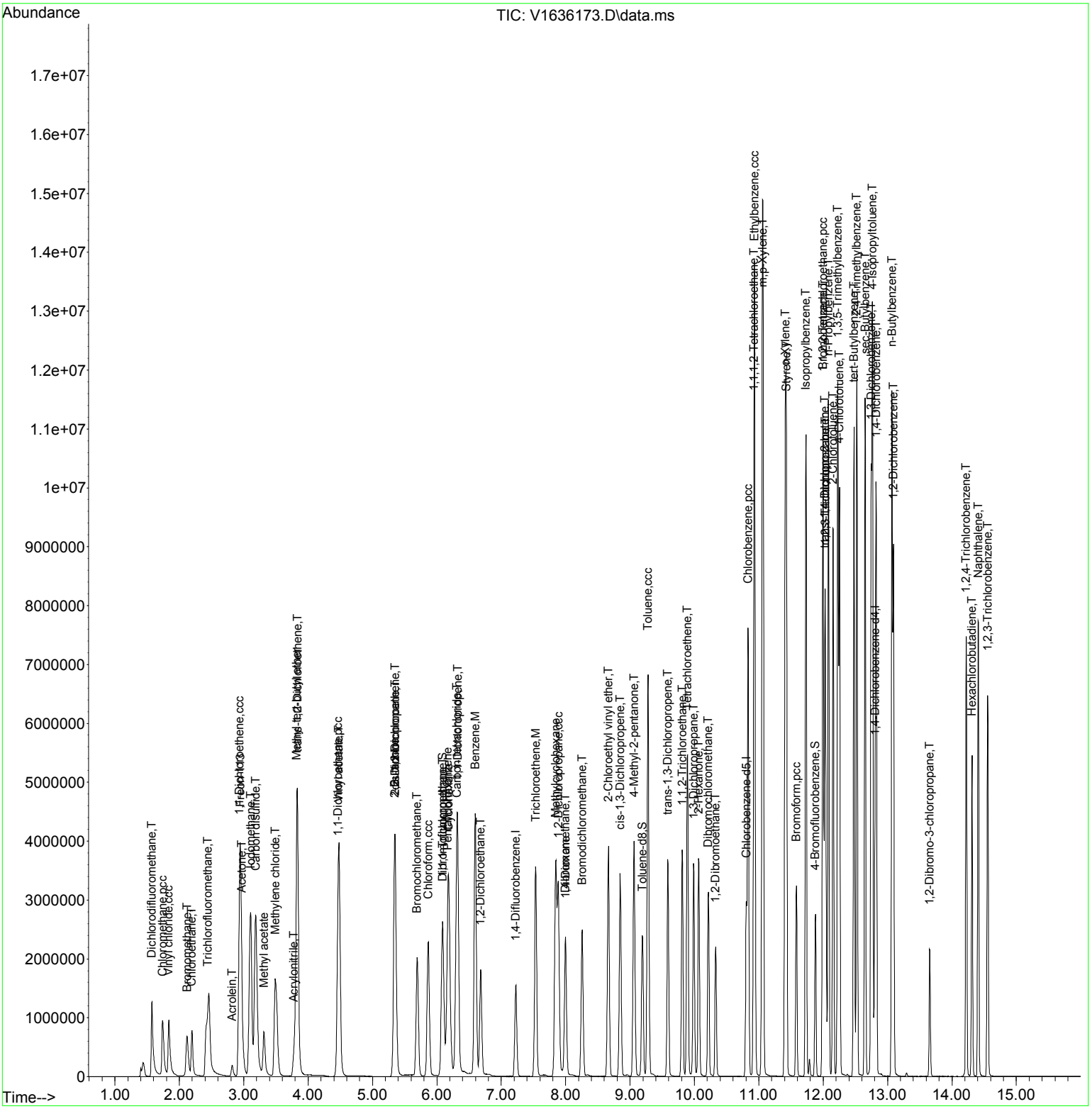
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) cis-1,3-Dichloropropene	8.847	75	2263532	221.65	ug/L	98
42) 4-Methyl-2-pentanone	9.062	43	3146667	418.89	ug/L	99
44) Toluene	9.278	92	3263867	209.93	ug/L	97
45) trans-1,3-Dichloropropene	9.586	75	2061690	228.80	ug/L	99
46) 1,1,2-Trichloroethane	9.811	83	1042675	216.95	ug/L	99
48) 2-Hexanone	10.065	43	2379902	412.51	ug/L	98
49) Tetrachloroethene	9.892	166	1731318	207.10	ug/L	97
50) 1,3-Dichloropropane	9.988	76	2019554	208.68	ug/L	100
51) Dibromochloromethane	10.217	129	1556142	231.79	ug/L	98
52) 1,2-Dibromoethane	10.329	107	1366925	216.32	ug/L	100
53) Chlorobenzene	10.834	112	3740381	204.83	ug/L	100
54) 1,1,1,2-Tetrachloroethane	10.924	131	1426578	221.34	ug/L	99
55) Ethylbenzene	10.934	91	6232749	206.74	ug/L	98
56) m,p-Xylene	11.062	91	9569769	407.00	ug/L	98
57) o-Xylene	11.409	91	5009009	212.58	ug/L	100
58) Styrene	11.429	104	4204192	220.81	ug/L	99
59) Bromoform	11.583	173	1300942	205.24	ug/L	98
62) Bromobenzene	11.995	156	1863604	207.98	ug/L	99
63) 1,1,2,2-Tetrachloroethane	11.998	83	1873499	215.46	ug/L	100
64) 1,2,3-Trichloropropane	12.030	75	3167026	209.89	ug/L	98
65) Isopropylbenzene	11.731	105	6166621	204.59	ug/L	98
66) n-Propylbenzene	12.081	91	7236241	202.58	ug/L	96
67) trans-1,4-Dichloro-2-b...	12.027	124	307054	447.51	ug/L	94
68) 2-Chlorotoluene	12.152	91	4363658	203.08	ug/L	100
69) 4-Chlorotoluene	12.252	91	5232043	205.08	ug/L	98
70) 1,3,5-Trimethylbenzene	12.226	105	5238922	211.58	ug/L	97
71) tert-Butylbenzene	12.477	119	4551131	210.33	ug/L	99
72) 1,2,4-Trimethylbenzene	12.522	105	5339790	211.65	ug/L	97
73) sec-Butylbenzene	12.651	105	6452224	213.93	ug/L	96
74) 1,3-Dichlorobenzene	12.747	146	3285774	211.21	ug/L	99
75) 4-Isopropyltoluene	12.766	119	5825785	216.80	ug/L	97
76) 1,4-Dichlorobenzene	12.821	146	3360290	207.90	ug/L	98
77) 1,2-Dichlorobenzene	13.091	146	3070912	216.16	ug/L	97
78) n-Butylbenzene	13.069	91	5108687	225.52	ug/L	97
79) 1,2-Dibromo-3-chloropr...	13.654	75	409791	229.48	ug/L	93
80) 1,2,4-Trichlorobenzene	14.220	180	1951415	256.15	ug/L	98
81) Hexachlorobutadiene	14.313	225	863315	238.29	ug/L	98
82) Naphthalene	14.409	128	4836491	245.61	ug/L	100
83) 1,2,3-Trichlorobenzene	14.554	180	1678217	273.77	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636173.D
Acq On : 08 Nov 2021 21:09
Operator : CM
Sample : ICAL 200 8260/624 (200uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 78 Sample Multiplier: 1

Quant Time: Nov 09 10:53:52 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636176.D
Acq On : 08 Nov 2021 22:14
Operator : CM
Sample : ICAL 20 8260/624 (20uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 80 Sample Multiplier: 1

Quant Time: Nov 09 10:51:18 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	6.165	168	1124824	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	7.223	114	1540656	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.802	117	1423864	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	12.802	152	825902	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	6.088	113	509919	49.84	ug/L		0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 99.68%				
43) Toluene-d8	9.191	98	1797879	49.97	ug/L		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.94%				
60) 4-Bromofluorobenzene	11.876	95	689549	49.74	ug/L		0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 99.48%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.568	85	162125	18.93	ug/L		100
3) Chloromethane	1.735	50	161343	19.97	ug/L		98
4) Vinyl chloride	1.831	62	141984	20.03	ug/L		97
5) Bromomethane	2.117	94	100593	21.37	ug/L		99
6) Chloroethane	2.198	64	105152	22.89	ug/L		98
7) Trichlorofluoromethane	2.423	101	228679	20.00	ug/L	#	100
8) Acrolein	2.815	56	16602	17.82	ug/L		97
9) 1,1-Dichloroethene	2.934	96	125458	21.69	ug/L		96
10) Freon-113	2.947	101	117666	19.91	µg/L		99
11) Acetone	2.960	58	24117	35.90	ug/L		93
12) Iodomethane	3.104	142	572931	47.48	ug/L		100
13) Carbon disulfide	3.182	76	695824	44.12	ug/L		100
14) Methyl acetate	3.310	43	109324	17.43	µg/L		97
15) Vinyl acetate	4.477	43	598810	41.12	ug/L		99
16) Methylene chloride	3.487	84	159473	21.57	ug/L		100
17) Acrylonitrile	3.773	53	45882	18.36	ug/L		95
18) Methyl tert-butyl ether	3.821	73	378730	21.46	µg/L		99
19) trans-1,2-Dichloroethene	3.831	96	150510	23.07	ug/L		98
20) 1,1-Dichloroethane	4.465	63	276465	23.39	ug/L		100
21) 2,2-Dichloropropane	5.349	77	133799	19.99	ug/L		97
22) cis-1,2-Dichloroethene	5.346	96	169853	23.54	ug/L		99
23) 2-Butanone	5.336	72	34912	38.14	µg/L		96
24) Bromochloromethane	5.690	128	83873	22.43	ug/L		98
25) Chloroform	5.860	83	283300	23.53	ug/L		98
26) Cyclohexane	6.182	56	216367	20.32	µg/L		98
27) 1,1,1-Trichloroethane	6.085	97	233970	22.62	ug/L		99
30) 1,1-Dichloropropene	6.317	110	74300	22.67	ug/L		95
31) Carbon tetrachloride	6.301	119	202496	23.04	ug/L		99
32) Benzene	6.593	78	596006	23.88	ug/L		99
33) 1,2-Dichloroethane	6.680	62	196150	22.61	ug/L		99
34) Trichloroethene	7.532	130	165906	23.82	ug/L		97
35) Methylcyclohexane	7.844	55	161750	22.47	µg/L		96
36) 1,2-Dichloropropane	7.882	63	153443	23.54	ug/L		100
37) Dibromomethane	7.995	93	95069	22.20	ug/L		98
38) 1,4-Dioxane	8.011	88	7360	156.70	µg/L	#	87
39) Bromodichloromethane	8.255	83	203148	23.65	ug/L		99
40) 2-Chloroethyl vinyl ether	8.661	63	197387	42.87	µg/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636176.D
Acq On : 08 Nov 2021 22:14
Operator : CM
Sample : ICAL 20 8260/624 (20uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 80 Sample Multiplier: 1

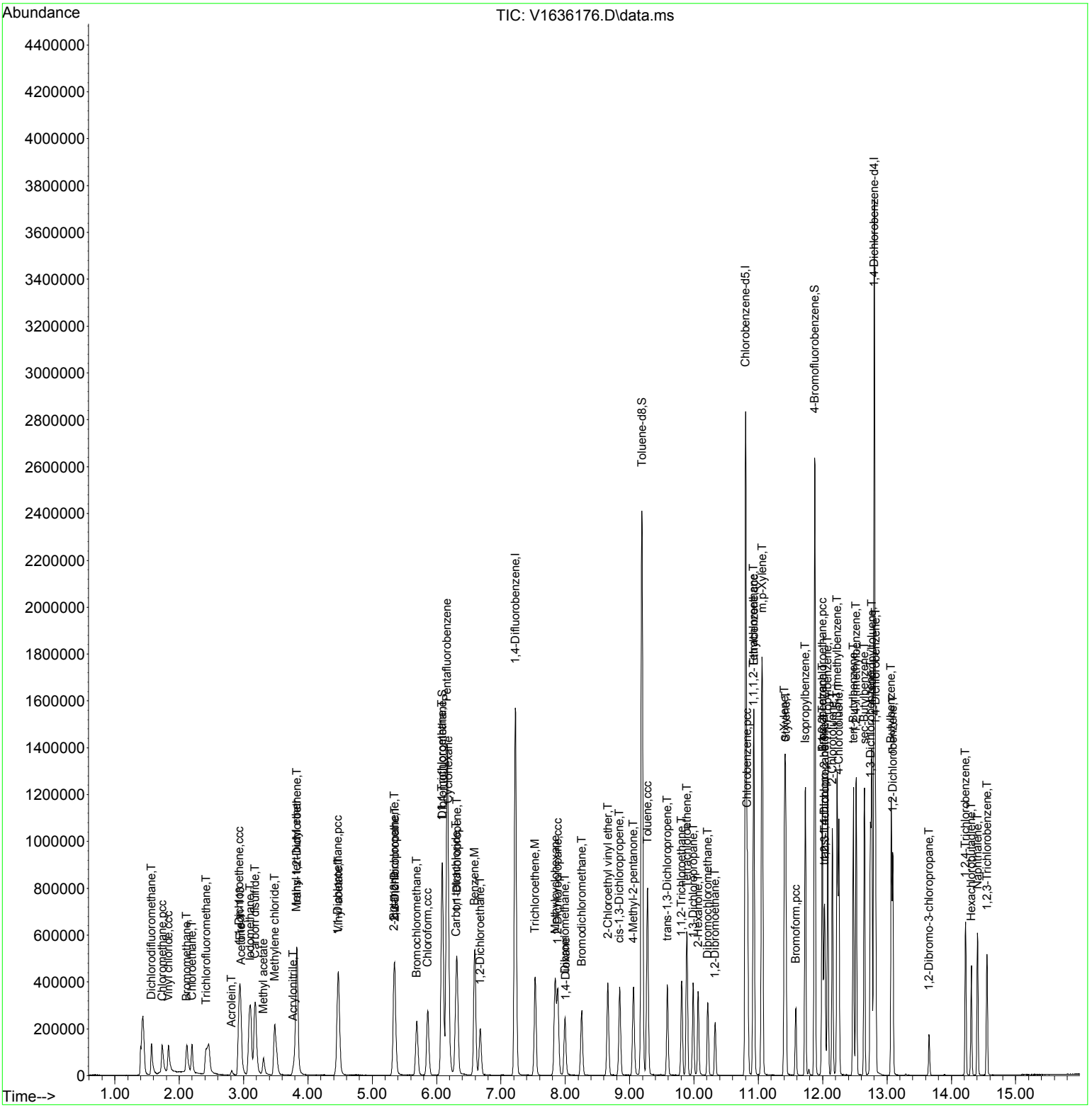
Quant Time: Nov 09 10:51:18 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) cis-1,3-Dichloropropene	8.844	75	242882	23.48	ug/L	99
42) 4-Methyl-2-pentanone	9.059	43	306203	40.24	ug/L	99
44) Toluene	9.278	92	374638	23.79	ug/L	99
45) trans-1,3-Dichloropropene	9.587	75	209611	22.96	ug/L	99
46) 1,1,2-Trichloroethane	9.808	83	108429	22.27	ug/L	99
48) 2-Hexanone	10.066	43	229407	40.50	ug/L	100
49) Tetrachloroethene	9.889	166	188770	23.00	ug/L	100
50) 1,3-Dichloropropane	9.988	76	213697	22.49	ug/L	99
51) Dibromochloromethane	10.214	129	155017	23.52	ug/L	100
52) 1,2-Dibromoethane	10.329	107	137352	22.14	ug/L	97
53) Chlorobenzene	10.831	112	429622	23.96	ug/L	98
54) 1,1,1,2-Tetrachloroethane	10.924	131	155371	24.55	ug/L	98
55) Ethylbenzene	10.931	91	706188	23.86	ug/L	99
56) m,p-Xylene	11.059	91	1105431	47.89	ug/L	100
57) o-Xylene	11.406	91	557911	24.12	ug/L	100
58) Styrene	11.426	104	457111	24.45	ug/L	99
59) Bromoform	11.583	173	111842	18.74	ug/L	100
62) Bromobenzene	11.995	156	198540	23.76	ug/L	98
63) 1,1,2,2-Tetrachloroethane	11.995	83	172359	21.26	ug/L	98
64) 1,2,3-Trichloropropane	12.030	75	290068	20.61	ug/L	100
65) Isopropylbenzene	11.731	105	677511	24.10	ug/L	100
66) n-Propylbenzene	12.078	91	795410	23.88	ug/L	100
67) trans-1,4-Dichloro-2-b...	12.024	124	24667	38.55	ug/L	94
68) 2-Chlorotoluene	12.152	91	484047	24.16	ug/L	99
69) 4-Chlorotoluene	12.252	91	574548	24.15	ug/L	100
70) 1,3,5-Trimethylbenzene	12.226	105	563516	24.41	ug/L	99
71) tert-Butylbenzene	12.477	119	486652	24.12	ug/L	99
72) 1,2,4-Trimethylbenzene	12.522	105	575488	24.46	ug/L	98
73) sec-Butylbenzene	12.648	105	680420	24.19	ug/L	99
74) 1,3-Dichlorobenzene	12.744	146	347272	23.94	ug/L	99
75) 4-Isopropyltoluene	12.763	119	606920	24.22	ug/L	99
76) 1,4-Dichlorobenzene	12.821	146	359987	23.88	ug/L	99
77) 1,2-Dichlorobenzene	13.091	146	314314	23.73	ug/L	98
78) n-Butylbenzene	13.066	91	505217	23.92	ug/L	99
79) 1,2-Dibromo-3-chloropr...	13.654	75	32267	19.38	ug/L	98
80) 1,2,4-Trichlorobenzene	14.220	180	167528	23.58	ug/L	98
81) Hexachlorobutadiene	14.310	225	74105	21.93	ug/L	97
82) Naphthalene	14.406	128	376252	20.49	ug/L	100
83) 1,2,3-Trichlorobenzene	14.554	180	134867	23.59	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MS-16\New\Raw Data\211108\
Data File : V1636176.D
Acq On : 08 Nov 2021 22:14
Operator : CM
Sample : ICAL 20 8260/624 (20uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 80 Sample Multiplier: 1

Quant Time: Nov 09 10:51:18 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 10:40:53 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211109\
Data File : V1636179.D
Acq On : 09 Nov 2021 11:00
Operator : CM
Sample : ICV 20 8260/624 (20uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 83 Sample Multiplier: 1

Quant Time: Nov 09 11:18:06 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 11:06:18 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	6.162	168	1121853	50.00	ug/L	0.00
28) 1,4-Difluorobenzene	7.220	114	1544078	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.802	117	1446060	50.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.802	152	827076	50.00	ug/L	0.00
System Monitoring Compounds						
29) Dibromofluoromethane	6.085	113	511868	49.92	ug/L	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 99.84%			
43) Toluene-d8	9.188	98	1799112	49.89	ug/L	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.78%			
60) 4-Bromofluorobenzene	11.876	95	693810	49.28	ug/L	0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 98.56%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.571	85	175443	20.54	ug/L	100
3) Chloromethane	1.738	50	153640	19.07	ug/L	99
4) Vinyl chloride	1.834	62	146445	20.72	ug/L	99
5) Bromomethane	2.117	94	91458	19.44	ug/L	99
6) Chloroethane	2.198	64	96593	21.08	ug/L	99
7) Trichlorofluoromethane	2.423	101	238207	20.89	ug/L #	97
8) Acrolein	2.812	56	18858	20.30	ug/L	100
9) 1,1-Dichloroethene	2.924	96	124030	21.50	ug/L	96
10) Freon-113	2.950	101	129233	21.93	µg/L	99
11) Acetone	2.957	58	25400	37.91	ug/L	95
12) Iodomethane	3.088	142	503313	41.81	ug/L	99
13) Carbon disulfide	3.175	76	671008	42.66	ug/L	100
14) Methyl acetate	3.307	43	113534	18.15	µg/L	100
15) Vinyl acetate	4.474	43	589809	40.61	ug/L	99
16) Methylene chloride	3.481	84	140319	19.03	ug/L	99
17) Acrylonitrile	3.773	53	49504	19.86	ug/L	96
18) Methyl tert-butyl ether	3.821	73	358055	20.34	µg/L	99
19) trans-1,2-Dichloroethene	3.828	96	137972	21.21	ug/L	99
20) 1,1-Dichloroethane	4.464	63	243192	20.63	ug/L	99
21) 2,2-Dichloropropane	5.345	77	156609	23.46	ug/L	96
22) cis-1,2-Dichloroethene	5.342	96	147184	20.45	ug/L	96
23) 2-Butanone	5.333	72	37238	40.78	µg/L	95
24) Bromochloromethane	5.690	128	75746	20.31	ug/L	98
25) Chloroform	5.860	83	250461	20.85	ug/L	99
26) Cyclohexane	6.178	56	233044	22.08	µg/L	97
27) 1,1,1-Trichloroethane	6.082	97	227579	22.06	ug/L	99
30) 1,1-Dichloropropene	6.320	110	74171	22.58	ug/L	97
31) Carbon tetrachloride	6.300	119	204596	23.22	ug/L	98
32) Benzene	6.590	78	526099	21.03	ug/L	99
33) 1,2-Dichloroethane	6.677	62	178944	20.58	ug/L	100
34) Trichloroethene	7.529	130	151154	21.65	ug/L	97
35) Methylcyclohexane	7.841	55	177546	24.61	µg/L	98
36) 1,2-Dichloropropane	7.882	63	136522	20.90	ug/L	100
37) Dibromomethane	7.992	93	87848	20.47	ug/L	98
38) 1,4-Dioxane	7.995	88	8820	187.37	µg/L #	97
39) Bromodichloromethane	8.252	83	180243	20.93	ug/L	99
40) 2-Chloroethyl vinyl ether	8.657	63	186920	40.50	µg/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211109\
Data File : V1636179.D
Acq On : 09 Nov 2021 11:00
Operator : CM
Sample : ICV 20 8260/624 (20uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 83 Sample Multiplier: 1

Quant Time: Nov 09 11:18:06 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 11:06:18 2021
Response via : Initial Calibration

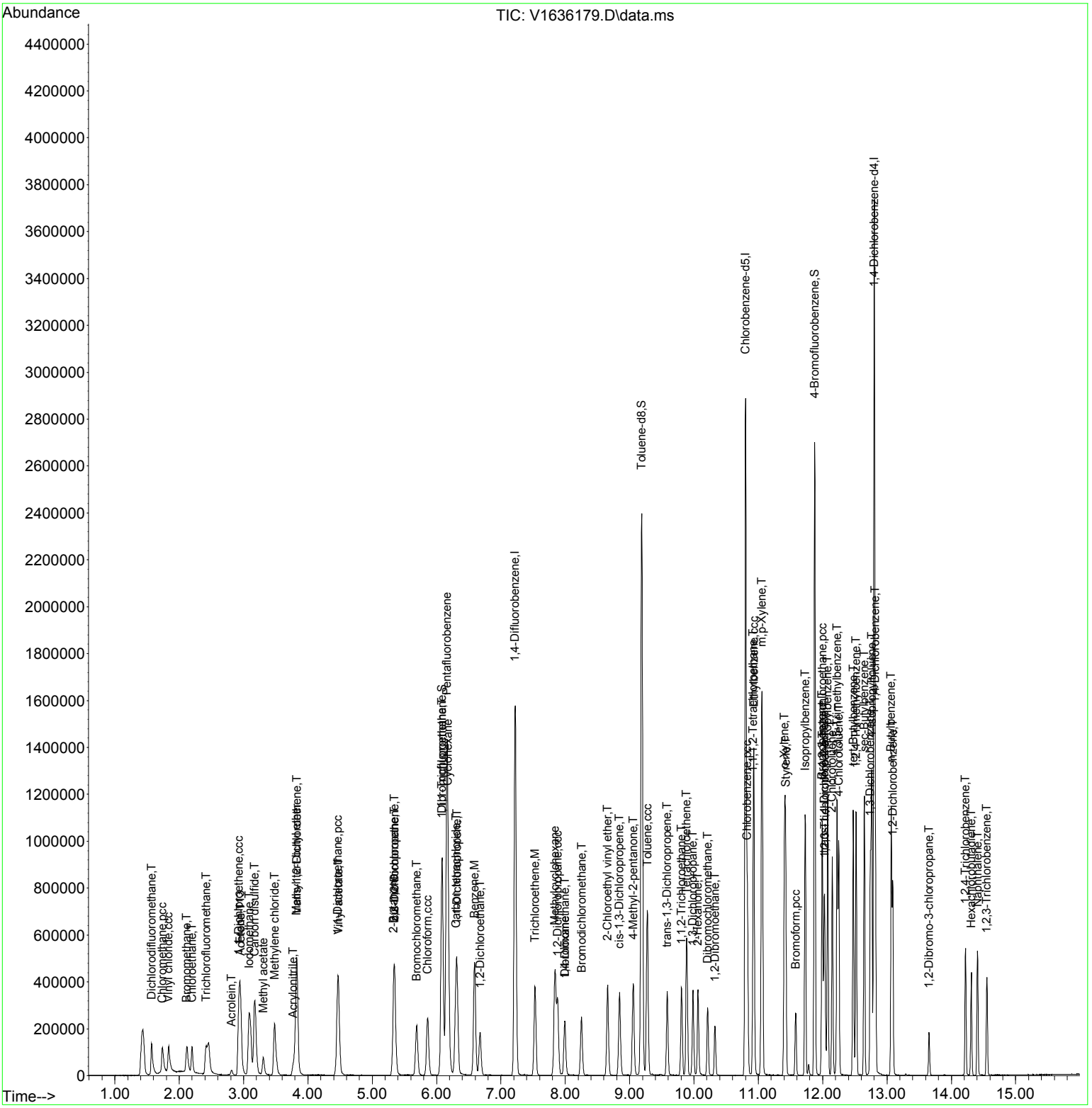
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) cis-1,3-Dichloropropene	8.844	75	223602	21.57	ug/L	98
42) 4-Methyl-2-pentanone	9.056	43	310043	40.66	ug/L	99
44) Toluene	9.275	92	335915	21.28	ug/L	98
45) trans-1,3-Dichloropropene	9.583	75	196889	21.52	ug/L	99
46) 1,1,2-Trichloroethane	9.808	83	100068	20.51	ug/L	100
48) 2-Hexanone	10.062	43	232734	40.46	ug/L	99
49) Tetrachloroethene	9.885	166	184237	22.10	ug/L	97
50) 1,3-Dichloropropane	9.985	76	197003	20.42	ug/L	98
51) Dibromochloromethane	10.213	129	141381	21.12	ug/L	99
52) 1,2-Dibromoethane	10.326	107	129269	20.52	ug/L	99
53) Chlorobenzene	10.831	112	379063	20.82	ug/L	98
54) 1,1,1,2-Tetrachloroethane	10.921	131	137474	21.39	ug/L	99
55) Ethylbenzene	10.930	91	640210	21.30	ug/L	100
56) m,p-Xylene	11.056	91	998574	42.59	ug/L	99
57) o-Xylene	11.406	91	491904	20.94	ug/L	100
58) Styrene	11.426	104	401935	21.17	ug/L	100
59) Bromoform	11.580	173	107755	17.82	ug/L	97
62) Bromobenzene	11.992	156	176334	21.07	ug/L	99
63) 1,1,2,2-Tetrachloroethane	11.995	83	170230	20.96	ug/L	100
64) 1,2,3-Trichloropropane	12.030	75	296774	21.06	ug/L	100
65) Isopropylbenzene	11.728	105	631705	22.44	ug/L	100
66) n-Propylbenzene	12.078	91	746283	22.37	ug/L	100
67) trans-1,4-Dichloro-2-b...	12.024	124	26810	41.84	ug/L	96
68) 2-Chlorotoluene	12.149	91	428639	21.36	ug/L	99
69) 4-Chlorotoluene	12.249	91	510739	21.44	ug/L	99
70) 1,3,5-Trimethylbenzene	12.223	105	505177	21.85	ug/L	98
71) tert-Butylbenzene	12.474	119	457152	22.62	ug/L	100
72) 1,2,4-Trimethylbenzene	12.522	105	511931	21.73	ug/L	100
73) sec-Butylbenzene	12.647	105	652513	23.17	ug/L	100
74) 1,3-Dichlorobenzene	12.741	146	308864	21.26	ug/L	99
75) 4-Isopropyltoluene	12.763	119	569349	22.69	ug/L	100
76) 1,4-Dichlorobenzene	12.818	146	316701	20.98	ug/L	98
77) 1,2-Dichlorobenzene	13.088	146	275910	20.80	ug/L	98
78) n-Butylbenzene	13.065	91	480114	22.70	ug/L	100
79) 1,2-Dibromo-3-chloropr...	13.654	75	33718	20.22	ug/L	94
80) 1,2,4-Trichlorobenzene	14.220	180	136988	19.26	ug/L	99
81) Hexachlorobutadiene	14.310	225	68852	20.35	ug/L	97
82) Naphthalene	14.406	128	338510	18.41	ug/L	100
83) 1,2,3-Trichlorobenzene	14.551	180	106579	18.62	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-16\New\Raw Data\211109\
Data File : V1636179.D
Acq On : 09 Nov 2021 11:00
Operator : CM
Sample : ICV 20 8260/624 (20uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 83 Sample Multiplier: 1

Quant Time: Nov 09 11:18:06 2021
Quant Method : C:\MS-16\New\Calculation Methods\MS-16_VW_LOW_110821.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Nov 09 11:06:18 2021
Response via : Initial Calibration



Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **12/14/2021 9:47:00**
Prep End Date: **12/15/2021 9:46:00**

Prep Batch **327367** Prep Code: **5030** Technician: **Juzer Taibali**

Prep Factor Units: **mL / mL**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2112G62-001A	Surface Water		5	0	0	5	1.000	12/14/2021	12/15/2021
2112G62-002A	Surface Water		5	0	0	5	1.000	12/14/2021	12/15/2021
2112G62-003A	Surface Water		5	0	0	5	1.000	12/14/2021	12/15/2021
2112G62-003AMS	Surface Water		5	0	0	5	1.000	12/14/2021	12/15/2021
2112G62-003AMSD	Surface Water		5	0	0	5	1.000	12/14/2021	12/15/2021
2112G62-011A	Surface Water		5	0	0	5	1.000	12/14/2021	12/15/2021
2112G62-012A	Surface Water		5	0	0	5	1.000	12/14/2021	12/15/2021
2112G62-013A	Aqueous		5	0	0	5	1.000	12/14/2021	12/15/2021
2112H10-013A	Trip Blank		5	0	0	5	1.000	12/14/2021	12/15/2021
LCS-327367			5	0	0	5	1.000	12/14/2021	12/15/2021
MB-327367			5	0	0	5	1.000	12/14/2021	12/15/2021

Injection Log

Directory: C:\MS-9\New\Raw Data\S211214

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	S21121401.D	1.	DFTPP	TUNE DFTPP_4	14 Dec 2021 09:36
2	1	S21121402.D	1.	DFTPP	TUNE DFTPP_4	14 Dec 2021 10:02
3	1	S21121403.D	1.	DFTPP	TUNE DFTPP_4	14 Dec 2021 10:27
4	3	S21121404.D	1.	EX40	CCV 625.1	14 Dec 2021 11:19
5	2	S21121405.D	1.	bna40	CCV 8270_TCL4.2_W	14 Dec 2021 10:53
6	2	S21121408.D	1.	bna60	CCV 8270_TCL4.2_W	14 Dec 2021 16:54
7	24	S21121439.D	1.	2112C96-018B	SAMP 8270_TCL4.2_W	14 Dec 2021 17:20
8	25	S21121440.D	1.	LCS-327119	LCS 1311_B	14 Dec 2021 17:46
9	26	S21121441.D	1.	2112C61-004B	SAMP 8270_TCL4.2_W	14 Dec 2021 11:45
10	27	S21121442.D	1.	2112C61-005D	SAMP 8270_TCL4.2_W	14 Dec 2021 12:11
11	28	S21121443.D	1.	2112C61-006D	SAMP 8270_TCL4.2_W	14 Dec 2021 13:52
12	29	S21121444.D	1.	2112C61-007D	SAMP 8270_TCL4.2_W	14 Dec 2021 14:17
13	34	S21121449.D	1.	2112C29-017B	SAMP 8270_TCL4.2_W	14 Dec 2021 18:38
14	35	S21121450.D	1.	2112A10-001D	SAMP 8270_TCL4.2_W	14 Dec 2021 19:04
15	36	S21121451.D	1.	2112C45-005D	SAMP 8270_TCL4.2_W	14 Dec 2021 19:30
16	37	S21121452.D	1.	2112C45-006D	SAMP 8270_TCL4.2_W	14 Dec 2021 19:55
17	38	S21121453.D	1.	MB-327269	MBLK 8270_TCL4.2_S	14 Dec 2021 12:36
18	39	S21121454.D	1.	LCS-327269	LCS 8270_TCL4.2_S	14 Dec 2021 13:02
19	40	S21121455.D	1.	2112G62-004D	SAMP 8270_TCL4.2_S	14 Dec 2021 13:27
20	41	S21121456.D	1.	MB-327248	MBLK 8270_TCL4.2_W	14 Dec 2021 14:43
21	42	S21121457.D	1.	LCS-327248	LCS 8270_TCL4.2_W	14 Dec 2021 15:08
22	43	S21121458.D	1.	2112G62-003C	SAMP 8270_TCL4.2_W	14 Dec 2021 15:36
23	44	S21121459.D	1.	2112G62-003CMS	MS 8270_TCL4.2_W	14 Dec 2021 20:21
24	45	S21121460.D	1.	2112G62-003CMSD	MSD 8270_TCL4.2_W	14 Dec 2021 20:47
25	46	S21121461.D	1.	2112G62-001C	SAMP 8270_TCL4.2_W	14 Dec 2021 16:02
26	47	S21121462.D	1.	2112D95-001B	SAMP 1311_B	14 Dec 2021 16:28
27	48	S21121463.D	1.	2112E60-001B	SAMP 1311_B	14 Dec 2021 21:13
28	49	S21121464.D	1.	2112E60-002B	SAMP 1311_B	14 Dec 2021 21:39
29	50	S21121465.D	1.	2112C13-001B	SAMP 1311_B	14 Dec 2021 22:06
30	51	S21121466.D	1.	2112A79-001B	SAMP 1311_B	14 Dec 2021 22:32
31	52	S21121467.D	1.	MB-327197	MBLK 8270_SC_TCL4.2_S	14 Dec 2021 22:59
32	53	S21121468.D	1.	LCS-327197	LCS 8270_SC_TCL4.2_S	14 Dec 2021 23:25
33	54	S21121469.D	1.	2112F13-012A	SAMP 8270_SC_TCL4.2_S	14 Dec 2021 23:51

Injection Log

Directory: C:\MS-9\New\Raw Data\S211214

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
34	55	S21121470.D	1.	2112F13-012AMS	MS 8270_SC_TCL4.2_S	15 Dec 2021 00:18
35	56	S21121471.D	1.	2112F13-012AMSD	MSD 8270_SC_TCL4.2_S	15 Dec 2021 00:45
36	57	S21121472.D	1.	2112692-001B	SAMP 8270_SC_TCL4.2_S	15 Dec 2021 01:11
37	58	S21121473.D	1.	2112822-004B	SAMP 8270_SC_TCL4.2_S	15 Dec 2021 01:37
38	59	S21121474.D	1.	2112A80-001B	SAMP 8270_SC_TCL4.2_S	15 Dec 2021 02:04
39	60	S21121475.D	1.	2112A80-002B	SAMP 8270_SC_TCL4.2_S	15 Dec 2021 02:30
40	61	S21121476.D	1.	2112A80-003B	SAMP 8270_SC_TCL4.2_S	15 Dec 2021 02:56
41	62	S21121477.D	1.	2112A80-004B	SAMP 8270_SC_TCL4.2_S	15 Dec 2021 03:22
42	30	S21121490.D	1.	2112C96-019B	SAMP 8270_TCL4.2_W	14 Dec 2021 18:12

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121405.D
Acq On : 14 Dec 2021 10:53 am
Operator : YH
Sample : bna40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 13:58:55 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	114	0.00
2		Pyridine	60.000	52.693	12.2	101	0.00
3	T	2-Picoline	60.000	55.291	7.8	103	-0.03
4	T	Methyl methanesulfonate	60.000	41.015	31.6#	79	0.00
5	S	2-Fluorophenol	60.000	52.328	12.8	98	0.02
6	T	Ethyl methanesulfonate	60.000	52.617	12.3	99	0.00
7	P	Benzaldehyde	60.000	59.530	0.8	110	0.00
8	T	Aniline	60.000	37.299	37.8#	70	0.00
9	S	Phenol-d5	60.000	58.583	2.4	112	0.03
10	P	Phenol	60.000	52.351	12.7	107	0.03
11	P	Bis(2-chloroethyl)ether	60.000	54.874	8.5	107	0.00
12	P	2-Chlorophenol	60.000	60.402	-0.7	114	0.00
13	T	1,3-Dichlorobenzene	60.000	57.759	3.7	109	0.00
14	CCC	1,4-Dichlorobenzene	60.000	57.419	4.3	109	0.00
15	T	1,2-Dichlorobenzene	60.000	59.151	1.4	112	0.00
16	T	Benzyl alcohol	60.000	49.393	17.7	95	0.00
17	T	Bis(2-chloroisopropyl)ether	60.000	42.881	28.5#	82	0.00
18	P	2-Methylphenol	60.000	57.546	4.1	109	0.01
19	T	3,4-Methylphenol	120.000	117.015	2.5	109	0.01
20	PC	N-Nitrosodi-n-propylamine	60.000	55.709	7.2	104	-0.01
21	T	N-Nitrosodimethylamine	60.000	48.215	19.6	90	0.00
22	T	Hexachloroethane	60.000	56.773	5.4	109	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	113	0.00
24	S	Nitrobenzene-d5	60.000	54.345	9.4	103	0.00
25	P	Acetophenone	120.000	112.668	6.1	107	0.00
26	P	Nitrobenzene	60.000	56.416	6.0	107	0.00
27	T	N-Nitrosopiperidine	60.000	57.499	4.2	110	0.00
28	P	Isophorone	60.000	54.889	8.5	103	0.00
29	P	2-Nitrophenol	60.000	58.839	1.9	108	0.00
30	P	2,4-Dimethylphenol	60.000	55.637	7.3	105	0.00
31	P	Bis(2-chloroethoxy)methane	60.000	55.180	8.0	103	0.00
32	P	2,4-Dichlorophenol	60.000	57.837	3.6	109	0.00
33	T	1,2,4-Trichlorobenzene	60.000	58.143	3.1	112	0.00
34	P	Naphthalene	60.000	59.698	0.5	114	0.00
35	T	Benzoic acid	60.000	0.000	100.0#	0	-5.62#
36	T	2,6-Dichlorophenol	60.000	57.740	3.8	108	0.00
37	P	4-Chloroaniline	60.000	50.583	15.7	94	0.00
38	P	Hexachlorobutadiene	60.000	56.581	5.7	108	0.00
39	T	a,a-Dimethylphenethylamine	60.000	43.156	28.1#	82	-0.09
40	P	Caprolactam	60.000	62.199	-3.7	113	-0.03
41	P	4-Chloro-3-methylphenol	60.000	54.540	9.1	101	0.02
42	T	N-Nitrosodi-n-butylamine	60.000	47.129	21.5	79	0.00
43	P	2-Methylnaphthalene	60.000	58.754	2.1	111	0.00
44	T	1-Methylnaphthalene	60.000	58.290	2.9	109	0.00
45	I	Acenaphthene-d10	40.000	40.000	0.0	118	0.00
46	T	1,2,4,5-Tetrachlorobenzene	60.000	55.493	7.5	111	0.00
47	P	Hexachlorocyclopentadiene	60.000	51.098	14.8	100	0.00
48	P	2,4,6-Trichlorophenol	60.000	49.907	16.8	97	0.00
49	P	2,4,5-Trichlorophenol	60.000	45.440	24.3	88	0.01
50	S	2-Fluorobiphenyl	60.000	59.299	1.2	114	0.00
51		Biphenyl	60.000	59.076	1.5	115	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121405.D
Acq On : 14 Dec 2021 10:53 am
Operator : YH
Sample : bna40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 13:58:55 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	P	2-Chloronaphthalene	60.000	57.906	3.5	115	0.00
53	T	1-Chloronaphthalene	60.000	57.806	3.7	109	0.00
54	P	2-Nitroaniline	60.000	46.002	23.3	89	0.00
55	P	3-Nitroaniline	60.000	51.120	14.8	98	0.00
56	T	Pentachlorobenzene	60.000	55.543	7.4	108	0.00
57	T	4-Nitroaniline	60.000	51.949	13.4	101	0.00
58	T	2-Naphthylamine	60.000	38.211	36.3#	75	0.00
59	T	1-Naphthylamine	60.000	31.056	48.2#	61	0.00
60	P	Dimethyl phthalate	60.000	60.451	-0.8	117	0.00
61	P	Acenaphthylene	60.000	57.493	4.2	111	0.00
62	P	2,6-Dinitrotoluene	60.000	60.681	-1.1	114	0.00
63	P	Acenaphthene	60.000	60.838	-1.4	119	0.00
64	P	2,4-Dinitrophenol	60.000	38.473	35.9#	69	0.04
65	P	Dibenzofuran	60.000	58.835	1.9	116	0.00
66	P	4-Nitrophenol	60.000	40.498	32.5#	74	0.04
67	P	2,4-Dinitrotoluene	60.000	59.273	1.2	113	0.00
68	T	2,3,4,6-Tetrachlorophenol	60.000	41.929	30.1#	78	0.00
69	P	Diethyl phthalate	60.000	60.003	-0.0	115	0.00
70	P	Fluorene	60.000	59.281	1.2	116	0.00
71	P	4-Chlorophenyl phenyl ether	60.000	58.850	1.9	113	0.00
72	S	2,4,6-Tribromophenol	60.000	50.354	16.1	97	0.00
73	I	Phenanthrene-d10	40.000	40.000	0.0	122	0.00
74	P	4,6-Dinitro-2-methylphenol	60.000	35.732	40.4#	65	0.00
75	T	Azobenzene	60.000	59.793	0.3	120	0.00
76	T	1,2-Diphenylhydrazine	60.000	56.831	5.3	114	0.00
77	CCC	Diphenylamine	60.000	55.538	7.4	110	0.00
78	P	N-Nitrosodiphenylamine	60.000	56.036	6.6	111	0.00
79	P	4-Bromophenyl phenyl ether	60.000	55.733	7.1	113	0.00
80	T	Phenacetin	60.000	56.287	6.2	111	0.00
81	P	Hexachlorobenzene	60.000	58.391	2.7	118	0.00
82	P	Atrazine	60.000	49.727	17.1	98	0.00
83	T	4-Aminobiphenyl	60.000	39.809	33.7#	79	0.00
84	P	Pentachlorophenol	60.000	34.118	43.1#	68	0.00
85	T	Pentachloronitrobenzene	60.000	51.313	14.5	102	0.00
86	T	Pronamide	60.000	53.368	11.1	106	0.00
87	P	Phenanthrene	60.000	56.364	6.1	113	0.00
88	P	Anthracene	60.000	56.233	6.3	113	0.00
89	P	Carbazole	60.000	59.566	0.7	118	0.00
90	P	Di-n-butyl phthalate	60.000	59.804	0.3	118	0.00
91	P	Fluoranthene	60.000	58.257	2.9	116	0.00
92	I	Chrysene-d12	40.000	40.000	0.0	122	0.00
93	P	Pyrene	60.000	57.550	4.1	116	0.00
94	S	4-Terphenyl-d14	60.000	56.312	6.1	114	0.00
95	T	Benzidine	60.000	30.119	49.8#	60	-0.01
96	T	p-Dimethylaminoazobenzene	60.000	54.742	8.8	107	0.00
97	P	Butyl benzyl phthalate	60.000	59.184	1.4	117	0.00
98	P	Benz(a)anthracene	60.000	56.909	5.2	115	0.00
99	P	3,3'-Dichlorobenzidine	60.000	53.095	11.5	106	0.00
100	P	Chrysene	60.000	57.120	4.8	116	0.00
101	P	Bis(2-ethylhexyl)phthalate	60.000	59.053	1.6	115	0.00
102	P	Di-n-octyl phthalate	60.000	60.580	-1.0	120	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121405.D
Acq On : 14 Dec 2021 10:53 am
Operator : YH
Sample : bna40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 13:58:55 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	60.000	56.864	5.2	109	-0.01
104	I	Perylene-d12	40.000	40.000	0.0	130	-0.01
105	P	Benzo[b]fluoranthene	60.000	50.807	15.3	108	0.01
106	P	Benzo[k]fluoranthene	60.000	65.575	-9.3	140	0.00
107	P	Benzo[a]pyrene	60.000	60.539	-0.9	127	0.00
108	T	Dibenz(a,j)acridine	60.000	60.544	-0.9	124	0.00
109		Indeno[1,2,3-cd]pyrene	60.000	58.482	2.5	121	0.00
110	P	Dibenz(a,h)anthracene	60.000	60.366	-0.6	123	0.00
111	P	Benzo[g,h,i]perylene	60.000	58.541	2.4	124	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121405.D
Acq On : 14 Dec 2021 10:53 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 13:58:55 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	114	0.00
2		Pyridine	1.678	1.474	12.2	101	0.00
3	T	2-Picoline	1.646	1.517	7.8	103	0.00
4	T	Methyl methanesulfonate	0.820	0.561	31.6#	79	0.00
5	S	2-Fluorophenol	1.373	1.197	12.8	98	0.00
6	T	Ethyl methanesulfonate	1.239	1.087	12.3	99	0.00
7	P	Benzaldehyde	0.942	0.934	0.8	110	0.00
8	T	Aniline	1.016	0.632	37.8#	70	0.00
9	S	Phenol-d5	1.679	1.640	2.3	112	0.00
10	P	Phenol	1.995	1.741	12.7	107	0.00
11	P	Bis(2-chloroethyl)ether	1.405	1.285	8.5	107	0.00
12	P	2-Chlorophenol	1.491	1.501	-0.7	114	0.00
13	T	1,3-Dichlorobenzene	1.651	1.589	3.8	109	0.00
14	CCC	1,4-Dichlorobenzene	1.660	1.588	4.3	109	0.00
15	T	1,2-Dichlorobenzene	1.574	1.552	1.4	112	0.00
16	T	Benzyl alcohol	0.994	0.818	17.7	95	0.00
17	T	Bis(2-chloroisopropyl)ether	2.652	1.895	28.5#	82	0.00
18	P	2-Methylphenol	1.196	1.147	4.1	109	0.00
19	T	3,4-Methylphenol	1.538	1.500	2.5	109	0.00
20	PC	N-Nitrosodi-n-propylamine	1.035	0.961	7.1	104	0.00
21	T	N-Nitrosodimethylamine	0.925	0.743	19.7	90	0.00
22	T	Hexachloroethane	0.637	0.603	5.3	109	0.00
23	I	Naphthalene-d8	1.000	1.000	0.0	113	0.00
24	S	Nitrobenzene-d5	0.371	0.336	9.4	103	0.00
25	P	Acetophenone	0.503	0.472	6.2	107	0.00
26	P	Nitrobenzene	0.185	0.174	5.9	107	0.00
27	T	N-Nitrosopiperidine	0.187	0.179	4.3	110	0.00
28	P	Isophorone	0.733	0.671	8.5	103	0.00
29	P	2-Nitrophenol	0.192	0.188	2.1	108	0.00
30	P	2,4-Dimethylphenol	0.329	0.305	7.3	105	0.00
31	P	Bis(2-chloroethoxy)methane	0.429	0.395	7.9	103	0.00
32	P	2,4-Dichlorophenol	0.292	0.281	3.8	109	0.00
33	T	1,2,4-Trichlorobenzene	0.323	0.313	3.1	112	0.00
34	P	Naphthalene	1.117	1.111	0.5	114	0.00
35	T	Benzoic acid	0.210	0.000	100.0#	0#	-5.62#
36	T	2,6-Dichlorophenol	0.284	0.274	3.5	108	0.00
37	P	4-Chloroaniline	0.455	0.384	15.6	94	0.00
38	P	Hexachlorobutadiene	0.158	0.149	5.7	108	0.00
39	T	a,a-Dimethylphenethylamine	1.198	0.862	28.0#	82	0.00
40	P	Caprolactam	0.115	0.120	-4.3	113	0.00
41	P	4-Chloro-3-methylphenol	0.306	0.278	9.2	101	0.00
42	T	N-Nitrosodi-n-butylamine	0.279	0.219	21.5	79	0.00
43	P	2-Methylnaphthalene	0.638	0.624	2.2	111	0.00
44	T	1-Methylnaphthalene	0.617	0.599	2.9	109	0.00
45	I	Acenaphthene-d10	1.000	1.000	0.0	118	0.00
46	T	1,2,4,5-Tetrachlorobenzene	0.535	0.494	7.7	111	0.00
47	P	Hexachlorocyclopentadiene	0.326	0.277	15.0	100	0.00
48	P	2,4,6-Trichlorophenol	0.372	0.309	16.9	97	0.00
49	P	2,4,5-Trichlorophenol	0.394	0.298	24.4	88	0.00
50	S	2-Fluorobiphenyl	1.315	1.300	1.1	114	0.00
51		Biphenyl	1.572	1.548	1.5	115	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121405.D
Acq On : 14 Dec 2021 10:53 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 13:58:55 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	P	2-Chloronaphthalene	1.214	1.172	3.5	115	0.00
53	T	1-Chloronaphthalene	1.070	1.031	3.6	109	0.00
54	P	2-Nitroaniline	0.423	0.325	23.2	89	0.00
55	P	3-Nitroaniline	0.392	0.334	14.8	98	0.00
56	T	Pentachlorobenzene	0.443	0.410	7.4	108	0.00
57	T	4-Nitroaniline	0.385	0.333	13.5	101	0.00
58	T	2-Naphthylamine	1.269	0.808	36.3#	75	0.00
59	T	1-Naphthylamine	1.321	0.684	48.2#	61	0.00
60	P	Dimethyl phthalate	1.310	1.320	-0.8	117	0.00
61	P	Acenaphthylene	1.915	1.835	4.2	111	0.00
62	P	2,6-Dinitrotoluene	0.298	0.302	-1.3	114	0.00
63	P	Acenaphthene	1.148	1.164	-1.4	119	0.00
64	P	2,4-Dinitrophenol	0.161	0.092	42.9#	69	0.00
65	P	Dibenzofuran	1.678	1.645	2.0	116	0.00
66	P	4-Nitrophenol	0.211	0.143	32.2#	74	0.00
67	P	2,4-Dinitrotoluene	0.411	0.406	1.2	113	0.00
68	T	2,3,4,6-Tetrachlorophenol	0.293	0.204	30.4#	78	0.00
69	P	Diethyl phthalate	1.344	1.344	0.0	115	0.00
70	P	Fluorene	1.395	1.378	1.2	116	0.00
71	P	4-Chlorophenyl phenyl ether	0.582	0.571	1.9	113	0.00
72	S	2,4,6-Tribromophenol	0.130	0.113	13.1	97	0.00
73	I	Phenanthrene-d10	1.000	1.000	0.0	122	0.00
74	P	4,6-Dinitro-2-methylphenol	0.135	0.073	45.9#	65	0.00
75	T	Azobenzene	0.803	0.800	0.4	120	0.00
76	T	1,2-Diphenylhydrazine	0.191	0.181	5.2	114	0.00
77	CCC	Diphenylamine	0.139	0.129	7.2	110	0.00
78	P	N-Nitrosodiphenylamine	0.693	0.647	6.6	111	0.00
79	P	4-Bromophenyl phenyl ether	0.199	0.185	7.0	113	0.00
80	T	Phenacetin	0.421	0.395	6.2	111	0.00
81	P	Hexachlorobenzene	0.189	0.184	2.6	118	0.00
82	P	Atrazine	0.191	0.158	17.3	98	0.00
83	T	4-Aminobiphenyl	0.843	0.559	33.7#	79	0.00
84	P	Pentachlorophenol	0.141	0.080	43.3#	68	0.00
85	T	Pentachloronitrobenzene	0.086	0.074	14.0	102	0.00
86	T	Pronamide	0.304	0.271	10.9	106	0.00
87	P	Phenanthrene	1.180	1.109	6.0	113	0.00
88	P	Anthracene	1.188	1.114	6.2	113	0.00
89	P	Carbazole	1.002	0.995	0.7	118	0.00
90	P	Di-n-butyl phthalate	1.368	1.363	0.4	118	0.00
91	P	Fluoranthene	1.233	1.197	2.9	116	0.00
92	I	Chrysene-d12	1.000	1.000	0.0	122	0.00
93	P	Pyrene	1.553	1.489	4.1	116	0.00
94	S	4-Terphenyl-d14	1.018	0.956	6.1	114	0.00
95	T	Benzidine	0.697	0.350	49.8#	60	0.00
96	T	p-Dimethylaminoazobenzene	0.273	0.249	8.8	107	0.00
97	P	Butyl benzyl phthalate	0.747	0.737	1.3	117	0.00
98	P	Benz(a)anthracene	1.343	1.274	5.1	115	0.00
99	P	3,3'-Dichlorobenzidine	0.470	0.416	11.5	106	0.00
100	P	Chrysene	1.327	1.263	4.8	116	0.00
101	P	Bis(2-ethylhexyl)phthalate	0.994	0.978	1.6	115	0.00
102	P	Di-n-octyl phthalate	1.729	1.745	-0.9	120	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121405.D
Acq On : 14 Dec 2021 10:53 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 13:58:55 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	0.389	0.369	5.1	109	0.00
104	I	Perylene-d12	1.000	1.000	0.0	130	0.00
105	P	Benzo[b]fluoranthene	1.452	1.229	15.4	108	0.00
106	P	Benzo[k]fluoranthene	1.297	1.418	-9.3	140	0.00
107	P	Benzo[a]pyrene	1.249	1.260	-0.9	127	0.00
108	T	Dibenz(a,j)acridine	1.049	1.058	-0.9	124	0.00
109		Indeno[1,2,3-cd]pyrene	1.482	1.445	2.5	121	0.00
110	P	Dibenz(a,h)anthracene	1.212	1.220	-0.7	123	0.00
111	P	Benzo[g,h,i]perylene	1.225	1.195	2.4	124	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

GC/MS QA-QC Check Report

Tune File : C:\MS-9\New\Raw Data\S211214\S21121405.D
Tune Time : 14 Dec 2021 10:53 am

Daily Calibration File : C:\MS-9\New\Raw Data\S211214\S21121405.D

(2FP)	(PHL)	(NBZ)	(FBP)	(DCB)	(NPT)	(ANT)
				45885	181972	101056

(TPH)	(PHN)	(CRY)	(PRY)
	180687	148493	135350

File	Sample	Surrogate Recovery %				Internal Standard Responses		
No Quant Results for C:\MS-9\New\Raw Data\S211214\S21121439.D								
S21121440.D								
	LCS-327119	54	61	78	89	56012	228786	126043
		80	90			208913	170932	179201
S21121441.D								
	2112C61-00	26	17	54	58	49087	200750	110277
		50	52			195492	158616	155443
S21121442.D								
	2112C61-00	24	15	69	84	48874	196839	105362
		63	85			188093	151220	149012
S21121443.D								
	2112C61-00	20*	13	52	68	55446	229164	126453
		61	85			223009	170317	171571
S21121444.D								
	2112C61-00	33	19	76	80	54990	230130	124524
		72	90			224177	169998	175972
S21121449.D								
	2112C29-01	47	31	58	71	58843	243715	132775
		62	82			238431	178403	194112
S21121450.D								
	2112A10-00	53	37	66	83	50241	203966	111365
		67	86			200499	154013	161636
S21121451.D								
	2112C45-00	47	34	67	76	65400	269718	152865
		65	81			265354	206707	219082
S21121452.D								
	2112C45-00	56	40	66	82	54702	236024	127723
		70	90			222020	172496	182644
S21121453.D								
	MB-327269	53	52	55	73	44966	178661	98143
		60	81			170925	134693	132443
S21121454.D								
	LCS-327269	74	79	82	97	43276	171981	93516
		80	93			167226	136617	126085
S21121455.D								
	2112G62-00	55	55	54	67	51007	207654	112655
		63	66			200032	146561	165871
S21121456.D								
	MB-327248	55	38	66	79	54143	220048	121680
		68	81			218356	166798	172093
S21121457.D								

	LCS-327248	54	42	80	91	48366	193513	106977
		77	92			189672	152720	154824
S21121458.D								
	2112G62-00	28	16	64	74	63282	256410	136061
		62	71			247135	189365	209502
S21121459.D								
	2112G62-00	34	21	67	73	64489	264537	147948
		66	71			262124	204214	225325
S21121460.D								
	2112G62-00	35	24	76	82	59837	240661	131374
		72	80			230593	179387	191849
S21121461.D								
	2112G62-00	55	32	73	79	56476	240872	130260
		75	76			236875	178913	192372
S21121462.D								
	2112D95-00	62	55	75	87	59222	242172	132622
		69	92			237576	181597	192273
S21121463.D								
	2112E60-00	0*	0*	0*	75	43691	188654	74811
		89	89			168618	145237	154624
S21121464.D								
	2112E60-00	73	65	75	86	50127	207107	113980
		74	90			202025	156987	168682
S21121465.D								
	2112C13-00	76	68	79	91	49056	200738	108857
		77	94			195650	152061	163560
S21121466.D								
	2112A79-00	64	57	77	92	51453	209071	113660
		67	96			207365	160433	173741
S21121467.D								
(fails)	MB-327197	67	63	62	77	46830	189772	103480
		73	88			186711	148487	151218
S21121468.D								
(fails)	LCS-327197	85	88	93	110	40105	158630	85048
		94	108			152284	125087	127886
S21121469.D								
(fails)	2112F13-01	59	58	53	68	44308	186819	102933
		63	81			180391	137155	149535
S21121470.D								
(fails)	2112F13-01	68	71	73	83	48486	193427	107397
		72	89			186283	148391	155668
S21121471.D								
(fails)	2112F13-01	62	72	79	92	47925	187574	103994
		77	94			181614	143529	149755
S21121472.D								
(fails)	2112692-00	61	62	64	82	47562	192317	107096
		68	91			190668	145232	157341
S21121473.D								
(fails)	2112822-00	54	60	58	74	47015	192330	105309
		61	81			184352	142087	145344
S21121474.D								
(fails)	2112A80-00	52	50	51	66	52795	213527	114299
		59	73			210994	159471	168613

S21121475.D								
(fails)	2112A80-00	64	63	60	81	44609	181737	101473
		72	91			179682	137964	144129
S21121476.D								
(fails)	2112A80-00	63	64	65	81	48491	199511	112160
		76	93			196057	150993	156553
S21121477.D								
(fails)	2112A80-00	64	65	61	82	51240	209726	113678
		70	87			201761	153219	162944
S21121490.D								
	2112C96-01	30	18	74	90	51467	214339	118421
		67	92			211325	162822	173280

(fails) - fails 12hr time check * - fails criteria

Created: Wed Dec 15 10:25:48 2021 MS-9

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121405.D
Acq On : 14 Dec 2021 10:53 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 13:58:55 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	3.925	152	45885	40.00	ng		0.00
23) Naphthalene-d8	...	5.557	136	181972	40.00	ng		0.00
45) Acenaphthene-d10	...	7.609	164	101056	40.00	ng		0.00
73) Phenanthrene-d10	...	9.264	188	180687	40.00	ng		0.00
92) Chrysene-d12	...	12.201	240	148493	40.00	ng		0.00
104) Perylene-d12	...	13.677	264	135350	40.00	ng		-0.01
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.551	112	82417	52.33	ng		0.02
Spiked Amount 100.000	Range 21 - 119		Recovery = 52.33%					
9) Phenol-d5	...	3.712	99	112852	58.58	ng		0.03
Spiked Amount 100.000	Range 10 - 121		Recovery = 58.58%					
24) Nitrobenzene-d5	...	4.694	82	91634	54.35	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 108.70%					
50) 2-Fluorobiphenyl	...	6.883	172	197078	59.30	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 118.60%#					
72) 2,4,6-Tribromophenol	...	8.529	330	17060	50.35	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 50.35%					
94) 4-Terphenyl-d14	...	11.066	244	212913	56.31	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 112.62%					
Target Compounds								Qvalue
2) Pyridine	...	1.251	79	101445	52.69	ng		95
3) 2-Picoline	...	1.853	93	104379	55.29	ng		95
4) Methyl methanesulfonate	...	2.304	80	38596	41.01	ng		92
6) Ethyl methanesulfonate	...	3.062	79	74795	52.62	ng		95
7) Benzaldehyde	...	3.391	105	64299	59.53	ng		97
8) Aniline	...	3.556	66	43480	37.30	ng	#	89
10) Phenol	...	3.729	94	119796	52.35	ng		89
11) Bis(2-chloroethyl)ether	...	3.641	93	88470	54.87	ng		99
12) 2-Chlorophenol	...	3.735	128	103320	60.40	ng		98
13) 1,3-Dichlorobenzene	...	3.846	146	109397	57.76	ng		97
14) 1,4-Dichlorobenzene	...	3.945	146	109311	57.42	ng		95
15) 1,2-Dichlorobenzene	...	4.146	146	106795	59.15	ng		96
16) Benzyl alcohol	...	4.232	108	56320	49.39	ng	#	68
17) Bis(2-chloroisopropyl)ether	...	4.362	45	130438	42.88	ng	#	61
18) 2-Methylphenol	...	4.479	107	78918	57.55	ng	#	80
19) 3,4-Methylphenol	...	4.706	107	206482	117.01	ng	#	81
20) N-Nitrosodi-n-propylamine	...	4.541	70	66167	55.71	ng		99
21) N-Nitrosodimethylamine	...	1.249	42	51159	48.22	ng		99
22) Hexachloroethane	...	4.561	117	41515	56.77	ng		96
25) Acetophenone	...	4.510	105	257663	112.67	ng		99
26) Nitrobenzene	...	4.717	123	47427	56.42	ng	#	25
27) N-Nitrosopiperidine	...	4.910	114	48833	57.50	ng		96
28) Isophorone	...	5.049	82	183136	54.89	ng		100
29) 2-Nitrophenol	...	5.128	139	51449	58.84	ng		96
30) 2,4-Dimethylphenol	...	5.327	122	83214	55.64	ng		97
31) Bis(2-chloroethoxy)methane	...	5.356	93	107696	55.18	ng		99
32) 2,4-Dichlorophenol	...	5.523	162	76756	57.84	ng		98
33) 1,2,4-Trichlorobenzene	...	5.509	180	85543	58.14	ng		99
34) Naphthalene	...	5.583	128	303267	59.70	ng		99
35) Benzoic acid	...	0.000	105	0	N.D.	d		
36) 2,6-Dichlorophenol	...	5.742	162	74694	57.74	ng		96
37) 4-Chloroaniline	...	5.742	127	104702	50.58	ng		96
38) Hexachlorobutadiene	...	5.764	225	40564	56.58	ng		99
39) a,a-Dimethylphenethylamine	...	5.645	58	235186	43.16	ng		75
40) Caprolactam	...	6.190	113	32634	62.20	ng		98

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121405.D
Acq On : 14 Dec 2021 10:53 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 13:58:55 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.477	107	75963	54.54	ng		94
42) N-Nitrosodi-n-butylamine	6.153	84	59850	47.13	ng		97
43) 2-Methylnaphthalene	6.426	141	170420	58.75	ng		99
44) 1-Methylnaphthalene	6.536	141	163497	58.29	ng		95
46) 1,2,4,5-Tetrachlorobenzene	6.633	216	74944	55.49	ng		99
47) Hexachlorocyclopentadiene	6.616	237	42036	51.10	ng		94
48) 2,4,6-Trichlorophenol	6.843	196	46842	49.91	ng		97
49) 2,4,5-Trichlorophenol	6.948	196	45199	45.44	ng	#	93
51) Biphenyl	6.985	154	234688	59.08	ng		97
52) 2-Chloronaphthalene	6.988	162	177653	57.91	ng		96
53) 1-Chloronaphthalene	7.005	162	156311	57.81	ng		99
54) 2-Nitroaniline	7.189	65	49196	46.00	ng		90
55) 3-Nitroaniline	7.677	138	50619	51.12	ng	#	93
56) Pentachlorobenzene	7.811	250	62173	55.54	ng		99
57) 4-Nitroaniline	8.381	138	50493	51.95	ng		92
58) 2-Naphthylamine	7.964	143	122466	38.21	ng		95
59) 1-Naphthylamine	8.063	143	103662	31.06	ng		97
60) Dimethyl phthalate	7.393	163	200024	60.45	ng		100
61) Acenaphthylene	7.447	152	278104	57.49	ng		99
62) 2,6-Dinitrotoluene	7.459	165	45724	60.68	ng		96
63) Acenaphthene	7.643	154	176477	60.84	ng		98
64) 2,4-Dinitrophenol	7.856	184	13922	38.47	ng		99
65) Dibenzofuran	7.850	168	249393	58.84	ng		100
66) 4-Nitrophenol	8.123	109	21606	40.50	ng		95
67) 2,4-Dinitrotoluene	7.930	165	61515	59.27	ng	#	82
68) 2,3,4,6-Tetrachlorophenol	8.066	232	30990	41.93	ng		95
69) Diethyl phthalate	8.191	149	203707	60.00	ng		99
70) Fluorene	8.231	166	208954	59.28	ng		98
71) 4-Chlorophenyl phenyl ether	8.256	204	86603	58.85	ng		99
74) 4,6-Dinitro-2-methylphenol	8.398	198	19741	35.73	ng	#	1
75) Azobenzene	8.435	77	216945	59.79	ng		92
76) 1,2-Diphenylhydrazine	8.435	182	49160	56.83	ng	#	80
77) Diphenylamine	8.415	170	34977	55.54	ng	#	94
78) N-Nitrosodiphenylamine	8.418	168	175297	56.04	ng		99
79) 4-Bromophenyl phenyl ether	8.793	248	50222	55.73	ng		99
80) Phenacetin	8.861	108	107083	56.29	ng		96
81) Hexachlorobenzene	8.849	284	49944	58.39	ng		98
82) Atrazine	9.065	200	42890	49.73	ng		97
83) 4-Aminobiphenyl	9.111	169	151624	39.81	ng		98
84) Pentachlorophenol	9.139	266	21681	34.12	ng		95
85) Pentachloronitrobenzene	9.099	237	19962	51.31	ng		95
86) Pronamide	9.230	173	73337	53.37	ng		99
87) Phenanthrene	9.292	178	300470	56.36	ng		100
88) Anthracene	9.349	178	301817	56.23	ng		99
89) Carbazole	9.587	167	269630	59.57	ng		98
90) Di-n-butyl phthalate	10.005	149	369540	59.80	ng		99
91) Fluoranthene	10.609	202	324553	58.26	ng		97
93) Pyrene	10.850	202	331715	57.55	ng		99
95) Benzidine	10.833	184	77897	30.12	ng		90
96) p-Dimethylaminoazobenzene	11.236	225	55534	54.74	ng		91
97) Butyl benzyl phthalate	11.645	149	164052	59.18	ng		96
98) Benz(a)anthracene	12.193	228	283763	56.91	ng		99
99) 3,3'-Dichlorobenzidine	12.207	252	92736	53.10	ng		97
100) Chrysene	12.227	228	281324	57.12	ng		99
101) Bis(2-ethylhexyl)phthalate	12.309	149	217832	59.05	ng		96
102) Di-n-octyl phthalate	12.990	149	388786	60.58	ng		99
103) 3-Methylcholanthrene	13.953	268	82126	56.86	ng		96

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121405.D
Acq On : 14 Dec 2021 10:53 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 13:58:55 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

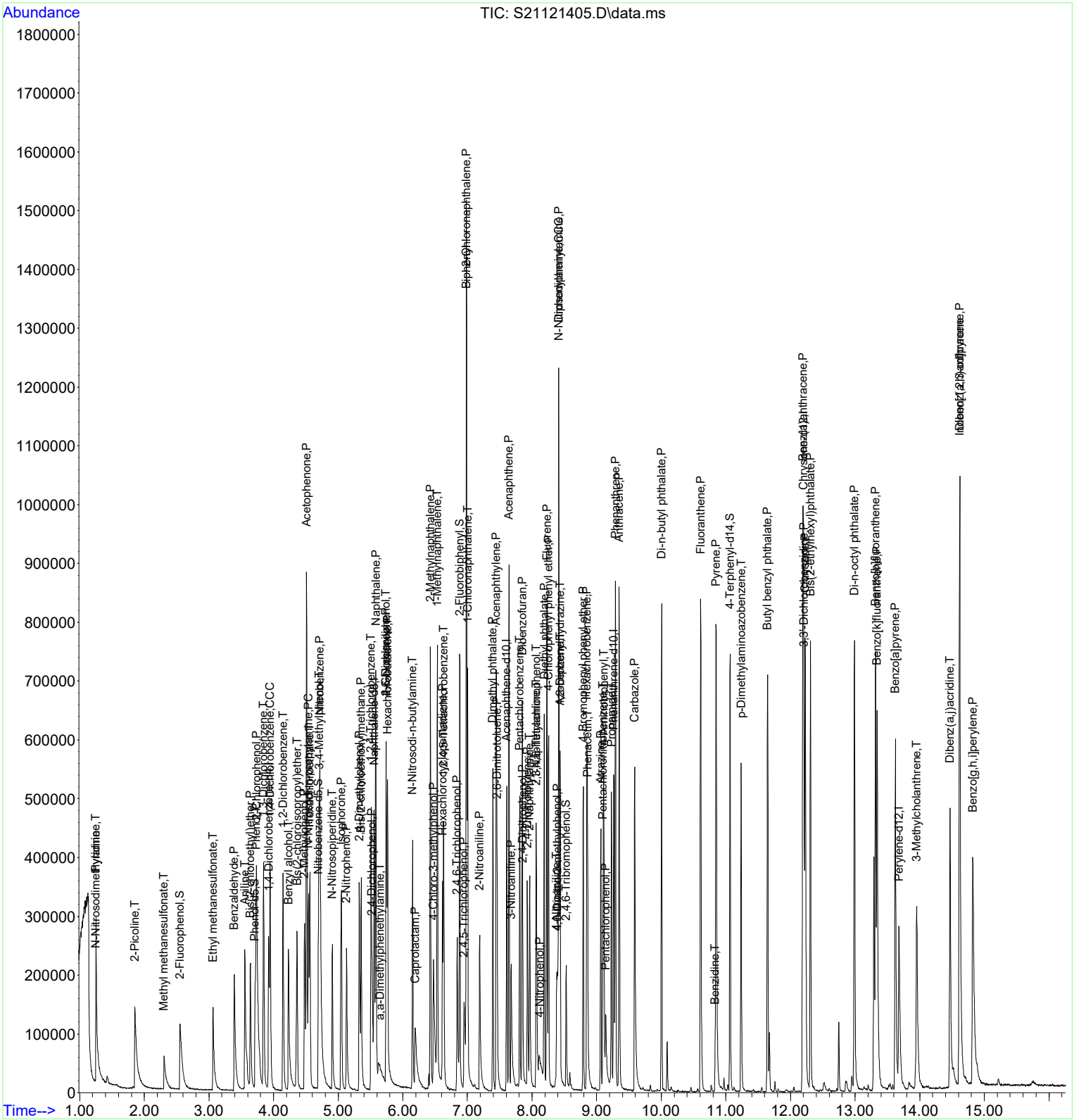
Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene	...	13.317	252	249579	50.81	ng		95
106) Benzo[k]fluoranthene	...	13.339	252	287789	65.57	ng		96
107) Benzo[a]pyrene	...	13.623	252	255782	60.54	ng		97
108) Dibenz(a,j)acridine	...	14.469	279	214843	60.54	ng		100
109) Indeno[1,2,3-cd]pyrene	...	14.617	276	293335	58.48	ng	#	79
110) Dibenz(a,h)anthracene	...	14.620	278	247656	60.37	ng		93
111) Benzo[g,h,i]perylene	...	14.821	276	242624	58.54	ng		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121405.D
Acq On : 14 Dec 2021 10:53 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 13:58:55 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121453.D
Acq On : 14 Dec 2021 12:36 pm
Operator : YH
Sample : MB-327269
Misc : MBLK 8270_TCL4.2_S
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Dec 14 13:52:25 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	3.931	152	44966	40.00	ng	0.00
23) Naphthalene-d8	...	5.560	136	178661	40.00	ng	0.00
45) Acenaphthene-d10	...	7.609	164	98143	40.00	ng	0.00
73) Phenanthrene-d10	...	9.269	188	170925	40.00	ng	0.00
92) Chrysene-d12	...	12.207	240	134693	40.00	ng	0.00
104) Perylene-d12	...	13.683	264	132443	40.00	ng	0.00
System Monitoring Compounds							
5) 2-Fluorophenol	...	2.551	112	81805	53.00	ng	0.02
Spiked Amount 100.000	Range 21 - 119		Recovery = 53.00%				
9) Phenol-d5	...	3.723	99	99068	52.48	ng	0.04
Spiked Amount 100.000	Range 10 - 121		Recovery = 52.48%				
24) Nitrobenzene-d5	...	4.705	82	45830	27.68	ng	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 55.36%				
50) 2-Fluorobiphenyl	...	6.882	172	117570	36.43	ng	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 72.86%				
72) 2,4,6-Tribromophenol	...	8.531	330	20027	59.95	ng	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 59.95%				
94) 4-Terphenyl-d14	...	11.069	244	138964	40.52	ng	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 81.04%				

Target Compounds					Qvalue
2) Pyridine	...	0.000	79	0	N.D.
3) 2-Picoline	...	0.000	93	0	N.D.
4) Methyl methanesulfonate	...	0.000	80	0	N.D.
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.
7) Benzaldehyde	...	0.000	105	0	N.D.
8) Aniline	...	0.000	66	0	N.D.
10) Phenol	...	0.000	94	0	N.D.
11) Bis(2-chloroethyl)ether	...	0.000	93	0	N.D.
12) 2-Chlorophenol	...	0.000	128	0	N.D.
13) 1,3-Dichlorobenzene	...	0.000	146	0	N.D.
14) 1,4-Dichlorobenzene	...	0.000	146	0	N.D.
15) 1,2-Dichlorobenzene	...	0.000	146	0	N.D.
16) Benzyl alcohol	...	0.000	108	0	N.D.
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0	N.D.
18) 2-Methylphenol	...	0.000	107	0	N.D.
19) 3,4-Methylphenol	...	0.000	107	0	N.D.
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D.
22) Hexachloroethane	...	0.000	117	0	N.D.
25) Acetophenone	...	0.000	105	0	N.D.
26) Nitrobenzene	...	0.000	123	0	N.D.
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.
28) Isophorone	...	0.000	82	0	N.D.
29) 2-Nitrophenol	...	0.000	139	0	N.D.
30) 2,4-Dimethylphenol	...	0.000	122	0	N.D.
31) Bis(2-chloroethoxy)methane	...	0.000	93	0	N.D.
32) 2,4-Dichlorophenol	...	0.000	162	0	N.D.
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.
34) Naphthalene	...	0.000	128	0	N.D.
35) Benzoic acid	...	0.000	105	0	N.D.
36) 2,6-Dichlorophenol	...	0.000	162	0	N.D.
37) 4-Chloroaniline	...	0.000	127	0	N.D.
38) Hexachlorobutadiene	...	0.000	225	0	N.D.
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D.
40) Caprolactam	...	0.000	113	0	N.D.

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121453.D
Acq On : 14 Dec 2021 12:36 pm
Operator : YH
Sample : MB-327269
Misc : MBLK 8270_TCL4.2_S
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Dec 14 13:52:25 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 4-Chloro-3-methylphenol	...	0.000	107	0		N.D.
42) N-Nitrosodi-n-butylamine	...	0.000	84	0		N.D.
43) 2-Methylnaphthalene	...	0.000	141	0		N.D.
44) 1-Methylnaphthalene	...	0.000	141	0		N.D.
46) 1,2,4,5-Tetrachlorobenzene	...	0.000	216	0		N.D.
47) Hexachlorocyclopentadiene	...	0.000	237	0		N.D.
48) 2,4,6-Trichlorophenol	...	0.000	196	0		N.D.
49) 2,4,5-Trichlorophenol	...	0.000	196	0		N.D.
51) Biphenyl	...	0.000	154	0		N.D.
52) 2-Chloronaphthalene	...	0.000	162	0		N.D.
53) 1-Chloronaphthalene	...	0.000	162	0		N.D.
54) 2-Nitroaniline	...	0.000	65	0		N.D.
55) 3-Nitroaniline	...	0.000	138	0		N.D.
56) Pentachlorobenzene	...	0.000	250	0		N.D.
57) 4-Nitroaniline	...	0.000	138	0		N.D.
58) 2-Naphthylamine	...	0.000	143	0		N.D.
59) 1-Naphthylamine	...	0.000	143	0		N.D.
60) Dimethyl phthalate	...	0.000	163	0		N.D.
61) Acenaphthylene	...	0.000	152	0		N.D.
62) 2,6-Dinitrotoluene	...	0.000	165	0		N.D.
63) Acenaphthene	...	0.000	154	0		N.D.
64) 2,4-Dinitrophenol	...	0.000	184	0		N.D.
65) Dibenzofuran	...	0.000	168	0		N.D.
66) 4-Nitrophenol	...	0.000	109	0		N.D.
67) 2,4-Dinitrotoluene	...	0.000	165	0		N.D.
68) 2,3,4,6-Tetrachlorophenol	...	0.000	232	0		N.D.
69) Diethyl phthalate	...	0.000	149	0		N.D.
70) Fluorene	...	0.000	166	0		N.D.
71) 4-Chlorophenyl phenyl ether	...	0.000	204	0		N.D.
74) 4,6-Dinitro-2-methylphenol	...	0.000	198	0		N.D.
75) Azobenzene	...	0.000	77	0		N.D.
76) 1,2-Diphenylhydrazine	...	0.000	182	0		N.D.
77) Diphenylamine	...	0.000	170	0		N.D.
78) N-Nitrosodiphenylamine	...	0.000	168	0		N.D.
79) 4-Bromophenyl phenyl ether	...	0.000	248	0		N.D.
80) Phenacetin	...	0.000	108	0		N.D.
81) Hexachlorobenzene	...	0.000	284	0		N.D.
82) Atrazine	...	0.000	200	0		N.D.
83) 4-Aminobiphenyl	...	0.000	169	0		N.D.
84) Pentachlorophenol	...	0.000	266	0		N.D.
85) Pentachloronitrobenzene	...	0.000	237	0		N.D.
86) Pronamide	...	0.000	173	0		N.D.
87) Phenanthrene	...	0.000	178	0		N.D.
88) Anthracene	...	0.000	178	0		N.D.
89) Carbazole	...	0.000	167	0		N.D.
90) Di-n-butyl phthalate	...	0.000	149	0		N.D.
91) Fluoranthene	...	0.000	202	0		N.D.
93) Pyrene	...	0.000	202	0		N.D.
95) Benzidine	...	0.000	184	0		N.D.
96) p-Dimethylaminoazobenzene	...	0.000	225	0		N.D.
97) Butyl benzyl phthalate	...	0.000	149	0		N.D.
98) Benz(a)anthracene	...	0.000	228	0		N.D.
99) 3,3'-Dichlorobenzidine	...	0.000	252	0		N.D.
100) Chrysene	...	0.000	228	0		N.D.
101) Bis(2-ethylhexyl)phthalate	...	0.000	149	0		N.D.
102) Di-n-octyl phthalate	...	0.000	149	0		N.D.
103) 3-Methylcholanthrene	...	0.000	268	0		N.D.

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121453.D
Acq On : 14 Dec 2021 12:36 pm
Operator : YH
Sample : MB-327269
Misc : MBLK 8270_TCL4.2_S
ALS Vial : 38 Sample Multiplier: 1

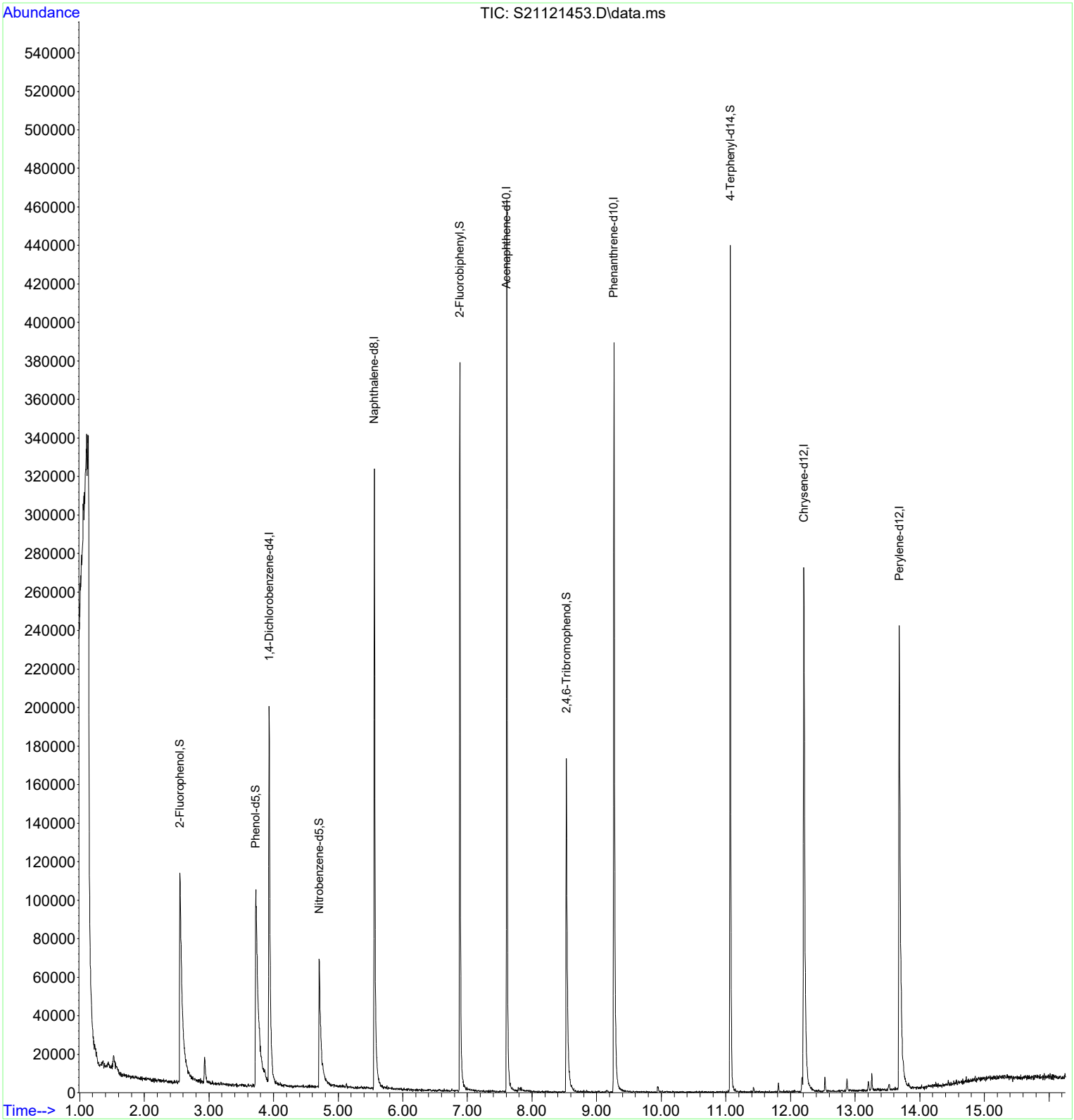
Quant Time: Dec 14 13:52:25 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
105) Benzo[b]fluoranthene	...	0.000	252	0			N.D.
106) Benzo[k]fluoranthene	...	0.000	252	0			N.D.
107) Benzo[a]pyrene	...	0.000	252	0			N.D.
108) Dibenz(a,j)acridine	...	0.000	279	0			N.D.
109) Indeno[1,2,3-cd]pyrene	...	0.000	276	0			N.D.
110) Dibenz(a,h)anthracene	...	0.000	278	0			N.D.
111) Benzo[g,h,i]perylene	...	0.000	276	0			N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121453.D
Acq On : 14 Dec 2021 12:36 pm
Operator : YH
Sample : MB-327269
Misc : MBLK 8270_TCL4.2_S
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Dec 14 13:52:25 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121454.D
Acq On : 14 Dec 2021 1:02 pm
Operator : YH
Sample : LCS-327269
Misc : LCS 8270_TCL4.2_S
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Dec 14 13:55:41 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	3.925	152	43276	40.00	ng		0.00
23) Naphthalene-d8	...	5.557	136	171981	40.00	ng		0.00
45) Acenaphthene-d10	...	7.609	164	93516	40.00	ng		0.00
73) Phenanthrene-d10	...	9.269	188	167226	40.00	ng		0.00
92) Chrysene-d12	...	12.204	240	136617	40.00	ng		0.00
104) Perylene-d12	...	13.683	264	126085	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.543	112	110025	74.07	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 74.07%					
9) Phenol-d5	...	3.712	99	143709	79.10	ng		0.03
Spiked Amount 100.000	Range 10 - 121		Recovery = 79.10%					
24) Nitrobenzene-d5	...	4.694	82	65706	41.23	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 82.46%					
50) 2-Fluorobiphenyl	...	6.882	172	149451	48.59	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 97.18%					
72) 2,4,6-Tribromophenol	...	8.531	330	25920	79.85	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 79.85%					
94) 4-Terphenyl-d14	...	11.069	244	162325	46.66	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 93.32%					
Target Compounds								Qvalue
2) Pyridine	...	0.000	79	0	N.D.			
3) 2-Picoline	...	0.000	93	0	N.D.			
4) Methyl methanesulfonate	...	0.000	80	0	N.D.			
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.			
7) Benzaldehyde	...	0.000	105	0	N.D.			
8) Aniline	...	0.000	66	0	N.D.			
10) Phenol	...	0.000	94	0	N.D.	d		
11) Bis(2-chloroethyl)ether	...	3.641	93	117349	77.17	ng		99
12) 2-Chlorophenol	...	3.729	128	132649	82.22	ng		98
13) 1,3-Dichlorobenzene	...	3.845	146	154246	86.35	ng		96
14) 1,4-Dichlorobenzene	...	3.948	146	212553	118.38	ng		96
15) 1,2-Dichlorobenzene	...	4.146	146	149291	87.67	ng		97
16) Benzyl alcohol	...	0.000	108	0	N.D.	d		
17) Bis(2-chloroisopropyl)ether	...	4.362	45	152013	52.99	ng		98
18) 2-Methylphenol	...	4.467	107	100785	77.92	ng	#	83
19) 3,4-Methylphenol	...	4.697	107	152533	91.65	ng	#	80
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.			
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D.			
22) Hexachloroethane	...	0.000	117	0	N.D.			
25) Acetophenone	...	0.000	105	0	N.D.			
26) Nitrobenzene	...	4.720	123	64948	81.75	ng	#	88
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.			
28) Isophorone	...	0.000	82	0	N.D.			
29) 2-Nitrophenol	...	0.000	139	0	N.D.			
30) 2,4-Dimethylphenol	...	5.321	122	112664	79.70	ng		98
31) Bis(2-chloroethoxy)methane	...	5.358	93	161466	87.54	ng		99
32) 2,4-Dichlorophenol	...	5.517	162	99611	79.42	ng		99
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.			
34) Naphthalene	...	5.582	128	439578	91.56	ng		99
35) Benzoic acid	...	0.000	105	0	N.D.	d		
36) 2,6-Dichlorophenol	...	5.741	162	97821	80.01	ng		95
37) 4-Chloroaniline	...	0.000	127	0	N.D.	d		
38) Hexachlorobutadiene	...	5.764	225	88978	131.32	ng		98
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D.			
40) Caprolactam	...	0.000	113	0	N.D.	d		

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121454.D
Acq On : 14 Dec 2021 1:02 pm
Operator : YH
Sample : LCS-327269
Misc : LCS 8270_TCL4.2_S
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Dec 14 13:55:41 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	...	6.457	107	107086	81.35	ng		99
42) N-Nitrosodi-n-butylamine	...	0.000	84	0	N.D.	d		
43) 2-Methylnaphthalene	...	0.000	141	0	N.D.	d		
44) 1-Methylnaphthalene	...	0.000	141	0	N.D.	d		
46) 1,2,4,5-Tetrachlorobenzene	...	0.000	216	0	N.D.			
47) Hexachlorocyclopentadiene	...	0.000	237	0	N.D.			
48) 2,4,6-Trichlorophenol	...	6.834	196	68650	79.04	ng		96
49) 2,4,5-Trichlorophenol	...	6.933	196	71507	77.68	ng		95
51) Biphenyl	...	0.000	154	0	N.D.	d		
52) 2-Chloronaphthalene	...	0.000	162	0	N.D.	d		
53) 1-Chloronaphthalene	...	0.000	162	0	N.D.	d		
54) 2-Nitroaniline	...	0.000	65	0	N.D.	d		
55) 3-Nitroaniline	...	0.000	138	0	N.D.			
56) Pentachlorobenzene	...	0.000	250	0	N.D.			
57) 4-Nitroaniline	...	0.000	138	0	N.D.	d		
58) 2-Naphthylamine	...	0.000	143	0	N.D.			
59) 1-Naphthylamine	...	0.000	143	0	N.D.			
60) Dimethyl phthalate	...	7.396	163	280210	91.51	ng		99
61) Acenaphthylene	...	7.447	152	427194	95.43	ng		100
62) 2,6-Dinitrotoluene	...	7.461	165	62262	89.29	ng	#	63
63) Acenaphthene	...	7.649	154	389944	145.27	ng		98
64) 2,4-Dinitrophenol	...	0.000	184	0	N.D.			
65) Dibenzofuran	...	0.000	168	0	N.D.	d		
66) 4-Nitrophenol	...	0.000	109	0	N.D.	d		
67) 2,4-Dinitrotoluene	...	7.930	165	90223	93.94	ng	#	86
68) 2,3,4,6-Tetrachlorophenol	...	8.063	232	46906	68.58	ng		99
69) Diethyl phthalate	...	8.194	149	315800	100.52	ng		99
70) Fluorene	...	8.233	166	316215	96.94	ng		99
71) 4-Chlorophenyl phenyl ether	...	0.000	204	0	N.D.			
74) 4,6-Dinitro-2-methylphenol	...	0.000	198	0	N.D.	d		
75) Azobenzene	...	8.438	77	355900	105.99	ng		90
76) 1,2-Diphenylhydrazine	...	8.441	182	78545	98.11	ng	#	75
77) Diphenylamine	...	8.424	170	72474	124.34	ng		99
78) N-Nitrosodiphenylamine	...	8.424	168	347904	120.16	ng		99
79) 4-Bromophenyl phenyl ether	...	8.795	248	71354	85.56	ng		98
80) Phenacetin	...	8.861	108	156360	88.80	ng		97
81) Hexachlorobenzene	...	8.855	284	73783	93.20	ng		99
82) Atrazine	...	0.000	200	0	N.D.			
83) 4-Aminobiphenyl	...	0.000	169	0	N.D.	d		
84) Pentachlorophenol	...	0.000	266	0	N.D.			
85) Pentachloronitrobenzene	...	9.102	237	30633	85.08	ng		95
86) Pronamide	...	9.232	173	135667	106.67	ng		99
87) Phenanthrene	...	0.000	178	0	N.D.	d		
88) Anthracene	...	9.352	178	464195	93.45	ng		99
89) Carbazole	...	0.000	167	0	N.D.	d		
90) Di-n-butyl phthalate	...	10.010	149	515106	90.07	ng		99
91) Fluoranthene	...	10.612	202	232117	45.02	ng		98
93) Pyrene	...	10.853	202	510533	96.27	ng		99
95) Benzidine	...	0.000	184	0	N.D.			
96) p-Dimethylaminoazobenzene	...	0.000	225	0	N.D.			
97) Butyl benzyl phthalate	...	0.000	149	0	N.D.	d		
98) Benz(a)anthracene	...	12.196	228	437154	95.29	ng		100
99) 3,3'-Dichlorobenzidine	...	12.213	252	85054	52.93	ng		96
100) Chrysene	...	12.232	228	403318	89.01	ng		100
101) Bis(2-ethylhexyl)phthalate	...	12.315	149	307987	90.75	ng		96
102) Di-n-octyl phthalate	...	12.990	149	276334	46.80	ng		99
103) 3-Methylcholanthrene	...	0.000	268	0	N.D.			

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121454.D
Acq On : 14 Dec 2021 1:02 pm
Operator : YH
Sample : LCS-327269
Misc : LCS 8270_TCL4.2_S
ALS Vial : 39 Sample Multiplier: 1

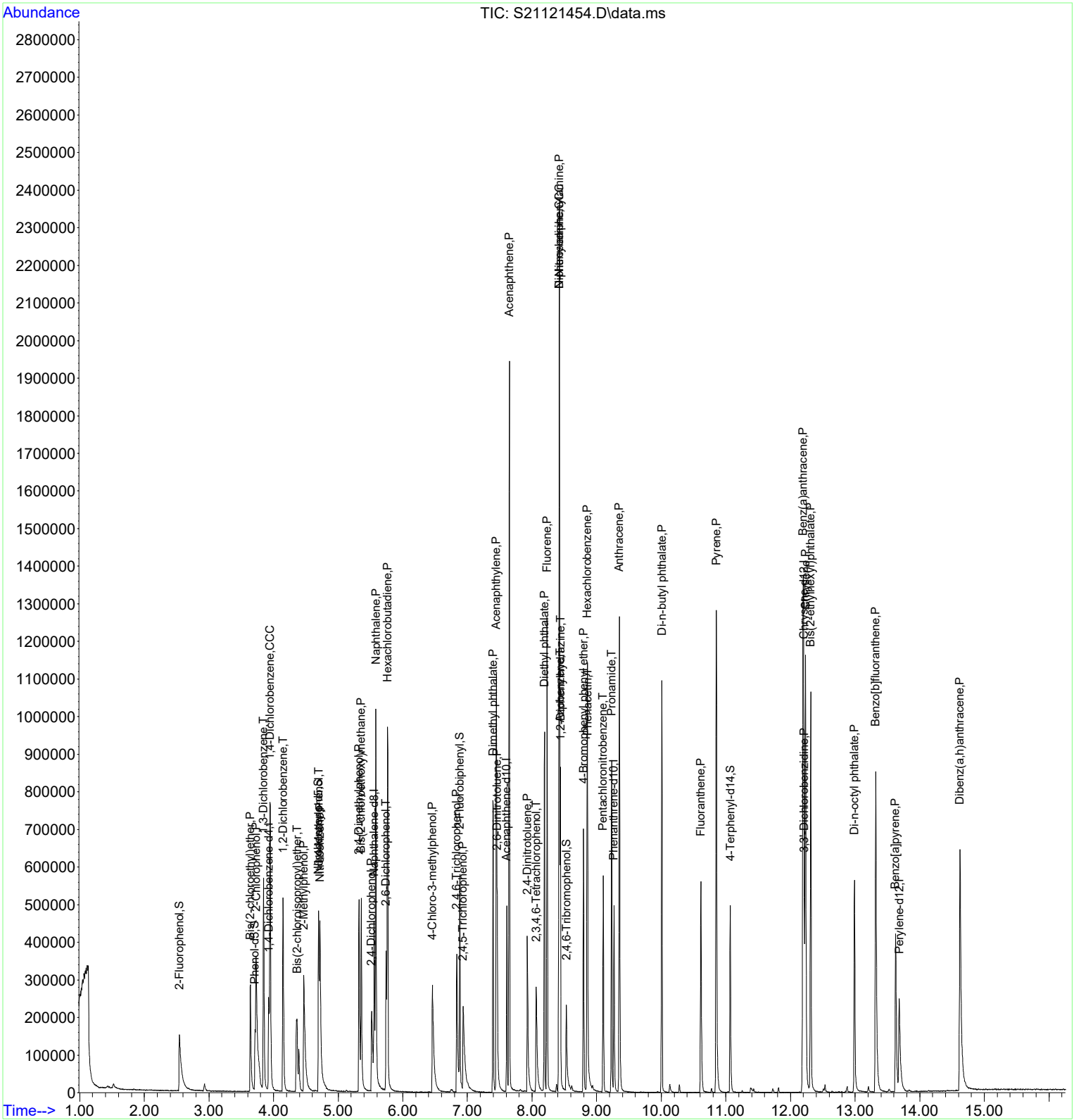
Quant Time: Dec 14 13:55:41 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
105) Benzo[b]fluoranthene	...	13.319	252	387849	84.76	ng	97
106) Benzo[k]fluoranthene	...	0.000	252	0	N.D.	d	
107) Benzo[a]pyrene	...	13.626	252	180661	45.90	ng	97
108) Dibenz(a,j)acridine	...	0.000	279	0	N.D.	d	
109) Indeno[1,2,3-cd]pyrene	...	0.000	276	0	N.D.	d	
110) Dibenz(a,h)anthracene	...	14.622	278	357450	93.53	ng	92
111) Benzo[g,h,i]perylene	...	0.000	276	0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121454.D
Acq On : 14 Dec 2021 1:02 pm
Operator : YH
Sample : LCS-327269
Misc : LCS 8270_TCL4.2_S
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Dec 14 13:55:41 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Dec 08 08:43:37 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121455.D
Acq On : 14 Dec 2021 1:27 pm
Operator : YH
Sample : 2112G62-004D
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Dec 14 14:03:43 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	3.928	152	51007	40.00	ng	0.00
23) Naphthalene-d8	...	5.560	136	207654	40.00	ng	0.00
45) Acenaphthene-d10	...	7.609	164	112655	40.00	ng	0.00
73) Phenanthrene-d10	...	9.267	188	200032	40.00	ng	0.00
92) Chrysene-d12	...	12.204	240	146561	40.00	ng	0.00
104) Perylene-d12	...	13.686	264	165871	40.00	ng	0.00
System Monitoring Compounds							
5) 2-Fluorophenol	...	2.548	112	95811	54.72	ng	0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 54.72%				
9) Phenol-d5	...	3.718	99	117713	54.97	ng	0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 54.97%				
24) Nitrobenzene-d5	...	4.703	82	51889	26.97	ng	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 53.94%				
50) 2-Fluorobiphenyl	...	6.882	172	124524	33.61	ng	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 67.22%				
72) 2,4,6-Tribromophenol	...	8.531	330	24312	63.15	ng	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 63.15%				
94) 4-Terphenyl-d14	...	11.069	244	122249	32.76	ng	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 65.52%				

Target Compounds					Qvalue
2) Pyridine	...	0.000	79	0	N.D.
3) 2-Picoline	...	0.000	93	0	N.D.
4) Methyl methanesulfonate	...	0.000	80	0	N.D.
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.
7) Benzaldehyde	...	0.000	105	0	N.D.
8) Aniline	...	0.000	66	0	N.D.
10) Phenol	...	0.000	94	0	N.D. d
11) Bis(2-chloroethyl)ether	...	0.000	93	0	N.D. d
12) 2-Chlorophenol	...	0.000	128	0	N.D.
13) 1,3-Dichlorobenzene	...	0.000	146	0	N.D.
14) 1,4-Dichlorobenzene	...	0.000	146	0	N.D.
15) 1,2-Dichlorobenzene	...	0.000	146	0	N.D.
16) Benzyl alcohol	...	0.000	108	0	N.D.
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0	N.D. d
18) 2-Methylphenol	...	0.000	107	0	N.D.
19) 3,4-Methylphenol	...	0.000	107	0	N.D.
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D.
22) Hexachloroethane	...	0.000	117	0	N.D.
25) Acetophenone	...	0.000	105	0	N.D.
26) Nitrobenzene	...	0.000	123	0	N.D.
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.
28) Isophorone	...	0.000	82	0	N.D.
29) 2-Nitrophenol	...	0.000	139	0	N.D.
30) 2,4-Dimethylphenol	...	0.000	122	0	N.D.
31) Bis(2-chloroethoxy)methane	...	0.000	93	0	N.D.
32) 2,4-Dichlorophenol	...	0.000	162	0	N.D.
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.
34) Naphthalene	...	0.000	128	0	N.D. d
35) Benzoic acid	...	0.000	105	0	N.D.
36) 2,6-Dichlorophenol	...	0.000	162	0	N.D.
37) 4-Chloroaniline	...	0.000	127	0	N.D.
38) Hexachlorobutadiene	...	0.000	225	0	N.D.
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D.
40) Caprolactam	...	0.000	113	0	N.D.

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121455.D
Acq On : 14 Dec 2021 1:27 pm
Operator : YH
Sample : 2112G62-004D
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Dec 14 14:03:43 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	...	0.000	107	0	N.D.		
42) N-Nitrosodi-n-butylamine	...	0.000	84	0	N.D.		
43) 2-Methylnaphthalene	...	0.000	141	0	N.D.		
44) 1-Methylnaphthalene	...	0.000	141	0	N.D.		
46) 1,2,4,5-Tetrachlorobenzene	...	0.000	216	0	N.D.		
47) Hexachlorocyclopentadiene	...	0.000	237	0	N.D.		
48) 2,4,6-Trichlorophenol	...	0.000	196	0	N.D.		
49) 2,4,5-Trichlorophenol	...	0.000	196	0	N.D.		
51) Biphenyl	...	0.000	154	0	N.D.	d	
52) 2-Chloronaphthalene	...	0.000	162	0	N.D.		
53) 1-Chloronaphthalene	...	0.000	162	0	N.D.		
54) 2-Nitroaniline	...	0.000	65	0	N.D.		
55) 3-Nitroaniline	...	0.000	138	0	N.D.		
56) Pentachlorobenzene	...	0.000	250	0	N.D.		
57) 4-Nitroaniline	...	0.000	138	0	N.D.		
58) 2-Naphthylamine	...	0.000	143	0	N.D.		
59) 1-Naphthylamine	...	0.000	143	0	N.D.		
60) Dimethyl phthalate	...	0.000	163	0	N.D.		
61) Acenaphthylene	...	0.000	152	0	N.D.	d	
62) 2,6-Dinitrotoluene	...	0.000	165	0	N.D.		
63) Acenaphthene	...	0.000	154	0	N.D.	d	
64) 2,4-Dinitrophenol	...	0.000	184	0	N.D.		
65) Dibenzofuran	...	0.000	168	0	N.D.	d	
66) 4-Nitrophenol	...	0.000	109	0	N.D.		
67) 2,4-Dinitrotoluene	...	0.000	165	0	N.D.		
68) 2,3,4,6-Tetrachlorophenol	...	0.000	232	0	N.D.		
69) Diethyl phthalate	...	0.000	149	0	N.D.		
70) Fluorene	...	8.242	166	4002	1.02 ng	#	78
71) 4-Chlorophenyl phenyl ether	...	0.000	204	0	N.D.		
74) 4,6-Dinitro-2-methylphenol	...	0.000	198	0	N.D.		
75) Azobenzene	...	0.000	77	0	N.D.	d	
76) 1,2-Diphenylhydrazine	...	0.000	182	0	N.D.		
77) Diphenylamine	...	0.000	170	0	N.D.		
78) N-Nitrosodiphenylamine	...	0.000	168	0	N.D.		
79) 4-Bromophenyl phenyl ether	...	0.000	248	0	N.D.		
80) Phenacetin	...	0.000	108	0	N.D.		
81) Hexachlorobenzene	...	0.000	284	0	N.D.		
82) Atrazine	...	0.000	200	0	N.D.		
83) 4-Aminobiphenyl	...	0.000	169	0	N.D.		
84) Pentachlorophenol	...	0.000	266	0	N.D.		
85) Pentachloronitrobenzene	...	0.000	237	0	N.D.		
86) Pronamide	...	0.000	173	0	N.D.		
87) Phenanthrene	...	9.292	178	148543	25.17 ng		99
88) Anthracene	...	0.000	178	0	N.D.	d	
89) Carbazole	...	9.601	167	33216	6.63 ng		99
90) Di-n-butyl phthalate	...	0.000	149	0	N.D.	d	
91) Fluoranthene	...	10.615	202	560720	90.91 ng		98
93) Pyrene	...	10.853	202	438579	77.09 ng		96
95) Benzidine	...	0.000	184	0	N.D.		
96) p-Dimethylaminoazobenzene	...	0.000	225	0	N.D.		
97) Butyl benzyl phthalate	...	0.000	149	0	N.D.		
98) Benz(a)anthracene	...	12.196	228	156220	31.74 ng		87
99) 3,3'-Dichlorobenzidine	...	0.000	252	0	N.D.		
100) Chrysene	...	12.235	228	347694	71.53 ng		99
101) Bis(2-ethylhexyl)phthalate	...	12.315	149	65974	18.12 ng		96
102) Di-n-octyl phthalate	...	0.000	149	0	N.D.	d	
103) 3-Methylcholanthrene	...	0.000	268	0	N.D.	d	

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121455.D
Acq On : 14 Dec 2021 1:27 pm
Operator : YH
Sample : 2112G62-004D
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 40 Sample Multiplier: 1

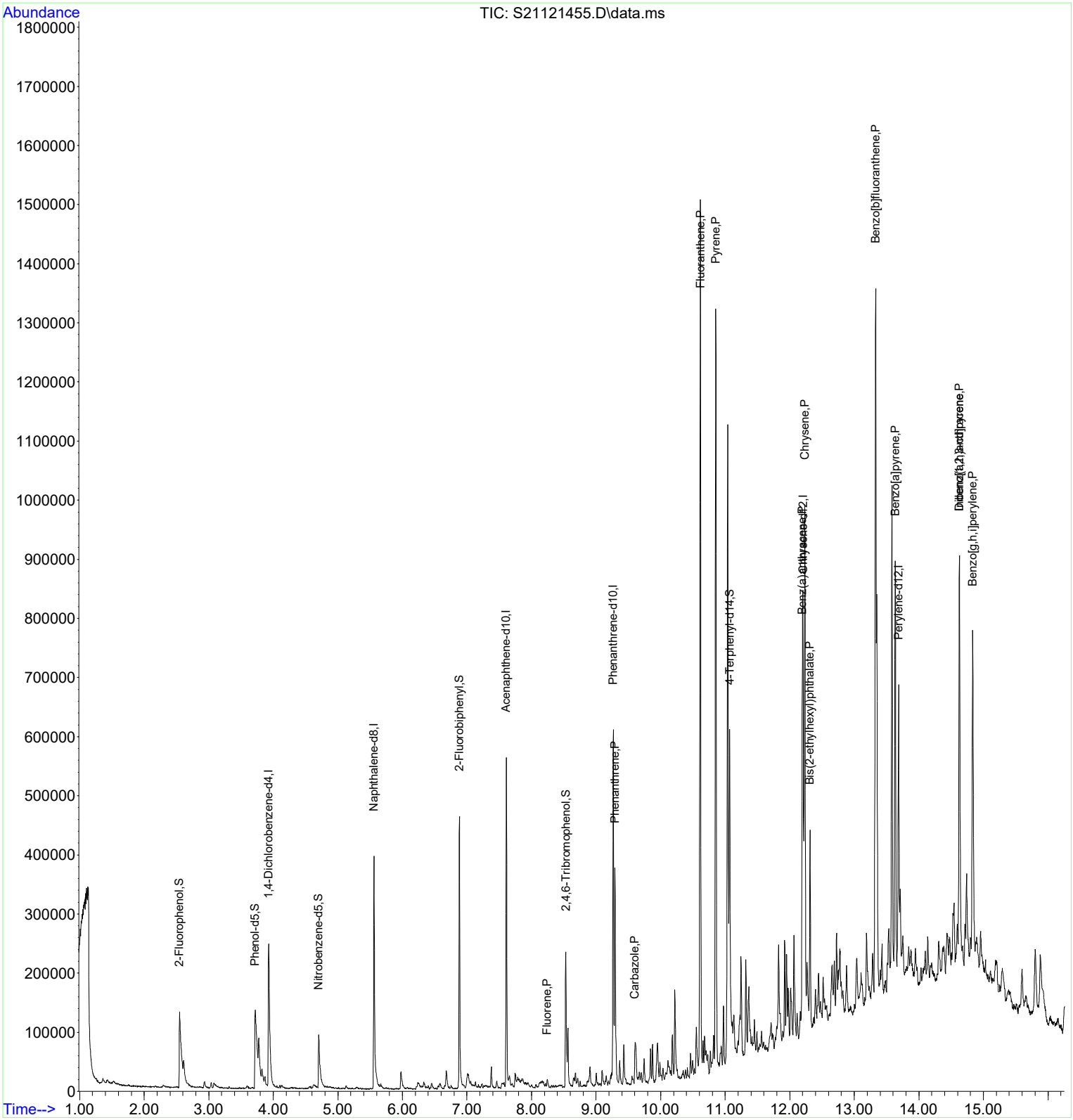
Quant Time: Dec 14 14:03:43 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene	...	13.331	252	706105	117.29	ng		88
106) Benzo[k]fluoranthene	...	0.000	252	0	N.D.	d		
107) Benzo[a]pyrene	...	13.635	252	273077	52.74	ng		96
108) Dibenz(a,j)acridine	...	0.000	279	0	N.D.	d		
109) Indeno[1,2,3-cd]pyrene	...	14.628	276	251367	40.89	ng	#	88
110) Dibenz(a,h)anthracene	...	14.628	278	47675	9.48	ng		84
111) Benzo[g,h,i]perylene	...	14.835	276	245241	48.28	ng		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MS-9\New\Raw Data\S211214\
Data File : S21121455.D
Acq On : 14 Dec 2021 1:27 pm
Operator : YH
Sample : 2112G62-004D
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Dec 14 14:03:43 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration



Injection Log

Directory: C:\MS-9\New\Raw Data\S211215

Line	Vial	FileName	Multiplier	SampleName		Misc Info	Injected
1	1	S21121501.D	1.	DFTPP		TUNE DFTPP_4	15 Dec 2021 09:45
2	1	S21121502.D	1.	DFTPP		TUNE DFTPP_4	15 Dec 2021 10:39
3	3	S21121503.D	1.	EX40		CCV 625.1	15 Dec 2021 11:31
4	2	S21121504.D	1.	bna60		CCV 8270_TCL4.2_W	15 Dec 2021 11:05
5	2	S21121505.D	1.	bna60		CCV 8270_TCL4.2_W	15 Dec 2021 11:58
6	2	S21121506.D	1.	bna60		CCV 8270_TCL4.2_W	15 Dec 2021 16:46
7	63	S21121510.D	1.	MB-327168		MBLK 625.1	15 Dec 2021 12:24
8	64	S21121511.D	1.	LCS-327168		LCS 625.1	15 Dec 2021 12:51
9	65	S21121512.D	1.	2112648-001B		SAMP 625.1	15 Dec 2021 13:17
10	66	S21121513.D	1.	2112648-001BMS		MS 625.1	15 Dec 2021 13:43
11	67	S21121514.D	1.	2112648-001BMSD		MSD 625.1	15 Dec 2021 14:08
12	68	S21121515.D	1.	2112D37-002A		SAMP 625.1	15 Dec 2021 15:01
13	69	S21121516.D	1.	2112E71-013B		SAMP 625.1	15 Dec 2021 17:36
14	70	S21121517.D	1.	2112E71-020B		SAMP 625.1	15 Dec 2021 18:02
15	71	S21121518.D	1.	2112E71-029D		SAMP 625.1	15 Dec 2021 18:28
16	72	S21121519.D	1.	2112E71-032F		SAMP 625.1	15 Dec 2021 18:54
17	73	S21121520.D	1.	2112E71-033F		SAMP 625.1	15 Dec 2021 19:20
18	74	S21121521.D	1.	2112D56-001A		SAMP 625.1_SC	15 Dec 2021 19:46
19	75	S21121522.D	1.	2112D79-001A		SAMP 625.1_SC	15 Dec 2021 20:12
20	76	S21121523.D	1.	2112B03-002C		SAMP 625.1_SC	15 Dec 2021 20:38
21	77	S21121524.D	1.	2112B04-001A		SAMP 625.1_SC	15 Dec 2021 21:04
22	78	S21121525.D	1.	2112F19-001E	5X	SAMP 625.1_SC	15 Dec 2021 21:30
23	79	S21121526.D	1.	2112G62-006E	10X	SAMP 8270_TCL4.2_S	15 Dec 2021 14:34
24	80	S21121527.D	1.	2112G62-006EMS	10X	MS 8270_TCL4.2_S	15 Dec 2021 15:27
25	81	S21121528.D	1.	2112G62-006EMSD	10X	MSD 8270_TCL4.2_S	15 Dec 2021 17:11
26	82	S21121529.D	1.	MB-327394		MBLK 1311_B	15 Dec 2021 15:54
27	83	S21121530.D	1.	LCS-327394		LCS 1311_B	15 Dec 2021 16:20
28	84	S21121531.D	1.	2112F13-001A		SAMP 8270_SC_TCL4.2_S	15 Dec 2021 21:57
29	85	S21121532.D	1.	2112F13-002C		SAMP 8270_SC_TCL4.2_S	15 Dec 2021 22:23
30	86	S21121533.D	1.	2112F13-003A		SAMP 8270_SC_TCL4.2_S	15 Dec 2021 22:50
31	87	S21121534.D	1.	2112F13-004C		SAMP 8270_SC_TCL4.2_S	15 Dec 2021 23:16
32	88	S21121535.D	1.	2112F13-005A		SAMP 8270_SC_TCL4.2_S	15 Dec 2021 23:42
33	89	S21121536.D	1.	2112F13-006C		SAMP 8270_SC_TCL4.2_S	16 Dec 2021 00:09
34	90	S21121537.D	1.	2112F13-007A		SAMP 8270_SC_TCL4.2_S	16 Dec 2021 00:36
35	91	S21121538.D	1.	2112F13-008C		SAMP 8270_SC_TCL4.2_S	16 Dec 2021 01:02
36	92	S21121539.D	1.	2112F13-009C		SAMP 8270_SC_TCL4.2_S	16 Dec 2021 01:29
37	93	S21121540.D	1.	2112F13-010C		SAMP 8270_SC_TCL4.2_S	16 Dec 2021 01:55
38	94	S21121541.D	1.	2112F13-011C		SAMP 8270_SC_TCL4.2_S	16 Dec 2021 02:21
39	95	S21121542.D	1.	2112F13-013C		SAMP 8270_SC_TCL4.2_S	16 Dec 2021 02:47

Injection Log

Directory: C:\MS-9\New\Raw Data\S211215

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
40	96	S21121543.D	1.	2112F13-014C	SAMP 8270_SC_TCL4.2_S	16 Dec 2021 03:13
41	97	S21121544.D	1.	2112F13-015C	SAMP 8270_SC_TCL4.2_S	16 Dec 2021 03:40

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S211215\
Data File : S21121505.D
Acq On : 15 Dec 2021 11:58 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 14:42:43 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	115	0.00
2		Pyridine	1.678	1.437	14.4	99	0.00
3	T	2-Picoline	1.646	1.320	19.8	90	0.00
4	T	Methyl methanesulfonate	0.820	0.563	31.3#	80	0.00
5	S	2-Fluorophenol	1.373	1.260	8.2	104	0.01
6	T	Ethyl methanesulfonate	1.239	1.073	13.4	98	0.00
7	P	Benzaldehyde	0.942	0.947	-0.5	112	0.00
8	T	Aniline	1.016	0.603	40.6#	67	0.00
9	S	Phenol-d5	1.679	1.587	5.5	109	0.02
10	P	Phenol	1.995	1.735	13.0	107	0.02
11	P	Bis(2-chloroethyl)ether	1.405	1.293	8.0	108	0.00
12	P	2-Chlorophenol	1.491	1.504	-0.9	115	0.00
13	T	1,3-Dichlorobenzene	1.651	1.604	2.8	111	0.00
14	CCC	1,4-Dichlorobenzene	1.660	1.565	5.7	108	0.00
15	T	1,2-Dichlorobenzene	1.574	1.539	2.2	112	0.00
16	T	Benzyl alcohol	0.994	0.851	14.4	99	0.00
17	T	Bis(2-chloroisopropyl)ether	2.652	1.891	28.7#	82	0.00
18	P	2-Methylphenol	1.196	1.156	3.3	110	0.01
19	T	3,4-Methylphenol	1.538	1.528	0.7	112	0.01
20	PC	N-Nitrosodi-n-propylamine	1.035	0.971	6.2	106	0.00
21	T	N-Nitrosodimethylamine	0.925	0.696	24.8	85	0.00
22	T	Hexachloroethane	0.637	0.610	4.2	111	0.00
23	I	Naphthalene-d8	1.000	1.000	0.0	116	0.00
24	S	Nitrobenzene-d5	0.371	0.335	9.7	104	0.00
25	P	Acetophenone	0.503	0.471	6.4	108	0.00
26	P	Nitrobenzene	0.185	0.176	4.9	110	0.00
27	T	N-Nitrosopiperidine	0.187	0.176	5.9	110	0.00
28	P	Isophorone	0.733	0.663	9.5	104	-0.01
29	P	2-Nitrophenol	0.192	0.182	5.2	106	0.00
30	P	2,4-Dimethylphenol	0.329	0.295	10.3	104	0.00
31	P	Bis(2-chloroethoxy)methane	0.429	0.381	11.2	102	0.00
32	P	2,4-Dichlorophenol	0.292	0.244	16.4	97	0.00
33	T	1,2,4-Trichlorobenzene	0.323	0.318	1.5	116	0.00
34	P	Naphthalene	1.117	1.103	1.3	116	0.00
35	T	Benzoic acid	0.210	0.059	71.9#	34#	0.03
36	T	2,6-Dichlorophenol	0.284	0.278	2.1	112	0.00
37	P	4-Chloroaniline	0.455	0.401	11.9	100	0.00
38	P	Hexachlorobutadiene	0.158	0.147	7.0	109	0.00
39	T	a,a-Dimethylphenethylamine	1.198	0.935	22.0	91	0.07
40	P	Caprolactam	0.115	0.120	-4.3	116	0.02
41	P	4-Chloro-3-methylphenol	0.306	0.291	4.9	108	0.00
42	T	N-Nitrosodi-n-butylamine	0.279	0.221	20.8	82	0.00
43	P	2-Methylnaphthalene	0.638	0.619	3.0	113	0.00
44	T	1-Methylnaphthalene	0.617	0.626	-1.5	116	0.00
45	I	Acenaphthene-d10	1.000	1.000	0.0	121	0.00
46	T	1,2,4,5-Tetrachlorobenzene	0.535	0.485	9.3	112	0.00
47	P	Hexachlorocyclopentadiene	0.326	0.354	-8.6	131	0.00
48	P	2,4,6-Trichlorophenol	0.372	0.324	12.9	104	0.00
49	P	2,4,5-Trichlorophenol	0.394	0.353	10.4	107	0.00
50	S	2-Fluorobiphenyl	1.315	1.283	2.4	115	0.00
51		Biphenyl	1.572	1.521	3.2	117	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S211215\
Data File : S21121505.D
Acq On : 15 Dec 2021 11:58 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 14:42:43 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	P	2-Chloronaphthalene	1.214	1.187	2.2	120	0.00
53	T	1-Chloronaphthalene	1.070	0.989	7.6	107	0.00
54	P	2-Nitroaniline	0.423	0.340	19.6	96	0.00
55	P	3-Nitroaniline	0.392	0.325	17.1	98	0.00
56	T	Pentachlorobenzene	0.443	0.420	5.2	114	0.00
57	T	4-Nitroaniline	0.385	0.334	13.2	104	0.00
58	T	2-Naphthylamine	1.269	0.777	38.8#	74	0.00
59	T	1-Naphthylamine	1.321	0.688	47.9#	63	0.00
60	P	Dimethyl phthalate	1.310	1.287	1.8	117	0.00
61	P	Acenaphthylene	1.915	1.843	3.8	115	0.00
62	P	2,6-Dinitrotoluene	0.298	0.299	-0.3	116	0.00
63	P	Acenaphthene	1.148	1.131	1.5	119	0.00
64	P	2,4-Dinitrophenol	0.161	0.204	-26.7#	157#	-0.01
65	P	Dibenzofuran	1.678	1.659	1.1	120	0.00
66	P	4-Nitrophenol	0.211	0.140	33.6#	75	0.00
67	P	2,4-Dinitrotoluene	0.411	0.422	-2.7	120	0.00
68	T	2,3,4,6-Tetrachlorophenol	0.293	0.153	47.8#	60	0.00
69	P	Diethyl phthalate	1.344	1.337	0.5	118	0.00
70	P	Fluorene	1.395	1.385	0.7	120	0.00
71	P	4-Chlorophenyl phenyl ether	0.582	0.568	2.4	116	0.00
72	S	2,4,6-Tribromophenol	0.130	0.111	14.6	99	0.00
73	I	Phenanthrene-d10	1.000	1.000	0.0	127	0.00
74	P	4,6-Dinitro-2-methylphenol	0.135	0.081	40.0#	74	0.00
75	T	Azobenzene	0.803	0.769	4.2	119	0.00
76	T	1,2-Diphenylhydrazine	0.191	0.172	9.9	112	0.00
77	CCC	Diphenylamine	0.139	0.128	7.9	114	0.00
78	P	N-Nitrosodiphenylamine	0.693	0.636	8.2	113	0.00
79	P	4-Bromophenyl phenyl ether	0.199	0.183	8.0	115	0.00
80	T	Phenacetin	0.421	0.394	6.4	115	0.00
81	P	Hexachlorobenzene	0.189	0.180	4.8	119	0.00
82	P	Atrazine	0.191	0.156	18.3	100	0.00
83	T	4-Aminobiphenyl	0.843	0.561	33.5#	83	0.00
84	P	Pentachlorophenol	0.141	0.130	7.8	115	0.00
85	T	Pentachloronitrobenzene	0.086	0.072	16.3	104	0.00
86	T	Pronamide	0.304	0.260	14.5	105	0.00
87	P	Phenanthrene	1.180	1.108	6.1	116	0.00
88	P	Anthracene	1.188	1.104	7.1	116	0.00
89	P	Carbazole	1.002	0.996	0.6	122	0.00
90	P	Di-n-butyl phthalate	1.368	1.330	2.8	119	0.00
91	P	Fluoranthene	1.233	1.207	2.1	121	0.00
92	I	Chrysene-d12	1.000	1.000	0.0	131	0.00
93	P	Pyrene	1.553	1.427	8.1	119	0.00
94	S	4-Terphenyl-d14	1.018	0.904	11.2	116	0.00
95	T	Benzidine	0.697	0.342	50.9#	62	0.00
96	T	p-Dimethylaminoazobenzene	0.273	0.246	9.9	113	0.00
97	P	Butyl benzyl phthalate	0.747	0.701	6.2	119	0.00
98	P	Benz(a)anthracene	1.343	1.240	7.7	119	0.00
99	P	3,3'-Dichlorobenzidine	0.470	0.416	11.5	113	0.00
100	P	Chrysene	1.327	1.224	7.8	121	0.00
101	P	Bis(2-ethylhexyl)phthalate	0.994	0.941	5.3	119	0.00
102	P	Di-n-octyl phthalate	1.729	1.702	1.6	125	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S211215\
Data File : S21121505.D
Acq On : 15 Dec 2021 11:58 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 14:42:43 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	0.389	0.369	5.1	117	0.00
104	I	Perylene-d12	1.000	1.000	0.0	139	0.00
105	P	Benzo[b]fluoranthene	1.452	1.295	10.8	121	0.00
106	P	Benzo[k]fluoranthene	1.297	1.350	-4.1	143	0.00
107	P	Benzo[a]pyrene	1.249	1.235	1.1	133	0.00
108	T	Dibenz(a,j)acridine	1.049	1.068	-1.8	134	0.00
109		Indeno[1,2,3-cd]pyrene	1.482	1.444	2.6	129	0.00
110	P	Dibenz(a,h)anthracene	1.212	1.200	1.0	130	0.00
111	P	Benzo[g,h,i]perylene	1.225	1.211	1.1	134	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S211215\
Data File : S21121505.D
Acq On : 15 Dec 2021 11:58 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 14:42:43 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	115	0.00
2		Pyridine	60.000	51.367	14.4	99	0.00
3	T	2-Picoline	60.000	48.135	19.8	90	0.00
4	T	Methyl methanesulfonate	60.000	41.165	31.4#	80	0.00
5	S	2-Fluorophenol	60.000	55.061	8.2	104	0.01
6	T	Ethyl methanesulfonate	60.000	51.955	13.4	98	0.00
7	P	Benzaldehyde	60.000	60.359	-0.6	112	0.00
8	T	Aniline	60.000	35.616	40.6#	67	0.00
9	S	Phenol-d5	60.000	56.689	5.5	109	0.02
10	P	Phenol	60.000	52.193	13.0	107	0.02
11	P	Bis(2-chloroethyl)ether	60.000	55.188	8.0	108	0.00
12	P	2-Chlorophenol	60.000	60.537	-0.9	115	0.00
13	T	1,3-Dichlorobenzene	60.000	58.300	2.8	111	0.00
14	CCC	1,4-Dichlorobenzene	60.000	56.580	5.7	108	0.00
15	T	1,2-Dichlorobenzene	60.000	58.662	2.2	112	0.00
16	T	Benzyl alcohol	60.000	51.390	14.4	99	0.00
17	T	Bis(2-chloroisopropyl)ether	60.000	42.786	28.7#	82	0.00
18	P	2-Methylphenol	60.000	58.019	3.3	110	0.01
19	T	3,4-Methylphenol	120.000	119.174	0.7	112	0.01
20	PC	N-Nitrosodi-n-propylamine	60.000	56.258	6.2	106	0.00
21	T	N-Nitrosodimethylamine	60.000	45.128	24.8	85	0.00
22	T	Hexachloroethane	60.000	57.389	4.4	111	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	116	0.00
24	S	Nitrobenzene-d5	60.000	54.195	9.7	104	0.00
25	P	Acetophenone	120.000	112.518	6.2	108	0.00
26	P	Nitrobenzene	60.000	57.083	4.9	110	0.00
27	T	N-Nitrosopiperidine	60.000	56.413	6.0	110	0.00
28	P	Isophorone	60.000	54.237	9.6	104	-0.01
29	P	2-Nitrophenol	60.000	56.757	5.4	106	0.00
30	P	2,4-Dimethylphenol	60.000	53.921	10.1	104	0.00
31	P	Bis(2-chloroethoxy)methane	60.000	53.294	11.2	102	0.00
32	P	2,4-Dichlorophenol	60.000	50.186	16.4	97	0.00
33	T	1,2,4-Trichlorobenzene	60.000	58.981	1.7	116	0.00
34	P	Naphthalene	60.000	59.264	1.2	116	0.00
35	T	Benzoic acid	60.000	25.206	58.0#	34	0.03
36	T	2,6-Dichlorophenol	60.000	58.569	2.4	112	0.00
37	P	4-Chloroaniline	60.000	52.828	12.0	100	0.00
38	P	Hexachlorobutadiene	60.000	56.051	6.6	109	0.00
39	T	a,a-Dimethylphenethylamine	60.000	46.814	22.0	91	0.07
40	P	Caprolactam	60.000	62.625	-4.4	116	0.02
41	P	4-Chloro-3-methylphenol	60.000	57.085	4.9	108	0.00
42	T	N-Nitrosodi-n-butylamine	60.000	47.538	20.8	82	0.00
43	P	2-Methylnaphthalene	60.000	58.270	2.9	113	0.00
44	T	1-Methylnaphthalene	60.000	60.934	-1.6	116	0.00
45	I	Acenaphthene-d10	40.000	40.000	0.0	121	0.00
46	T	1,2,4,5-Tetrachlorobenzene	60.000	54.417	9.3	112	0.00
47	P	Hexachlorocyclopentadiene	60.000	65.179	-8.6	131	0.00
48	P	2,4,6-Trichlorophenol	60.000	52.369	12.7	104	0.00
49	P	2,4,5-Trichlorophenol	60.000	53.756	10.4	107	0.00
50	S	2-Fluorobiphenyl	60.000	58.497	2.5	115	0.00
51		Biphenyl	60.000	58.028	3.3	117	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S211215\
Data File : S21121505.D
Acq On : 15 Dec 2021 11:58 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 14:42:43 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	P	2-Chloronaphthalene	60.000	58.632	2.3	120	0.00
53	T	1-Chloronaphthalene	60.000	55.418	7.6	107	0.00
54	P	2-Nitroaniline	60.000	48.166	19.7	96	0.00
55	P	3-Nitroaniline	60.000	49.751	17.1	98	0.00
56	T	Pentachlorobenzene	60.000	56.915	5.1	114	0.00
57	T	4-Nitroaniline	60.000	52.065	13.2	104	0.00
58	T	2-Naphthylamine	60.000	36.759	38.7#	74	0.00
59	T	1-Naphthylamine	60.000	31.242	47.9#	63	0.00
60	P	Dimethyl phthalate	60.000	58.947	1.8	117	0.00
61	P	Acenaphthylene	60.000	57.755	3.7	115	0.00
62	P	2,6-Dinitrotoluene	60.000	60.154	-0.3	116	0.00
63	P	Acenaphthene	60.000	59.124	1.5	119	0.00
64	P	2,4-Dinitrophenol	60.000	69.928	-16.5	157	-0.01
65	P	Dibenzofuran	60.000	59.319	1.1	120	0.00
66	P	4-Nitrophenol	60.000	39.798	33.7#	75	0.00
67	P	2,4-Dinitrotoluene	60.000	61.627	-2.7	120	0.00
68	T	2,3,4,6-Tetrachlorophenol	60.000	31.310	47.8#	60	0.00
69	P	Diethyl phthalate	60.000	59.695	0.5	118	0.00
70	P	Fluorene	60.000	59.546	0.8	120	0.00
71	P	4-Chlorophenyl phenyl ether	60.000	58.514	2.5	116	0.00
72	S	2,4,6-Tribromophenol	60.000	49.870	16.9	99	0.00
73	I	Phenanthrene-d10	40.000	40.000	0.0	127	0.00
74	P	4,6-Dinitro-2-methylphenol	60.000	38.622	35.6#	74	0.00
75	T	Azobenzene	60.000	57.437	4.3	119	0.00
76	T	1,2-Diphenylhydrazine	60.000	53.888	10.2	112	0.00
77	CCC	Diphenylamine	60.000	55.277	7.9	114	0.00
78	P	N-Nitrosodiphenylamine	60.000	55.131	8.1	113	0.00
79	P	4-Bromophenyl phenyl ether	60.000	55.047	8.3	115	0.00
80	T	Phenacetin	60.000	56.166	6.4	115	0.00
81	P	Hexachlorobenzene	60.000	57.187	4.7	119	0.00
82	P	Atrazine	60.000	49.096	18.2	100	0.00
83	T	4-Aminobiphenyl	60.000	39.946	33.4#	83	0.00
84	P	Pentachlorophenol	60.000	55.578	7.4	115	0.00
85	T	Pentachloronitrobenzene	60.000	50.352	16.1	104	0.00
86	T	Pronamide	60.000	51.198	14.7	105	0.00
87	P	Phenanthrene	60.000	56.313	6.1	116	0.00
88	P	Anthracene	60.000	55.764	7.1	116	0.00
89	P	Carbazole	60.000	59.609	0.7	122	0.00
90	P	Di-n-butyl phthalate	60.000	58.338	2.8	119	0.00
91	P	Fluoranthene	60.000	58.703	2.2	121	0.00
92	I	Chrysene-d12	40.000	40.000	0.0	131	0.00
93	P	Pyrene	60.000	55.146	8.1	119	0.00
94	S	4-Terphenyl-d14	60.000	53.279	11.2	116	0.00
95	T	Benzidine	60.000	29.461	50.9#	62	0.00
96	T	p-Dimethylaminoazobenzene	60.000	54.029	10.0	113	0.00
97	P	Butyl benzyl phthalate	60.000	56.346	6.1	119	0.00
98	P	Benz(a)anthracene	60.000	55.409	7.7	119	0.00
99	P	3,3'-Dichlorobenzidine	60.000	53.048	11.6	113	0.00
100	P	Chrysene	60.000	55.360	7.7	121	0.00
101	P	Bis(2-ethylhexyl)phthalate	60.000	56.843	5.3	119	0.00
102	P	Di-n-octyl phthalate	60.000	59.057	1.6	125	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S211215\
Data File : S21121505.D
Acq On : 15 Dec 2021 11:58 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 14:42:43 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	60.000	56.894	5.2	117	0.00
104	I	Perylene-d12	40.000	40.000	0.0	139	0.00
105	P	Benzo[b]fluoranthene	60.000	53.530	10.8	121	0.00
106	P	Benzo[k]fluoranthene	60.000	62.463	-4.1	143	0.00
107	P	Benzo[a]pyrene	60.000	59.339	1.1	133	0.00
108	T	Dibenz(a,j)acridine	60.000	61.107	-1.8	134	0.00
109		Indeno[1,2,3-cd]pyrene	60.000	58.437	2.6	129	0.00
110	P	Dibenz(a,h)anthracene	60.000	59.364	1.1	130	0.00
111	P	Benzo[g,h,i]perylene	60.000	59.335	1.1	134	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

GC/MS QA-QC Check Report

Tune File : C:\MS-9\New\Raw Data\S211215\S21121505.D
Tune Time : 15 Dec 2021 11:58 am

Daily Calibration File : C:\MS-9\New\Raw Data\S211215\S21121505.D

(2FP)	(PHL)	(NBZ)	(FBP)	(DCB)	(NPT)	(ANT)
				46163	185530	103879

(TPH)	(PHN)	(CRY)	(PRY)
	187072	158919	144974

File	Sample	Surrogate Recovery %				Internal Standard Responses		
S21121510.D								
	MB-327168	74	45	97	125*	38650	153892	81098
		92	128			143239	111020	115649
S21121511.D								
	LCS-327168	77	45	107	118*	37951	146336	81102
		100	115			144779	122332	120890
S21121512.D								
	2112648-00	31	25	51	68	46101	183646	98883
		42	69			179264	142325	147647
S21121513.D								
	2112648-00	29	35	76	92	47468	184127	101065
		61	85			182843	152806	151716
S21121514.D								
	2112648-00	42	27	82	92	44787	180286	96781
		60	85			172683	146037	144501
S21121515.D								
	2112D37-00	61	45	66	78	42511	171875	94232
		68	77			163705	132494	135708
S21121516.D								
	2112E71-01	19*	17	79	92	49797	194641	107775
		47	55			186650	143528	157740
S21121517.D								
	2112E71-02	36	24	37	36*	47821	188793	100848
		47	37			182362	153002	156607
S21121518.D								
	2112E71-02	48	32	65	80	45785	180394	98678
		37	79			173524	144322	147472
S21121519.D								
	2112E71-03	22	13	29*	36*	47601	188333	105045
		34	35			179166	147563	152452
S21121520.D								
	2112E71-03	25	17	66	82	53021	219722	119859
		54	79			211811	172950	175922
S21121521.D								
	2112D56-00	27	12	70	85	44659	183153	101897
		56	82			179744	145449	146543
S21121522.D								
	2112D79-00	39	24	72	88	36805	149860	82506
		71	85			144568	118100	120813
S21121523.D								
	2112B03-00	43	24	74	88	44730	184647	100256
		76	82			176632	141173	148827

S21121524.D								
	2112B04-00	29	17	51	62	42706	173757	93207
		57	42			170031	137619	138245
S21121525.D								
	2112F19-00	0*	0*	0*	0*	50726	219394	124773
		6*	0*			210622	177619	181845
S21121526.D								
	2112G62-00	0*	0*	0*	5*	57137	230071	126641
		0*	5*			218162	180901	177250
S21121527.D								
	2112G62-00	4*	5*	0*	5*	53753	221776	121101
		0*	5*			218817	175176	174844
S21121528.D								
	2112G62-00	0*	0*	4*	6*	56240	230018	124506
		0*	6*			221012	183590	185636
S21121529.D								
	MB-327394	61	50	68	83	44200	176880	96058
		72	92			173541	137035	141211
S21121530.D								
	LCS-327394	79	64	89	98	47106	184691	99768
		81	97			180882	146004	150059
S21121531.D								
	2112F13-00	71	73	74	86	57636	236064	130910
		76	84			226965	185447	193288
S21121532.D								
	2112F13-00	71	70	73	85	55806	224951	123496
		79	88			220103	181293	188347
S21121533.D								
	2112F13-00	63	63	70	87	61320	238211	128731
		80	85			233738	192632	203642
S21121534.D								
	2112F13-00	72	70	71	85	57600	231171	127466
		82	88			226155	189838	197278
S21121535.D								
	2112F13-00	76	74	74	88	61301	252948	137530
		81	86			244190	192108	235564
S21121536.D								
(fails)	2112F13-00	70	62	69	79	56255	224745	129707
		78	86			228614	180761	193776
S21121537.D								
(fails)	2112F13-00	70	67	70	84	54695	220483	119471
		81	81			222892	175620	192890
S21121538.D								
(fails)	2112F13-00	58	57	60	74	66846	269703	146556
		71	76			269407	217965	237471
S21121539.D								
(fails)	2112F13-00	67	67	69	84	59282	240938	131829
		80	85			236988	188487	207003
S21121540.D								
(fails)	2112F13-01	67	62	66	75	64448	252054	141361
		72	74			255258	198872	220433
S21121541.D								

(fails)	2112F13-01	69	63	67	82	67303	268843	149723
		81	83			272714	212371	241982
S21121542.D								
(fails)	2112F13-01	71	65	67	77	53549	220569	121639
		71	78			216242	178346	194561
S21121543.D								
(fails)	2112F13-01	71	68	69	82	62484	252255	138914
		80	85			253588	202875	226346
S21121544.D								
(fails)	2112F13-01	68	64	66	81	57095	236607	131150
		79	89			235926	189534	207338

(fails) - fails 12hr time check * - fails criteria

Created: Thu Dec 16 10:34:35 2021 MS-9

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211215\
Data File : S21121505.D
Acq On : 15 Dec 2021 11:58 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 14:42:43 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.922	152	46163	40.00	ng		0.00
23) Naphthalene-d8	5.554	136	185530	40.00	ng		0.00
45) Acenaphthene-d10	7.603	164	103879	40.00	ng		0.00
73) Phenanthrene-d10	9.261	188	187072	40.00	ng		0.00
92) Chrysene-d12	12.196	240	158919	40.00	ng		0.00
104) Perylene-d12	13.674	264	144974	40.00	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	2.563	112	87248	55.06	ng		0.01
Spiked Amount 100.000	Range 21 - 119		Recovery = 55.06%				
9) Phenol-d5	3.735	99	109865	56.69	ng		0.02
Spiked Amount 100.000	Range 10 - 121		Recovery = 56.69%				
24) Nitrobenzene-d5	4.691	82	93167	54.19	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 108.38%				
50) 2-Fluorobiphenyl	6.877	172	199842	58.50	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 117.00%#				
72) 2,4,6-Tribromophenol	8.529	330	17352	49.87	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 49.87%				
94) 4-Terphenyl-d14	11.063	244	215590	53.28	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 106.56%				
Target Compounds							Qvalue
2) Pyridine	1.249	79	99491	51.37	ng		90
3) 2-Picoline	1.850	93	91419	48.13	ng		89
4) Methyl methanesulfonate	2.304	80	38972	41.16	ng		95
6) Ethyl methanesulfonate	3.062	79	74301	51.95	ng		97
7) Benzaldehyde	3.386	105	65589	60.36	ng		98
8) Aniline	3.559	66	41770	35.62	ng	#	87
10) Phenol	3.752	94	120159	52.19	ng		90
11) Bis(2-chloroethyl)ether	3.638	93	89516	55.19	ng		99
12) 2-Chlorophenol	3.741	128	104178	60.54	ng		99
13) 1,3-Dichlorobenzene	3.843	146	111089	58.30	ng		96
14) 1,4-Dichlorobenzene	3.945	146	108365	56.58	ng		96
15) 1,2-Dichlorobenzene	4.144	146	106555	58.66	ng		96
16) Benzyl alcohol	4.234	108	58952	51.39	ng	#	66
17) Bis(2-chloroisopropyl)ether	4.362	45	130939	42.79	ng	#	60
18) 2-Methylphenol	4.490	107	80049	58.02	ng	#	13
19) 3,4-Methylphenol	4.717	107	211567	119.17	ng	#	79
20) N-Nitrosodi-n-propylamine	4.538	70	67224	56.26	ng		99
21) N-Nitrosodimethylamine	1.246	42	48173	45.13	ng		99
22) Hexachloroethane	4.558	117	42220	57.39	ng		98
25) Acetophenone	4.507	105	262351	112.52	ng		93
26) Nitrobenzene	4.717	123	48926	57.08	ng	#	23
27) N-Nitrosopiperidine	4.907	114	48848	56.41	ng		96
28) Isophorone	5.038	82	184500	54.24	ng		99
29) 2-Nitrophenol	5.126	139	50599	56.76	ng		97
30) 2,4-Dimethylphenol	5.333	122	82225	53.92	ng		97
31) Bis(2-chloroethoxy)methane	5.355	93	106048	53.29	ng		99
32) 2,4-Dichlorophenol	5.529	162	67904	50.19	ng		87
33) 1,2,4-Trichlorobenzene	5.506	180	88473	58.98	ng		100
34) Naphthalene	5.580	128	306952	59.26	ng		100
35) Benzoic acid	5.651	105	16488	25.21	ng		88
36) 2,6-Dichlorophenol	5.741	162	77248	58.57	ng		98
37) 4-Chloroaniline	5.744	127	111486	52.83	ng		97
38) Hexachlorobutadiene	5.758	225	40970	56.05	ng		98
39) a,a-Dimethylphenethylamine	5.710	58	260110	46.81	ng		82
40) Caprolactam	6.213	113	33500	62.62	ng		95

Data Path : C:\MS-9\New\Raw Data\S211215\
Data File : S21121505.D
Acq On : 15 Dec 2021 11:58 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 14:42:43 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.482	107	81061	57.08	ng		91
42) N-Nitrosodi-n-butylamine	6.150	84	61549	47.54	ng		96
43) 2-Methylnaphthalene	6.423	141	172321	58.27	ng		99
44) 1-Methylnaphthalene	6.531	141	174255	60.93	ng		98
46) 1,2,4,5-Tetrachlorobenzene	6.630	216	75544	54.42	ng		99
47) Hexachlorocyclopentadiene	6.613	237	55118	65.18	ng	#	94
48) 2,4,6-Trichlorophenol	6.843	196	50526	52.37	ng		99
49) 2,4,5-Trichlorophenol	6.953	196	54965	53.76	ng		99
51) Biphenyl	6.982	154	236964	58.03	ng		100
52) 2-Chloronaphthalene	6.982	162	184907	58.63	ng		99
53) 1-Chloronaphthalene	7.002	162	154040	55.42	ng		99
54) 2-Nitroaniline	7.189	65	52949	48.17	ng		94
55) 3-Nitroaniline	7.677	138	50640	49.75	ng	#	96
56) Pentachlorobenzene	7.808	250	65489	56.92	ng		98
57) 4-Nitroaniline	8.384	138	52020	52.07	ng		92
58) 2-Naphthylamine	7.964	143	121101	36.76	ng		97
59) 1-Naphthylamine	8.063	143	107194	31.24	ng		98
60) Dimethyl phthalate	7.393	163	200497	58.95	ng		100
61) Acenaphthylene	7.444	152	287176	57.75	ng		100
62) 2,6-Dinitrotoluene	7.459	165	46593	60.15	ng	#	66
63) Acenaphthene	7.640	154	176296	59.12	ng		99
64) 2,4-Dinitrophenol	7.842	184	31718	69.93	ng		99
65) Dibenzofuran	7.845	168	258469	59.32	ng		98
66) 4-Nitrophenol	8.120	109	21826	39.80	ng		98
67) 2,4-Dinitrotoluene	7.924	165	65744	61.63	ng	#	81
68) 2,3,4,6-Tetrachlorophenol	8.066	232	23788	31.31	ng		98
69) Diethyl phthalate	8.188	149	208322	59.70	ng		100
70) Fluorene	8.228	166	215752	59.55	ng		99
71) 4-Chlorophenyl phenyl ether	8.253	204	88514	58.51	ng		99
74) 4,6-Dinitro-2-methylphenol	8.398	198	22623	38.62	ng	#	1
75) Azobenzene	8.432	77	215761	57.44	ng		92
76) 1,2-Diphenylhydrazine	8.432	182	48262	53.89	ng	#	78
77) Diphenylamine	8.415	170	36043	55.28	ng		96
78) N-Nitrosodiphenylamine	8.415	168	178559	55.13	ng		99
79) 4-Bromophenyl phenyl ether	8.790	248	51357	55.05	ng		98
80) Phenacetin	8.861	108	110629	56.17	ng		97
81) Hexachlorobenzene	8.844	284	50643	57.19	ng		99
82) Atrazine	9.065	200	43842	49.10	ng		95
83) 4-Aminobiphenyl	9.108	169	157525	39.95	ng	#	98
84) Pentachlorophenol	9.133	266	36566	55.58	ng		96
85) Pentachloronitrobenzene	9.099	237	20280	50.35	ng		96
86) Pronamide	9.230	173	72841	51.20	ng		96
87) Phenanthrene	9.289	178	310807	56.31	ng		99
88) Anthracene	9.346	178	309875	55.76	ng		99
89) Carbazole	9.587	167	279363	59.61	ng		98
90) Di-n-butyl phthalate	10.002	149	373219	58.34	ng		99
91) Fluoranthene	10.606	202	338595	58.70	ng		98
93) Pyrene	10.845	202	340175	55.15	ng		100
95) Benzidine	10.830	184	81546	29.46	ng		95
96) p-Dimethylaminoazobenzene	11.233	225	58659	54.03	ng		93
97) Butyl benzyl phthalate	11.642	149	167153	56.35	ng		97
98) Benz(a)anthracene	12.187	228	295685	55.41	ng		100
99) 3,3'-Dichlorobenzidine	12.204	252	99159	53.05	ng		98
100) Chrysene	12.224	228	291800	55.36	ng		99
101) Bis(2-ethylhexyl)phthalate	12.306	149	224402	56.84	ng		96
102) Di-n-octyl phthalate	12.985	149	405618	59.06	ng		100
103) 3-Methylcholanthrene	13.950	268	87938	56.89	ng		97

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211215\
Data File : S21121505.D
Acq On : 15 Dec 2021 11:58 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 14:42:43 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

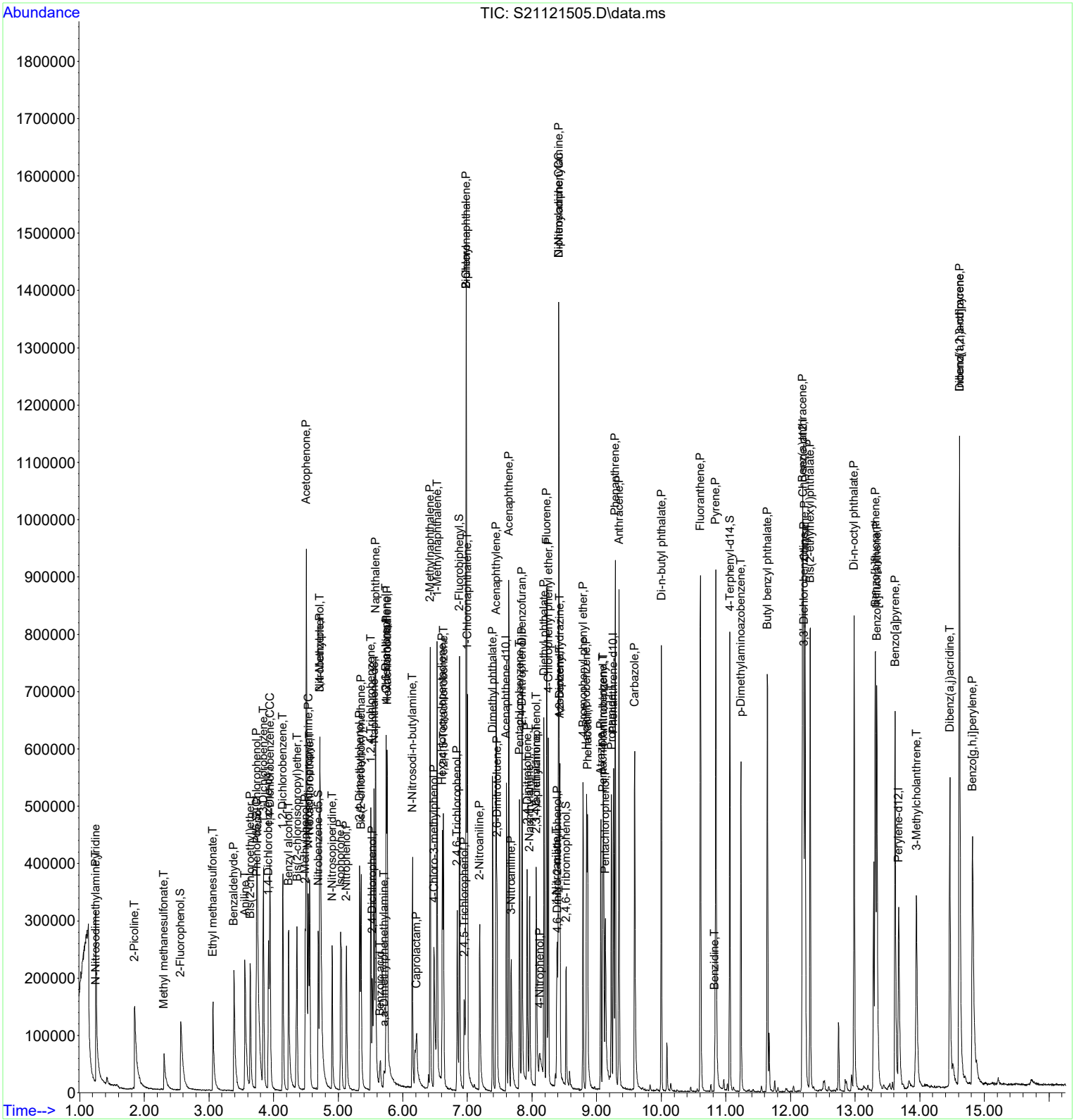
Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene	...	13.314	252	281652	53.53	ng		97
106) Benzo[k]fluoranthene	...	13.334	252	293624	62.46	ng		95
107) Benzo[a]pyrene	...	13.620	252	268540	59.34	ng		96
108) Dibenz(a,j)acridine	...	14.466	279	232259	61.11	ng		100
109) Indeno[1,2,3-cd]pyrene	...	14.617	276	313950	58.44	ng	#	80
110) Dibenz(a,h)anthracene	...	14.617	278	260862	59.36	ng		93
111) Benzo[g,h,i]perylene	...	14.818	276	263400	59.33	ng		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211215\
Data File : S21121505.D
Acq On : 15 Dec 2021 11:58 am
Operator : YH
Sample : bna60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 14:42:43 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211215\
Data File : S21121526.D
Acq On : 15 Dec 2021 2:34 pm
Operator : YH
Sample : 2112G62-006E 10X
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 79 Sample Multiplier: 1

Quant Time: Dec 15 14:56:04 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	3.922	152	57137	40.00	ng	0.00
23) Naphthalene-d8	...	5.554	136	230071	40.00	ng	0.00
45) Acenaphthene-d10	...	7.603	164	126641	40.00	ng	0.00
73) Phenanthrene-d10	...	9.261	188	218162	40.00	ng	0.00
92) Chrysene-d12	...	12.193	240	180901	40.00	ng	0.00
104) Perylene-d12	...	13.669	264	177250	40.00	ng	0.00
System Monitoring Compounds							
5) 2-Fluorophenol	...	0.000	112	0	0.00	ng	
Spiked Amount 100.000	Range 21 - 119		Recovery =	0.00%#			
9) Phenol-d5	...	0.000	99	0	0.00	ng	
Spiked Amount 100.000	Range 10 - 121		Recovery =	0.00%#			
24) Nitrobenzene-d5	...	0.000	82	0	0.00	ng	
Spiked Amount 50.000	Range 34 - 114		Recovery =	0.00%#			
50) 2-Fluorobiphenyl	...	6.885	172	10777	2.59	ng	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery =	5.18%#			
72) 2,4,6-Tribromophenol	...	0.000	330	0	0.00	ng	
Spiked Amount 100.000	Range 10 - 123		Recovery =	0.00%#			
94) 4-Terphenyl-d14	...	11.063	244	11386	2.47	ng	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery =	4.94%#			

Target Compounds					Qvalue
2) Pyridine	...	0.000	79	0	N.D.
3) 2-Picoline	...	0.000	93	0	N.D.
4) Methyl methanesulfonate	...	0.000	80	0	N.D.
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.
7) Benzaldehyde	...	0.000	105	0	N.D.
8) Aniline	...	0.000	66	0	N.D.
10) Phenol	...	0.000	94	0	N.D.
11) Bis(2-chloroethyl)ether	...	0.000	93	0	N.D.
12) 2-Chlorophenol	...	0.000	128	0	N.D.
13) 1,3-Dichlorobenzene	...	0.000	146	0	N.D.
14) 1,4-Dichlorobenzene	...	0.000	146	0	N.D.
15) 1,2-Dichlorobenzene	...	0.000	146	0	N.D.
16) Benzyl alcohol	...	0.000	108	0	N.D.
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0	N.D.
18) 2-Methylphenol	...	0.000	107	0	N.D.
19) 3,4-Methylphenol	...	0.000	107	0	N.D.
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D.
22) Hexachloroethane	...	0.000	117	0	N.D.
25) Acetophenone	...	0.000	105	0	N.D.
26) Nitrobenzene	...	0.000	123	0	N.D.
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.
28) Isophorone	...	0.000	82	0	N.D.
29) 2-Nitrophenol	...	0.000	139	0	N.D.
30) 2,4-Dimethylphenol	...	0.000	122	0	N.D.
31) Bis(2-chloroethoxy)methane	...	0.000	93	0	N.D.
32) 2,4-Dichlorophenol	...	0.000	162	0	N.D.
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.
34) Naphthalene	...	0.000	128	0	N.D.
35) Benzoic acid	...	0.000	105	0	N.D.
36) 2,6-Dichlorophenol	...	0.000	162	0	N.D.
37) 4-Chloroaniline	...	0.000	127	0	N.D.
38) Hexachlorobutadiene	...	0.000	225	0	N.D.
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D.
40) Caprolactam	...	0.000	113	0	N.D.

Data Path : C:\MS-9\New\Raw Data\S211215\
Data File : S21121526.D
Acq On : 15 Dec 2021 2:34 pm
Operator : YH
Sample : 2112G62-006E 10X
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 79 Sample Multiplier: 1

Quant Time: Dec 15 14:56:04 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	0.000	107	0	N.D.			
42) N-Nitrosodi-n-butylamine	0.000	84	0	N.D.			
43) 2-Methylnaphthalene	0.000	141	0	N.D.			
44) 1-Methylnaphthalene	0.000	141	0	N.D.			
46) 1,2,4,5-Tetrachlorobenzene	0.000	216	0	N.D.			
47) Hexachlorocyclopentadiene	0.000	237	0	N.D.			
48) 2,4,6-Trichlorophenol	0.000	196	0	N.D.			
49) 2,4,5-Trichlorophenol	0.000	196	0	N.D.			
51) Biphenyl	0.000	154	0	N.D.			
52) 2-Chloronaphthalene	0.000	162	0	N.D.			
53) 1-Chloronaphthalene	0.000	162	0	N.D.			
54) 2-Nitroaniline	0.000	65	0	N.D.			
55) 3-Nitroaniline	0.000	138	0	N.D.			
56) Pentachlorobenzene	0.000	250	0	N.D.			
57) 4-Nitroaniline	0.000	138	0	N.D.			
58) 2-Naphthylamine	0.000	143	0	N.D.			
59) 1-Naphthylamine	0.000	143	0	N.D.			
60) Dimethyl phthalate	0.000	163	0	N.D.			
61) Acenaphthylene	0.000	152	0	N.D.			
62) 2,6-Dinitrotoluene	0.000	165	0	N.D.			
63) Acenaphthene	0.000	154	0	N.D.			
64) 2,4-Dinitrophenol	0.000	184	0	N.D.			
65) Dibenzofuran	0.000	168	0	N.D.			
66) 4-Nitrophenol	0.000	109	0	N.D.			
67) 2,4-Dinitrotoluene	0.000	165	0	N.D.			
68) 2,3,4,6-Tetrachlorophenol	0.000	232	0	N.D.			
69) Diethyl phthalate	0.000	149	0	N.D.			
70) Fluorene	0.000	166	0	N.D.			
71) 4-Chlorophenyl phenyl ether	0.000	204	0	N.D.			
74) 4,6-Dinitro-2-methylphenol	0.000	198	0	N.D.			
75) Azobenzene	0.000	77	0	N.D.			
76) 1,2-Diphenylhydrazine	0.000	182	0	N.D.			
77) Diphenylamine	0.000	170	0	N.D.			
78) N-Nitrosodiphenylamine	0.000	168	0	N.D.			
79) 4-Bromophenyl phenyl ether	0.000	248	0	N.D.			
80) Phenacetin	0.000	108	0	N.D.			
81) Hexachlorobenzene	0.000	284	0	N.D.			
82) Atrazine	0.000	200	0	N.D.			
83) 4-Aminobiphenyl	0.000	169	0	N.D.			
84) Pentachlorophenol	0.000	266	0	N.D.			
85) Pentachloronitrobenzene	0.000	237	0	N.D.			
86) Pronamide	0.000	173	0	N.D.			
87) Phenanthrene	9.286	178	68008	10.57	ng		98
88) Anthracene	0.000	178	0	N.D.	d		
89) Carbazole	9.613	167	10936	2.00	ng	#	67
90) Di-n-butyl phthalate	0.000	149	0	N.D.			
91) Fluoranthene	10.606	202	209774	31.19	ng		98
93) Pyrene	10.845	202	165849	23.62	ng		96
95) Benzidine	0.000	184	0	N.D.			
96) p-Dimethylaminoazobenzene	0.000	225	0	N.D.			
97) Butyl benzyl phthalate	0.000	149	0	N.D.			
98) Benz(a)anthracene	12.184	228	70357	11.58	ng		93
99) 3,3'-Dichlorobenzidine	0.000	252	0	N.D.			
100) Chrysene	12.221	228	108714	18.12	ng		96
101) Bis(2-ethylhexyl)phthalate	0.000	149	0	N.D.			
102) Di-n-octyl phthalate	0.000	149	0	N.D.			
103) 3-Methylcholanthrene	0.000	268	0	N.D.			

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Data Path : C:\MS-9\New\Raw Data\S211215\
Data File : S21121526.D
Acq On : 15 Dec 2021 2:34 pm
Operator : YH
Sample : 2112G62-006E 10X
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 79 Sample Multiplier: 1

Quant Time: Dec 15 14:56:04 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

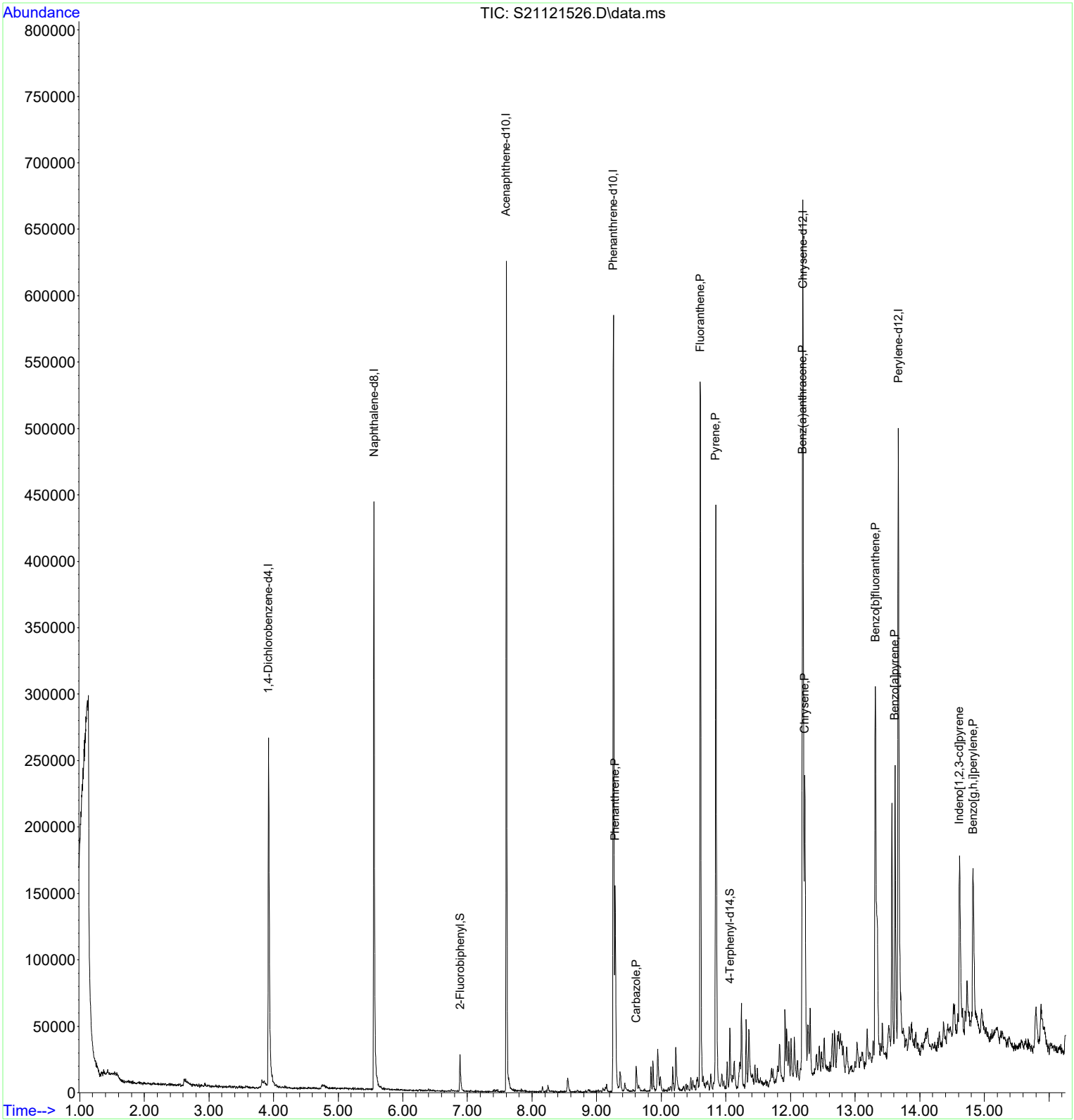
Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene	...	13.314	252	172235	26.77	ng		87
106) Benzo[k]fluoranthene	...	0.000	252	0	N.D.	d		
107) Benzo[a]pyrene	...	13.618	252	73137	13.22	ng		94
108) Dibenz(a,j)acridine	...	0.000	279	0	N.D.			
109) Indeno[1,2,3-cd]pyrene	...	14.614	276	55497	8.45	ng	#	90
110) Dibenz(a,h)anthracene	...	0.000	278	0	N.D.	d		
111) Benzo[g,h,i]perylene	...	14.827	276	62067	11.44	ng		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211215\
Data File : S21121526.D
Acq On : 15 Dec 2021 2:34 pm
Operator : YH
Sample : 2112G62-006E 10X
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 79 Sample Multiplier: 1

Quant Time: Dec 15 14:56:04 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211215\
Data File : S21121527.D
Acq On : 15 Dec 2021 3:27 pm
Operator : YH
Sample : 2112G62-006EMS 10X
Misc : MS 8270_TCL4.2_S
ALS Vial : 80 Sample Multiplier: 1

Quant Time: Dec 16 10:27:45 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	3.922	152	53753	40.00	ng		0.00
23) Naphthalene-d8	...	5.551	136	221776	40.00	ng		0.00
45) Acenaphthene-d10	...	7.603	164	121101	40.00	ng		0.00
73) Phenanthrene-d10	...	9.258	188	218817	40.00	ng		0.00
92) Chrysene-d12	...	12.193	240	175176	40.00	ng		0.00
104) Perylene-d12	...	13.669	264	174844	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.617	112	7792	4.22	ng		0.07
Spiked Amount 100.000	Range 21 - 119		Recovery =	4.22%#				
9) Phenol-d5	...	3.820	99	11266	4.99	ng		0.11
Spiked Amount 100.000	Range 10 - 121		Recovery =	4.99%#				
24) Nitrobenzene-d5	...	0.000	82	0	0.00	ng		
Spiked Amount 50.000	Range 34 - 114		Recovery =	0.00%#				
50) 2-Fluorobiphenyl	...	6.885	172	10047	2.52	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery =	5.04%#				
72) 2,4,6-Tribromophenol	...	0.000	330	0	0.00	ng		
Spiked Amount 100.000	Range 10 - 123		Recovery =	0.00%#				
94) 4-Terphenyl-d14	...	11.063	244	10765	2.41	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery =	4.82%#				
Target Compounds					Qvalue			
2) Pyridine	...	0.000	79	0	N.D.			
3) 2-Picoline	...	0.000	93	0	N.D.			
4) Methyl methanesulfonate	...	0.000	80	0	N.D.			
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.			
7) Benzaldehyde	...	0.000	105	0	N.D.			
8) Aniline	...	0.000	66	0	N.D.			
10) Phenol	...	0.000	94	0	N.D.			
11) Bis(2-chloroethyl)ether	...	3.655	93	5523	2.92	ng	#	22
12) 2-Chlorophenol	...	0.000	128	0	N.D.			
13) 1,3-Dichlorobenzene	...	3.851	146	10868	4.90	ng	#	71
14) 1,4-Dichlorobenzene	...	3.948	146	15162	6.80	ng		99
15) 1,2-Dichlorobenzene	...	4.152	146	10624	5.02	ng		93
16) Benzyl alcohol	...	0.000	108	0	N.D.	d		
17) Bis(2-chloroisopropyl)ether	...	4.359	45	11154	3.13	ng		82
18) 2-Methylphenol	...	4.530	107	4540	2.83	ng	#	46
19) 3,4-Methylphenol	...	4.771	107	11049	5.35	ng		80
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.			
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D.			
22) Hexachloroethane	...	0.000	117	0	N.D.			
25) Acetophenone	...	0.000	105	0	N.D.			
26) Nitrobenzene	...	0.000	123	0	N.D.			
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.			
28) Isophorone	...	0.000	82	0	N.D.			
29) 2-Nitrophenol	...	0.000	139	0	N.D.			
30) 2,4-Dimethylphenol	...	5.364	122	7103	3.90	ng	#	72
31) Bis(2-chloroethoxy)methane	...	5.361	93	10051	4.23	ng	#	49
32) 2,4-Dichlorophenol	...	5.773	162	5518	3.41	ng	#	25
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.			
34) Naphthalene	...	5.577	128	32943	5.32	ng	#	85
35) Benzoic acid	...	0.000	105	0	N.D.			
36) 2,6-Dichlorophenol	...	5.773	162	5518	3.50	ng	#	28
37) 4-Chloroaniline	...	0.000	127	0	N.D.	d		
38) Hexachlorobutadiene	...	5.756	225	6241	7.14	ng		97
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D.			
40) Caprolactam	...	0.000	113	0	N.D.			

Data Path : C:\MS-9\New\Raw Data\S211215\
Data File : S21121527.D
Acq On : 15 Dec 2021 3:27 pm
Operator : YH
Sample : 2112G62-006EMS 10X
Misc : MS 8270_TCL4.2_S
ALS Vial : 80 Sample Multiplier: 1

Quant Time: Dec 16 10:27:45 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.519	107	6564	3.87	ng	#	35
42) N-Nitrosodi-n-butylamine	0.000	84	0	N.D.			
43) 2-Methylnaphthalene	0.000	141	0	N.D.			
44) 1-Methylnaphthalene	0.000	141	0	N.D.			
46) 1,2,4,5-Tetrachlorobenzene	0.000	216	0	N.D.			
47) Hexachlorocyclopentadiene	0.000	237	0	N.D.			
48) 2,4,6-Trichlorophenol	0.000	196	0	N.D.			
49) 2,4,5-Trichlorophenol	0.000	196	0	N.D.			
51) Biphenyl	0.000	154	0	N.D.			
52) 2-Chloronaphthalene	0.000	162	0	N.D.			
53) 1-Chloronaphthalene	0.000	162	0	N.D.			
54) 2-Nitroaniline	0.000	65	0	N.D.			
55) 3-Nitroaniline	0.000	138	0	N.D.			
56) Pentachlorobenzene	0.000	250	0	N.D.			
57) 4-Nitroaniline	0.000	138	0	N.D.			
58) 2-Naphthylamine	0.000	143	0	N.D.			
59) 1-Naphthylamine	0.000	143	0	N.D.			
60) Dimethyl phthalate	7.391	163	18769	4.73	ng	#	76
61) Acenaphthylene	7.447	152	28192	4.86	ng	#	87
62) 2,6-Dinitrotoluene	0.000	165	0	N.D.			
63) Acenaphthene	7.637	154	29575	8.51	ng		99
64) 2,4-Dinitrophenol	0.000	184	0	N.D.			
65) Dibenzofuran	0.000	168	0	N.D.			
66) 4-Nitrophenol	0.000	109	0	N.D.			
67) 2,4-Dinitrotoluene	0.000	165	0	N.D.			
68) 2,3,4,6-Tetrachlorophenol	0.000	232	0	N.D.			
69) Diethyl phthalate	8.182	149	20590	5.06	ng	#	88
70) Fluorene	8.231	166	24247	5.74	ng	#	95
71) 4-Chlorophenyl phenyl ether	0.000	204	0	N.D.			
74) 4,6-Dinitro-2-methylphenol	0.000	198	0	N.D.			
75) Azobenzene	8.432	77	20299	4.62	ng	#	87
76) 1,2-Diphenylhydrazine	8.432	182	5425	5.18	ng	#	91
77) Diphenylamine	8.412	170	4959	6.50	ng		96
78) N-Nitrosodiphenylamine	8.412	168	23379	6.17	ng		97
79) 4-Bromophenyl phenyl ether	8.790	248	4627	4.24	ng		94
80) Phenacetin	8.869	108	6201	2.69	ng	#	64
81) Hexachlorobenzene	8.847	284	4857	4.69	ng	#	34
82) Atrazine	0.000	200	0	N.D.			
83) 4-Aminobiphenyl	0.000	169	0	N.D.			
84) Pentachlorophenol	0.000	266	0	N.D.			
85) Pentachloronitrobenzene	0.000	237	0	N.D.			
86) Pronamide	9.224	173	8174	4.91	ng	#	79
87) Phenanthrene	9.287	178	73043	11.31	ng		100
88) Anthracene	9.349	178	40765	6.27	ng		95
89) Carbazole	9.607	167	12860	2.35	ng	#	67
90) Di-n-butyl phthalate	9.999	149	34039	4.55	ng	#	79
91) Fluoranthene	10.603	202	237078	35.14	ng		98
93) Pyrene	10.842	202	209200	30.77	ng		96
95) Benzidine	0.000	184	0	N.D.			
96) p-Dimethylaminoazobenzene	0.000	225	0	N.D.			
97) Butyl benzyl phthalate	0.000	149	0	N.D.			
98) Benz(a)anthracene	12.184	228	104014	17.68	ng		93
99) 3,3'-Dichlorobenzidine	0.000	252	0	N.D.			
100) Chrysene	12.218	228	139870	24.07	ng		99
101) Bis(2-ethylhexyl)phthalate	12.301	149	22726	5.22	ng	#	94
102) Di-n-octyl phthalate	12.979	149	18447	2.44	ng	#	76
103) 3-Methylcholanthrene	0.000	268	0	N.D.	d		

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Data Path : C:\MS-9\New\Raw Data\S211215\
Data File : S21121527.D
Acq On : 15 Dec 2021 3:27 pm
Operator : YH
Sample : 2112G62-006EMS 10X
Misc : MS 8270_TCL4.2_S
ALS Vial : 80 Sample Multiplier: 1

Quant Time: Dec 16 10:27:45 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

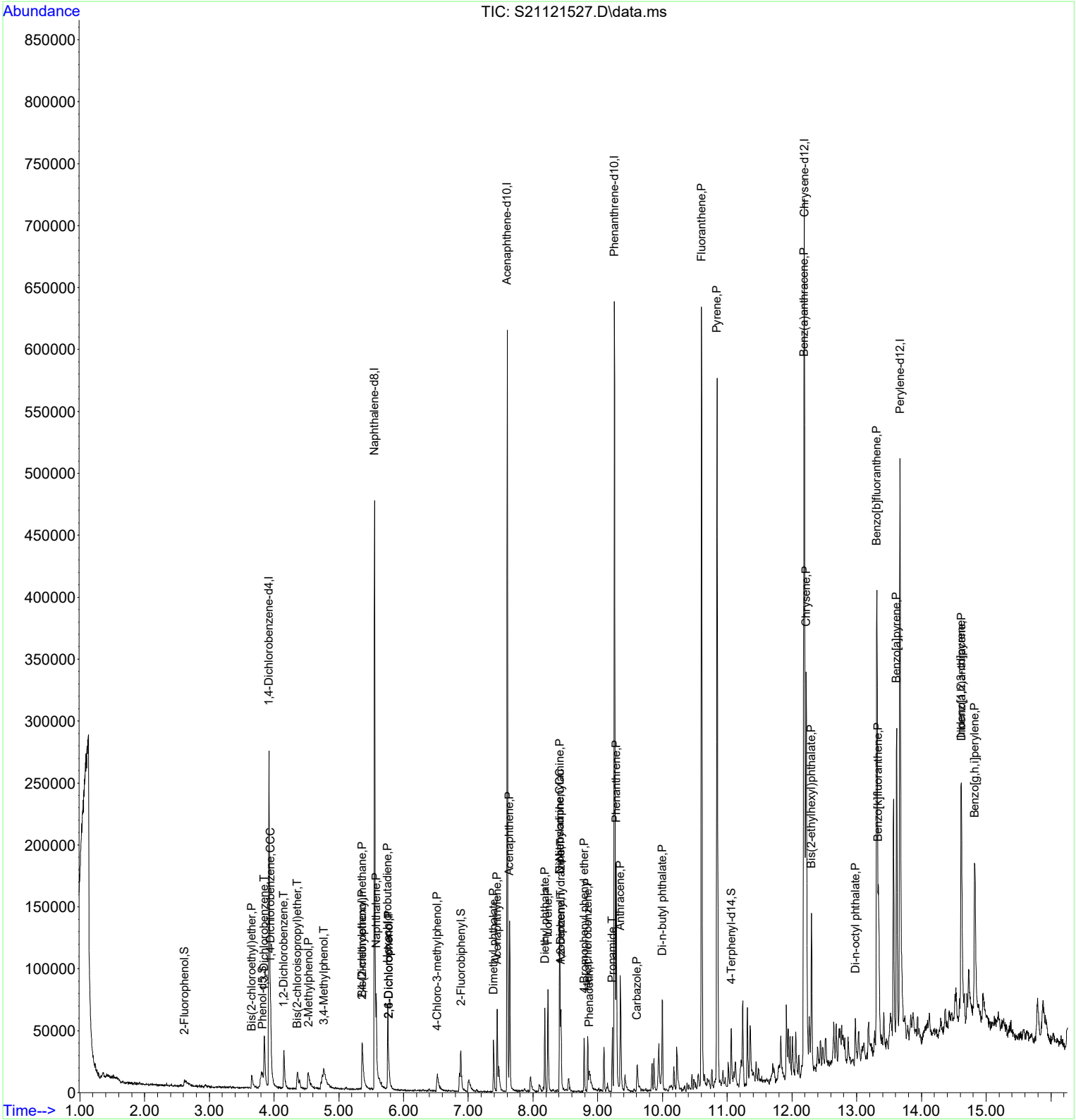
Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene	...	13.311	252	150639	23.74	ng		91
106) Benzo[k]fluoranthene	...	13.331	252	53008	9.35	ng		90
107) Benzo[a]pyrene	...	13.618	252	87071	15.95	ng		92
108) Dibenz(a,j)acridine	...	0.000	279	0	N.D.	d		
109) Indeno[1,2,3-cd]pyrene	...	14.614	276	65650	10.13	ng	#	85
110) Dibenz(a,h)anthracene	...	14.617	278	32160	6.07	ng		91
111) Benzo[g,h,i]perylene	...	14.821	276	62544	11.68	ng		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211215\
Data File : S21121527.D
Acq On : 15 Dec 2021 3:27 pm
Operator : YH
Sample : 2112G62-006EMS 10X
Misc : MS 8270_TCL4.2_S
ALS Vial : 80 Sample Multiplier: 1

Quant Time: Dec 16 10:27:45 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211215\
Data File : S21121528.D
Acq On : 15 Dec 2021 5:11 pm
Operator : YH
Sample : 2112G62-006EMSD 10X
Misc : MSD 8270_TCL4.2_S
ALS Vial : 81 Sample Multiplier: 1

Quant Time: Dec 16 10:30:05 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	3.922	152	56240	40.00	ng		0.00
23) Naphthalene-d8	...	5.551	136	230018	40.00	ng		0.00
45) Acenaphthene-d10	...	7.603	164	124506	40.00	ng		0.00
73) Phenanthrene-d10	...	9.258	188	221012	40.00	ng		0.00
92) Chrysene-d12	...	12.193	240	183590	40.00	ng		0.00
104) Perylene-d12	...	13.669	264	185636	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	0.000	112	0	0.00	ng		
Spiked Amount 100.000	Range 21 - 119		Recovery =	0.00%#				
9) Phenol-d5	...	0.000	99	0	0.00	ng		
Spiked Amount 100.000	Range 10 - 121		Recovery =	0.00%#				
24) Nitrobenzene-d5	...	4.725	82	4750	2.23	ng		0.03
Spiked Amount 50.000	Range 34 - 114		Recovery =	4.46%#				
50) 2-Fluorobiphenyl	...	6.880	172	12621	3.08	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery =	6.16%#				
72) 2,4,6-Tribromophenol	...	0.000	330	0	0.00	ng		
Spiked Amount 100.000	Range 10 - 123		Recovery =	0.00%#				
94) 4-Terphenyl-d14	...	11.060	244	13487	2.89	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery =	5.78%#				
Target Compounds					Qvalue			
2) Pyridine	...	0.000	79	0	N.D.			
3) 2-Picoline	...	0.000	93	0	N.D.			
4) Methyl methanesulfonate	...	0.000	80	0	N.D.			
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.			
7) Benzaldehyde	...	0.000	105	0	N.D.			
8) Aniline	...	0.000	66	0	N.D.			
10) Phenol	...	0.000	94	0	N.D.			
11) Bis(2-chloroethyl)ether	...	3.655	93	7943	4.02	ng	#	78
12) 2-Chlorophenol	...	3.789	128	11682	5.57	ng		85
13) 1,3-Dichlorobenzene	...	3.846	146	12556	5.41	ng		97
14) 1,4-Dichlorobenzene	...	3.948	146	19832	8.50	ng		94
15) 1,2-Dichlorobenzene	...	4.149	146	12930	5.84	ng		95
16) Benzyl alcohol	...	0.000	108	0	N.D.	d		
17) Bis(2-chloroisopropyl)ether	...	4.362	45	10895	2.92	ng	#	39
18) 2-Methylphenol	...	0.000	107	0	N.D.			
19) 3,4-Methylphenol	...	0.000	107	0	N.D.			
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.			
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D.			
22) Hexachloroethane	...	0.000	117	0	N.D.			
25) Acetophenone	...	0.000	105	0	N.D.			
26) Nitrobenzene	...	4.754	123	4283	4.03	ng	#	1
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.			
28) Isophorone	...	0.000	82	0	N.D.			
29) 2-Nitrophenol	...	0.000	139	0	N.D.			
30) 2,4-Dimethylphenol	...	5.358	122	8327	4.40	ng		94
31) Bis(2-chloroethoxy)methane	...	5.358	93	13171	5.34	ng	#	49
32) 2,4-Dichlorophenol	...	5.770	162	7840	4.67	ng	#	75
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.			
34) Naphthalene	...	5.577	128	39434	6.14	ng		98
35) Benzoic acid	...	0.000	105	0	N.D.			
36) 2,6-Dichlorophenol	...	5.770	162	7840	4.79	ng	#	80
37) 4-Chloroaniline	...	0.000	127	0	N.D.	d		
38) Hexachlorobutadiene	...	5.759	225	7986	8.81	ng		97
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D.			
40) Caprolactam	...	0.000	113	0	N.D.			

Data Path : C:\MS-9\New\Raw Data\S211215\
Data File : S21121528.D
Acq On : 15 Dec 2021 5:11 pm
Operator : YH
Sample : 2112G62-006EMSD 10X
Misc : MSD 8270_TCL4.2_S
ALS Vial : 81 Sample Multiplier: 1

Quant Time: Dec 16 10:30:05 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.516	107	6657	3.78	ng	#	35
42) N-Nitrosodi-n-butylamine	0.000	84	0	N.D.			
43) 2-Methylnaphthalene	0.000	141	0	N.D.			
44) 1-Methylnaphthalene	0.000	141	0	N.D.			
46) 1,2,4,5-Tetrachlorobenzene	0.000	216	0	N.D.			
47) Hexachlorocyclopentadiene	0.000	237	0	N.D.			
48) 2,4,6-Trichlorophenol	6.863	196	4420	3.82	ng	#	13
49) 2,4,5-Trichlorophenol	7.002	196	6136	5.01	ng		89
51) Biphenyl	0.000	154	0	N.D.			
52) 2-Chloronaphthalene	0.000	162	0	N.D.			
53) 1-Chloronaphthalene	0.000	162	0	N.D.			
54) 2-Nitroaniline	0.000	65	0	N.D.			
55) 3-Nitroaniline	0.000	138	0	N.D.			
56) Pentachlorobenzene	0.000	250	0	N.D.			
57) 4-Nitroaniline	0.000	138	0	N.D.			
58) 2-Naphthylamine	0.000	143	0	N.D.			
59) 1-Naphthylamine	0.000	143	0	N.D.			
60) Dimethyl phthalate	7.391	163	22460	5.51	ng	#	76
61) Acenaphthylene	7.445	152	34977	5.87	ng		99
62) 2,6-Dinitrotoluene	7.470	165	4284	4.61	ng	#	9
63) Acenaphthene	7.638	154	36250	10.14	ng		94
64) 2,4-Dinitrophenol	0.000	184	0	N.D.			
65) Dibenzofuran	0.000	168	0	N.D.			
66) 4-Nitrophenol	0.000	109	0	N.D.			
67) 2,4-Dinitrotoluene	7.953	165	4099	3.21	ng	#	15
68) 2,3,4,6-Tetrachlorophenol	0.000	232	0	N.D.			
69) Diethyl phthalate	8.180	149	25300	6.05	ng	#	88
70) Fluorene	8.228	166	27450	6.32	ng	#	92
71) 4-Chlorophenyl phenyl ether	0.000	204	0	N.D.			
74) 4,6-Dinitro-2-methylphenol	0.000	198	0	N.D.			
75) Azobenzene	8.429	77	23782	5.36	ng	#	83
76) 1,2-Diphenylhydrazine	8.429	182	6929	6.55	ng	#	78
77) Diphenylamine	8.410	170	6022	7.82	ng		95
78) N-Nitrosodiphenylamine	8.410	168	28407	7.42	ng		98
79) 4-Bromophenyl phenyl ether	8.787	248	5735	5.20	ng		99
80) Phenacetin	8.866	108	7625	3.28	ng	#	61
81) Hexachlorobenzene	8.844	284	6400	6.12	ng	#	34
82) Atrazine	0.000	200	0	N.D.			
83) 4-Aminobiphenyl	0.000	169	0	N.D.			
84) Pentachlorophenol	0.000	266	0	N.D.			
85) Pentachloronitrobenzene	0.000	237	0	N.D.			
86) Pronamide	9.221	173	9709	5.78	ng	#	77
87) Phenanthrene	9.287	178	66059	10.13	ng		98
88) Anthracene	9.349	178	45935	7.00	ng		97
89) Carbazole	9.607	167	12729	2.30	ng	#	67
90) Di-n-butyl phthalate	9.999	149	39861	5.27	ng	#	79
91) Fluoranthene	10.603	202	234026	34.34	ng		98
93) Pyrene	10.842	202	213587	29.97	ng		97
95) Benzidine	0.000	184	0	N.D.			
96) p-Dimethylaminoazobenzene	0.000	225	0	N.D.			
97) Butyl benzyl phthalate	0.000	149	0	N.D.			
98) Benz(a)anthracene	12.182	228	113624	18.43	ng		96
99) 3,3'-Dichlorobenzidine	0.000	252	0	N.D.			
100) Chrysene	12.218	228	146081	23.99	ng		99
101) Bis(2-ethylhexyl)phthalate	12.298	149	26752	5.87	ng	#	93
102) Di-n-octyl phthalate	12.979	149	21945	2.77	ng	#	76
103) 3-Methylcholanthrene	0.000	268	0	N.D.			

Data Path : C:\MS-9\New\Raw Data\S211215\
Data File : S21121528.D
Acq On : 15 Dec 2021 5:11 pm
Operator : YH
Sample : 2112G62-006EMSD 10X
Misc : MSD 8270_TCL4.2_S
ALS Vial : 81 Sample Multiplier: 1

Quant Time: Dec 16 10:30:05 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration

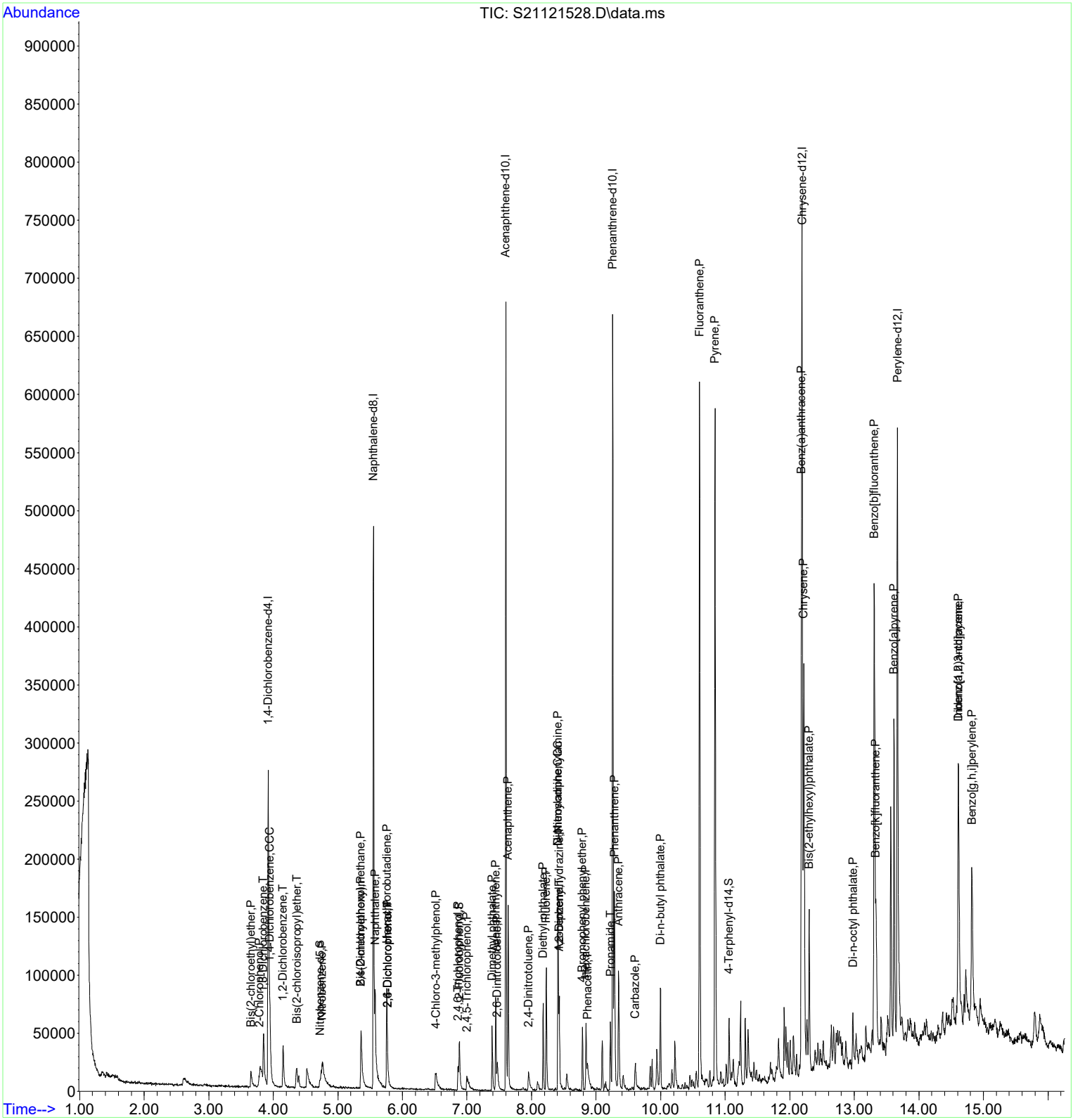
Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene	...	13.308	252	171515	25.46	ng		91
106) Benzo[k]fluoranthene	...	13.331	252	42167	7.01	ng		90
107) Benzo[a]pyrene	...	13.615	252	94232	16.26	ng		89
108) Dibenz(a,j)acridine	...	0.000	279	0	N.D.	d		
109) Indeno[1,2,3-cd]pyrene	...	14.611	276	71440	10.38	ng	#	82
110) Dibenz(a,h)anthracene	...	14.614	278	42258	7.51	ng		82
111) Benzo[g,h,i]perylene	...	14.821	276	64164	11.29	ng		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S211215\
Data File : S21121528.D
Acq On : 15 Dec 2021 5:11 pm
Operator : YH
Sample : 2112G62-006EMSD 10X
Misc : MSD 8270_TCL4.2_S
ALS Vial : 81 Sample Multiplier: 1

Quant Time: Dec 16 10:30:05 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Dec 14 13:59:44 2021
Response via : Initial Calibration



Injection Log

Directory: C:\msdchem\1\DATA\R211214

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	R1121401.D	1.	DFTPP	TUNE DFTPP_4	14 Dec 2021 09:27
2	3	R1121403.D	1.	EX60	CCV 625.1	14 Dec 2021 10:18
3	2	R1121404.D	1.	BNA60	CCV 8270_TCL4.2_S	14 Dec 2021 09:52
4	2	R1121409.D	1.	BNA60	CCV 8270C_S	14 Dec 2021 17:35
5	60	R1121411.D	1.	2112D98-001B	SAMP 8270_TCL4.2_W	14 Dec 2021 10:44
6	61	R1121412.D	1.	2112D98-002B	SAMP 8270_TCL4.2_W	14 Dec 2021 11:09
7	62	R1121413.D	1.	2112D98-003B	SAMP 8270_TCL4.2_W	14 Dec 2021 11:34
8	63	R1121414.D	1.	2112D98-004B	SAMP 8270_TCL4.2_W	14 Dec 2021 11:59
9		R1121416.D	1.			
10	64	R1121420.D	1.	LCS-327166	LCS 8270_TCL4.2_W	14 Dec 2021 12:48
11	65	R1121421.D	1.	2112C61-008DMSD	MSD 8270_TCL4.2_W	14 Dec 2021 19:17
12	66	R1121422.D	1.	2112G62-005D	SAMP 8270_TCL4.2_S	14 Dec 2021 13:13
13	67	R1121423.D	1.	2112G62-007C	SAMP 8270_TCL4.2_S	14 Dec 2021 13:38
14	68	R1121424.D	1.	2112G62-008D	SAMP 8270_TCL4.2_S	14 Dec 2021 14:05
15	69	R1121425.D	1.	2112G62-009B	SAMP 8270_TCL4.2_S	14 Dec 2021 14:30
16	70	R1121426.D	1.	2112G62-002C	SAMP 8270_TCL4.2_W	14 Dec 2021 14:57
17	71	R1121427.D	1.	2112G62-011C	SAMP 8270_TCL4.2_W	14 Dec 2021 15:23
18	72	R1121428.D	1.	2112G62-012C	SAMP 8270_TCL4.2_W	14 Dec 2021 15:49
19	73	R1121429.D	1.	2112C61-001B	SAMP 1311_B	14 Dec 2021 16:16
20	74	R1121430.D	1.	2112G62-0006EMS	MS 8270_TCL4.2_S	14 Dec 2021 18:27
21	75	R1121431.D	1.	2112G62-0006EMSD	MSD 8270_TCL4.2_S	14 Dec 2021 18:52
22	76	R1121432.D	1.	2112G15-001B	SAMP 8270_TCL4.2_S	14 Dec 2021 19:42
23	77	R1121433.D	1.	2112G15-002B	SAMP 8270_TCL4.2_S	14 Dec 2021 20:06
24	78	R1121434.D	1.	2112G15-003B	SAMP 8270_TCL4.2_S	14 Dec 2021 20:32
25	79	R1121435.D	1.	2112G15-004B	SAMP 8270_TCL4.2_S	14 Dec 2021 20:58
26	80	R1121436.D	1.	2112C61-002B	SAMP 1311_B	14 Dec 2021 16:43
27	81	R1121437.D	1.	2112C61-003B	SAMP 1311_B	14 Dec 2021 17:09
28	82	R1121438.D	1.	2112G62-006E	SAMP 8270_TCL4.2_S	14 Dec 2021 18:01
29	83	R1121440.D	1.	MB-327066	MBLK 8270_TCL4.2_S	14 Dec 2021 21:23
30	84	R1121441.D	1.	LCS-327066	LCS 8270_TCL4.2_S	14 Dec 2021 21:49
31	85	R1121442.D	1.	2112822-007B	SAMP 8270_TCL4.2_S	14 Dec 2021 22:15

Injection Log

Directory: C:\msdchem\1\DATA\R211214

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
32	86	R1121443.D	1.	2112822-007BMS	SAMP 8270_TCL4.2_S	14 Dec 2021 22:41
33	87	R1121444.D	1.	2112822-007BMSD	MS 8270_TCL4.2_S	14 Dec 2021 23:07
34	88	R1121445.D	1.	2112822-005B	MSD 8270_TCL4.2_S	14 Dec 2021 23:33
35	89	R1121446.D	1.	2112822-006B	SAMP 8270_TCL4.2_S	14 Dec 2021 23:59
36	90	R1121447.D	1.	2112822-008B	SAMP 8270_TCL4.2_S	15 Dec 2021 00:25
37	91	R1121448.D	1.	2112822-009B	SAMP 8270_TCL4.2_S	15 Dec 2021 00:51
38	92	R1121449.D	1.	2112822-010B	SAMP 8270_TCL4.2_S	15 Dec 2021 01:17
39	93	R1121450.D	1.	2112822-011B	SAMP 8270_TCL4.2_S	15 Dec 2021 01:42

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121404.D
Acq On : 14 Dec 2021 9:52 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_S
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:12 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	93	-0.01
2		Pyridine	60.000	61.525	-2.5	96	0.00
3	T	2-Picoline	60.000	63.709	-6.2	101	-0.01
4	T	Methyl methanesulfonate	60.000	66.278	-10.5	102	-0.02
5	S	2-Fluorophenol	60.000	67.178	-12.0	103	-0.02
6	T	Ethyl methanesulfonate	60.000	64.147	-6.9	99	-0.02
7	C	Benzaldehyde	60.000	64.741	-7.9#	109	-0.02
8	T	Aniline	60.000	61.443	-2.4	92	-0.02
9	S	Phenol-d5	60.000	70.978	-18.3	110	-0.02
10	C	Phenol	60.000	61.489	-2.5#	95	-0.01
11	T	Bis(2-chloroethyl)ether	60.000	63.850	-6.4	98	-0.01
12	T	2-Chlorophenol	60.000	66.647	-11.1	103	-0.02
13	T	1,3-Dichlorobenzene	60.000	63.954	-6.6	98	-0.01
14	CCC	1,4-Dichlorobenzene	60.000	63.144	-5.2	97	-0.01
15	T	1,2-Dichlorobenzene	60.000	64.057	-6.8	98	-0.01
16	T	Benzyl alcohol	60.000	66.267	-10.4	101	-0.01
17	T	Bis(2-chloroisopropyl)ether	60.000	73.178	-22.0#	111	-0.01
18	T	2-Methylphenol	60.000	69.511	-15.9	106	-0.01
19	T	3,4-Methylphenol	120.000	137.156	-14.3	105	0.00
20	PC	N-Nitrosodi-n-propylamine	60.000	72.155	-20.3	109	-0.01
21	T	N-Nitrosodimethylamine	60.000	71.911	-19.9	110	-0.01
22	T	Hexachloroethane	60.000	69.029	-15.0	106	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	98	-0.01
24	S	Nitrobenzene-d5	60.000	69.388	-15.6	112	-0.01
25	T	Acetophenone	120.000	131.843	-9.9	106	0.00
26	M	Nitrobenzene	60.000	66.201	-10.3	107	-0.01
27	T	N-Nitrosopiperidine	60.000	66.226	-10.4	106	-0.01
28	T	Isophorone	60.000	64.860	-8.1	104	-0.01
29	CCC	2-Nitrophenol	60.000	76.788	-28.0#	123	-0.01
30	T	2,4-Dimethylphenol	60.000	65.845	-9.7	104	-0.01
31	T	Bis(2-chloroethoxy)methane	60.000	65.572	-9.3	105	-0.01
32	CCC	2,4-Dichlorophenol	60.000	64.773	-8.0	103	-0.01
33	T	1,2,4-Trichlorobenzene	60.000	61.986	-3.3	99	-0.01
34	T	Naphthalene	60.000	62.936	-4.9	101	-0.01
35	T	Benzoic acid	60.000	36.239	39.6#	0	-5.77#
36	T	2,6-Dichlorophenol	60.000	67.117	-11.9	107	-0.01
37	T	4-Chloroaniline	60.000	64.606	-7.7	102	-0.01
38	CCC	Hexachlorobutadiene	60.000	64.751	-7.9	104	0.00
39	T	a,a-Dimethylphenethylamine	60.000	64.640	-7.7	102	-0.03
40		Caprolactam	60.000	66.696	-11.2	106	-0.02
41	CCC	4-Chloro-3-methylphenol	60.000	66.918	-11.5	106	-0.01
42	T	N-Nitroso-di-n-butylamine	60.000	58.246	2.9	82	0.00
43	T	2-Methylnaphthalene	60.000	66.141	-10.2	105	0.00
44	T	1-Methylnaphthalene	60.000	63.191	-5.3	101	-0.01
45	I	Acenaphthene-d10	40.000	40.000	0.0	100	-0.01
46	T	1,2,4,5-Tetrachlorobenzene	60.000	63.206	-5.3	104	0.00
47	PC	Hexachlorocyclopentadiene	60.000	44.466	25.9#	71	0.00
48	CCC	2,4,6-Trichlorophenol	60.000	59.555	0.7	96	-0.01
49	T	2,4,5-Trichlorophenol	60.000	60.312	-0.5	97	-0.02
50	S	2-Fluorobiphenyl	60.000	62.881	-4.8	103	0.00
51		Biphenyl	60.000	64.945	-8.2	106	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121404.D
Acq On : 14 Dec 2021 9:52 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_S
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:12 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	2-Chloronaphthalene	60.000	63.292	-5.5	103	-0.01
53	T	1-Chloronaphthalene	60.000	62.524	-4.2	103	0.00
54	T	2-Nitroaniline	60.000	77.361	-28.9#	125	-0.01
55	T	3-Nitroaniline	60.000	69.743	-16.2	113	-0.01
56	T	Pentachlorobenzene	60.000	63.647	-6.1	105	0.00
57	T	4-Nitroaniline	60.000	68.401	-14.0	110	-0.01
58	T	2-Naphthylamine	60.000	62.602	-4.3	102	-0.01
59	T	1-Naphthylamine	60.000	56.553	5.7	93	-0.01
60	T	Dimethyl phthalate	60.000	63.641	-6.1	105	-0.01
61	T	Acenaphthylene	60.000	62.614	-4.4	102	0.00
62	T	2,6-Dinitrotoluene	60.000	72.501	-20.8#	117	-0.01
63	CCC	Acenaphthene	60.000	63.369	-5.6	104	-0.01
64	PC	2,4-Dinitrophenol	60.000	33.505	44.2#	39	0.01
65	T	Dibenzofuran	60.000	63.171	-5.3	102	0.00
66	PC	4-Nitrophenol	60.000	53.919	10.1	87	-0.03
67	M	2,4-Dinitrotoluene	60.000	71.844	-19.7	115	0.00
68	T	2,3,4,6-Tetrachlorophenol	60.000	56.659	5.6	92	0.00
69	T	Diethyl phthalate	60.000	65.374	-9.0	107	0.00
70	T	Fluorene	60.000	63.749	-6.2	103	0.00
71	T	4-Chlorophenyl phenyl ether	60.000	64.500	-7.5	106	0.00
72	S	2,4,6-Tribromophenol	60.000	74.690	-24.5#	122	0.00
73	I	Phenanthrene-d10	40.000	40.000	0.0	102	-0.01
74	T	4,6-Dinitro-2-methylphenol	60.000	62.875	-4.8	123	0.00
75	T	Azobenzene	60.000	74.015	-23.4#	126	-0.01
76	T	1,2-Diphenylhydrazine	60.000	58.581	2.4	98	-0.01
77	CCC	Diphenylamine	60.000	57.377	4.4	95	-0.01
78	T	N-Nitrosodiphenylamine	60.000	61.112	-1.9	102	-0.01
79	T	4-Bromophenyl phenyl ether	60.000	63.795	-6.3	108	0.00
80	T	Phenacetin	60.000	73.757	-22.9#	120	-0.01
81	T	Hexachlorobenzene	60.000	64.884	-8.1	110	0.00
82		Atrazine	60.000	67.325	-12.2	112	0.00
83	T	4-Aminobiphenyl	60.000	52.573	12.4	85	0.00
84	CCC	Pentachlorophenol	60.000	53.522	10.8	87	-0.01
85	T	Pentachloronitrobenzene	60.000	69.547	-15.9	114	0.00
86	T	Pronamide	60.000	57.049	4.9	94	-0.01
87	T	Phenanthrene	60.000	63.480	-5.8	106	-0.01
88	T	Anthracene	60.000	64.848	-8.1	108	-0.01
89	T	Carbazole	60.000	69.195	-15.3	115	-0.01
90	T	Di-n-butyl phthalate	60.000	68.589	-14.3	112	-0.01
91	CCC	Fluoranthene	60.000	65.449	-9.1	108	-0.01
92	I	Chrysene-d12	40.000	40.000	0.0	107	0.00
93	T	Pyrene	60.000	58.802	2.0	104	0.00
94	S	4-Terphenyl-d14	60.000	62.414	-4.0	110	-0.01
95	T	Benzidine	60.000	57.703	3.8	98	-0.02
96	T	p-Dimethylaminoazobenzene	60.000	59.619	0.6	104	-0.01
97	T	Butyl benzyl phthalate	60.000	65.989	-10.0	114	-0.01
98	T	Benz(a)anthracene	60.000	60.802	-1.3	106	0.00
99	T	3,3'-Dichlorobenzidine	60.000	64.807	-8.0	109	-0.01
100	T	Chrysene	60.000	58.346	2.8	103	0.00
101	T	Bis(2-ethylhexyl)phthalate	60.000	71.540	-19.2	119	-0.01
102	CCC	Di-n-octyl phthalate	60.000	75.347	-25.6#	129	0.00

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Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121404.D
Acq On : 14 Dec 2021 9:52 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_S
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:12 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	60.000	66.145	-10.2	115	-0.01
104	T	Indeno[1,2,3-cd]pyrene	60.000	62.337	-3.9	109	0.00
105	I	Perylene-d12	40.000	40.000	0.0	120	-0.01
106	T	Benzo[b]fluoranthene	60.000	53.484	10.9	104	0.00
107	T	Benzo[k]fluoranthene	60.000	56.858	5.2	107	0.00
108	CCC	Benzo[a]pyrene	60.000	57.276	4.5	106	-0.01
109	T	Dibenz(a,j)acridine	60.000	60.877	-1.5	116	0.00
110	T	Dibenz(a,h)anthracene	60.000	58.319	2.8	110	0.00
111	T	Benzo[g,h,i]perylene	60.000	57.187	4.7	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121404.D
Acq On : 14 Dec 2021 9:52 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_S
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:12 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	-0.01
2		Pyridine	1.534	1.573	-2.5	96	0.00
3	T	2-Picoline	1.557	1.654	-6.2	101	-0.01
4	T	Methyl methanesulfonate	0.651	0.719	-10.4	102	-0.02
5	S	2-Fluorophenol	1.248	1.397	-11.9	103	-0.02
6	T	Ethyl methanesulfonate	1.016	1.086	-6.9	99	-0.02
7	C	Benzaldehyde	0.809	0.873	-7.9#	109	-0.02
8	T	Aniline	0.769	0.787	-2.3	92	-0.02
9	S	Phenol-d5	1.515	1.792	-18.3	110	-0.02
10	C	Phenol	1.838	1.884	-2.5#	95	-0.01
11	T	Bis(2-chloroethyl)ether	1.304	1.387	-6.4	98	-0.01
12	T	2-Chlorophenol	1.407	1.563	-11.1	103	-0.02
13	T	1,3-Dichlorobenzene	1.605	1.711	-6.6	98	-0.01
14	CCC	1,4-Dichlorobenzene	1.623	1.708	-5.2	97	-0.01
15	T	1,2-Dichlorobenzene	1.512	1.614	-6.7	98	-0.01
16	T	Benzyl alcohol	0.904	0.998	-10.4	101	-0.01
17	T	Bis(2-chloroisopropyl)ether	1.364	1.663	-21.9#	111	-0.01
18	T	2-Methylphenol	1.058	1.226	-15.9	106	-0.01
19	T	3,4-Methylphenol	1.376	1.572	-14.2	105	0.00
20	PC	N-Nitrosodi-n-propylamine	0.868	1.044	-20.3	109	-0.01
21	T	N-Nitrosodimethylamine	0.471	0.564	-19.7	110	-0.01
22	T	Hexachloroethane	0.572	0.658	-15.0	106	0.00
23	I	Naphthalene-d8	1.000	1.000	0.0	98	-0.01
24	S	Nitrobenzene-d5	0.310	0.358	-15.5	112	-0.01
25	T	Acetophenone	0.454	0.498	-9.7	106	0.00
26	M	Nitrobenzene	0.175	0.193	-10.3	107	-0.01
27	T	N-Nitrosopiperidine	0.173	0.191	-10.4	106	-0.01
28	T	Isophorone	0.639	0.691	-8.1	104	-0.01
29	CCC	2-Nitrophenol	0.168	0.215	-28.0#	123	-0.01
30	T	2,4-Dimethylphenol	0.310	0.340	-9.7	104	-0.01
31	T	Bis(2-chloroethoxy)methane	0.402	0.440	-9.5	105	-0.01
32	CCC	2,4-Dichlorophenol	0.297	0.320	-7.7	103	-0.01
33	T	1,2,4-Trichlorobenzene	0.335	0.346	-3.3	99	-0.01
34	T	Naphthalene	1.048	1.099	-4.9	101	-0.01
35	T	Benzoic acid	0.060	0.000	100.0#	0#	-5.77#
36	T	2,6-Dichlorophenol	0.289	0.323	-11.8	107	-0.01
37	T	4-Chloroaniline	0.440	0.474	-7.7	102	-0.01
38	CCC	Hexachlorobutadiene	0.191	0.206	-7.9	104	0.00
39	T	a,a-Dimethylphenethylamine	0.802	0.863	-7.6	102	-0.03
40		Caprolactam	0.113	0.125	-10.6	106	-0.02
41	CCC	4-Chloro-3-methylphenol	0.283	0.316	-11.7	106	-0.01
42	T	N-Nitroso-di-n-butylamine	0.250	0.243	2.8	82	0.00
43	T	2-Methylnaphthalene	0.607	0.670	-10.4	105	0.00
44	T	1-Methylnaphthalene	0.597	0.628	-5.2	101	-0.01
45	I	Acenaphthene-d10	1.000	1.000	0.0	100	-0.01
46	T	1,2,4,5-Tetrachlorobenzene	0.553	0.583	-5.4	104	0.00
47	PC	Hexachlorocyclopentadiene	0.305	0.226	25.9#	71	0.00
48	CCC	2,4,6-Trichlorophenol	0.356	0.354	0.6	96	-0.01
49	T	2,4,5-Trichlorophenol	0.399	0.401	-0.5	97	-0.02
50	S	2-Fluorobiphenyl	1.292	1.354	-4.8	103	0.00
51		Biphenyl	1.390	1.504	-8.2	106	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121404.D
Acq On : 14 Dec 2021 9:52 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_S
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:12 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	T	2-Chloronaphthalene	1.166	1.230	-5.5	103	-0.01
53	T	1-Chloronaphthalene	1.054	1.098	-4.2	103	0.00
54	T	2-Nitroaniline	0.274	0.353	-28.8#	125	-0.01
55	T	3-Nitroaniline	0.324	0.376	-16.0	113	-0.01
56	T	Pentachlorobenzene	0.488	0.518	-6.1	105	0.00
57	T	4-Nitroaniline	0.336	0.383	-14.0	110	-0.01
58	T	2-Naphthylamine	1.172	1.223	-4.4	102	-0.01
59	T	1-Naphthylamine	1.253	1.181	5.7	93	-0.01
60	T	Dimethyl phthalate	1.263	1.340	-6.1	105	-0.01
61	T	Acenaphthylene	1.746	1.822	-4.4	102	0.00
62	T	2,6-Dinitrotoluene	0.264	0.319	-20.8#	117	-0.01
63	CCC	Acenaphthene	1.058	1.117	-5.6	104	-0.01
64	PC	2,4-Dinitrophenol	0.100	0.036	64.0#	39#	0.01
65	T	Dibenzofuran	1.626	1.711	-5.2	102	0.00
66	PC	4-Nitrophenol	0.158	0.142	10.1	87	-0.03
67	M	2,4-Dinitrotoluene	0.367	0.440	-19.9	115	0.00
68	T	2,3,4,6-Tetrachlorophenol	0.281	0.265	5.7	92	0.00
69	T	Diethyl phthalate	1.224	1.333	-8.9	107	0.00
70	T	Fluorene	1.353	1.437	-6.2	103	0.00
71	T	4-Chlorophenyl phenyl ether	0.650	0.699	-7.5	106	0.00
72	S	2,4,6-Tribromophenol	0.155	0.193	-24.5#	122	0.00
73	I	Phenanthrene-d10	1.000	1.000	0.0	102	-0.01
74	T	4,6-Dinitro-2-methylphenol	0.091	0.113	-24.2#	123	0.00
75	T	Azobenzene	0.636	0.784	-23.3#	126	-0.01
76	T	1,2-Diphenylhydrazine	0.194	0.190	2.1	98	-0.01
77	CCC	Diphenylamine	0.135	0.130	3.7	95	-0.01
78	T	N-Nitrosodiphenylamine	0.639	0.651	-1.9	102	-0.01
79	T	4-Bromophenyl phenyl ether	0.215	0.228	-6.0	108	0.00
80	T	Phenacetin	0.327	0.402	-22.9#	120	-0.01
81	T	Hexachlorobenzene	0.230	0.249	-8.3	110	0.00
82		Atrazine	0.200	0.224	-12.0	112	0.00
83	T	4-Aminobiphenyl	0.809	0.709	12.4	85	0.00
84	CCC	Pentachlorophenol	0.127	0.114	10.2	87	-0.01
85	T	Pentachloronitrobenzene	0.084	0.097	-15.5	114	0.00
86	T	Pronamide	0.291	0.277	4.8	94	-0.01
87	T	Phenanthrene	1.090	1.153	-5.8	106	-0.01
88	T	Anthracene	1.096	1.185	-8.1	108	-0.01
89	T	Carbazole	0.983	1.134	-15.4	115	-0.01
90	T	Di-n-butyl phthalate	1.167	1.334	-14.3	112	-0.01
91	CCC	Fluoranthene	1.213	1.323	-9.1	108	-0.01
92	I	Chrysene-d12	1.000	1.000	0.0	107	0.00
93	T	Pyrene	1.391	1.363	2.0	104	0.00
94	S	4-Terphenyl-d14	0.989	1.028	-3.9	110	-0.01
95	T	Benzidine	0.520	0.500	3.8	98	-0.02
96	T	p-Dimethylaminoazobenzene	0.276	0.274	0.7	104	-0.01
97	T	Butyl benzyl phthalate	0.571	0.628	-10.0	114	-0.01
98	T	Benz(a)anthracene	1.304	1.321	-1.3	106	0.00
99	T	3,3'-Dichlorobenzidine	0.475	0.513	-8.0	109	-0.01
100	T	Chrysene	1.353	1.316	2.7	103	0.00
101	T	Bis(2-ethylhexyl)phthalate	0.756	0.902	-19.3	119	-0.01
102	CCC	Di-n-octyl phthalate	1.264	1.587	-25.6#	129	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121404.D
Acq On : 14 Dec 2021 9:52 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_S
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:12 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	0.443	0.488	-10.2	115	-0.01
104	T	Indeno[1,2,3-cd]pyrene	1.518	1.577	-3.9	109	0.00
105	I	Perylene-d12	1.000	1.000	0.0	120	-0.01
106	T	Benzo[b]fluoranthene	1.344	1.198	10.9	104	0.00
107	T	Benzo[k]fluoranthene	1.339	1.269	5.2	107	0.00
108	CCC	Benzo[a]pyrene	1.179	1.126	4.5	106	-0.01
109	T	Dibenz(a,j)acridine	1.009	1.024	-1.5	116	0.00
110	T	Dibenz(a,h)anthracene	1.240	1.205	2.8	110	0.00
111	T	Benzo[g,h,i]perylene	1.264	1.205	4.7	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\DATA\R211214\R1121404.D
Tune Time : 14 Dec 2021 9:52 am

Daily Calibration File : C:\msdchem\1\DATA\R211214\R1121404.D

(2FP)	(PHL)	(NBZ)	(FBP)	(DCB)	(NPT)	(ANT)
				103319	420346	251465

(TPH)	(PHN)	(CRY)	(PRY)
	454973	441714	485168

File	Sample	Surrogate Recovery %				Internal Standard Responses		
R1121411.D								
	2112D98-00	33	19	92	87	91850	372858	219756
		89	89			398278	378048	415134
R1121412.D								
	2112D98-00	27	16	91	88	91714	383381	222103
		77	86			402754	380258	404347
R1121413.D								
	2112D98-00	36	20	90	82	91689	375346	223620
		93	89			396339	368536	420607
R1121414.D								
	2112D98-00	31	18	84	79	97313	395650	233211
		89	74			406720	397530	437066
R1121420.D								
	LCS-327166	64	47	103	91	89705	352094	212578
		108	98			389778	362698	404885
No Quant Results for C:\msdchem\1\DATA\R211214\R1121421.D								
R1121422.D								
	2112G62-00	62	62	71	64	87978	357129	215736
		104	68			395953	375755	423511
R1121423.D								
	2112G62-00	42	43	48	47	106195	438283	257587
		61	46			478141	470442	541702
R1121424.D								
	2112G62-00	63	67	76	73	89508	369411	218337
		95	79			402094	397984	400454
R1121425.D								
	2112G62-00	64	66	73	72	92450	376831	225645
		90	71			410409	402868	422464
R1121426.D								
	2112G62-00	32	18	62	53	97495	402025	242585
		66	53			440259	430439	485177
R1121427.D								
	2112G62-01	35	20	82	78	96779	406750	240337
		99	84			442202	426741	466191
R1121428.D								
	2112G62-01	36	21	84	78	95366	397406	235344
		93	81			433546	426757	458464
R1121429.D								
	2112C61-00	94	85	109	102	81166	329578	198622
		124*	108			359828	350565	383407
R1121430.D								

	2112G62-00	55	58	60	58	101769	426693	247490
		71	59			459382	445545	412234
R1121431.D								
	2112G62-00	54	58	62	57	89770	369063	219833
		69	61			402805	388473	313886
R1121432.D								
	2112G15-00	54	60	69	63	97062	406706	244909
		71	62			446453	445097	381999
R1121433.D								
	2112G15-00	69	72	76	71	93598	380390	231296
		83	74			422243	419621	353667
R1121434.D								
	2112G15-00	69	71	73	72	94058	388734	231944
		84	74			425505	423884	345190
R1121435.D								
	2112G15-00	60	63	64	65	96793	403227	241359
		76	72			438976	427271	365174
R1121436.D								
	2112C61-00	69	61	83	78	97364	394946	235257
		97	84			424490	415489	442162
R1121437.D								
	2112C61-00	84	76	99	94	88372	368458	214332
		106	96			390754	379927	416539
R1121438.D								
	2112G62-00	47	48	54	52	99937	410598	245884
		62	53			454186	435336	423626
R1121440.D								
	MB-327066	84	84	85	88	73738	307914	180146
		109	95			326998	330395	297951
R1121441.D								
	LCS-327066	82	89	93	88	76316	314944	186607
		113	93			336582	343197	307271
R1121442.D								
(fails)	2112822-00	61	62	65	68	82687	340524	201252
		84	71			368907	369960	329068
R1121443.D								
(fails)	2112822-00	70	75	80	80	77840	318229	186573
		101	84			333360	346330	315533
R1121444.D								
(fails)	2112822-00	67	75	79	83	75392	304906	178897
		103	90			318959	338763	296294
R1121445.D								
(fails)	2112822-00	65	65	79	85	73857	304724	178600
		92	85			308509	316374	289310
R1121446.D								
(fails)	2112822-00	58	60	63	65	74282	308628	183807
		80	70			337295	344230	300538
R1121447.D								
(fails)	2112822-00	71	71	76	76	79803	328347	196747
		91	81			352365	353972	315984
R1121448.D								
(fails)	2112822-00	59	59	60	64	82352	340069	198660
		82	77			359924	356937	310441

R1121449.D								
(fails)	2112822-01	74	76	76	81	73119	311515	179488
		100	96			333828	310305	277321
R1121450.D								
(fails)	2112822-01	69	71	75	76	71207	296184	175320
		88	86			312366	307498	291287

(fails) - fails 12hr time check * - fails criteria

Created: Wed Dec 15 09:32:43 2021 Instrument #10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121404.D
Acq On : 14 Dec 2021 9:52 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_S
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:12 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.091	152	103319	40.00	ng		-0.01
23) Naphthalene-d8	...	5.709	136	420346	40.00	ng		-0.01
45) Acenaphthene-d10	...	7.766	164	251465	40.00	ng		-0.01
73) Phenanthrene-d10	...	9.433	188	454973	40.00	ng		-0.01
92) Chrysene-d12	...	12.387	240	441714	40.00	ng		0.00
105) Perylene-d12	...	13.861	264	485168	40.00	ng		-0.01
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.664	112	216531	67.18	ng		-0.02
Spiked Amount 100.000	Range 21 - 110			Recovery = 67.18%				
9) Phenol-d5	...	3.840	99	277787	70.98	ng		-0.02
Spiked Amount 100.000	Range 10 - 110			Recovery = 70.98%				
24) Nitrobenzene-d5	...	4.849	82	225903	69.39	ng		-0.01
Spiked Amount 50.000	Range 34 - 114			Recovery = 138.78%#				
50) 2-Fluorobiphenyl	...	7.034	172	510626	62.88	ng		0.00
Spiked Amount 50.000	Range 43 - 116			Recovery = 125.76%#				
72) 2,4,6-Tribromophenol	...	8.690	330	72636	74.69	ng		0.00
Spiked Amount 100.000	Range 10 - 123			Recovery = 74.69%				
94) 4-Terphenyl-d14	...	11.238	244	681454	62.41	ng		-0.01
Spiked Amount 50.000	Range 33 - 141			Recovery = 124.82%				
Target Compounds					Qvalue			
2) Pyridine	...	1.339	79	243848	61.53	ng		97
3) 2-Picoline	...	1.964	93	256293	63.71	ng		99
4) Methyl methanesulfonate	...	2.424	80	111472	66.28	ng		94
6) Ethyl methanesulfonate	...	3.198	79	168308	64.15	ng		98
7) Benzaldehyde	...	3.546	105	135331	64.74	ng		99
8) Aniline	...	3.706	66	121977	61.44	ng	#	89
10) Phenol	...	3.861	94	291987	61.49	ng	#	65
11) Bis(2-chloroethyl)ether	...	3.797	93	215029	63.85	ng		93
12) 2-Chlorophenol	...	3.882	128	242268	66.65	ng		94
13) 1,3-Dichlorobenzene	...	4.010	146	265173	63.95	ng		100
14) 1,4-Dichlorobenzene	...	4.112	146	264644	63.14	ng		99
15) 1,2-Dichlorobenzene	...	4.310	146	250170	64.06	ng		99
16) Benzyl alcohol	...	4.379	108	154721	66.27	ng		94
17) Bis(2-chloroisopropyl)ether	...	4.518	45	257738	73.18	ng	#	68
18) 2-Methylphenol	...	4.614	107	189933	69.51	ng	#	83
19) 3,4-Methylphenol	...	4.839	107	487381	137.16	ng	#	95
20) N-Nitrosodi-n-propylamine	...	4.694	70	161752	72.16	ng		97
21) N-Nitrosodimethylamine	...	1.334	42	87399	71.91	ng		95
22) Hexachloroethane	...	4.726	117	102044	69.03	ng		94
25) Acetophenone	...	4.668	105	628474	131.84	ng		99
26) Nitrobenzene	...	4.871	123	121925	66.20	ng	#	82
27) N-Nitrosopiperidine	...	5.063	114	120261	66.23	ng		97
28) Isophorone	...	5.196	82	435587	64.86	ng		99
29) 2-Nitrophenol	...	5.277	139	135357	76.79	ng		96
30) 2,4-Dimethylphenol	...	5.458	122	214554	65.85	ng		98
31) Bis(2-chloroethoxy)methane	...	5.501	93	277165	65.57	ng		99
32) 2,4-Dichlorophenol	...	5.656	162	202024	64.77	ng		99
33) 1,2,4-Trichlorobenzene	...	5.661	180	218114	61.99	ng		100
34) Naphthalene	...	5.736	128	692826	62.94	ng		100
35) Benzoic acid	...	0.000	122	0	N.D.	d		
36) 2,6-Dichlorophenol	...	5.886	162	203920	67.12	ng		99
37) 4-Chloroaniline	...	5.886	127	298692	64.61	ng		97
38) Hexachlorobutadiene	...	5.918	225	129783	64.75	ng		100
39) a,a-Dimethylphenethylamine	...	5.747	58	544451	64.64	ng		76
40) Caprolactam	...	6.334	113	78894	66.70	ng	#	77

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121404.D
Acq On : 14 Dec 2021 9:52 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_S
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:12 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.596	107	199229	66.92	ng	#	1
42) N-Nitroso-di-n-butylamine	6.297	84	153024	58.25	ng		83
43) 2-Methylnaphthalene	6.580	141	422159	66.14	ng	#	70
44) 1-Methylnaphthalene	6.687	141	396221	63.19	ng		99
46) 1,2,4,5-Tetrachlorobenzene	6.788	216	219814	63.21	ng		99
47) Hexachlorocyclopentadiene	6.772	237	85222	44.47	ng		98
48) 2,4,6-Trichlorophenol	6.986	196	133411	59.56	ng		98
49) 2,4,5-Trichlorophenol	7.077	196	151368	60.31	ng		97
51) Biphenyl	7.141	154	567433	64.94	ng	#	96
52) 2-Chloronaphthalene	7.141	162	463800	63.29	ng		99
53) 1-Chloronaphthalene	7.162	162	414166	62.52	ng	#	67
54) 2-Nitroaniline	7.333	65	133054	77.36	ng		99
55) 3-Nitroaniline	7.819	138	141996	69.74	ng	#	94
56) Pentachlorobenzene	7.974	250	195297	63.65	ng		98
57) 4-Nitroaniline	8.525	138	144526	68.40	ng		93
58) 2-Naphthylamine	8.119	143	461219	62.60	ng		100
59) 1-Naphthylamine	8.215	143	445409	56.55	ng		100
60) Dimethyl phthalate	7.542	163	505405	63.64	ng		99
61) Acenaphthylene	7.606	152	687111	62.61	ng		99
62) 2,6-Dinitrotoluene	7.606	165	120360	72.50	ng	#	76
63) Acenaphthene	7.803	154	421449	63.37	ng		98
64) 2,4-Dinitrophenol	7.990	184	13672	33.51	ng		94
65) Dibenzofuran	8.012	168	645565	63.17	ng		77
66) 4-Nitrophenol	8.220	109	53697	53.92	ng	#	6
67) 2,4-Dinitrotoluene	8.081	165	165862	71.84	ng		89
68) 2,3,4,6-Tetrachlorophenol	8.220	232	99999	56.66	ng		98
69) Diethyl phthalate	8.343	149	502991	65.37	ng		98
70) Fluorene	8.396	166	542194	63.75	ng		99
71) 4-Chlorophenyl phenyl ether	8.418	204	263642	64.50	ng		99
74) 4,6-Dinitro-2-methylphenol	8.551	198	76848	62.88	ng		94
75) Azobenzene	8.594	77	535223	74.01	ng		91
76) 1,2-Diphenylhydrazine	8.594	182	129496	58.58	ng	#	58
77) Diphenylamine	8.573	170	88408	57.38	ng	#	94
78) N-Nitrosodiphenylamine	8.573	168	444126	61.11	ng		95
79) 4-Bromophenyl phenyl ether	8.957	248	155934	63.80	ng		97
80) Phenacetin	9.005	108	274394	73.76	ng		98
81) Hexachlorobenzene	9.021	284	169892	64.88	ng		97
82) Atrazine	9.224	200	153098	67.33	ng	#	93
83) 4-Aminobiphenyl	9.272	169	483852	52.57	ng		99
84) Pentachlorophenol	9.299	266	77604	53.52	ng		99
85) Pentachloronitrobenzene	9.272	237	66161	69.55	ng		98
86) Pronamide	9.385	173	188818	57.05	ng		99
87) Phenanthrene	9.459	178	786724	63.48	ng		99
88) Anthracene	9.518	178	808399	64.85	ng		100
89) Carbazole	9.748	167	773969	69.20	ng		99
90) Di-n-butyl phthalate	10.165	149	910110	68.59	ng		100
91) Fluoranthene	10.784	202	902872	65.45	ng		97
93) Pyrene	11.030	202	903231	58.80	ng		100
95) Benzidine	10.987	184	331601	57.70	ng		97
96) p-Dimethylaminoazobenzene	11.409	225	181477	59.62	ng		95
97) Butyl benzyl phthalate	11.815	149	416314	65.99	ng		99
98) Benz(a)anthracene	12.376	228	875262	60.80	ng		100
99) 3,3'-Dichlorobenzidine	12.382	252	339827	64.81	ng		97
100) Chrysene	12.414	228	871879	58.35	ng		99
101) Bis(2-ethylhexyl)phthalate	12.478	149	597472	71.54	ng		99
102) Di-n-octyl phthalate	13.162	149	1051553	75.35	ng		100
103) 3-Methylcholanthrene	14.134	268	323455	66.15	ng		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121404.D
Acq On : 14 Dec 2021 9:52 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_S
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:12 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

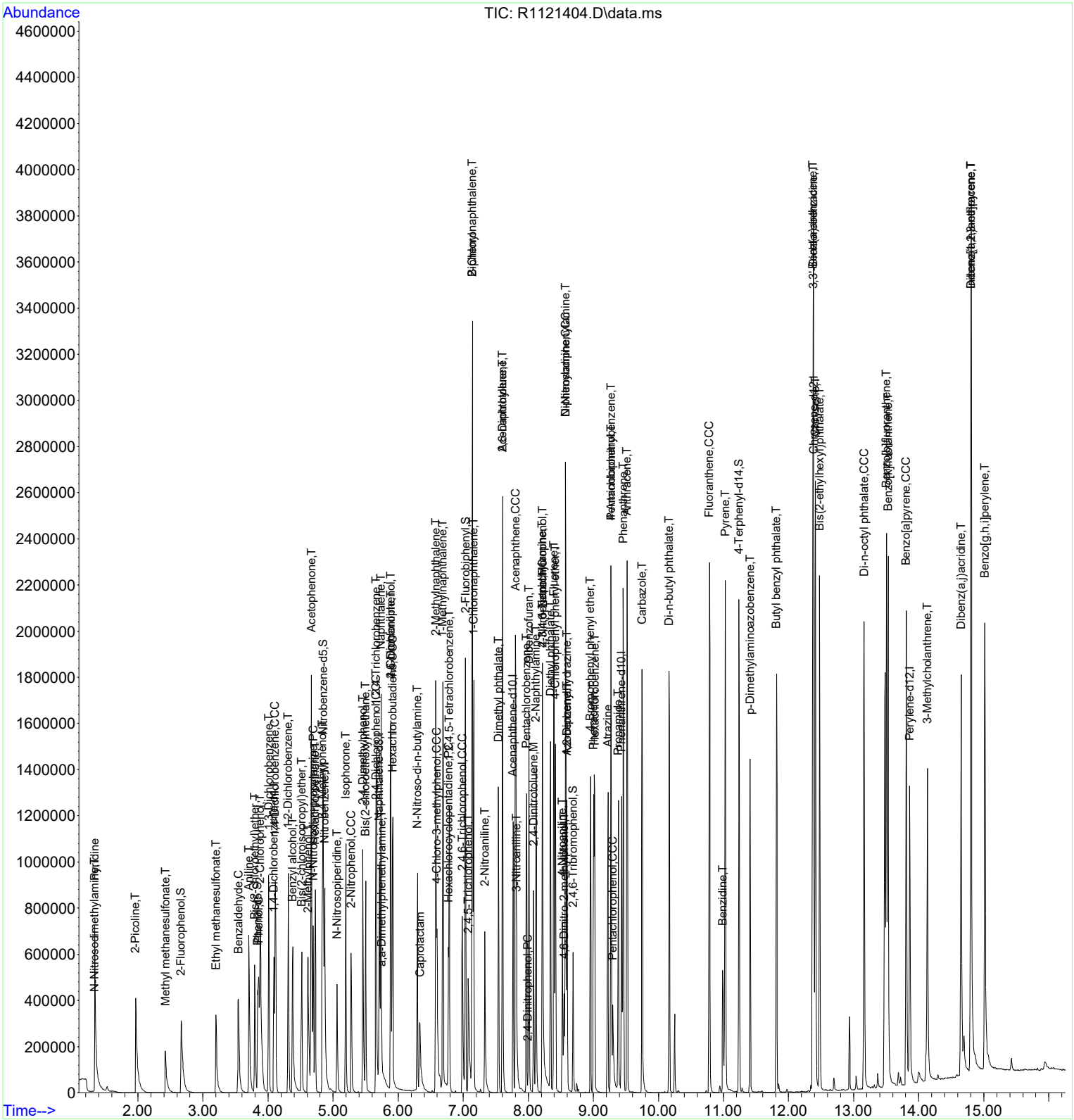
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	... 14.807	276	1044921	62.34	ng	96
106) Benzo[b]fluoranthene	... 13.503	252	872060	53.48	ng	96
107) Benzo[k]fluoranthene	... 13.530	252	923312	56.86	ng	98
108) Benzo[a]pyrene	... 13.808	252	819262	57.28	ng	97
109) Dibenz(a,j)acridine	... 14.652	279	745321	60.88	ng	98
110) Dibenz(a,h)anthracene	... 14.807	278	877023	58.32	ng	94
111) Benzo[g,h,i]perylene	... 15.015	276	876853	57.19	ng	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121404.D
Acq On : 14 Dec 2021 9:52 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_S
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:12 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121422.D
Acq On : 14 Dec 2021 1:13 pm
Operator : YH
Sample : 2112G62-005D
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Dec 14 14:22:10 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.094	152	87978	40.00	ng		0.00
23) Naphthalene-d8	...	5.712	136	357129	40.00	ng		0.00
45) Acenaphthene-d10	...	7.769	164	215736	40.00	ng		0.00
73) Phenanthrene-d10	...	9.430	188	395953	40.00	ng		-0.01
92) Chrysene-d12	...	12.390	240	375755	40.00	ng		0.00
105) Perylene-d12	...	13.875	264	423511	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.667	112	170347	62.06	ng		-0.02
Spiked Amount 100.000	Range 21 - 110		Recovery = 62.06%					
9) Phenol-d5	...	3.848	99	205053	61.53	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 61.53%					
24) Nitrobenzene-d5	...	4.852	82	97602	35.29	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 70.58%					
50) 2-Fluorobiphenyl	...	7.032	172	223758	32.12	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 64.24%					
72) 2,4,6-Tribromophenol	...	8.688	330	86719	103.94	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 103.94%					
94) 4-Terphenyl-d14	...	11.241	244	313738	33.78	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 67.56%					
Target Compounds					Qvalue			
2) Pyridine	...	0.000	79	0	N.D.			
3) 2-Picoline	...	0.000	93	0	N.D.			
4) Methyl methanesulfonate	...	0.000	80	0	N.D.			
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.			
7) Benzaldehyde	...	0.000	105	0	N.D.			
8) Aniline	...	0.000	66	0	N.D.			
10) Phenol	...	3.869	94	54246	13.42	ng	#	73
11) Bis(2-chloroethyl)ether	...	0.000	93	0	N.D.	d		
12) 2-Chlorophenol	...	0.000	128	0	N.D.			
13) 1,3-Dichlorobenzene	...	0.000	146	0	N.D.			
14) 1,4-Dichlorobenzene	...	0.000	146	0	N.D.			
15) 1,2-Dichlorobenzene	...	0.000	146	0	N.D.			
16) Benzyl alcohol	...	0.000	108	0	N.D.			
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0	N.D.	d		
18) 2-Methylphenol	...	0.000	107	0	N.D.	d		
19) 3,4-Methylphenol	...	0.000	107	0	N.D.	d		
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.			
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D.			
22) Hexachloroethane	...	0.000	117	0	N.D.			
25) Acetophenone	...	0.000	105	0	N.D.	d		
26) Nitrobenzene	...	0.000	123	0	N.D.			
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.			
28) Isophorone	...	0.000	82	0	N.D.			
29) 2-Nitrophenol	...	0.000	139	0	N.D.			
30) 2,4-Dimethylphenol	...	0.000	122	0	N.D.			
31) Bis(2-chloroethoxy)methane	...	0.000	93	0	N.D.			
32) 2,4-Dichlorophenol	...	0.000	162	0	N.D.			
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.			
34) Naphthalene	...	5.739	128	27800	2.97	ng		92
35) Benzoic acid	...	0.000	122	0	N.D.	d		
36) 2,6-Dichlorophenol	...	0.000	162	0	N.D.			
37) 4-Chloroaniline	...	0.000	127	0	N.D.	d		
38) Hexachlorobutadiene	...	0.000	225	0	N.D.			
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D.			
40) Caprolactam	...	6.311	113	10974	10.92	ng	#	66

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121422.D
Acq On : 14 Dec 2021 1:13 pm
Operator : YH
Sample : 2112G62-005D
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Dec 14 14:22:10 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	...	0.000	107	0	N.D. d		
42) N-Nitroso-di-n-butylamine	...	0.000	84	0	N.D. d		
43) 2-Methylnaphthalene	...	6.588	141	3474	0.64 ng		98
44) 1-Methylnaphthalene	...	6.695	141	5797	1.09 ng		94
46) 1,2,4,5-Tetrachlorobenzene	...	0.000	216	0	N.D. d		
47) Hexachlorocyclopentadiene	...	0.000	237	0	N.D.		
48) 2,4,6-Trichlorophenol	...	0.000	196	0	N.D.		
49) 2,4,5-Trichlorophenol	...	0.000	196	0	N.D.		
51) Biphenyl	...	7.139	154	11978	1.60 ng	#	97
52) 2-Chloronaphthalene	...	0.000	162	0	N.D.		
53) 1-Chloronaphthalene	...	0.000	162	0	N.D.		
54) 2-Nitroaniline	...	0.000	65	0	N.D.		
55) 3-Nitroaniline	...	0.000	138	0	N.D.		
56) Pentachlorobenzene	...	0.000	250	0	N.D.		
57) 4-Nitroaniline	...	0.000	138	0	N.D.		
58) 2-Naphthylamine	...	0.000	143	0	N.D.		
59) 1-Naphthylamine	...	0.000	143	0	N.D.		
60) Dimethyl phthalate	...	0.000	163	0	N.D.		
61) Acenaphthylene	...	0.000	152	0	N.D. d		
62) 2,6-Dinitrotoluene	...	0.000	165	0	N.D.		
63) Acenaphthene	...	0.000	154	0	N.D. d		
64) 2,4-Dinitrophenol	...	0.000	184	0	N.D.		
65) Dibenzofuran	...	0.000	168	0	N.D. d		
66) 4-Nitrophenol	...	0.000	109	0	N.D.		
67) 2,4-Dinitrotoluene	...	0.000	165	0	N.D.		
68) 2,3,4,6-Tetrachlorophenol	...	0.000	232	0	N.D.		
69) Diethyl phthalate	...	0.000	149	0	N.D.		
70) Fluorene	...	0.000	166	0	N.D. d		
71) 4-Chlorophenyl phenyl ether	...	0.000	204	0	N.D.		
74) 4,6-Dinitro-2-methylphenol	...	0.000	198	0	N.D.		
75) Azobenzene	...	0.000	77	0	N.D. d		
76) 1,2-Diphenylhydrazine	...	0.000	182	0	N.D. d		
77) Diphenylamine	...	0.000	170	0	N.D.		
78) N-Nitrosodiphenylamine	...	0.000	168	0	N.D. d		
79) 4-Bromophenyl phenyl ether	...	0.000	248	0	N.D.		
80) Phenacetin	...	0.000	108	0	N.D. d		
81) Hexachlorobenzene	...	0.000	284	0	N.D.		
82) Atrazine	...	0.000	200	0	N.D.		
83) 4-Aminobiphenyl	...	0.000	169	0	N.D.		
84) Pentachlorophenol	...	0.000	266	0	N.D.		
85) Pentachloronitrobenzene	...	0.000	237	0	N.D.		
86) Pronamide	...	0.000	173	0	N.D.		
87) Phenanthrene	...	9.457	178	377613	35.01 ng		99
88) Anthracene	...	9.521	178	45137	4.16 ng		85
89) Carbazole	...	9.756	167	94642	9.72 ng		98
90) Di-n-butyl phthalate	...	0.000	149	0	N.D. d		
91) Fluoranthene	...	10.793	202	1444540	120.32 ng		97
93) Pyrene	...	11.033	202	1186095	90.77 ng		96
95) Benzidine	...	0.000	184	0	N.D. d		
96) p-Dimethylaminoazobenzene	...	0.000	225	0	N.D.		
97) Butyl benzyl phthalate	...	0.000	149	0	N.D. d		
98) Benz(a)anthracene	...	12.379	228	530589	43.33 ng		99
99) 3,3'-Dichlorobenzidine	...	0.000	252	0	N.D. d		
100) Chrysene	...	12.422	228	1130640	88.94 ng		99
101) Bis(2-ethylhexyl)phthalate	...	12.481	149	115857	16.31 ng		98
102) Di-n-octyl phthalate	...	0.000	149	0	N.D. d		
103) 3-Methylcholanthrene	...	0.000	268	0	N.D. d		

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121422.D
Acq On : 14 Dec 2021 1:13 pm
Operator : YH
Sample : 2112G62-005D
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Dec 14 14:22:10 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

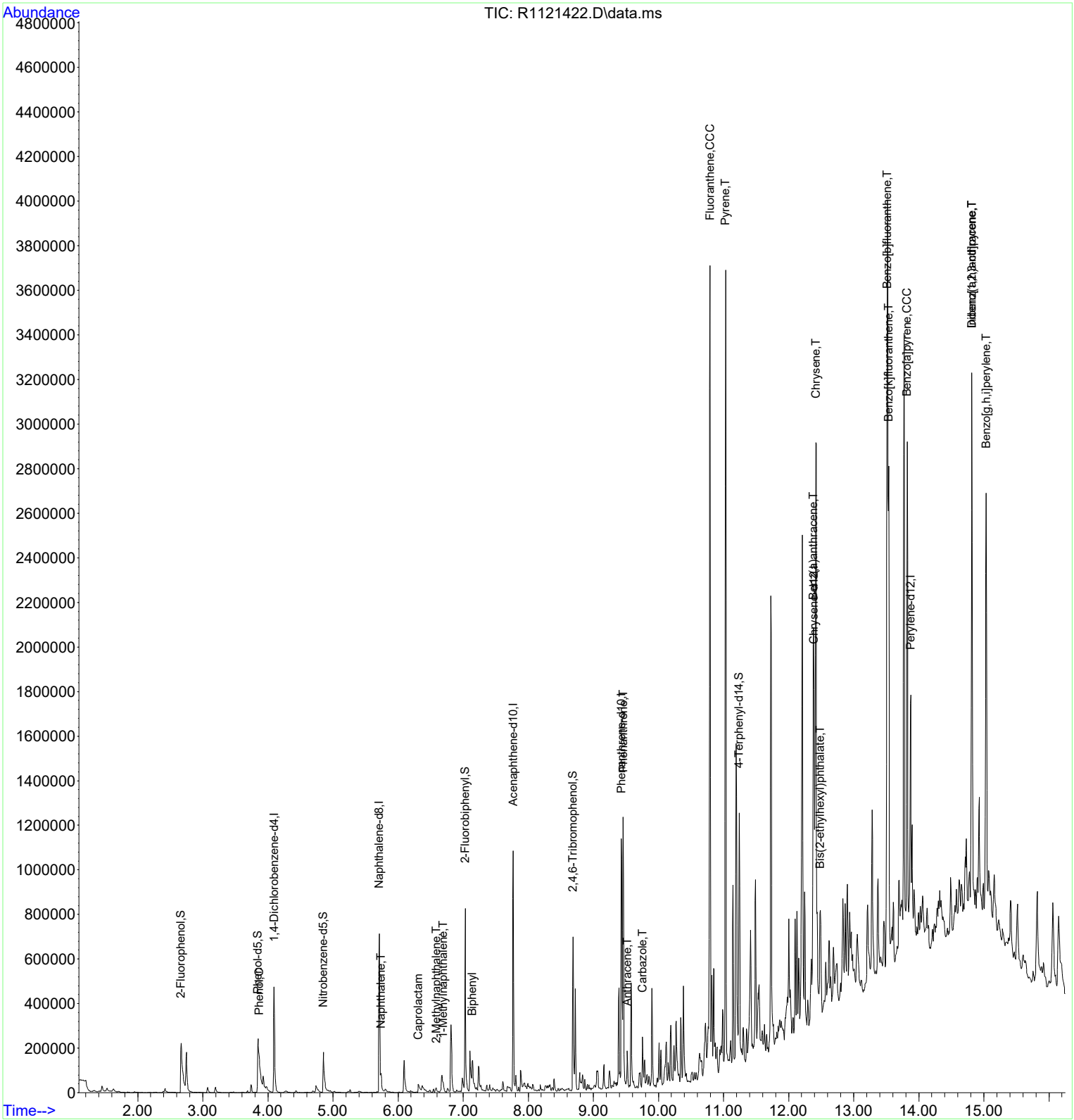
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	14.815	276	865854	60.72	ng	98
106) Benzo[b]fluoranthene	13.517	252	1931348	135.69	ng	98
107) Benzo[k]fluoranthene	13.539	252	491983	34.71	ng	95
108) Benzo[a]pyrene	13.822	252	892543	71.48	ng	93
109) Dibenz(a,j)acridine	0.000	279	0	N.D.	d	
110) Dibenz(a,h)anthracene	14.815	278	160100	12.20	ng	86
111) Benzo[g,h,i]perylene	15.034	276	862523	64.44	ng	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121422.D
Acq On : 14 Dec 2021 1:13 pm
Operator : YH
Sample : 2112G62-005D
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Dec 14 14:22:10 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121423.D
Acq On : 14 Dec 2021 1:38 pm
Operator : YH
Sample : 2112G62-007C
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 67 Sample Multiplier: 1

Quant Time: Dec 14 14:56:42 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.095	152	106195	40.00	ng	0.00
23) Naphthalene-d8	...	5.708	136	438283	40.00	ng	-0.01
45) Acenaphthene-d10	...	7.770	164	257587	40.00	ng	0.00
73) Phenanthrene-d10	...	9.432	188	478141	40.00	ng	-0.01
92) Chrysene-d12	...	12.391	240	470442	40.00	ng	0.00
105) Perylene-d12	...	13.871	264	541702	40.00	ng	0.00
System Monitoring Compounds							
5) 2-Fluorophenol	...	2.669	112	140353	42.36	ng	-0.02
Spiked Amount 100.000	Range 21 - 110		Recovery = 42.36%				
9) Phenol-d5	...	3.854	99	172485	42.88	ng	0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 42.88%				
24) Nitrobenzene-d5	...	4.853	82	81417	23.98	ng	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 47.96%				
50) 2-Fluorobiphenyl	...	7.033	172	195377	23.49	ng	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 46.98%				
72) 2,4,6-Tribromophenol	...	8.689	330	60654	60.89	ng	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 60.89%				
94) 4-Terphenyl-d14	...	11.243	244	268926	23.13	ng	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 46.26%				

Target Compounds					Qvalue
2) Pyridine	...	0.000	79	0	N.D.
3) 2-Picoline	...	0.000	93	0	N.D.
4) Methyl methanesulfonate	...	0.000	80	0	N.D.
6) Ethyl methanesulfonate	...	0.000	79	0	N.D. d
7) Benzaldehyde	...	0.000	105	0	N.D. d
8) Aniline	...	0.000	66	0	N.D.
10) Phenol	...	0.000	94	0	N.D. d
11) Bis(2-chloroethyl)ether	...	0.000	93	0	N.D.
12) 2-Chlorophenol	...	0.000	128	0	N.D.
13) 1,3-Dichlorobenzene	...	0.000	146	0	N.D.
14) 1,4-Dichlorobenzene	...	0.000	146	0	N.D.
15) 1,2-Dichlorobenzene	...	0.000	146	0	N.D.
16) Benzyl alcohol	...	0.000	108	0	N.D.
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0	N.D.
18) 2-Methylphenol	...	0.000	107	0	N.D.
19) 3,4-Methylphenol	...	0.000	107	0	N.D.
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D.
22) Hexachloroethane	...	0.000	117	0	N.D.
25) Acetophenone	...	0.000	105	0	N.D.
26) Nitrobenzene	...	0.000	123	0	N.D.
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.
28) Isophorone	...	0.000	82	0	N.D.
29) 2-Nitrophenol	...	0.000	139	0	N.D.
30) 2,4-Dimethylphenol	...	0.000	122	0	N.D.
31) Bis(2-chloroethoxy)methane	...	0.000	93	0	N.D.
32) 2,4-Dichlorophenol	...	0.000	162	0	N.D.
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.
34) Naphthalene	...	0.000	128	0	N.D. d
35) Benzoic acid	...	0.000	122	0	N.D.
36) 2,6-Dichlorophenol	...	0.000	162	0	N.D.
37) 4-Chloroaniline	...	0.000	127	0	N.D.
38) Hexachlorobutadiene	...	0.000	225	0	N.D.
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D.
40) Caprolactam	...	0.000	113	0	N.D.

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121423.D
Acq On : 14 Dec 2021 1:38 pm
Operator : YH
Sample : 2112G62-007C
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 67 Sample Multiplier: 1

Quant Time: Dec 14 14:56:42 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	...	0.000	107	0	N.D.	d	
42) N-Nitroso-di-n-butylamine	...	0.000	84	0	N.D.	d	
43) 2-Methylnaphthalene	...	0.000	141	0	N.D.		
44) 1-Methylnaphthalene	...	0.000	141	0	N.D.		
46) 1,2,4,5-Tetrachlorobenzene	...	0.000	216	0	N.D.		
47) Hexachlorocyclopentadiene	...	0.000	237	0	N.D.		
48) 2,4,6-Trichlorophenol	...	0.000	196	0	N.D.		
49) 2,4,5-Trichlorophenol	...	0.000	196	0	N.D.		
51) Biphenyl	...	0.000	154	0	N.D.		
52) 2-Chloronaphthalene	...	0.000	162	0	N.D.		
53) 1-Chloronaphthalene	...	0.000	162	0	N.D.		
54) 2-Nitroaniline	...	0.000	65	0	N.D.		
55) 3-Nitroaniline	...	0.000	138	0	N.D.		
56) Pentachlorobenzene	...	0.000	250	0	N.D.		
57) 4-Nitroaniline	...	0.000	138	0	N.D.		
58) 2-Naphthylamine	...	0.000	143	0	N.D.		
59) 1-Naphthylamine	...	0.000	143	0	N.D.		
60) Dimethyl phthalate	...	0.000	163	0	N.D.		
61) Acenaphthylene	...	0.000	152	0	N.D.	d	
62) 2,6-Dinitrotoluene	...	0.000	165	0	N.D.		
63) Acenaphthene	...	0.000	154	0	N.D.	d	
64) 2,4-Dinitrophenol	...	0.000	184	0	N.D.		
65) Dibenzofuran	...	0.000	168	0	N.D.	d	
66) 4-Nitrophenol	...	0.000	109	0	N.D.		
67) 2,4-Dinitrotoluene	...	0.000	165	0	N.D.		
68) 2,3,4,6-Tetrachlorophenol	...	0.000	232	0	N.D.		
69) Diethyl phthalate	...	0.000	149	0	N.D.		
70) Fluorene	...	0.000	166	0	N.D.	d	
71) 4-Chlorophenyl phenyl ether	...	0.000	204	0	N.D.		
74) 4,6-Dinitro-2-methylphenol	...	0.000	198	0	N.D.		
75) Azobenzene	...	0.000	77	0	N.D.		
76) 1,2-Diphenylhydrazine	...	0.000	182	0	N.D.	d	
77) Diphenylamine	...	0.000	170	0	N.D.		
78) N-Nitrosodiphenylamine	...	0.000	168	0	N.D.	d	
79) 4-Bromophenyl phenyl ether	...	0.000	248	0	N.D.		
80) Phenacetin	...	0.000	108	0	N.D.	d	
81) Hexachlorobenzene	...	0.000	284	0	N.D.		
82) Atrazine	...	0.000	200	0	N.D.		
83) 4-Aminobiphenyl	...	0.000	169	0	N.D.		
84) Pentachlorophenol	...	0.000	266	0	N.D.		
85) Pentachloronitrobenzene	...	0.000	237	0	N.D.		
86) Pronamide	...	0.000	173	0	N.D.		
87) Phenanthrene	...	9.458	178	534181	41.01	ng	100
88) Anthracene	...	9.517	178	61380	4.69	ng	89
89) Carbazole	...	9.752	167	113064	9.62	ng	98
90) Di-n-butyl phthalate	...	0.000	149	0	N.D.	d	
91) Fluoranthene	...	10.794	202	1964447	135.50	ng	97
93) Pyrene	...	11.034	202	1616680	98.82	ng	95
95) Benzidine	...	0.000	184	0	N.D.	d	
96) p-Dimethylaminoazobenzene	...	0.000	225	0	N.D.	d	
97) Butyl benzyl phthalate	...	0.000	149	0	N.D.	d	
98) Benz(a)anthracene	...	12.381	228	816749	53.27	ng	91
99) 3,3'-Dichlorobenzidine	...	0.000	252	0	N.D.	d	
100) Chrysene	...	12.418	228	1238579	77.82	ng	96
101) Bis(2-ethylhexyl)phthalate	...	12.482	149	19709	2.22	ng #	88
102) Di-n-octyl phthalate	...	0.000	149	0	N.D.	d	
103) 3-Methylcholanthrene	...	0.000	268	0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121423.D
Acq On : 14 Dec 2021 1:38 pm
Operator : YH
Sample : 2112G62-007C
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 67 Sample Multiplier: 1

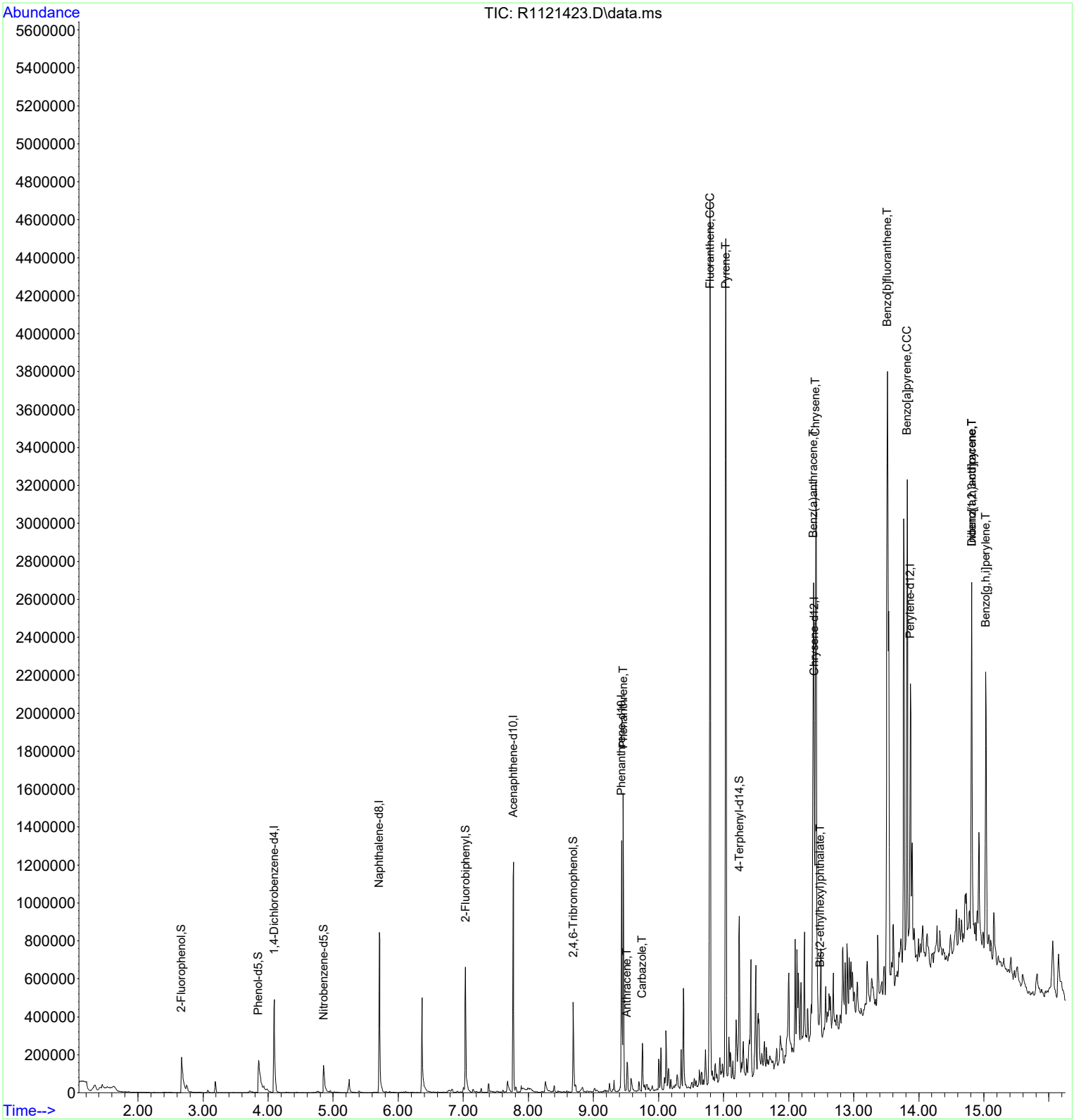
Quant Time: Dec 14 14:56:42 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
104) Indeno[1,2,3-cd]pyrene	14.817	276	717141	40.17	ng		98
106) Benzo[b]fluoranthene	13.518	252	2238514	122.96	ng		97
107) Benzo[k]fluoranthene	0.000	252	0	N.D.	d		
108) Benzo[a]pyrene	13.823	252	985772	61.72	ng		94
109) Dibenz(a,j)acridine	0.000	279	0	N.D.	d		
110) Dibenz(a,h)anthracene	14.817	278	196892	11.73	ng	#	72
111) Benzo[g,h,i]perylene	15.030	276	652421	38.11	ng		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121423.D
Acq On : 14 Dec 2021 1:38 pm
Operator : YH
Sample : 2112G62-007C
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 67 Sample Multiplier: 1

Quant Time: Dec 14 14:56:42 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121424.D
Acq On : 14 Dec 2021 2:05 pm
Operator : YH
Sample : 2112G62-008D
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Dec 14 14:59:27 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.090	152	89508	40.00	ng	-0.01
23) Naphthalene-d8	...	5.709	136	369411	40.00	ng	-0.01
45) Acenaphthene-d10	...	7.771	164	218337	40.00	ng	0.00
73) Phenanthrene-d10	...	9.438	188	402094	40.00	ng	0.00
92) Chrysene-d12	...	12.397	240	397984	40.00	ng	0.00
105) Perylene-d12	...	13.882	264	400454	40.00	ng	0.01
System Monitoring Compounds							
5) 2-Fluorophenol	...	2.664	112	175144	62.72	ng	-0.02
Spiked Amount 100.000	Range 21 - 110		Recovery = 62.72%				
9) Phenol-d5	...	3.850	99	228479	67.39	ng	0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 67.39%				
24) Nitrobenzene-d5	...	4.849	82	108583	37.95	ng	-0.01
Spiked Amount 50.000	Range 34 - 114		Recovery = 75.90%				
50) 2-Fluorobiphenyl	...	7.034	172	255678	36.26	ng	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 72.52%				
72) 2,4,6-Tribromophenol	...	8.690	330	80166	94.94	ng	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 94.94%				
94) 4-Terphenyl-d14	...	11.249	244	390682	39.71	ng	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 79.42%				
Target Compounds					Qvalue		
2) Pyridine	...	0.000	79	0	N.D.		
3) 2-Picoline	...	0.000	93	0	N.D.		
4) Methyl methanesulfonate	...	0.000	80	0	N.D.		
6) Ethyl methanesulfonate	...	0.000	79	0	N.D. d		
7) Benzaldehyde	...	0.000	105	0	N.D. d		
8) Aniline	...	0.000	66	0	N.D.		
10) Phenol	...	0.000	94	0	N.D. d		
11) Bis(2-chloroethyl)ether	...	0.000	93	0	N.D. d		
12) 2-Chlorophenol	...	0.000	128	0	N.D.		
13) 1,3-Dichlorobenzene	...	0.000	146	0	N.D.		
14) 1,4-Dichlorobenzene	...	0.000	146	0	N.D.		
15) 1,2-Dichlorobenzene	...	0.000	146	0	N.D.		
16) Benzyl alcohol	...	0.000	108	0	N.D.		
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0	N.D.		
18) 2-Methylphenol	...	0.000	107	0	N.D. d		
19) 3,4-Methylphenol	...	0.000	107	0	N.D.		
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.		
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D. d		
22) Hexachloroethane	...	0.000	117	0	N.D. d		
25) Acetophenone	...	0.000	105	0	N.D. d		
26) Nitrobenzene	...	0.000	123	0	N.D.		
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.		
28) Isophorone	...	0.000	82	0	N.D.		
29) 2-Nitrophenol	...	0.000	139	0	N.D.		
30) 2,4-Dimethylphenol	...	0.000	122	0	N.D. d		
31) Bis(2-chloroethoxy)methane	...	0.000	93	0	N.D. d		
32) 2,4-Dichlorophenol	...	0.000	162	0	N.D.		
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.		
34) Naphthalene	...	0.000	128	0	N.D.		
35) Benzoic acid	...	5.768	122	103137	130.38	ng	# 68
36) 2,6-Dichlorophenol	...	0.000	162	0	N.D.		
37) 4-Chloroaniline	...	0.000	127	0	N.D.		
38) Hexachlorobutadiene	...	0.000	225	0	N.D.		
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D. d		
40) Caprolactam	...	0.000	113	0	N.D.		

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121424.D
Acq On : 14 Dec 2021 2:05 pm
Operator : YH
Sample : 2112G62-008D
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Dec 14 14:59:27 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 4-Chloro-3-methylphenol	...	0.000	107	0	N.D. d	
42) N-Nitroso-di-n-butylamine	...	0.000	84	0	N.D. d	
43) 2-Methylnaphthalene	...	0.000	141	0	N.D.	
44) 1-Methylnaphthalene	...	0.000	141	0	N.D.	
46) 1,2,4,5-Tetrachlorobenzene	...	0.000	216	0	N.D.	
47) Hexachlorocyclopentadiene	...	0.000	237	0	N.D.	
48) 2,4,6-Trichlorophenol	...	0.000	196	0	N.D.	
49) 2,4,5-Trichlorophenol	...	0.000	196	0	N.D.	
51) Biphenyl	...	0.000	154	0	N.D. d	
52) 2-Chloronaphthalene	...	0.000	162	0	N.D. d	
53) 1-Chloronaphthalene	...	0.000	162	0	N.D. d	
54) 2-Nitroaniline	...	0.000	65	0	N.D. d	
55) 3-Nitroaniline	...	0.000	138	0	N.D. d	
56) Pentachlorobenzene	...	0.000	250	0	N.D.	
57) 4-Nitroaniline	...	0.000	138	0	N.D. d	
58) 2-Naphthylamine	...	0.000	143	0	N.D. d	
59) 1-Naphthylamine	...	0.000	143	0	N.D. d	
60) Dimethyl phthalate	...	0.000	163	0	N.D. d	
61) Acenaphthylene	...	0.000	152	0	N.D. d	
62) 2,6-Dinitrotoluene	...	0.000	165	0	N.D. d	
63) Acenaphthene	...	0.000	154	0	N.D.	
64) 2,4-Dinitrophenol	...	0.000	184	0	N.D.	
65) Dibenzofuran	...	0.000	168	0	N.D. d	
66) 4-Nitrophenol	...	0.000	109	0	N.D. d	
67) 2,4-Dinitrotoluene	...	0.000	165	0	N.D.	
68) 2,3,4,6-Tetrachlorophenol	...	0.000	232	0	N.D.	
69) Diethyl phthalate	...	0.000	149	0	N.D. d	
70) Fluorene	...	0.000	166	0	N.D. d	
71) 4-Chlorophenyl phenyl ether	...	0.000	204	0	N.D. d	
74) 4,6-Dinitro-2-methylphenol	...	0.000	198	0	N.D. d	
75) Azobenzene	...	0.000	77	0	N.D. d	
76) 1,2-Diphenylhydrazine	...	0.000	182	0	N.D. d	
77) Diphenylamine	...	0.000	170	0	N.D.	
78) N-Nitrosodiphenylamine	...	0.000	168	0	N.D. d	
79) 4-Bromophenyl phenyl ether	...	0.000	248	0	N.D.	
80) Phenacetin	...	0.000	108	0	N.D. d	
81) Hexachlorobenzene	...	0.000	284	0	N.D.	
82) Atrazine	...	0.000	200	0	N.D.	
83) 4-Aminobiphenyl	...	0.000	169	0	N.D.	
84) Pentachlorophenol	...	0.000	266	0	N.D.	
85) Pentachloronitrobenzene	...	0.000	237	0	N.D.	
86) Pronamide	...	0.000	173	0	N.D. d	
87) Phenanthrene	...	9.459	178	92033	8.40 ng	96
88) Anthracene	...	0.000	178	0	N.D. d	
89) Carbazole	...	0.000	167	0	N.D. d	
90) Di-n-butyl phthalate	...	0.000	149	0	N.D. d	
91) Fluoranthene	...	10.789	202	411956	33.79 ng	98
93) Pyrene	...	11.030	202	320544	23.16 ng	95
95) Benzidine	...	0.000	184	0	N.D. d	
96) p-Dimethylaminoazobenzene	...	0.000	225	0	N.D. d	
97) Butyl benzyl phthalate	...	11.826	149	157613	27.73 ng	92
98) Benz(a)anthracene	...	12.387	228	138186	10.65 ng	90
99) 3,3'-Dichlorobenzidine	...	0.000	252	0	N.D. d	
100) Chrysene	...	12.424	228	255292	18.96 ng	99
101) Bis(2-ethylhexyl)phthalate	...	0.000	149	0	N.D. d	
102) Di-n-octyl phthalate	...	0.000	149	0	N.D. d	
103) 3-Methylcholanthrene	...	0.000	268	0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121424.D
Acq On : 14 Dec 2021 2:05 pm
Operator : YH
Sample : 2112G62-008D
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Dec 14 14:59:27 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

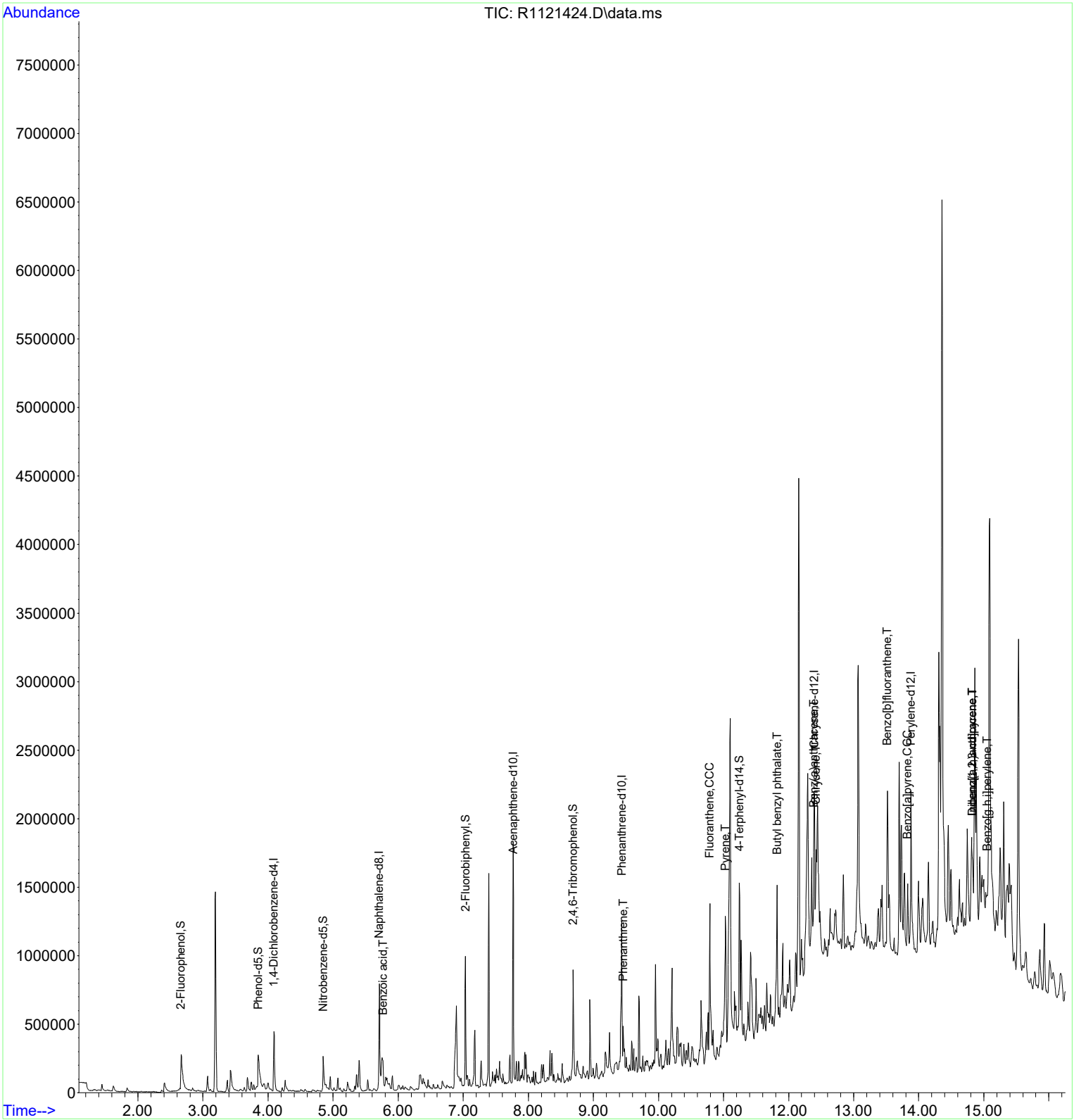
Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	14.828	276	133970	8.87	ng	96
106) Benzo[b]fluoranthene	...	13.519	252	467338	34.73	ng	95
107) Benzo[k]fluoranthene	...	0.000	252	0	N.D.	d	
108) Benzo[a]pyrene	...	13.829	252	176217	14.93	ng	96
109) Dibenz(a,j)acridine	...	0.000	279	0	N.D.	d	
110) Dibenz(a,h)anthracene	...	14.828	278	34069	2.74	ng	80
111) Benzo[g,h,i]perylene	...	15.052	276	127683	10.09	ng	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121424.D
Acq On : 14 Dec 2021 2:05 pm
Operator : YH
Sample : 2112G62-008D
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Dec 14 14:59:27 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121425.D
Acq On : 14 Dec 2021 2:30 pm
Operator : YH
Sample : 2112G62-009B
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Dec 14 15:00:57 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.095	152	92450	40.00	ng	0.00
23) Naphthalene-d8	...	5.714	136	376831	40.00	ng	0.00
45) Acenaphthene-d10	...	7.771	164	225645	40.00	ng	0.00
73) Phenanthrene-d10	...	9.437	188	410409	40.00	ng	0.00
92) Chrysene-d12	...	12.392	240	402868	40.00	ng	0.00
105) Perylene-d12	...	13.871	264	422464	40.00	ng	0.00
System Monitoring Compounds							
5) 2-Fluorophenol	...	2.669	112	184938	64.12	ng	-0.02
Spiked Amount 100.000	Range 21 - 110		Recovery = 64.12%				
9) Phenol-d5	...	3.855	99	230598	65.85	ng	0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 65.85%				
24) Nitrobenzene-d5	...	4.854	82	107062	36.68	ng	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 73.36%				
50) 2-Fluorobiphenyl	...	7.033	172	263061	36.10	ng	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 72.20%				
72) 2,4,6-Tribromophenol	...	8.689	330	78179	89.59	ng	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 89.59%				
94) 4-Terphenyl-d14	...	11.243	244	351939	35.34	ng	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 70.68%				
Target Compounds							Qvalue
2) Pyridine	...	0.000	79	0			N.D.
3) 2-Picoline	...	0.000	93	0			N.D.
4) Methyl methanesulfonate	...	0.000	80	0			N.D.
6) Ethyl methanesulfonate	...	0.000	79	0			N.D. d
7) Benzaldehyde	...	0.000	105	0			N.D. d
8) Aniline	...	0.000	66	0			N.D.
10) Phenol	...	0.000	94	0			N.D. d
11) Bis(2-chloroethyl)ether	...	0.000	93	0			N.D. d
12) 2-Chlorophenol	...	0.000	128	0			N.D.
13) 1,3-Dichlorobenzene	...	0.000	146	0			N.D.
14) 1,4-Dichlorobenzene	...	0.000	146	0			N.D.
15) 1,2-Dichlorobenzene	...	0.000	146	0			N.D.
16) Benzyl alcohol	...	0.000	108	0			N.D.
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0			N.D.
18) 2-Methylphenol	...	0.000	107	0			N.D.
19) 3,4-Methylphenol	...	0.000	107	0			N.D.
20) N-Nitrosodi-n-propylamine	...	0.000	70	0			N.D.
21) N-Nitrosodimethylamine	...	0.000	42	0			N.D.
22) Hexachloroethane	...	0.000	117	0			N.D.
25) Acetophenone	...	0.000	105	0			N.D.
26) Nitrobenzene	...	0.000	123	0			N.D.
27) N-Nitrosopiperidine	...	0.000	114	0			N.D.
28) Isophorone	...	0.000	82	0			N.D.
29) 2-Nitrophenol	...	0.000	139	0			N.D.
30) 2,4-Dimethylphenol	...	0.000	122	0			N.D.
31) Bis(2-chloroethoxy)methane	...	0.000	93	0			N.D.
32) 2,4-Dichlorophenol	...	0.000	162	0			N.D.
33) 1,2,4-Trichlorobenzene	...	0.000	180	0			N.D.
34) Naphthalene	...	0.000	128	0			N.D.
35) Benzoic acid	...	0.000	122	0			N.D.
36) 2,6-Dichlorophenol	...	0.000	162	0			N.D.
37) 4-Chloroaniline	...	0.000	127	0			N.D.
38) Hexachlorobutadiene	...	0.000	225	0			N.D.
39) a,a-Dimethylphenethylamine	...	0.000	58	0			N.D.
40) Caprolactam	...	0.000	113	0			N.D.

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121425.D
Acq On : 14 Dec 2021 2:30 pm
Operator : YH
Sample : 2112G62-009B
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Dec 14 15:00:57 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	0.000	107	0	N.D.	d		
42) N-Nitroso-di-n-butylamine	0.000	84	0	N.D.			
43) 2-Methylnaphthalene	0.000	141	0	N.D.			
44) 1-Methylnaphthalene	0.000	141	0	N.D.			
46) 1,2,4,5-Tetrachlorobenzene	0.000	216	0	N.D.			
47) Hexachlorocyclopentadiene	0.000	237	0	N.D.			
48) 2,4,6-Trichlorophenol	0.000	196	0	N.D.			
49) 2,4,5-Trichlorophenol	0.000	196	0	N.D.			
51) Biphenyl	0.000	154	0	N.D.			
52) 2-Chloronaphthalene	0.000	162	0	N.D.			
53) 1-Chloronaphthalene	0.000	162	0	N.D.			
54) 2-Nitroaniline	0.000	65	0	N.D.			
55) 3-Nitroaniline	0.000	138	0	N.D.			
56) Pentachlorobenzene	0.000	250	0	N.D.			
57) 4-Nitroaniline	0.000	138	0	N.D.			
58) 2-Naphthylamine	0.000	143	0	N.D.			
59) 1-Naphthylamine	0.000	143	0	N.D.			
60) Dimethyl phthalate	0.000	163	0	N.D.			
61) Acenaphthylene	0.000	152	0	N.D.	d		
62) 2,6-Dinitrotoluene	0.000	165	0	N.D.			
63) Acenaphthene	0.000	154	0	N.D.			
64) 2,4-Dinitrophenol	0.000	184	0	N.D.			
65) Dibenzofuran	0.000	168	0	N.D.			
66) 4-Nitrophenol	0.000	109	0	N.D.			
67) 2,4-Dinitrotoluene	0.000	165	0	N.D.			
68) 2,3,4,6-Tetrachlorophenol	0.000	232	0	N.D.			
69) Diethyl phthalate	0.000	149	0	N.D.			
70) Fluorene	0.000	166	0	N.D.	d		
71) 4-Chlorophenyl phenyl ether	0.000	204	0	N.D.			
74) 4,6-Dinitro-2-methylphenol	0.000	198	0	N.D.			
75) Azobenzene	0.000	77	0	N.D.	d		
76) 1,2-Diphenylhydrazine	0.000	182	0	N.D.			
77) Diphenylamine	0.000	170	0	N.D.			
78) N-Nitrosodiphenylamine	0.000	168	0	N.D.	d		
79) 4-Bromophenyl phenyl ether	0.000	248	0	N.D.			
80) Phenacetin	0.000	108	0	N.D.	d		
81) Hexachlorobenzene	0.000	284	0	N.D.			
82) Atrazine	0.000	200	0	N.D.			
83) 4-Aminobiphenyl	0.000	169	0	N.D.			
84) Pentachlorophenol	0.000	266	0	N.D.			
85) Pentachloronitrobenzene	0.000	237	0	N.D.			
86) Pronamide	0.000	173	0	N.D.			
87) Phenanthrene	9.459	178	141168	12.63	ng		99
88) Anthracene	0.000	178	0	N.D.	d		
89) Carbazole	9.763	167	38914	3.86	ng		99
90) Di-n-butyl phthalate	0.000	149	0	N.D.	d		
91) Fluoranthene	10.789	202	664442	53.39	ng		97
93) Pyrene	11.035	202	556273	39.71	ng		97
95) Benzidine	0.000	184	0	N.D.	d		
96) p-Dimethylaminoazobenzene	0.000	225	0	N.D.			
97) Butyl benzyl phthalate	0.000	149	0	N.D.	d		
98) Benz(a)anthracene	12.381	228	229302	17.46	ng		84
99) 3,3'-Dichlorobenzidine	0.000	252	0	N.D.	d		
100) Chrysene	12.418	228	551890	40.49	ng		100
101) Bis(2-ethylhexyl)phthalate	12.482	149	22059	2.90	ng	#	93
102) Di-n-octyl phthalate	0.000	149	0	N.D.	d		
103) 3-Methylcholanthrene	0.000	268	0	N.D.	d		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121425.D
Acq On : 14 Dec 2021 2:30 pm
Operator : YH
Sample : 2112G62-009B
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 69 Sample Multiplier: 1

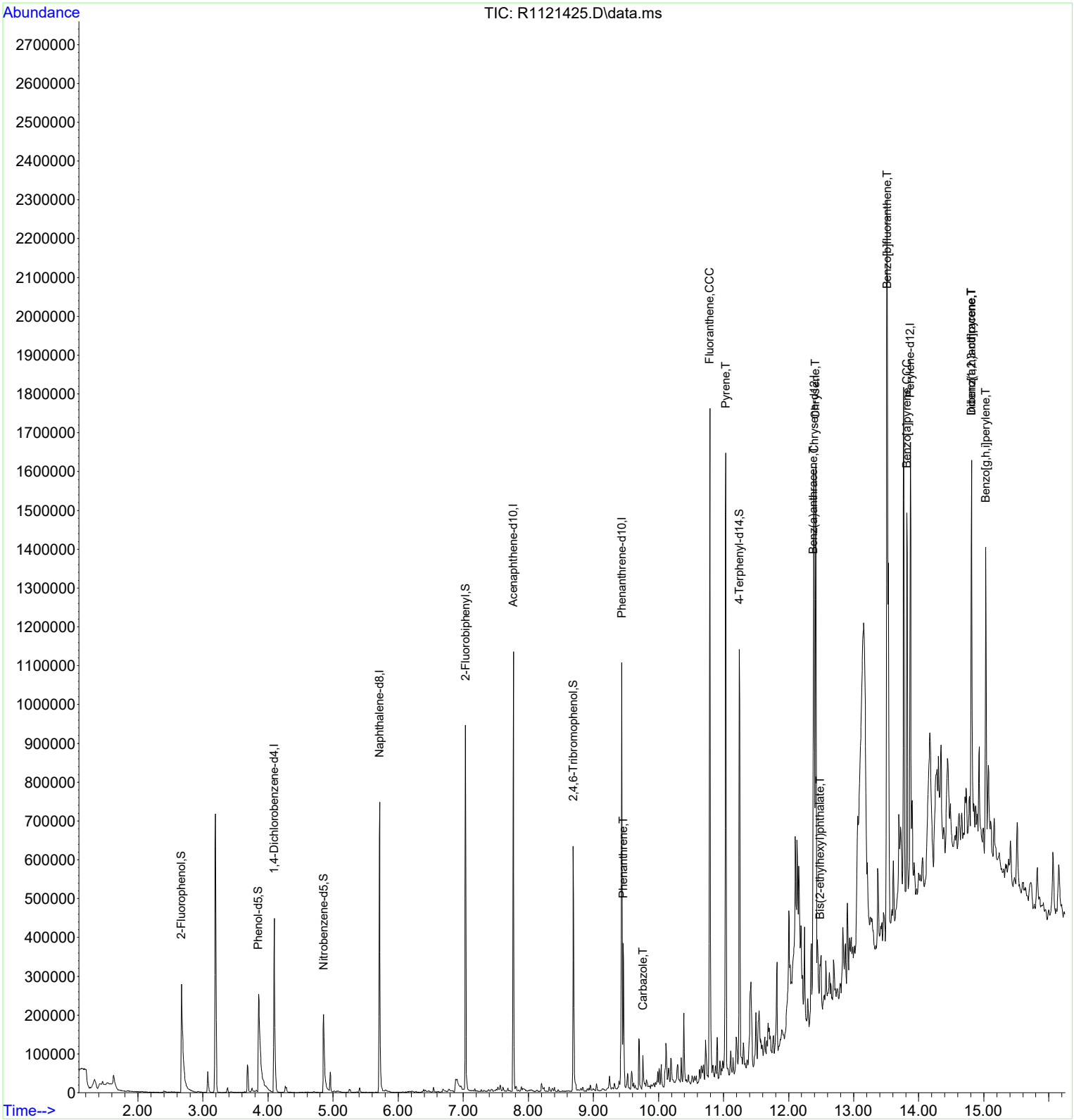
Quant Time: Dec 14 15:00:57 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	14.812	276	346412	22.66	ng	99
106) Benzo[b]fluoranthene	...	13.513	252	1125698	79.29	ng	96
107) Benzo[k]fluoranthene	...	0.000	252	0	N.D.	d	
108) Benzo[a]pyrene	...	13.818	252	399232	32.05	ng	94
109) Dibenz(a,j)acridine	...	0.000	279	0	N.D.	d	
110) Dibenz(a,h)anthracene	...	14.812	278	87170	6.66	ng	80
111) Benzo[g,h,i]perylene	...	15.031	276	322721	24.17	ng	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121425.D
Acq On : 14 Dec 2021 2:30 pm
Operator : YH
Sample : 2112G62-009B
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Dec 14 15:00:57 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121430.D
Acq On : 14 Dec 2021 6:27 pm
Operator : YH
Sample : 2112G62-0006EMS
Misc : MS 8270_TCL4.2_S
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Dec 15 08:46:09 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.091	152	101769	40.00	ng		0.00
23) Naphthalene-d8	...	5.710	136	426693	40.00	ng		0.00
45) Acenaphthene-d10	...	7.772	164	247490	40.00	ng		0.00
73) Phenanthrene-d10	...	9.438	188	459382	40.00	ng		0.00
92) Chrysene-d12	...	12.403	240	445545	40.00	ng		0.01
105) Perylene-d12	...	13.888	264	412234	40.00	ng		0.02
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.670	112	173646	54.69	ng		-0.02
Spiked Amount 100.000	Range 21 - 110		Recovery = 54.69%					
9) Phenol-d5	...	3.850	99	224715	58.29	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 58.29%					
24) Nitrobenzene-d5	...	4.849	82	99950	30.24	ng		-0.01
Spiked Amount 50.000	Range 34 - 114		Recovery = 60.48%					
50) 2-Fluorobiphenyl	...	7.034	172	233003	29.15	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 58.30%					
72) 2,4,6-Tribromophenol	...	8.690	330	68245	71.30	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 71.30%					
94) 4-Terphenyl-d14	...	11.249	244	324776	29.49	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 58.98%					
Target Compounds								Qvalue
2) Pyridine	...	0.000	79	0	N.D.			
3) 2-Picoline	...	0.000	93	0	N.D.			
4) Methyl methanesulfonate	...	0.000	80	0	N.D.			
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.			
7) Benzaldehyde	...	0.000	105	0	N.D.			
8) Aniline	...	0.000	66	0	N.D.			
10) Phenol	...	0.000	94	0	N.D.	d		
11) Bis(2-chloroethyl)ether	...	3.797	93	178472	53.80	ng		95
12) 2-Chlorophenol	...	3.883	128	189198	52.84	ng		97
13) 1,3-Dichlorobenzene	...	4.011	146	222351	54.44	ng		100
14) 1,4-Dichlorobenzene	...	4.112	146	314183	76.11	ng		100
15) 1,2-Dichlorobenzene	...	4.310	146	214308	55.71	ng		99
16) Benzyl alcohol	...	0.000	108	0	N.D.	d		
17) Bis(2-chloroisopropyl)ether	...	4.518	45	182975	52.74	ng		85
18) 2-Methylphenol	...	4.609	107	153813	57.15	ng	#	85
19) 3,4-Methylphenol	...	4.833	107	235804	67.37	ng	#	85
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.			
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D.			
22) Hexachloroethane	...	0.000	117	0	N.D.			
25) Acetophenone	...	0.000	105	0	N.D.			
26) Nitrobenzene	...	4.871	123	96080	51.39	ng		93
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.			
28) Isophorone	...	0.000	82	0	N.D.			
29) 2-Nitrophenol	...	0.000	139	0	N.D.			
30) 2,4-Dimethylphenol	...	5.458	122	180315	54.51	ng		98
31) Bis(2-chloroethoxy)methane	...	5.501	93	245276	57.16	ng		98
32) 2,4-Dichlorophenol	...	5.656	162	167436	52.88	ng		99
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.			
34) Naphthalene	...	5.736	128	630203	56.40	ng		100
35) Benzoic acid	...	0.000	122	0	N.D.	d		
36) 2,6-Dichlorophenol	...	5.886	162	168216	54.54	ng		99
37) 4-Chloroaniline	...	0.000	127	0	N.D.	d		
38) Hexachlorobutadiene	...	5.918	225	165146	81.17	ng		100
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D.			
40) Caprolactam	...	0.000	113	0	N.D.	d		

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121430.D
Acq On : 14 Dec 2021 6:27 pm
Operator : YH
Sample : 2112G62-0006EMS
Misc : MS 8270_TCL4.2_S
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Dec 15 08:46:09 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.591	107	171978	56.91	ng		98
42) N-Nitroso-di-n-butylamine	0.000	84	0	N.D.	d		
43) 2-Methylnaphthalene	0.000	141	0	N.D.	d		
44) 1-Methylnaphthalene	0.000	141	0	N.D.			
46) 1,2,4,5-Tetrachlorobenzene	0.000	216	0	N.D.			
47) Hexachlorocyclopentadiene	0.000	237	0	N.D.			
48) 2,4,6-Trichlorophenol	6.981	196	125757	57.04	ng		97
49) 2,4,5-Trichlorophenol	7.077	196	134177	54.32	ng		97
51) Biphenyl	0.000	154	0	N.D.	d		
52) 2-Chloronaphthalene	0.000	162	0	N.D.			
53) 1-Chloronaphthalene	0.000	162	0	N.D.			
54) 2-Nitroaniline	0.000	65	0	N.D.	d		
55) 3-Nitroaniline	0.000	138	0	N.D.			
56) Pentachlorobenzene	0.000	250	0	N.D.			
57) 4-Nitroaniline	0.000	138	0	N.D.	d		
58) 2-Naphthylamine	0.000	143	0	N.D.	d		
59) 1-Naphthylamine	0.000	143	0	N.D.	d		
60) Dimethyl phthalate	7.542	163	436700	55.87	ng		99
61) Acenaphthylene	7.606	152	633613	58.67	ng		99
62) 2,6-Dinitrotoluene	7.611	165	88062	53.90	ng	#	68
63) Acenaphthene	7.809	154	588795	89.95	ng		98
64) 2,4-Dinitrophenol	0.000	184	0	N.D.			
65) Dibenzofuran	8.012	168	18628	1.85	ng		75
66) 4-Nitrophenol	0.000	109	0	N.D.	d		
67) 2,4-Dinitrotoluene	8.081	165	121510	53.48	ng		90
68) 2,3,4,6-Tetrachlorophenol	8.220	232	106012	61.03	ng		98
69) Diethyl phthalate	8.343	149	464560	61.35	ng		99
70) Fluorene	8.397	166	524675	62.68	ng		99
71) 4-Chlorophenyl phenyl ether	0.000	204	0	N.D.			
74) 4,6-Dinitro-2-methylphenol	0.000	198	0	N.D.	d		
75) Azobenzene	8.600	77	519645	71.17	ng		90
76) 1,2-Diphenylhydrazine	8.600	182	131753	59.03	ng	#	67
77) Diphenylamine	8.578	170	115388	74.17	ng		98
78) N-Nitrosodiphenylamine	8.578	168	543639	74.09	ng		99
79) 4-Bromophenyl phenyl ether	8.963	248	133265	54.00	ng		96
80) Phenacetin	9.006	108	249529	66.43	ng		99
81) Hexachlorobenzene	9.022	284	149450	56.53	ng		97
82) Atrazine	0.000	200	0	N.D.			
83) 4-Aminobiphenyl	0.000	169	0	N.D.	d		
84) Pentachlorophenol	0.000	266	0	N.D.			
85) Pentachloronitrobenzene	9.278	237	48549	50.54	ng		91
86) Pronamide	9.390	173	214523	64.19	ng		99
87) Phenanthrene	9.465	178	1207527	96.50	ng		99
88) Anthracene	9.524	178	885899	70.38	ng		98
89) Carbazole	9.754	167	277008	24.53	ng		98
90) Di-n-butyl phthalate	10.170	149	779367	58.17	ng		99
91) Fluoranthene	10.811	202	3969316	284.97	ng		96
93) Pyrene	11.052	202	3775171	243.66	ng		93
95) Benzidine	0.000	184	0	N.D.	d		
96) p-Dimethylaminoazobenzene	0.000	225	0	N.D.			
97) Butyl benzyl phthalate	0.000	149	0	N.D.	d		
98) Benz(a)anthracene	12.398	228	2627361	180.94	ng		93
99) 3,3'-Dichlorobenzidine	12.398	252	45745	8.65	ng	#	88
100) Chrysene	12.441	228	3040117	201.70	ng		93
101) Bis(2-ethylhexyl)phthalate	12.489	149	555283	65.92	ng		99
102) Di-n-octyl phthalate	13.173	149	501804	35.65	ng		99
103) 3-Methylcholanthrene	0.000	268	0	N.D.	d		

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121430.D
Acq On : 14 Dec 2021 6:27 pm
Operator : YH
Sample : 2112G62-0006EMS
Misc : MS 8270_TCL4.2_S
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Dec 15 08:46:09 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	14.834	276	1226079	72.52	ng	94
106) Benzo[b]fluoranthene	...	13.541	252	3931379	283.77	ng	92
107) Benzo[k]fluoranthene	...	13.557	252	824759	59.77	ng	95
108) Benzo[a]pyrene	...	13.846	252	2064267	169.85	ng	91
109) Dibenz(a,j)acridine	...	0.000	279	0	N.D.	d	
110) Dibenz(a,h)anthracene	...	14.834	278	964933	75.52	ng	95
111) Benzo[g,h,i]perylene	...	15.048	276	994190	76.31	ng	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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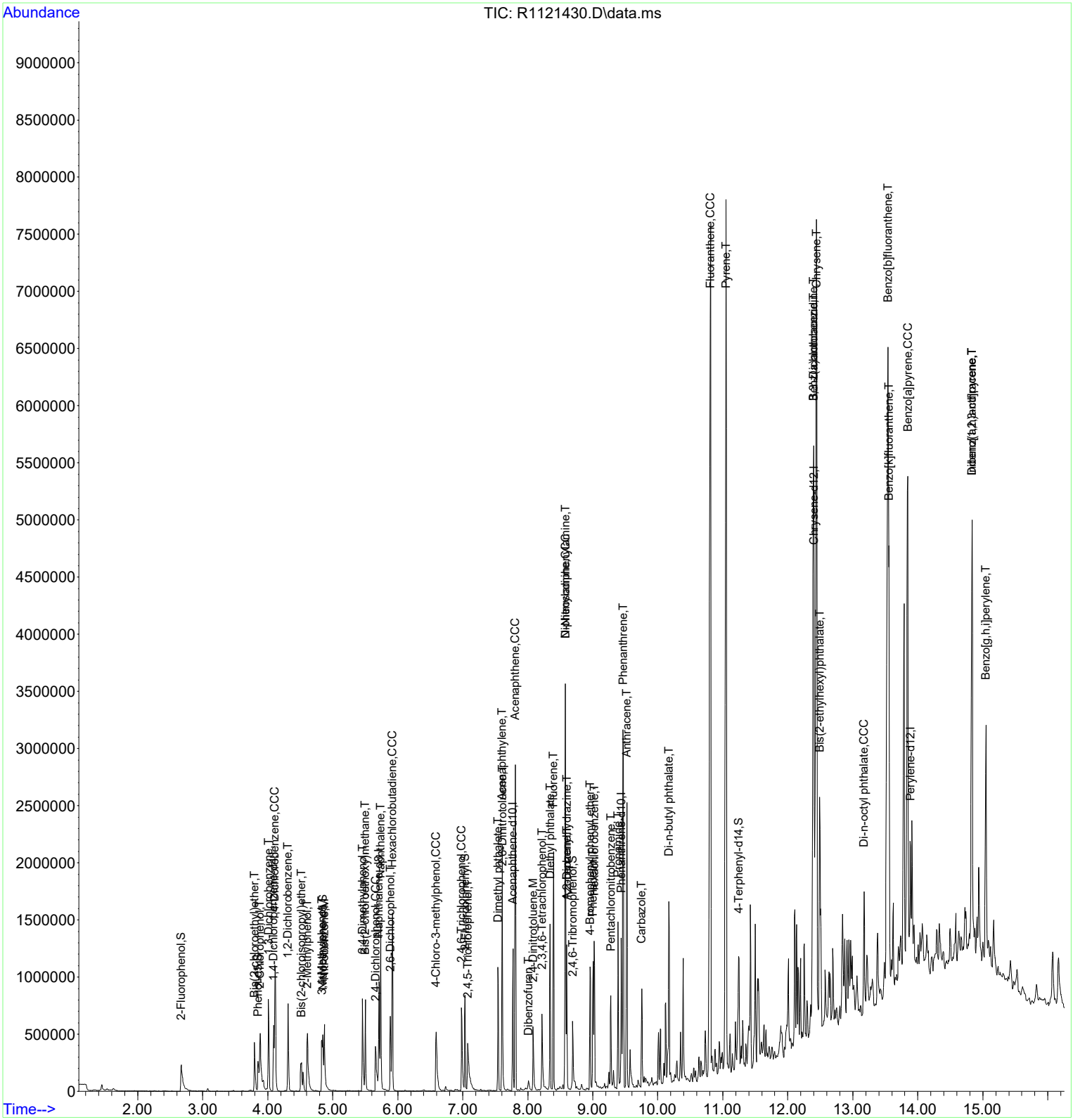
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121430.D
Acq On : 14 Dec 2021 6:27 pm
Operator : YH
Sample : 2112G62-0006EMS
Misc : MS 8270_TCL4.2_S
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Dec 15 08:46:09 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121431.D
Acq On : 14 Dec 2021 6:52 pm
Operator : YH
Sample : 2112G62-0006EMSD
Misc : MSD 8270_TCL4.2_S
ALS Vial : 75 Sample Multiplier: 1

Quant Time: Dec 15 08:49:51 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.095	152	89770	40.00	ng		0.00
23) Naphthalene-d8	...	5.714	136	369063	40.00	ng		0.00
45) Acenaphthene-d10	...	7.771	164	219833	40.00	ng		0.00
73) Phenanthrene-d10	...	9.437	188	402805	40.00	ng		0.00
92) Chrysene-d12	...	12.408	240	388473	40.00	ng		0.02
105) Perylene-d12	...	13.887	264	313886	40.00	ng		0.02
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.674	112	151982	54.27	ng		-0.01
Spiked Amount 100.000	Range 21 - 110		Recovery = 54.27%					
9) Phenol-d5	...	3.855	99	197102	57.96	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 57.96%					
24) Nitrobenzene-d5	...	4.849	82	88557	30.98	ng		-0.01
Spiked Amount 50.000	Range 34 - 114		Recovery = 61.96%					
50) 2-Fluorobiphenyl	...	7.033	172	203056	28.60	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 57.20%					
72) 2,4,6-Tribromophenol	...	8.695	330	59039	69.44	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 69.44%					
94) 4-Terphenyl-d14	...	11.248	244	291194	30.33	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 60.66%					
Target Compounds								Qvalue
2) Pyridine	...	0.000	79	0	N.D.			
3) 2-Picoline	...	0.000	93	0	N.D.			
4) Methyl methanesulfonate	...	0.000	80	0	N.D.			
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.			
7) Benzaldehyde	...	0.000	105	0	N.D.			
8) Aniline	...	0.000	66	0	N.D.	d		
10) Phenol	...	0.000	94	0	N.D.	d		
11) Bis(2-chloroethyl)ether	...	3.796	93	160091	54.71	ng		96
12) 2-Chlorophenol	...	3.887	128	168158	53.24	ng		97
13) 1,3-Dichlorobenzene	...	4.015	146	199481	55.37	ng		100
14) 1,4-Dichlorobenzene	...	4.117	146	282867	77.68	ng		99
15) 1,2-Dichlorobenzene	...	4.314	146	190626	56.18	ng		100
16) Benzyl alcohol	...	0.000	108	0	N.D.	d		
17) Bis(2-chloroisopropyl)ether	...	4.517	45	162783	53.19	ng		84
18) 2-Methylphenol	...	4.608	107	134178	56.52	ng	#	85
19) 3,4-Methylphenol	...	4.833	107	207581	67.23	ng	#	85
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.			
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D.	d		
22) Hexachloroethane	...	0.000	117	0	N.D.			
25) Acetophenone	...	0.000	105	0	N.D.			
26) Nitrobenzene	...	4.870	123	86586	53.55	ng		92
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.			
28) Isophorone	...	0.000	82	0	N.D.			
29) 2-Nitrophenol	...	0.000	139	0	N.D.			
30) 2,4-Dimethylphenol	...	5.458	122	157598	55.09	ng		98
31) Bis(2-chloroethoxy)methane	...	5.500	93	217597	58.63	ng		99
32) 2,4-Dichlorophenol	...	5.661	162	144518	52.77	ng		98
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.			
34) Naphthalene	...	5.735	128	559892	57.93	ng		100
35) Benzoic acid	...	0.000	122	0	N.D.	d		
36) 2,6-Dichlorophenol	...	5.885	162	149979	56.22	ng		98
37) 4-Chloroaniline	...	0.000	127	0	N.D.	d		
38) Hexachlorobutadiene	...	5.917	225	145920	82.92	ng		99
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D.			
40) Caprolactam	...	0.000	113	0	N.D.	d		

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121431.D
Acq On : 14 Dec 2021 6:52 pm
Operator : YH
Sample : 2112G62-0006EMSD
Misc : MSD 8270_TCL4.2_S
ALS Vial : 75 Sample Multiplier: 1

Quant Time: Dec 15 08:49:51 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.595	107	149484	57.19	ng		98
42) N-Nitroso-di-n-butylamine	0.000	84	0	N.D.	d		
43) 2-Methylnaphthalene	0.000	141	0	N.D.	d		
44) 1-Methylnaphthalene	0.000	141	0	N.D.			
46) 1,2,4,5-Tetrachlorobenzene	0.000	216	0	N.D.			
47) Hexachlorocyclopentadiene	0.000	237	0	N.D.			
48) 2,4,6-Trichlorophenol	6.985	196	109863	56.10	ng		97
49) 2,4,5-Trichlorophenol	7.082	196	115409	52.60	ng		98
51) Biphenyl	0.000	154	0	N.D.	d		
52) 2-Chloronaphthalene	0.000	162	0	N.D.			
53) 1-Chloronaphthalene	0.000	162	0	N.D.	d		
54) 2-Nitroaniline	0.000	65	0	N.D.	d		
55) 3-Nitroaniline	0.000	138	0	N.D.			
56) Pentachlorobenzene	0.000	250	0	N.D.			
57) 4-Nitroaniline	0.000	138	0	N.D.	d		
58) 2-Naphthylamine	0.000	143	0	N.D.	d		
59) 1-Naphthylamine	0.000	143	0	N.D.	d		
60) Dimethyl phthalate	7.541	163	375436	54.08	ng		99
61) Acenaphthylene	7.605	152	551101	57.45	ng		100
62) 2,6-Dinitrotoluene	7.610	165	68215	47.00	ng	#	64
63) Acenaphthene	7.808	154	531441	91.41	ng		98
64) 2,4-Dinitrophenol	0.000	184	0	N.D.			
65) Dibenzofuran	8.011	168	19968	2.24	ng		78
66) 4-Nitrophenol	0.000	109	0	N.D.	d		
67) 2,4-Dinitrotoluene	8.086	165	91601	45.39	ng		90
68) 2,3,4,6-Tetrachlorophenol	8.219	232	90029	58.35	ng		99
69) Diethyl phthalate	8.342	149	416205	61.88	ng		98
70) Fluorene	8.396	166	479892	64.54	ng		100
71) 4-Chlorophenyl phenyl ether	0.000	204	0	N.D.			
74) 4,6-Dinitro-2-methylphenol	0.000	198	0	N.D.	d		
75) Azobenzene	8.599	77	440880	68.86	ng		91
76) 1,2-Diphenylhydrazine	8.599	182	114039	58.27	ng	#	71
77) Diphenylamine	8.577	170	101400	74.33	ng		98
78) N-Nitrosodiphenylamine	8.577	168	478357	74.35	ng		100
79) 4-Bromophenyl phenyl ether	8.962	248	116950	54.04	ng		96
80) Phenacetin	9.005	108	218377	66.30	ng		99
81) Hexachlorobenzene	9.026	284	131792	56.85	ng		97
82) Atrazine	0.000	200	0	N.D.			
83) 4-Aminobiphenyl	0.000	169	0	N.D.	d		
84) Pentachlorophenol	0.000	266	0	N.D.	d		
85) Pentachloronitrobenzene	9.277	237	36296	43.09	ng		91
86) Pronamide	9.389	173	188889	64.46	ng		99
87) Phenanthrene	9.470	178	1323678	120.64	ng		99
88) Anthracene	9.523	178	853235	77.31	ng		98
89) Carbazole	9.753	167	286964	28.98	ng		98
90) Di-n-butyl phthalate	10.175	149	689643	58.71	ng		99
91) Fluoranthene	10.816	202	4351488	356.29	ng		96
93) Pyrene	11.056	202	3886283	287.68	ng		93
95) Benzidine	0.000	184	0	N.D.	d		
96) p-Dimethylaminoazobenzene	0.000	225	0	N.D.	d		
97) Butyl benzyl phthalate	0.000	149	0	N.D.	d		
98) Benz(a)anthracene	12.397	228	2538145	200.48	ng		91
99) 3,3'-Dichlorobenzidine	0.000	252	0	N.D.	d		
100) Chrysene	12.445	228	2984616	227.10	ng		93
101) Bis(2-ethylhexyl)phthalate	12.493	149	478080	65.09	ng		98
102) Di-n-octyl phthalate	13.172	149	450525	36.71	ng		100
103) 3-Methylcholanthrene	0.000	268	0	N.D.	d		

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121431.D
Acq On : 14 Dec 2021 6:52 pm
Operator : YH
Sample : 2112G62-0006EMSD
Misc : MSD 8270_TCL4.2_S
ALS Vial : 75 Sample Multiplier: 1

Quant Time: Dec 15 08:49:51 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

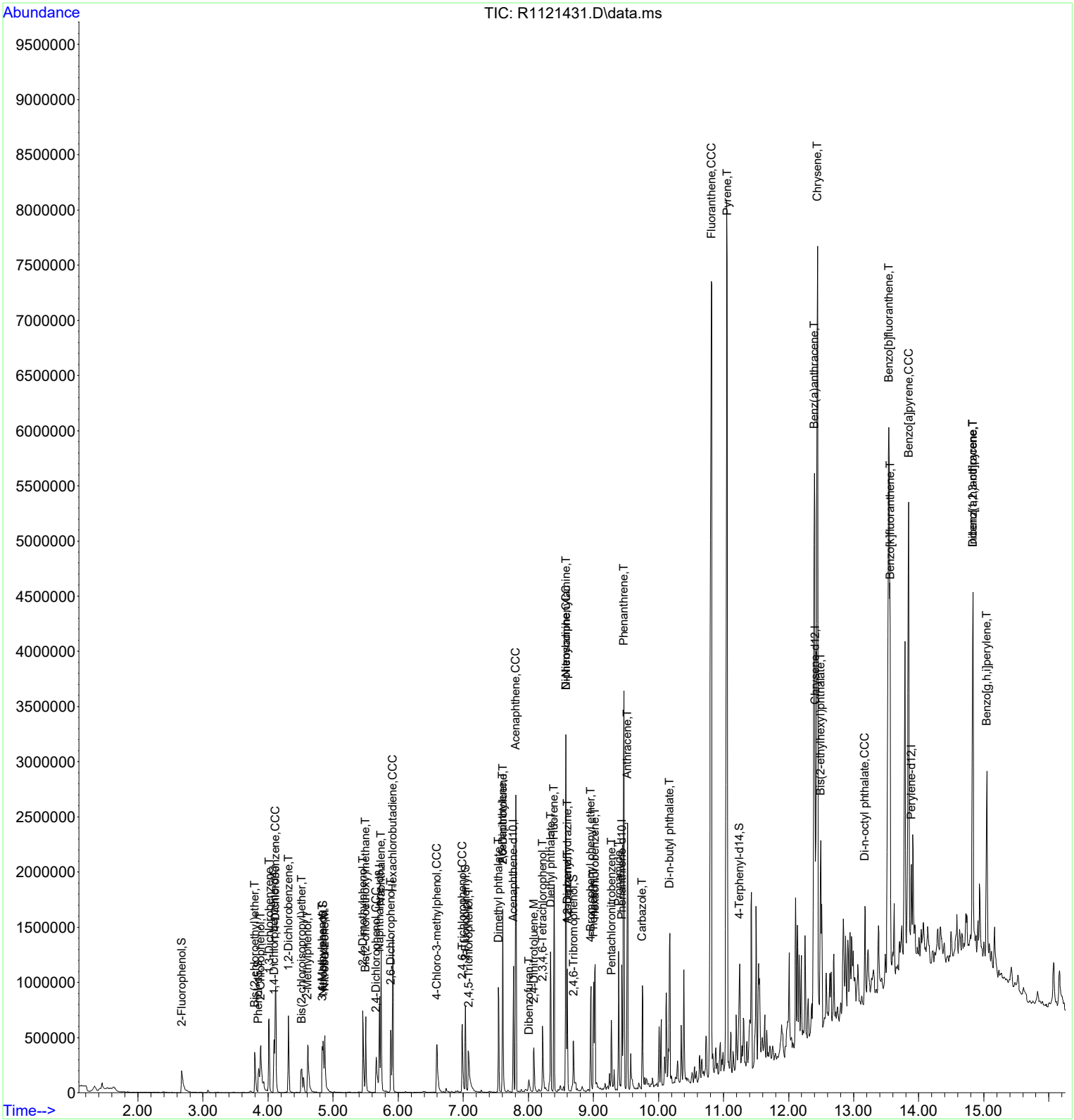
Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	14.833	276	982291	66.63	ng	94
106) Benzo[b]fluoranthene	...	13.540	252	3390449	321.40	ng	95
107) Benzo[k]fluoranthene	...	13.562	252	932968	88.80	ng	92
108) Benzo[a]pyrene	...	13.845	252	1797440	194.23	ng	91
109) Dibenz(a,j)acridine	...	0.000	279	0	N.D.	d	
110) Dibenz(a,h)anthracene	...	14.833	278	560716	57.63	ng	92
111) Benzo[g,h,i]perylene	...	15.047	276	817546	82.41	ng	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121431.D
Acq On : 14 Dec 2021 6:52 pm
Operator : YH
Sample : 2112G62-0006EMSD
Misc : MSD 8270_TCL4.2_S
ALS Vial : 75 Sample Multiplier: 1

Quant Time: Dec 15 08:49:51 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121438.D
Acq On : 14 Dec 2021 6:01 pm
Operator : YH
Sample : 2112G62-006E
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 82 Sample Multiplier: 1

Quant Time: Dec 15 09:20:42 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.095	152	99937	40.00	ng	0.00
23) Naphthalene-d8	...	5.714	136	410598	40.00	ng	0.00
45) Acenaphthene-d10	...	7.771	164	245884	40.00	ng	0.00
73) Phenanthrene-d10	...	9.437	188	454186	40.00	ng	0.00
92) Chrysene-d12	...	12.397	240	435336	40.00	ng	0.00
105) Perylene-d12	...	13.882	264	423626	40.00	ng	0.01
System Monitoring Compounds							
5) 2-Fluorophenol	...	2.674	112	145863	46.78	ng	-0.01
Spiked Amount 100.000	Range 21 - 110		Recovery = 46.78%				
9) Phenol-d5	...	3.855	99	182769	48.28	ng	0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 48.28%				
24) Nitrobenzene-d5	...	4.859	82	85266	26.81	ng	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 53.62%				
50) 2-Fluorobiphenyl	...	7.033	172	207261	26.10	ng	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 52.20%				
72) 2,4,6-Tribromophenol	...	8.690	330	58635	61.66	ng	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 61.66%				
94) 4-Terphenyl-d14	...	11.243	244	287809	26.75	ng	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 53.50%				
Target Compounds							Qvalue
2) Pyridine	...	0.000	79	0			N.D.
3) 2-Picoline	...	0.000	93	0			N.D.
4) Methyl methanesulfonate	...	0.000	80	0			N.D.
6) Ethyl methanesulfonate	...	0.000	79	0			N.D.
7) Benzaldehyde	...	0.000	105	0			N.D.
8) Aniline	...	0.000	66	0			N.D.
10) Phenol	...	0.000	94	0			N.D.
11) Bis(2-chloroethyl)ether	...	0.000	93	0			N.D.
12) 2-Chlorophenol	...	0.000	128	0			N.D.
13) 1,3-Dichlorobenzene	...	0.000	146	0			N.D.
14) 1,4-Dichlorobenzene	...	0.000	146	0			N.D.
15) 1,2-Dichlorobenzene	...	0.000	146	0			N.D.
16) Benzyl alcohol	...	0.000	108	0			N.D.
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0			N.D.
18) 2-Methylphenol	...	0.000	107	0			N.D.
19) 3,4-Methylphenol	...	0.000	107	0			N.D.
20) N-Nitrosodi-n-propylamine	...	0.000	70	0			N.D.
21) N-Nitrosodimethylamine	...	0.000	42	0			N.D.
22) Hexachloroethane	...	0.000	117	0			N.D.
25) Acetophenone	...	0.000	105	0			N.D.
26) Nitrobenzene	...	0.000	123	0			N.D.
27) N-Nitrosopiperidine	...	0.000	114	0			N.D.
28) Isophorone	...	0.000	82	0			N.D.
29) 2-Nitrophenol	...	0.000	139	0			N.D.
30) 2,4-Dimethylphenol	...	0.000	122	0			N.D.
31) Bis(2-chloroethoxy)methane	...	0.000	93	0			N.D.
32) 2,4-Dichlorophenol	...	0.000	162	0			N.D.
33) 1,2,4-Trichlorobenzene	...	0.000	180	0			N.D.
34) Naphthalene	...	0.000	128	0			N.D.
35) Benzoic acid	...	0.000	122	0			N.D.
36) 2,6-Dichlorophenol	...	0.000	162	0			N.D.
37) 4-Chloroaniline	...	0.000	127	0			N.D.
38) Hexachlorobutadiene	...	0.000	225	0			N.D.
39) a,a-Dimethylphenethylamine	...	0.000	58	0			N.D.
40) Caprolactam	...	0.000	113	0			N.D.

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121438.D
Acq On : 14 Dec 2021 6:01 pm
Operator : YH
Sample : 2112G62-006E
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 82 Sample Multiplier: 1

Quant Time: Dec 15 09:20:42 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	0.000	107	0	N.D.			
42) N-Nitroso-di-n-butylamine	0.000	84	0	N.D.			
43) 2-Methylnaphthalene	0.000	141	0	N.D.			
44) 1-Methylnaphthalene	0.000	141	0	N.D.			
46) 1,2,4,5-Tetrachlorobenzene	0.000	216	0	N.D.			
47) Hexachlorocyclopentadiene	0.000	237	0	N.D.			
48) 2,4,6-Trichlorophenol	0.000	196	0	N.D.			
49) 2,4,5-Trichlorophenol	0.000	196	0	N.D.			
51) Biphenyl	0.000	154	0	N.D.			
52) 2-Chloronaphthalene	0.000	162	0	N.D.			
53) 1-Chloronaphthalene	0.000	162	0	N.D.			
54) 2-Nitroaniline	0.000	65	0	N.D.			
55) 3-Nitroaniline	0.000	138	0	N.D.			
56) Pentachlorobenzene	0.000	250	0	N.D.			
57) 4-Nitroaniline	0.000	138	0	N.D.			
58) 2-Naphthylamine	0.000	143	0	N.D.			
59) 1-Naphthylamine	0.000	143	0	N.D.			
60) Dimethyl phthalate	0.000	163	0	N.D.	d		
61) Acenaphthylene	0.000	152	0	N.D.	d		
62) 2,6-Dinitrotoluene	0.000	165	0	N.D.			
63) Acenaphthene	7.803	154	19945	3.07	ng		97
64) 2,4-Dinitrophenol	0.000	184	0	N.D.			
65) Dibenzofuran	0.000	168	0	N.D.	d		
66) 4-Nitrophenol	0.000	109	0	N.D.			
67) 2,4-Dinitrotoluene	0.000	165	0	N.D.			
68) 2,3,4,6-Tetrachlorophenol	0.000	232	0	N.D.			
69) Diethyl phthalate	0.000	149	0	N.D.			
70) Fluorene	8.396	166	36320	4.37	ng		99
71) 4-Chlorophenyl phenyl ether	0.000	204	0	N.D.			
74) 4,6-Dinitro-2-methylphenol	0.000	198	0	N.D.			
75) Azobenzene	0.000	77	0	N.D.			
76) 1,2-Diphenylhydrazine	0.000	182	0	N.D.	d		
77) Diphenylamine	0.000	170	0	N.D.			
78) N-Nitrosodiphenylamine	0.000	168	0	N.D.	d		
79) 4-Bromophenyl phenyl ether	0.000	248	0	N.D.			
80) Phenacetin	0.000	108	0	N.D.			
81) Hexachlorobenzene	0.000	284	0	N.D.			
82) Atrazine	0.000	200	0	N.D.			
83) 4-Aminobiphenyl	0.000	169	0	N.D.			
84) Pentachlorophenol	0.000	266	0	N.D.			
85) Pentachloronitrobenzene	0.000	237	0	N.D.			
86) Pronamide	0.000	173	0	N.D.			
87) Phenanthrene	9.464	178	1205876	97.47	ng		99
88) Anthracene	9.523	178	170280	13.68	ng		92
89) Carbazole	9.753	167	235033	21.05	ng		98
90) Di-n-butyl phthalate	0.000	149	0	N.D.	d		
91) Fluoranthene	10.805	202	3673960	266.78	ng		96
93) Pyrene	11.051	202	3012338	198.98	ng		93
95) Benzidine	0.000	184	0	N.D.	d		
96) p-Dimethylaminoazobenzene	0.000	225	0	N.D.			
97) Butyl benzyl phthalate	0.000	149	0	N.D.	d		
98) Benz(a)anthracene	12.386	228	1621289	114.28	ng		89
99) 3,3'-Dichlorobenzidine	0.000	252	0	N.D.	d		
100) Chrysene	12.434	228	2296860	155.96	ng		95
101) Bis(2-ethylhexyl)phthalate	12.488	149	47233	5.74	ng	#	95
102) Di-n-octyl phthalate	0.000	149	0	N.D.	d		
103) 3-Methylcholanthrene	0.000	268	0	N.D.	d		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121438.D
Acq On : 14 Dec 2021 6:01 pm
Operator : YH
Sample : 2112G62-006E
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 82 Sample Multiplier: 1

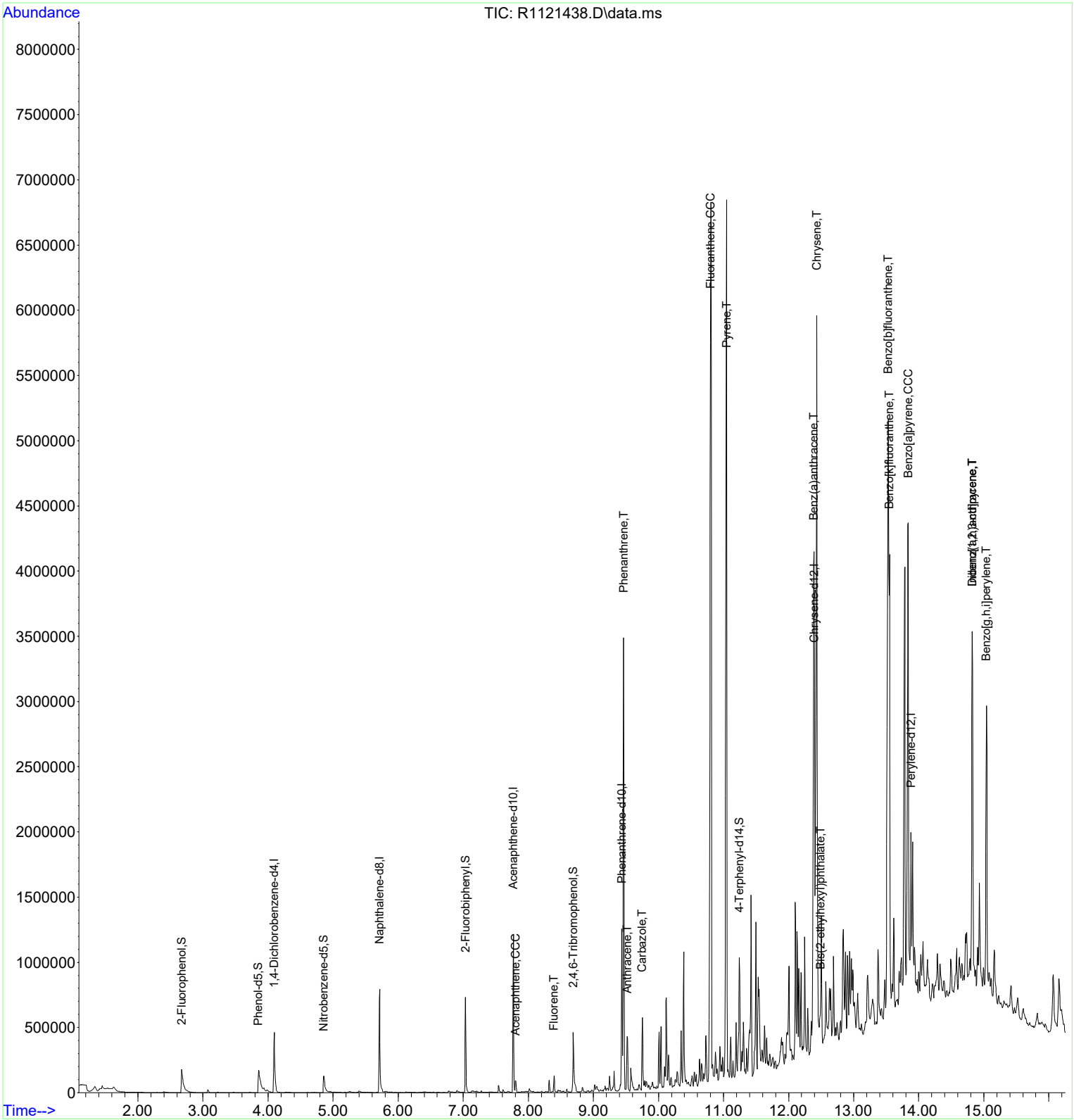
Quant Time: Dec 15 09:20:42 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
104) Indeno[1,2,3-cd]pyrene	14.822	276	1073509	64.98	ng		97
106) Benzo[b]fluoranthene	13.530	252	3144760	220.89	ng		95
107) Benzo[k]fluoranthene	13.551	252	791050	55.79	ng		92
108) Benzo[a]pyrene	13.839	252	1712315	137.10	ng		93
109) Dibenz(a,j)acridine	0.000	279	0	N.D.	d		
110) Dibenz(a,h)anthracene	14.822	278	304142	23.16	ng	#	71
111) Benzo[g,h,i]perylene	15.041	276	1003141	74.93	ng		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\R211214\
Data File : R1121438.D
Acq On : 14 Dec 2021 6:01 pm
Operator : YH
Sample : 2112G62-006E
Misc : SAMP 8270_TCL4.2_S
ALS Vial : 82 Sample Multiplier: 1

Quant Time: Dec 15 09:20:42 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Tue Dec 07 12:24:16 2021
Response via : Initial Calibration



Injection Log

Directory: C:\MS-9\New\Raw Data\S210402

Line	Vial	FileName	Multiplier	SampleName		Misc Info	Injected
1	1	S21040201.D	1.	SIM2		ICV 8270_SIM_PAH_W	2 Apr 2021 10:27
2	1	S21040202.D	1.	SIM2		ICV 8270_SIM_PAH_W	2 Apr 2021 10:53
3	1	S21040203.D	1.	SIM2		ICV 8270_SIM_PAH_W	2 Apr 2021 11:18
4	1	S21040204.D	1.	SIM2		ICV 8270_SIM_PAH_W	2 Apr 2021 11:50
5	2	S21040205.D	1.	SIM3		ICV 8270_SIM_PAH_W	2 Apr 2021 12:15
6	3	S21040206.D	1.	BNA60		CCV 8270C_W	2 Apr 2021 12:42
7		S21040207.D	1.				
8	3	S21040208.D	1.	BNA60		CCV 8270C_W	2 Apr 2021 13:26
9	4	S21040209.D	1.	BNA10	973-73/	ICAL 8270C_W	2 Apr 2021 13:52
10	1	S21040210.D	1.	DFTPP		TUNE DFTPP_4	2 Apr 2021 14:37
11	4	S21040211.D	1.	BNA10	973-73/	ICAL 8270C_W	2 Apr 2021 15:03
12	5	S21040212.D	1.	BNA20	973-73/	ICAL 8270C_W	2 Apr 2021 15:30
13	6	S21040213.D	1.	BNA40	973-73/	ICAL 8270C_W	2 Apr 2021 15:56
14	7	S21040214.D	1.	BNA60	973-73/	ICAL 8270C_W	2 Apr 2021 16:22
15	8	S21040215.D	1.	BNA80	973-73/	ICAL 8270C_W	2 Apr 2021 16:48
16	9	S21040216.D	1.	BNA120	973-73/	ICAL 8270C_W	2 Apr 2021 17:13
17	10	S21040217.D	1.	BNA160	973-73/	ICAL 8270C_W	2 Apr 2021 17:40
18	11	S21040218.D	1.	BNA5	973-73/	ICAL 8270C_W	2 Apr 2021 18:06
19	12	S21040219.D	1.	934-97SURR		ICAL 8270C_W	2 Apr 2021 18:31

Area Percent Report

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040210.D
Acq On : 2 Apr 2021 2:37 pm
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 30000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MS-9\New\Calculation Methods\DFTPP.M
Title :

Signal : TIC: S21040210.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.143	5	56	58	rBV3	154881	833757	30.01%	8.798%
2	1.637	222	230	261	rVB2	37003	64993	2.34%	0.686%
3	3.888	1014	1023	1034	rBV2	44257	42992	1.55%	0.454%
4	5.390	1543	1552	1561	rBV	37334	31193	1.12%	0.329%
5	9.306	2919	2932	2953	rBV	1668112	1684739	60.65%	17.778%
6	9.936	3143	3154	3165	rVB2	1730906	1476046	53.13%	15.576%
7	10.828	3459	3468	3478	rBV5	47985	41585	1.50%	0.439%
8	11.032	3520	3540	3567	rBV	1941134	2777993	100.00%	29.314%
9	11.952	3847	3864	3877	rBV	2605397	2523293	90.83%	26.627%

Sum of corrected areas: 9476591

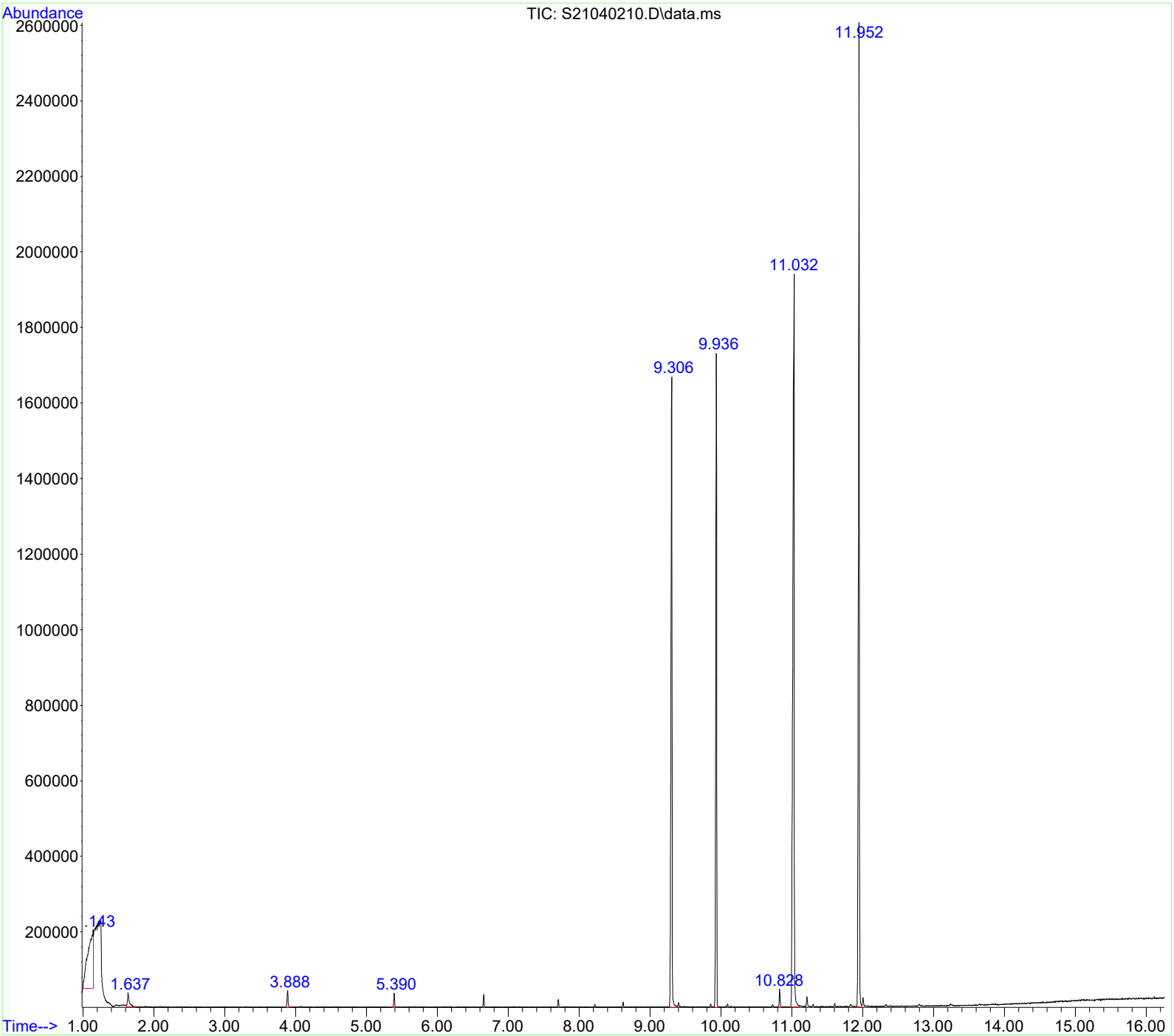
Area Percent Report

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040210.D
Acq On : 2 Apr 2021 2:37 pm
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 30000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MS-9\New\Calculation Methods\DFTPP.M
Title :



Library Search Report

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040210.D
Acq On : 2 Apr 2021 2:37 pm
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: C:\Database\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex minus start of peak
Integration Events: RTE Integrator - RTEINT.P

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.143	8.80	C:\Database\NIST14.L			
			Methylene chloride	1541	000075-09-2	94
			Methylene chloride	1542	000075-09-2	91
			Methylene chloride	1545	000075-09-2	91
2	1.637	0.69	C:\Database\NIST14.L			
			Toluene	2481	000108-88-3	93
			Toluene	2482	000108-88-3	93
			Toluene	2478	000108-88-3	93
3	3.888	0.45	C:\Database\NIST14.L			
			Cyclotetrasiloxane, octamethyl-	155950	000556-67-2	91
			Cyclotetrasiloxane, octamethyl-	155952	000556-67-2	86
			Benzoic acid, 4-methyl-2-trimethyl silyloxy-, trimethylsilyl ester	155035	000035-27-8	59
4	5.390	0.33	C:\Database\NIST14.L			
			Cyclopentasiloxane, decamethyl-	220036	000541-02-6	78
			3-Amino-2-phenazinol ditms	209406	1000332-15-5	53
			2,5-Dihydroxybenzoic acid, 3TMS derivative	220200	003618-20-0	43
5	9.306	17.78	C:\Database\NIST14.L			
			Phenol, pentachloro-	125064	000087-86-5	99
			Phenol, pentachloro-	125062	000087-86-5	99
			Phenol, pentachloro-	125061	000087-86-5	96
6	9.936	15.58	C:\Database\NIST14.L			
			Bis(pentafluorophenyl)phenyl phosphine	254406	005074-71-5	99
			Bis(pentafluorophenyl)phenyl phosphine	254407	005074-71-5	70
			Benzenemethanol, 3,4,5-trimethoxy-	62898	003840-31-1	16
7	10.828	0.44	C:\Database\NIST14.L			
			Benzaldehyde, 4-methoxy-, (4-nitrophenyl)hydrazone	131354	005880-63-7	27
			10-Prop(1')enyl-phenothiazine-5,5-dioxide	131483	027127-71-5	14
			3-Methyl-1-phenyl-2-azafluorenone	131787	062578-45-4	14
8	11.032	29.31	C:\Database\NIST14.L			
			Benzidine	51192	000092-87-5	97
			Benzidine	51188	000092-87-5	96
			Benzidine	51190	000092-87-5	95
9	11.952	26.63	C:\Database\NIST14.L			
			1,1-Dichloro-2,2-bis(p-chlorophenyl)ethane	176319	000072-54-8	91
			o,p'-DDT	206676	000789-02-6	91
			1,1-Dichloro-2,2-bis(p-chlorophenyl)ethane	176322	000072-54-8	91

Library Search Report

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040210.D
Acq On : 2 Apr 2021 2:37 pm
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: C:\Database\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex minus start of peak
Integration Events: RTE Integrator - RTEINT.P

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.143	8.80	C:\Database\NIST14.L			
			Methylene chloride	1541	000075-09-2	94
			Methylene chloride	1542	000075-09-2	91
			Methylene chloride	1545	000075-09-2	91
2	1.637	0.69	C:\Database\NIST14.L			
			Toluene	2481	000108-88-3	93
			Toluene	2482	000108-88-3	93
			Toluene	2478	000108-88-3	93
3	3.888	0.45	C:\Database\NIST14.L			
			Cyclotetrasiloxane, octamethyl-	155950	000556-67-2	91
			Cyclotetrasiloxane, octamethyl-	155952	000556-67-2	86
			Benzoic acid, 4-methyl-2-trimethyl silyloxy-, trimethylsilyl ester	155035	000035-27-8	59
4	5.390	0.33	C:\Database\NIST14.L			
			Cyclopentasiloxane, decamethyl-	220036	000541-02-6	78
			3-Amino-2-phenazinol ditms	209406	1000332-15-5	53
			2,5-Dihydroxybenzoic acid, 3TMS derivative	220200	003618-20-0	43
5	9.306	17.78	C:\Database\NIST14.L			
			Phenol, pentachloro-	125064	000087-86-5	99
			Phenol, pentachloro-	125062	000087-86-5	99
			Phenol, pentachloro-	125061	000087-86-5	96
6	9.936	15.58	C:\Database\NIST14.L			
			Bis(pentafluorophenyl)phenyl phosphine	254406	005074-71-5	99
			Bis(pentafluorophenyl)phenyl phosphine	254407	005074-71-5	70
			Benzenemethanol, 3,4,5-trimethoxy-	62898	003840-31-1	16
7	10.828	0.44	C:\Database\NIST14.L			
			Benzaldehyde, 4-methoxy-, (4-nitrophenyl)hydrazone	131354	005880-63-7	27
			10-Prop(1')enyl-phenothiazine-5,5-dioxide	131483	027127-71-5	14
			3-Methyl-1-phenyl-2-azafluorenone	131787	062578-45-4	14
8	11.032	29.31	C:\Database\NIST14.L			
			Benzidine	51192	000092-87-5	97
			Benzidine	51188	000092-87-5	96
			Benzidine	51190	000092-87-5	95
9	11.952	26.63	C:\Database\NIST14.L			
			1,1-Dichloro-2,2-bis(p-chlorophenyl)ethane	176319	000072-54-8	91
			o,p'-DDT	206676	000789-02-6	91
			1,1-Dichloro-2,2-bis(p-chlorophenyl)ethane	176322	000072-54-8	91

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040210.D
Acq On : 2 Apr 2021 2:37 pm
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MS-9\New\Calculation Methods\DFTPP.M
Title :
Last Update : Mon Oct 15 09:26:34 1990

AutoFind: Scans 3153, 3154, 3155; Background Corrected with Scan 3142

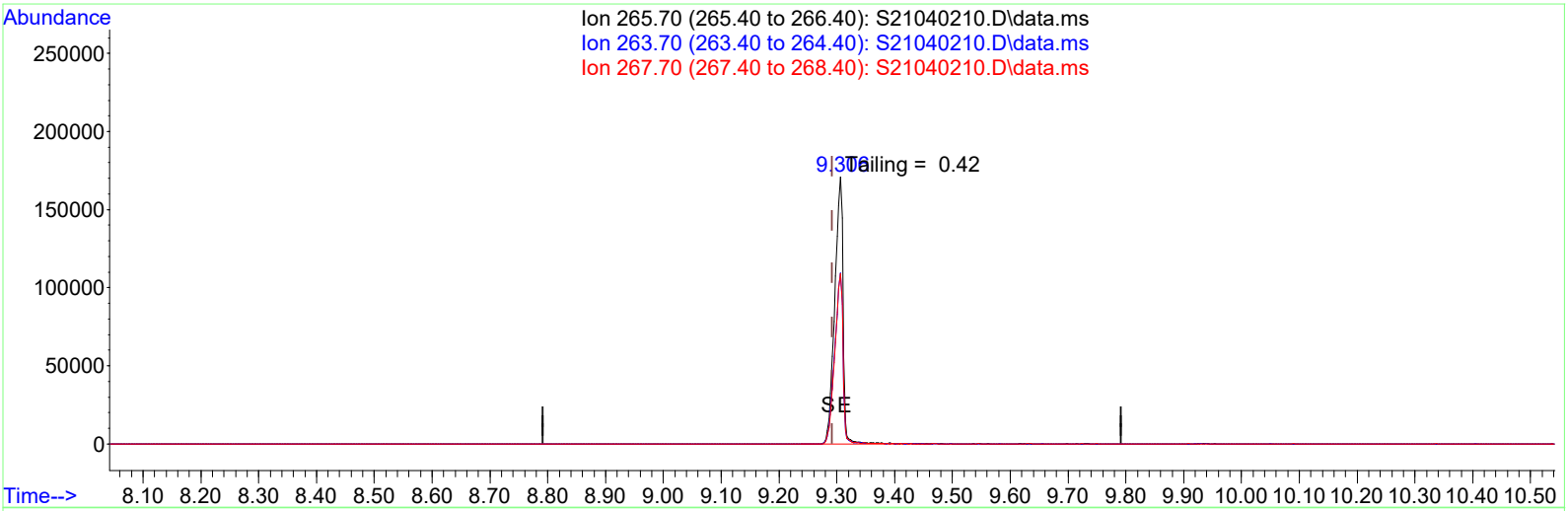
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	51.8	90328	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	47.6	83069	PASS
70	69	0.00	2	0.3	281	PASS
127	198	40	60	54.7	95493	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	174464	PASS
199	198	5	9	6.5	11310	PASS
275	198	10	30	21.0	36592	PASS
365	198	1	100	2.4	4209	PASS
441	443	0.01	100	92.1	19317	PASS
442	198	40	100	65.4	114168	PASS
443	442	17	23	18.4	20968	PASS

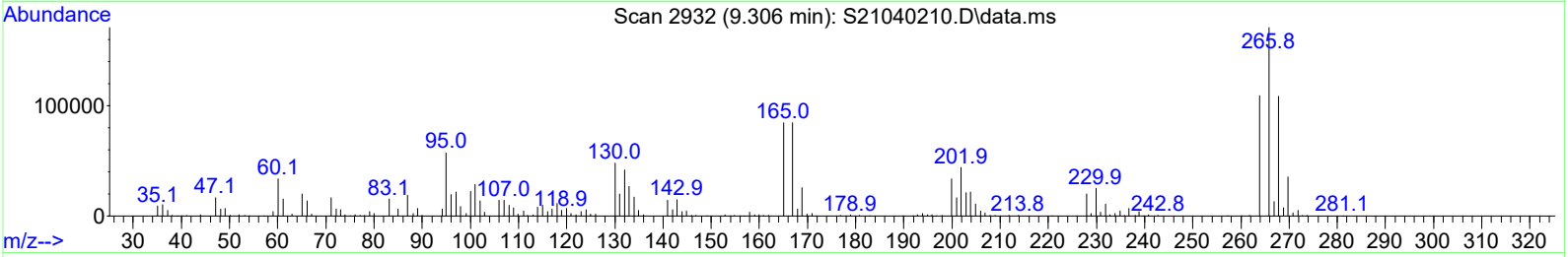
DFTPP.M Wed Apr 07 09:45:41 2021

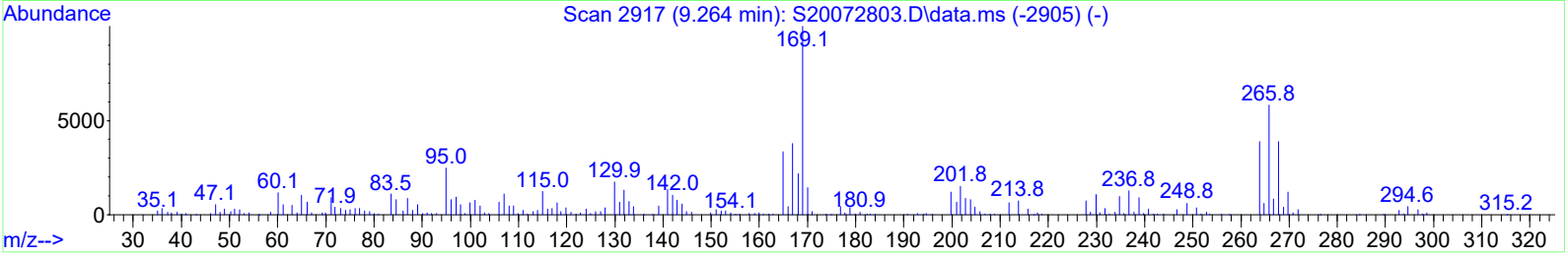
Quantitation Report (Qedit)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040210.D
Acq On : 2 Apr 2021 2:37 pm
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 07 09:42:30 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration







TIC: S21040210.D\data.ms

(84) Pentachlorophenol (P)

9.306min (+ 0.014) 0.00 ng

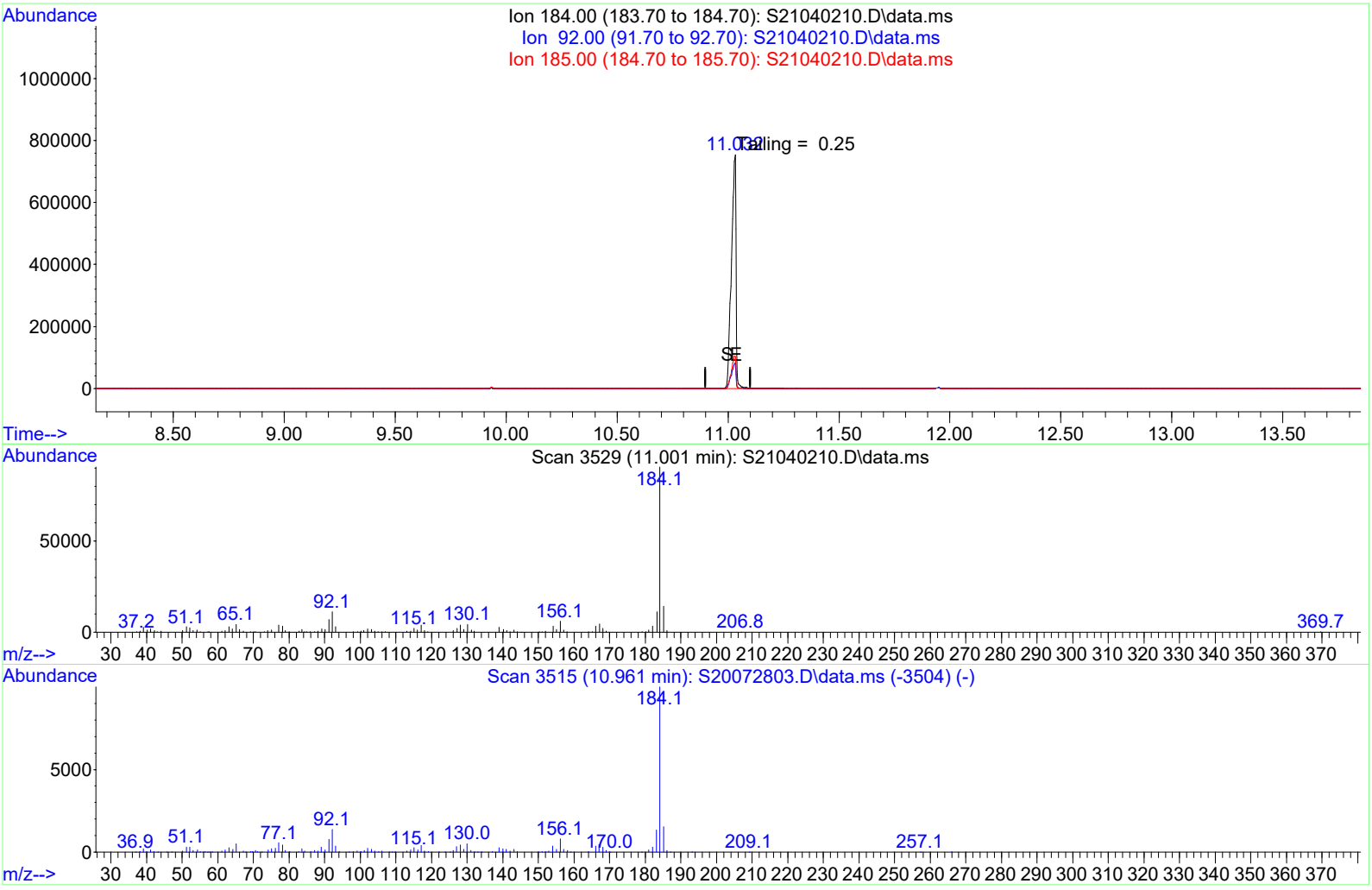
response 169573

Ion	Exp%	Act%
265.70	100.00	100.00
263.70	63.20	63.73
267.70	62.20	63.44
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040210.D
Acq On : 2 Apr 2021 2:37 pm
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 07 09:42:30 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration



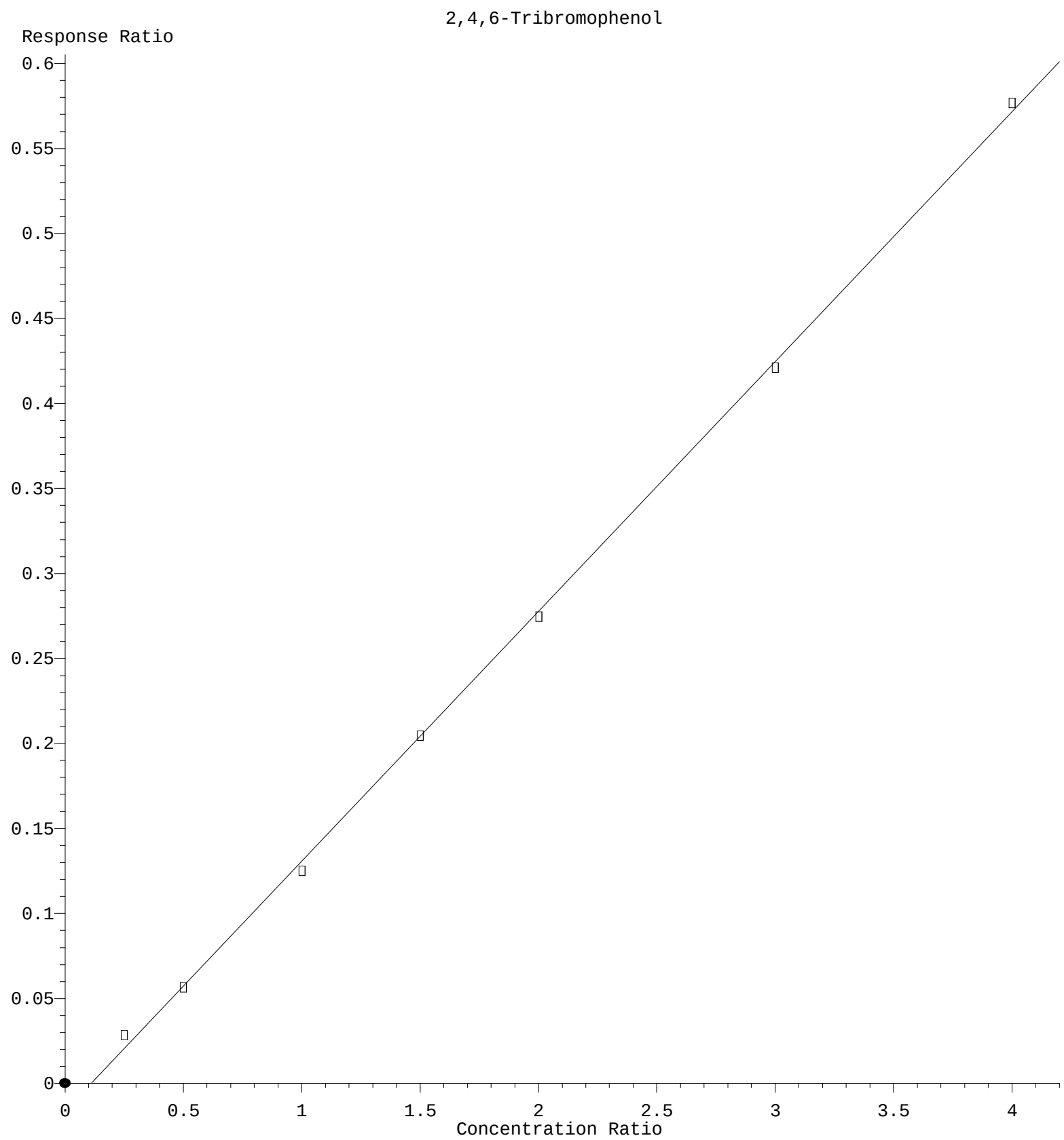
TIC: S21040210.D\data.ms

(95) Benzidine (T)

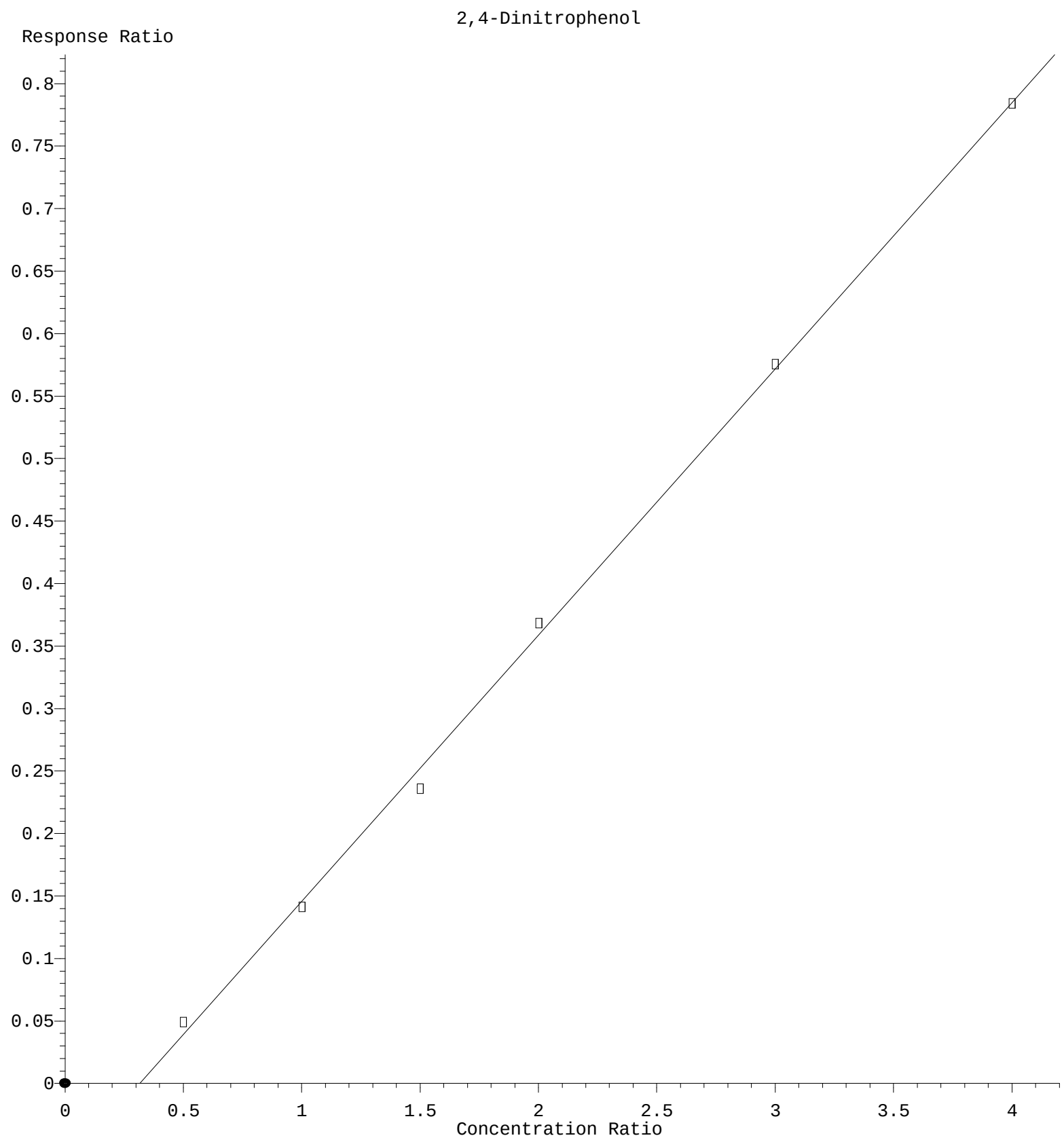
11.001min (-11.001) 0.00 ng

response 0

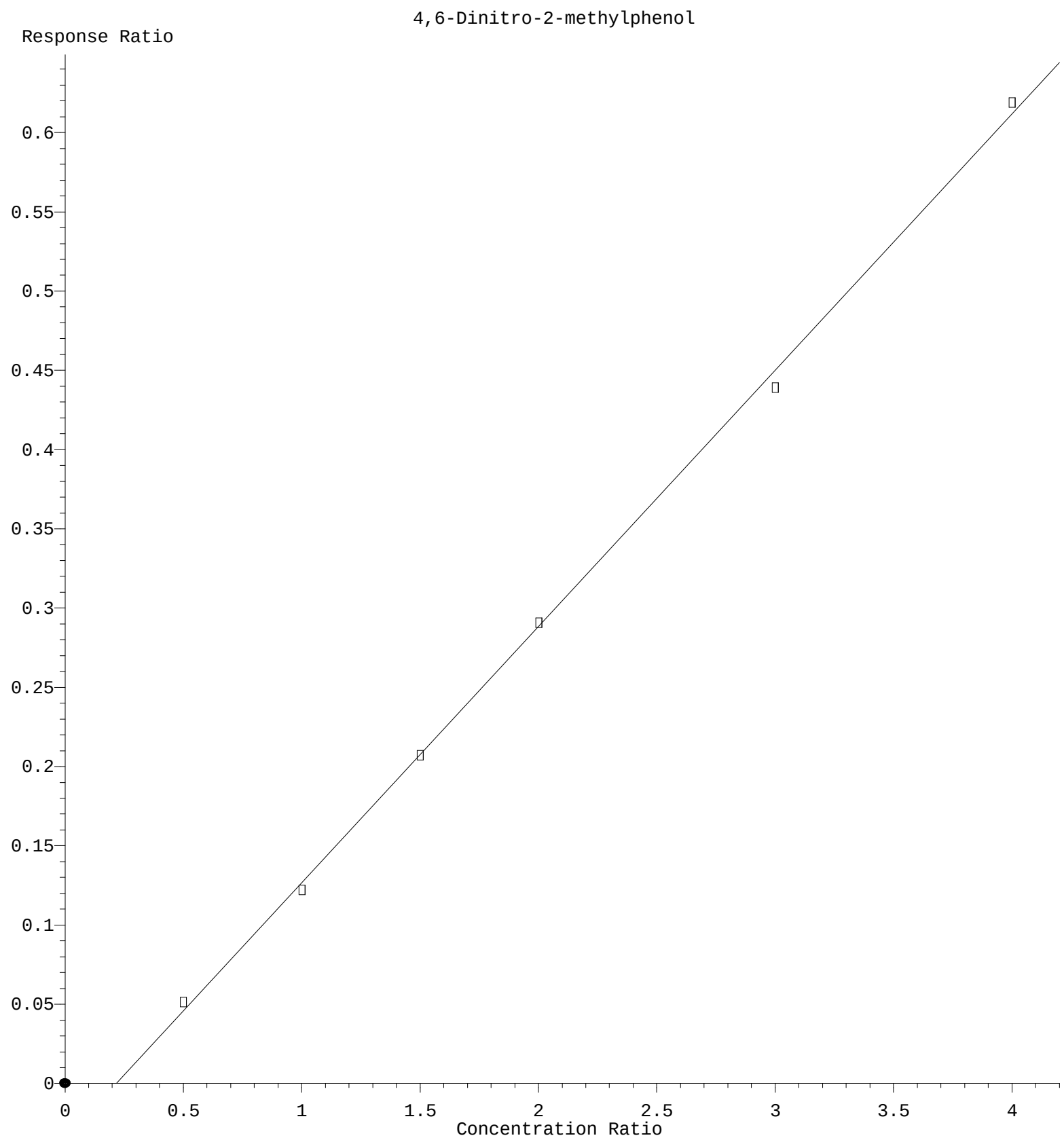
Ion	Exp%	Act%
184.00	100.00	0.00
92.00	10.50	0.00
185.00	14.30	0.00
0.00	0.00	0.00



Response = 1.47e-001 * Amt - 1.61e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear
Method Name: C:\MS-9\New\Calculation Methods\B040221.M
Calibration Table Last Updated: Wed Apr 07 09:26:46 2021



Response = 2.13e-001 * Amt - 6.72e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear
Method Name: C:\MS-9\New\Calculation Methods\B040221.M
Calibration Table Last Updated: Wed Apr 07 09:26:46 2021



Response = 1.62e-001 * Amt - 3.51e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear
Method Name: C:\MS-9\New\Calculation Methods\B040221.M
Calibration Table Last Updated: Wed Apr 07 09:26:46 2021

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040211.D
Acq On : 2 Apr 2021 3:03 pm
Operator : yh
Sample : BNA10 973-73/
Misc : ICAL 8270C_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 07 08:56:50 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:55:09 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	100	0.00
2		Pyridine	10.000	9.956	0.4	100	0.00
3	T	2-Picoline	10.000	9.680	3.2	100	0.00
4	T	Methyl methanesulfonate	10.000	9.581	4.2	100	-0.01
5	S	2-Fluorophenol	10.000	9.147	8.5	100	-0.01
6	T	Ethyl methanesulfonate	10.000	9.670	3.3	100	-0.02
7	P	Benzaldehyde	10.000	9.787	2.1	100	0.00
8	T	Aniline	10.000	9.399	6.0	100	-0.02
9	S	Phenol-d5	10.000	10.105	-1.1	100	-0.03
10	P	Phenol	10.000	10.170	-1.7	100	-0.04
11	P	Bis(2-chloroethyl)ether	10.000	10.118	-1.2	100	-0.02
12	P	2-Chlorophenol	10.000	9.744	2.6	100	-0.02
13	T	1,3-Dichlorobenzene	10.000	9.696	3.0	100	0.00
14	CCC	1,4-Dichlorobenzene	10.000	10.193	-1.9	100	0.00
15	T	1,2-Dichlorobenzene	10.000	9.657	3.4	100	0.00
16	T	Benzyl alcohol	10.000	9.650	3.5	100	-0.03
17	T	Bis(2-chloroisopropyl)ether	10.000	10.387	-3.9	100	0.00
18	P	2-Methylphenol	10.000	9.473	5.3	100	-0.03
19	T	3,4-Methylphenol	20.000	18.787	6.1	100	-0.04
20	PC	N-Nitrosodi-n-propylamine	10.000	11.068	-10.7	100	-0.03
21	T	N-Nitrosodimethylamine	10.000	9.953	0.5	100	0.00
22	T	Hexachloroethane	10.000	10.108	-1.1	100	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	100	0.00
24	S	Nitrobenzene-d5	10.000	9.974	0.3	100	-0.02
25	P	Acetophenone	20.000	19.924	0.4	100	-0.03
26	P	Nitrobenzene	10.000	10.166	-1.7	100	-0.03
27	T	N-Nitrosopiperidine	10.000	10.433	-4.3	100	-0.03
28	P	Isophorone	10.000	10.012	-0.1	100	-0.03
29	P	2-Nitrophenol	10.000	9.023	9.8	100	-0.02
30	P	2,4-Dimethylphenol	10.000	9.815	1.9	100	-0.03
31	P	Bis(2-chloroethoxy)methane	10.000	10.029	-0.3	100	-0.02
32	P	2,4-Dichlorophenol	10.000	10.023	-0.2	100	-0.02
33	T	1,2,4-Trichlorobenzene	10.000	10.236	-2.4	100	-0.01
34	P	Naphthalene	10.000	10.071	-0.7	100	-0.01
35	T	Benzoic acid	-1.000	13.898	0.0	100	-0.14
36	T	2,6-Dichlorophenol	10.000	9.902	1.0	100	-0.01
37	P	4-Chloroaniline	10.000	9.364	6.4	100	-0.02
38	P	Hexachlorobutadiene	10.000	9.747	2.5	100	0.00
39	T	a,a-Dimethylphenethylamine	10.000	9.607	3.9	100	-0.39
40	P	Caprolactam	10.000	9.149	8.5	100	-0.15
41	P	4-Chloro-3-methylphenol	10.000	9.327	6.7	100	-0.04
42	T	N-Nitrosodi-n-butylamine	10.000	8.839	11.6	100	-0.03
43	P	2-Methylnaphthalene	10.000	10.065	-0.6	100	-0.01
44	T	1-Methylnaphthalene	10.000	9.701	3.0	100	-0.01
45	I	Acenaphthene-d10	40.000	40.000	0.0	100	0.00
46	T	1,2,4,5-Tetrachlorobenzene	10.000	10.427	-4.3	100	-0.01
47	P	Hexachlorocyclopentadiene	10.000	9.073	9.3	100	0.00
48	P	2,4,6-Trichlorophenol	10.000	8.505	14.9	100	-0.02
49	P	2,4,5-Trichlorophenol	10.000	9.180	8.2	100	-0.03
50	S	2-Fluorobiphenyl	10.000	9.798	2.0	100	-0.01
51		Biphenyl	10.000	9.884	1.2	100	-0.02

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040211.D
Acq On : 2 Apr 2021 3:03 pm
Operator : yh
Sample : BNA10 973-73/
Misc : ICAL 8270C_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 07 08:56:50 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:55:09 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	P	2-Chloronaphthalene	10.000	9.595	4.0	100	-0.02
53	T	1-Chloronaphthalene	10.000	10.553	-5.5	100	-0.02
54	P	2-Nitroaniline	10.000	9.336	6.6	100	-0.02
55	P	3-Nitroaniline	10.000	9.060	9.4	100	-0.03
56	T	Pentachlorobenzene	10.000	9.451	5.5	100	-0.01
57	T	4-Nitroaniline	10.000	9.670	3.3	100	-0.06
58	T	2-Naphthylamine	10.000	10.115	-1.2	100	-0.02
59	T	1-Naphthylamine	10.000	9.918	0.8	100	-0.03
60	P	Dimethyl phthalate	10.000	9.777	2.2	100	-0.02
61	P	Acenaphthylene	10.000	9.641	3.6	100	-0.01
62	P	2,6-Dinitrotoluene	10.000	9.038	9.6	100	-0.03
63	P	Acenaphthene	10.000	9.820	1.8	100	-0.02
64	P	2,4-Dinitrophenol	-1.000	16.895	0.0	100	-0.04
65	P	Dibenzofuran	10.000	10.041	-0.4	100	-0.02
66	P	4-Nitrophenol	10.000	7.032	29.7#	100	-0.06
67	P	2,4-Dinitrotoluene	10.000	9.312	6.9	100	-0.04
68	T	2,3,4,6-Tetrachlorophenol	10.000	8.914	10.9	100	-0.02
69	P	Diethyl phthalate	10.000	9.266	7.3	100	-0.03
70	P	Fluorene	10.000	9.376	6.2	100	-0.02
71	P	4-Chlorophenyl phenyl ether	10.000	10.022	-0.2	100	-0.01
72	S	2,4,6-Tribromophenol	10.000	12.018	-20.2	100	-0.02
73	I	Phenanthrene-d10	40.000	40.000	0.0	100	-0.01
74	P	4,6-Dinitro-2-methylphenol	-1.000	13.983	0.0	100	-0.04
75	T	Azobenzene	10.000	10.558	-5.6	100	-0.02
76	T	1,2-Diphenylhydrazine	10.000	10.251	-2.5	100	-0.02
77	CCC	Diphenylamine	10.000	9.655	3.5	100	-0.03
78	P	N-Nitrosodiphenylamine	10.000	9.635	3.7	100	-0.03
79	P	4-Bromophenyl phenyl ether	10.000	10.204	-2.0	100	-0.01
80	T	Phenacetin	10.000	8.749	12.5	100	-0.06
81	P	Hexachlorobenzene	10.000	10.229	-2.3	100	-0.02
82	P	Atrazine	10.000	9.468	5.3	100	-0.04
83	T	4-Aminobiphenyl	10.000	9.492	5.1	100	-0.03
84	P	Pentachlorophenol	10.000	8.775	12.2	100	-0.03
85	T	Pentachloronitrobenzene	10.000	8.564	14.4	100	-0.02
86	T	Pronamide	10.000	9.390	6.1	100	-0.03
87	P	Phenanthrene	10.000	9.990	0.1	100	-0.02
88	P	Anthracene	10.000	9.803	2.0	100	-0.03
89	P	Carbazole	10.000	9.358	6.4	100	-0.02
90	P	Di-n-butyl phthalate	10.000	8.982	10.2	100	-0.01
91	P	Fluoranthene	10.000	9.293	7.1	100	-0.02
92	I	Chrysene-d12	40.000	40.000	0.0	100	-0.02
93	P	Pyrene	10.000	9.660	3.4	100	-0.02
94	S	4-Terphenyl-d14	10.000	9.881	1.2	100	-0.01
95	T	Benzidine	10.000	9.753	2.5	100	-0.02
96	T	p-Dimethylaminoazobenzene	10.000	9.261	7.4	100	-0.02
97	P	Butyl benzyl phthalate	10.000	9.231	7.7	100	-0.01
98	P	Benz(a)anthracene	10.000	9.545	4.6	100	-0.02
99	P	3,3'-Dichlorobenzidine	10.000	8.928	10.7	100	-0.03
100	P	Chrysene	10.000	10.459	-4.6	100	-0.03
101	P	Bis(2-ethylhexyl)phthalate	10.000	9.335	6.6	100	-0.01
102	P	Di-n-octyl phthalate	10.000	8.674	13.3	100	-0.02

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040211.D
Acq On : 2 Apr 2021 3:03 pm
Operator : yh
Sample : BNA10 973-73/
Misc : ICAL 8270C_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 07 08:56:50 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:55:09 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	10.000	8.681	13.2	100	-0.03
104	I	Perylene-d12	40.000	40.000	0.0	100	-0.01
105	P	Benzo[b]fluoranthene	10.000	8.835	11.6	100	-0.05
106	P	Benzo[k]fluoranthene	10.000	10.724	-7.2	100	-0.04
107	P	Benzo[a]pyrene	10.000	9.473	5.3	100	-0.03
108	T	Dibenz(a,j)acridine	10.000	8.081	19.2	100	-0.03
109		Indeno[1,2,3-cd]pyrene	10.000	9.243	7.6	100	-0.04
110	P	Dibenz(a,h)anthracene	10.000	8.588	14.1	100	-0.04
111	P	Benzo[g,h,i]perylene	10.000	9.454	5.5	100	-0.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040211.D
Acq On : 2 Apr 2021 3:03 pm
Operator : yh
Sample : BNA10 973-73/
Misc : ICAL 8270C_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 07 08:56:50 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:55:09 2021
Response via : Initial Calibration

Internal Standards			R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4		...	4.206	152	43910	40.00	ng		0.00
23) Naphthalene-d8		...	5.795	136	168510	40.00	ng		0.00
45) Acenaphthene-d10		...	7.836	164	88776	40.00	ng		0.00
73) Phenanthrene-d10		...	9.482	188	151727	40.00	ng		0.00
92) Chrysene-d12		...	12.400	240	119652	40.00	ng		0.00
104) Perylene-d12		...	13.859	264	105518	40.00	ng		0.00
System Monitoring Compounds									
5) 2-Fluorophenol		...	2.662	112	13898	9.15	ng		0.00
Spiked Amount	100.000	Range	21 - 119		Recovery =	9.15%#			
9) Phenol-d5		...	3.786	99	18596	10.11	ng		0.00
Spiked Amount	100.000	Range	10 - 121		Recovery =	10.11%			
24) Nitrobenzene-d5		...	4.918	82	15484	9.97	ng		0.00
Spiked Amount	50.000	Range	34 - 114		Recovery =	19.94%#			
50) 2-Fluorobiphenyl		...	7.106	172	28605	9.80	ng		0.00
Spiked Amount	50.000	Range	43 - 116		Recovery =	19.60%#			
72) 2,4,6-Tribromophenol		...	8.719	330	2508	12.02	ng		0.00
Spiked Amount	100.000	Range	10 - 123		Recovery =	12.02%			
94) 4-Terphenyl-d14		...	11.287	244	29867	9.88	ng		0.00
Spiked Amount	50.000	Range	33 - 141		Recovery =	19.76%#			
Target Compounds									Qvalue
2) Pyridine		...	1.436	79	18304	9.96	ng	#	87
3) 2-Picoline		...	2.063	93	17564	9.68	ng		98
4) Methyl methanesulfonate		...	2.489	80	8601	9.58	ng		97
6) Ethyl methanesulfonate		...	3.272	79	13208	9.67	ng		94
7) Benzaldehyde		...	3.632	105	10209	9.79	ng		94
8) Aniline		...	3.780	66	10528	9.40	ng	#	89
10) Phenol		...	3.800	94	22330	10.17	ng		94
11) Bis(2-chloroethyl)ether		...	3.896	93	15594	10.12	ng		89
12) 2-Chlorophenol		...	3.925	128	15985	9.74	ng		96
13) 1,3-Dichlorobenzene		...	4.126	146	17670	9.70	ng		96
14) 1,4-Dichlorobenzene		...	4.223	146	18534	10.19	ng		99
15) 1,2-Dichlorobenzene		...	4.416	146	16765	9.66	ng		99
16) Benzyl alcohol		...	4.413	108	10520	9.65	ng	#	71
17) Bis(2-chloroisopropyl)ether		...	4.623	45	29822	10.39	ng	#	74
18) 2-Methylphenol		...	4.595	107	12486	9.47	ng	#	92
19) 3,4-Methylphenol		...	4.808	107	33077	18.79	ng		98
20) N-Nitrosodi-n-propylamine		...	4.779	70	12092	11.07	ng		87
21) N-Nitrosodimethylamine		...	1.422	42	9913	9.95	ng	#	79
22) Hexachloroethane		...	4.844	117	7032	10.11	ng		94
25) Acetophenone		...	4.742	105	43508	19.92	ng		96
26) Nitrobenzene		...	4.941	123	7860	10.17	ng	#	86
27) N-Nitrosopiperidine		...	5.131	114	8129	10.43	ng	#	71
28) Isophorone		...	5.262	82	30694	10.01	ng		97
29) 2-Nitrophenol		...	5.347	139	7333	9.02	ng		94
30) 2,4-Dimethylphenol		...	5.466	122	13589	9.81	ng		99
31) Bis(2-chloroethoxy)methane		...	5.580	93	18047	10.03	ng		97
32) 2,4-Dichlorophenol		...	5.653	162	12253	10.02	ng		99
33) 1,2,4-Trichlorobenzene		...	5.744	180	13801	10.24	ng		98
34) Naphthalene		...	5.821	128	46973	10.07	ng		99
35) Benzoic acid		...	5.580	105	6107	13.90	ng	#	79
36) 2,6-Dichlorophenol		...	5.926	162	11855	9.90	ng		97
37) 4-Chloroaniline		...	5.923	127	18129	9.36	ng		93
38) Hexachlorobutadiene		...	6.019	225	6488	9.75	ng		96
39) a,a-Dimethylphenethylamine		...	5.685	58	48177	9.61	ng		78
40) Caprolactam		...	6.303	113	4437	9.15	ng	#	51

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040211.D
Acq On : 2 Apr 2021 3:03 pm
Operator : yh
Sample : BNA10 973-73/
Misc : ICAL 8270C_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 07 08:56:50 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:55:09 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.547	107	11987	9.33	ng		93
42) N-Nitrosodi-n-butylamine	6.369	84	10257	8.84	ng		82
43) 2-Methylnaphthalene	6.652	141	26822	10.06	ng		98
44) 1-Methylnaphthalene	6.763	141	25169	9.70	ng		99
46) 1,2,4,5-Tetrachlorobenzene	6.857	216	12300	10.43	ng		97
47) Hexachlorocyclopentadiene	6.862	237	6555	9.07	ng	#	87
48) 2,4,6-Trichlorophenol	7.004	196	7469	8.50	ng		88
49) 2,4,5-Trichlorophenol	7.038	196	8062	9.18	ng		97
51) Biphenyl	7.209	154	34471	9.88	ng		97
52) 2-Chloronaphthalene	7.206	162	25974	9.60	ng		99
53) 1-Chloronaphthalene	7.226	162	25294	10.55	ng		95
54) 2-Nitroaniline	7.345	65	8700	9.34	ng		91
55) 3-Nitroaniline	7.813	138	7888	9.06	ng	#	91
56) Pentachlorobenzene	8.029	250	9311	9.45	ng		97
57) 4-Nitroaniline	8.492	138	8187	9.67	ng	#	82
58) 2-Naphthylamine	8.154	143	28376	10.11	ng		99
59) 1-Naphthylamine	8.247	143	29144	9.92	ng		97
60) Dimethyl phthalate	7.598	163	28421	9.78	ng		99
61) Acenaphthylene	7.666	152	40894	9.64	ng		100
62) 2,6-Dinitrotoluene	7.637	165	5963	9.04	ng		82
63) Acenaphthene	7.867	154	25008	9.82	ng		98
64) 2,4-Dinitrophenol	7.932	184	2025	16.89	ng		92
65) Dibenzofuran	8.066	168	37263	10.04	ng		98
66) 4-Nitrophenol	8.049	109	3325	7.03	ng	#	83
67) 2,4-Dinitrotoluene	8.083	165	8468	9.31	ng		91
68) 2,3,4,6-Tetrachlorophenol	8.225	232	5743	8.91	ng		96
69) Diethyl phthalate	8.401	149	27678	9.27	ng		99
70) Fluorene	8.449	166	29131	9.38	ng		97
71) 4-Chlorophenyl phenyl ether	8.483	204	12954	10.02	ng		97
74) 4,6-Dinitro-2-methylphenol	8.534	198	3242	13.98	ng		81
75) Azobenzene	8.656	77	31737	10.56	ng		92
76) 1,2-Diphenylhydrazine	8.656	182	7362	10.25	ng	#	85
77) Diphenylamine	8.616	170	5129	9.66	ng		97
78) N-Nitrosodiphenylamine	8.619	168	25407	9.63	ng		97
79) 4-Bromophenyl phenyl ether	9.019	248	7641	10.20	ng		98
80) Phenacetin	8.994	108	13948	8.75	ng		98
81) Hexachlorobenzene	9.065	284	7353	10.23	ng		96
82) Atrazine	9.249	200	6860	9.47	ng	#	83
83) 4-Aminobiphenyl	9.309	169	30403	9.49	ng		100
84) Pentachlorophenol	9.295	266	4651	8.77	ng		96
85) Pentachloronitrobenzene	9.312	237	2822	8.56	ng		87
86) Pronamide	9.422	173	10812	9.39	ng		95
87) Phenanthrene	9.505	178	44504	9.99	ng		99
88) Anthracene	9.559	178	44110	9.80	ng		98
89) Carbazole	9.757	167	35638	9.36	ng		97
90) Di-n-butyl phthalate	10.231	149	46595	8.98	ng		99
91) Fluoranthene	10.813	202	43518	9.29	ng		98
93) Pyrene	11.055	202	45007	9.66	ng		98
95) Benzidine	11.001	184	19989	9.75	ng		100
96) p-Dimethylaminoazobenzene	11.449	225	7568	9.26	ng	#	83
97) Butyl benzyl phthalate	11.872	149	20485	9.23	ng		92
98) Benz(a)anthracene	12.391	228	38275	9.55	ng		98
99) 3,3'-Dichlorobenzidine	12.397	252	12649	8.93	ng		98
100) Chrysene	12.425	228	41253	10.46	ng		99
101) Bis(2-ethylhexyl)phthalate	12.547	149	28105	9.33	ng		95
102) Di-n-octyl phthalate	13.229	149	44565	8.67	ng	#	94
103) 3-Methylcholanthrene	14.134	268	10177	8.68	ng		96

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040211.D
Acq On : 2 Apr 2021 3:03 pm
Operator : yh
Sample : BNA10 973-73/
Misc : ICAL 8270C_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 07 08:56:50 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:55:09 2021
Response via : Initial Calibration

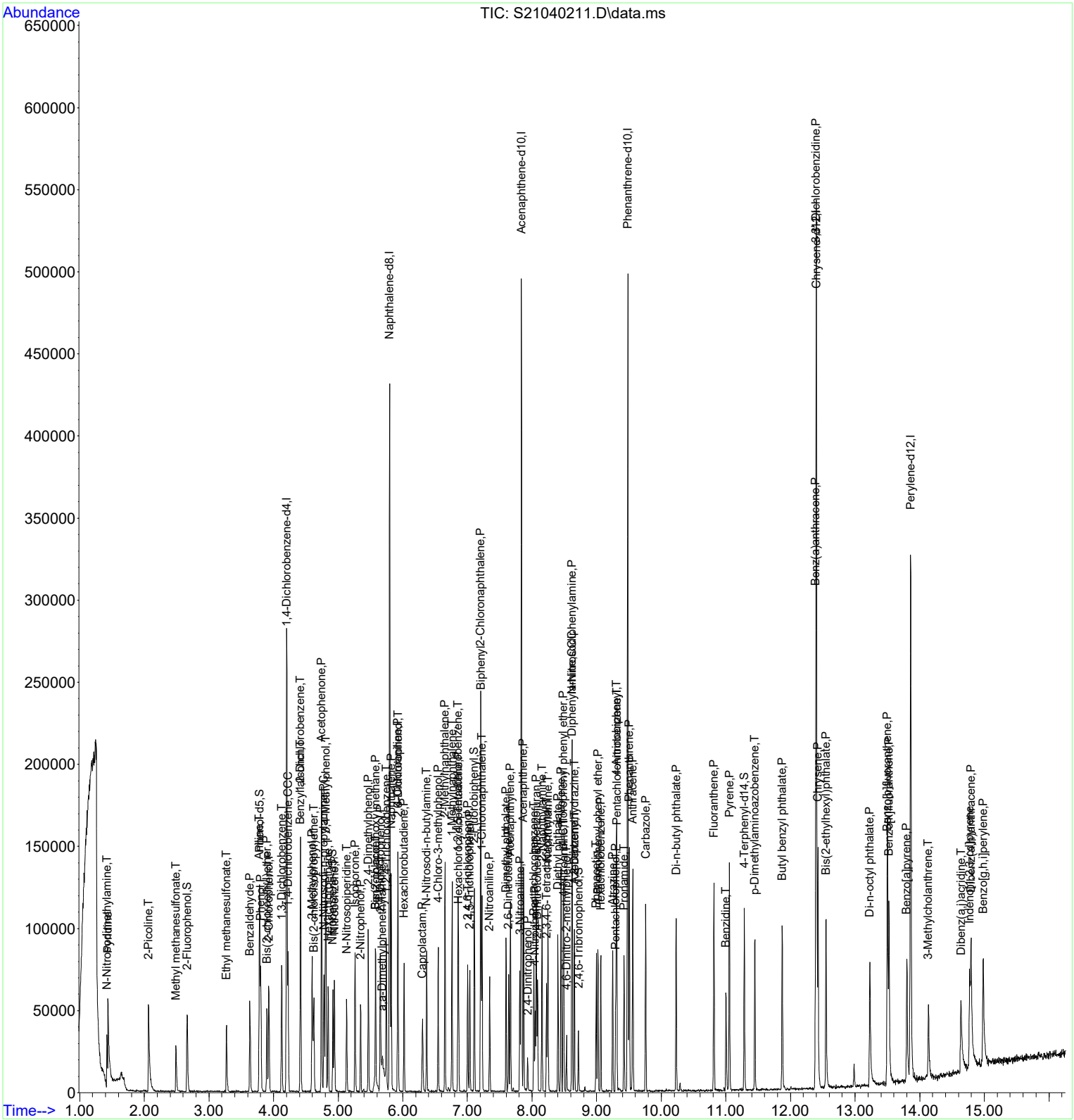
Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene	...	13.495	252	33810	8.84	ng		93
106) Benzo[k]fluoranthene	...	13.524	252	36787	10.72	ng		93
107) Benzo[a]pyrene	...	13.799	252	31059	9.47	ng		98
108) Dibenz(a,j)acridine	...	14.639	279	22363	8.08	ng		97
109) Indeno[1,2,3-cd]pyrene	...	14.773	276	35917	9.24	ng	#	86
110) Dibenz(a,h)anthracene	...	14.795	278	27586	8.59	ng		93
111) Benzo[g,h,i]perylene	...	14.983	276	30560	9.45	ng		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040211.D
Acq On : 2 Apr 2021 3:03 pm
Operator : yh
Sample : BNA10 973-73/
Misc : ICAL 8270C_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 07 08:56:50 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:55:09 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040212.D
Acq On : 2 Apr 2021 3:30 pm
Operator : yh
Sample : BNA20 973-73/
Misc : ICAL 8270C_W
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 07 08:58:40 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:57:31 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.203	152	42378	40.00	ng		0.00
23) Naphthalene-d8	...	5.798	136	170629	40.00	ng		0.00
45) Acenaphthene-d10	...	7.836	164	87896	40.00	ng		0.00
73) Phenanthrene-d10	...	9.482	188	150745	40.00	ng		0.00
92) Chrysene-d12	...	12.403	240	124374	40.00	ng		0.00
104) Perylene-d12	...	13.862	264	109094	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.662	112	28606	19.67	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 19.67%#					
9) Phenol-d5	...	3.789	99	35190	19.78	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 19.78%					
24) Nitrobenzene-d5	...	4.921	82	30217	19.11	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 38.22%					
50) 2-Fluorobiphenyl	...	7.107	172	56570	19.57	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 39.14%#					
72) 2,4,6-Tribromophenol	...	8.719	330	4971	19.79	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 19.79%					
94) 4-Terphenyl-d14	...	11.287	244	60598	19.14	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 38.28%					
Target Compounds								Qvalue
2) Pyridine	...	1.433	79	35807	20.14	ng		92
3) 2-Picoline	...	2.060	93	33067	18.97	ng		94
4) Methyl methanesulfonate	...	2.486	80	17164	19.75	ng		97
6) Ethyl methanesulfonate	...	3.272	79	25157	19.16	ng		96
7) Benzaldehyde	...	3.633	105	20462	20.51	ng		95
8) Aniline	...	3.783	66	21309	19.79	ng	#	83
10) Phenol	...	3.806	94	43488	20.58	ng		92
11) Bis(2-chloroethyl)ether	...	3.897	93	29462	19.79	ng		91
12) 2-Chlorophenol	...	3.928	128	30838	19.52	ng		95
13) 1,3-Dichlorobenzene	...	4.127	146	34394	19.66	ng		97
14) 1,4-Dichlorobenzene	...	4.226	146	34226	19.47	ng		99
15) 1,2-Dichlorobenzene	...	4.419	146	33169	19.89	ng		96
16) Benzyl alcohol	...	4.416	108	20705	19.66	ng	#	70
17) Bis(2-chloroisopropyl)ether	...	4.623	45	57016	20.29	ng	#	59
18) 2-Methylphenol	...	4.601	107	25239	19.93	ng	#	90
19) 3,4-Methylphenol	...	4.811	107	63688	37.61	ng		98
20) N-Nitrosodi-n-propylamine	...	4.782	70	22278	21.05	ng		87
21) N-Nitrosodimethylamine	...	1.419	42	18725	19.11	ng	#	79
22) Hexachloroethane	...	4.845	117	13820	20.46	ng		93
25) Acetophenone	...	4.742	105	83254	37.41	ng		96
26) Nitrobenzene	...	4.944	123	15042	19.08	ng	#	87
27) N-Nitrosopiperidine	...	5.131	114	15510	19.48	ng	#	74
28) Isophorone	...	5.262	82	59609	19.05	ng		99
29) 2-Nitrophenol	...	5.350	139	14492	17.68	ng		90
30) 2,4-Dimethylphenol	...	5.469	122	27320	19.48	ng		99
31) Bis(2-chloroethoxy)methane	...	5.580	93	35430	19.36	ng		99
32) 2,4-Dichlorophenol	...	5.651	162	23417	18.82	ng		97
33) 1,2,4-Trichlorobenzene	...	5.747	180	26538	19.24	ng		98
34) Naphthalene	...	5.821	128	91554	19.22	ng		99
35) Benzoic acid	...	5.605	105	14121	21.08	ng		85
36) 2,6-Dichlorophenol	...	5.926	162	22604	18.63	ng		97
37) 4-Chloroaniline	...	5.923	127	37240	19.19	ng		97
38) Hexachlorobutadiene	...	6.020	225	12754	18.97	ng		96
39) a,a-Dimethylphenethylamine	...	5.702	58	96177	18.84	ng		75
40) Caprolactam	...	6.326	113	9216	18.73	ng	#	57

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040212.D
Acq On : 2 Apr 2021 3:30 pm
Operator : yh
Sample : BNA20 973-73/
Misc : ICAL 8270C_W
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 07 08:58:40 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:57:31 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.550	107	24783	18.98	ng		97
42) N-Nitrosodi-n-butylamine	6.372	84	19651	16.50	ng		84
43) 2-Methylnaphthalene	6.653	141	51423	18.91	ng		99
44) 1-Methylnaphthalene	6.763	141	50632	19.25	ng		100
46) 1,2,4,5-Tetrachlorobenzene	6.854	216	22841	19.45	ng		98
47) Hexachlorocyclopentadiene	6.863	237	13060	18.25	ng		98
48) 2,4,6-Trichlorophenol	7.005	196	15475	18.06	ng		97
49) 2,4,5-Trichlorophenol	7.039	196	16707	19.31	ng		96
51) Biphenyl	7.209	154	66960	19.38	ng	#	97
52) 2-Chloronaphthalene	7.206	162	51952	19.47	ng		97
53) 1-Chloronaphthalene	7.226	162	47349	20.13	ng		99
54) 2-Nitroaniline	7.345	65	18100	19.46	ng		91
55) 3-Nitroaniline	7.816	138	16107	18.70	ng	#	95
56) Pentachlorobenzene	8.029	250	19021	19.54	ng		94
57) 4-Nitroaniline	8.497	138	16470	19.48	ng	#	85
58) 2-Naphthylamine	8.157	143	56290	20.19	ng		98
59) 1-Naphthylamine	8.248	143	57211	19.71	ng		97
60) Dimethyl phthalate	7.598	163	54713	19.01	ng		99
61) Acenaphthylene	7.666	152	82036	19.50	ng		98
62) 2,6-Dinitrotoluene	7.640	165	11980	18.28	ng	#	80
63) Acenaphthene	7.870	154	49529	19.63	ng		97
64) 2,4-Dinitrophenol	7.936	184	4304	21.80	ng		75
65) Dibenzofuran	8.069	168	70726	19.18	ng	#	65
66) 4-Nitrophenol	8.055	109	8688	18.68	ng	#	1
67) 2,4-Dinitrotoluene	8.089	165	16647	18.44	ng		87
68) 2,3,4,6-Tetrachlorophenol	8.228	232	11519	17.92	ng		96
69) Diethyl phthalate	8.404	149	55655	18.85	ng		99
70) Fluorene	8.449	166	60591	19.76	ng		99
71) 4-Chlorophenyl phenyl ether	8.486	204	25170	19.66	ng		95
74) 4,6-Dinitro-2-methylphenol	8.537	198	7741	21.40	ng		83
75) Azobenzene	8.656	77	61093	20.18	ng		91
76) 1,2-Diphenylhydrazine	8.656	182	13910	19.27	ng	#	81
77) Diphenylamine	8.622	170	10425	19.84	ng		96
78) N-Nitrosodiphenylamine	8.622	168	52552	20.14	ng		98
79) 4-Bromophenyl phenyl ether	9.020	248	14417	19.18	ng		98
80) Phenacetin	9.000	108	30483	19.21	ng		97
81) Hexachlorobenzene	9.068	284	13584	19.04	ng		95
82) Atrazine	9.255	200	14602	20.29	ng	#	88
83) 4-Aminobiphenyl	9.309	169	60701	19.10	ng		99
84) Pentachlorophenol	9.298	266	9536	17.99	ng		97
85) Pentachloronitrobenzene	9.312	237	6123	18.87	ng		87
86) Pronamide	9.428	173	21895	19.10	ng		97
87) Phenanthrene	9.508	178	87552	19.69	ng		99
88) Anthracene	9.562	178	87753	19.60	ng		99
89) Carbazole	9.761	167	71662	18.98	ng		100
90) Di-n-butyl phthalate	10.232	149	97728	18.96	ng		99
91) Fluoranthene	10.816	202	89047	19.16	ng		98
93) Pyrene	11.058	202	92301	19.12	ng		100
95) Benzidine	11.004	184	40108	18.51	ng		98
96) p-Dimethylaminoazobenzene	11.449	225	15529	18.28	ng	#	82
97) Butyl benzyl phthalate	11.872	149	43627	18.79	ng		97
98) Benz(a)anthracene	12.389	228	77866	18.64	ng		99
99) 3,3'-Dichlorobenzidine	12.400	252	26838	18.35	ng		97
100) Chrysene	12.428	228	78408	19.01	ng		99
101) Bis(2-ethylhexyl)phthalate	12.551	149	57817	18.40	ng		93
102) Di-n-octyl phthalate	13.229	149	94130	17.51	ng		91
103) 3-Methylcholanthrene	14.137	268	21537	17.80	ng		93

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040212.D
Acq On : 2 Apr 2021 3:30 pm
Operator : yh
Sample : BNA20 973-73/
Misc : ICAL 8270C_W
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 07 08:58:40 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:57:31 2021
Response via : Initial Calibration

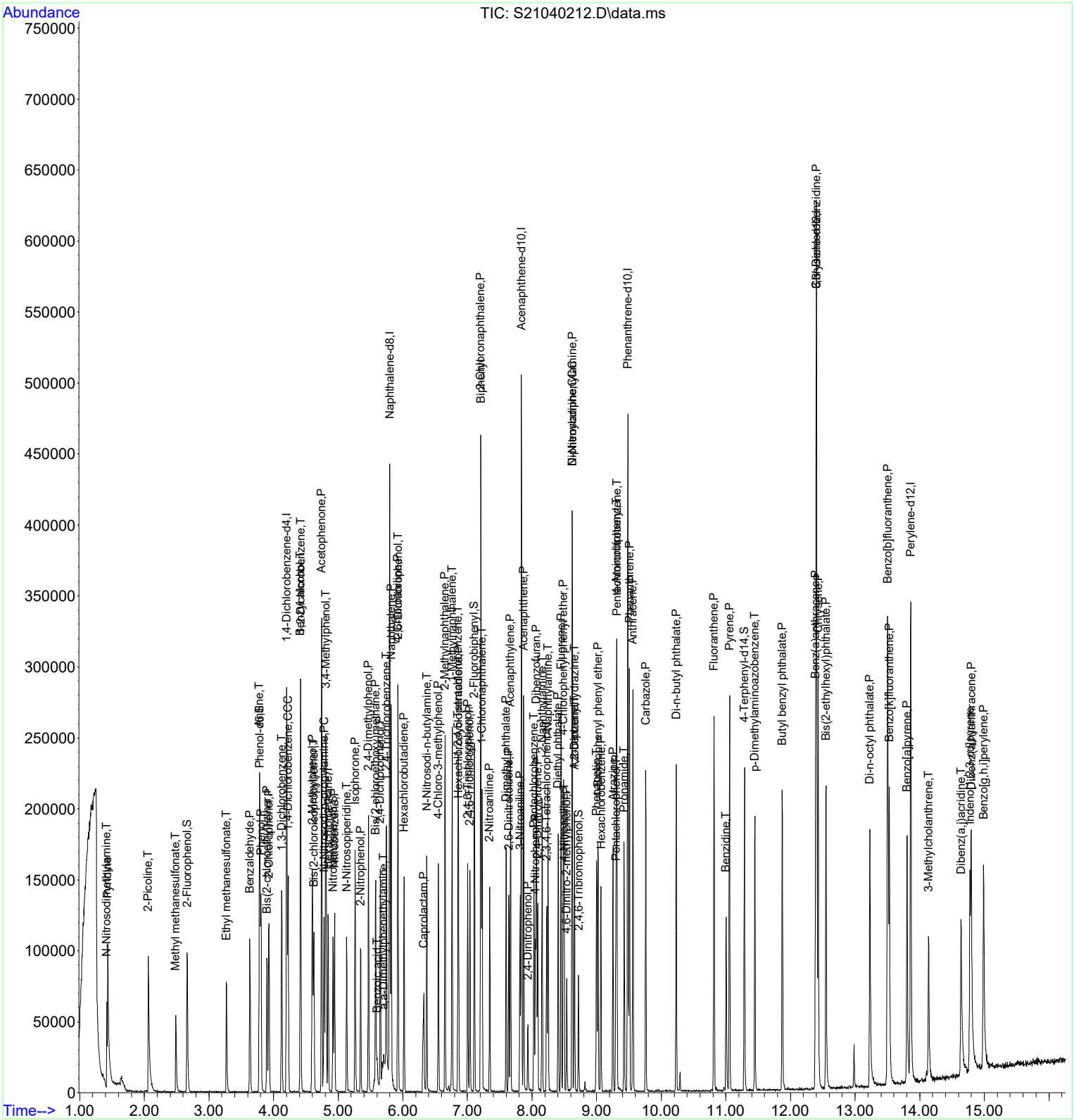
Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
105) Benzo[b]fluoranthene	...	13.501	252	71016	17.94	ng	95
106) Benzo[k]fluoranthene	...	13.530	252	73938	20.90	ng	96
107) Benzo[a]pyrene	...	13.802	252	64202	18.85	ng	96
108) Dibenz(a,j)acridine	...	14.639	279	52262	18.27	ng	99
109) Indeno[1,2,3-cd]pyrene	...	14.779	276	75163	18.59	ng	96
110) Dibenz(a,h)anthracene	...	14.798	278	60581	18.32	ng	95
111) Benzo[g,h,i]perylene	...	14.989	276	64493	19.31	ng	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040212.D
Acq On : 2 Apr 2021 3:30 pm
Operator : yh
Sample : BNA20 973-73/
Misc : ICAL 8270C_W
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 07 08:58:40 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:57:31 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040213.D
Acq On : 2 Apr 2021 3:56 pm
Operator : yh
Sample : BNA40 973-73/
Misc : ICAL 8270C_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 07 09:06:23 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:59:27 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.203	152	41066	40.00	ng		0.00
23) Naphthalene-d8	...	5.798	136	161073	40.00	ng		0.00
45) Acenaphthene-d10	...	7.839	164	87919	40.00	ng		0.00
73) Phenanthrene-d10	...	9.485	188	152460	40.00	ng		0.00
92) Chrysene-d12	...	12.406	240	122707	40.00	ng		0.00
104) Perylene-d12	...	13.864	264	105734	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.665	112	58165	41.26	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 41.26%					
9) Phenol-d5	...	3.791	99	70974	41.17	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 41.17%					
24) Nitrobenzene-d5	...	4.921	82	60036	40.23	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 80.46%					
50) 2-Fluorobiphenyl	...	7.109	172	116111	40.16	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 80.32%					
72) 2,4,6-Tribromophenol	...	8.724	330	10998	38.45	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 38.45%					
94) 4-Terphenyl-d14	...	11.287	244	123658	39.58	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 79.16%					
Target Compounds					Qvalue			
2) Pyridine	...	1.430	79	70176	40.73	ng	#	91
3) 2-Picoline	...	2.054	93	68573	40.59	ng		98
4) Methyl methanesulfonate	...	2.486	80	33831	40.17	ng		99
6) Ethyl methanesulfonate	...	3.272	79	51852	40.76	ng		95
7) Benzaldehyde	...	3.632	105	40386	41.78	ng		95
8) Aniline	...	3.783	66	42882	41.10	ng	#	81
10) Phenol	...	3.811	94	86018	42.00	ng		93
11) Bis(2-chloroethyl)ether	...	3.899	93	60573	41.98	ng		91
12) 2-Chlorophenol	...	3.928	128	62400	40.76	ng		96
13) 1,3-Dichlorobenzene	...	4.126	146	69645	41.09	ng		98
14) 1,4-Dichlorobenzene	...	4.226	146	70332	41.28	ng		98
15) 1,2-Dichlorobenzene	...	4.419	146	65547	40.56	ng		97
16) Benzyl alcohol	...	4.422	108	41268	40.44	ng	#	71
17) Bis(2-chloroisopropyl)ether	...	4.626	45	112938	41.48	ng	#	76
18) 2-Methylphenol	...	4.603	107	50320	41.00	ng	#	89
19) 3,4-Methylphenol	...	4.819	107	128361	78.22	ng		98
20) N-Nitrosodi-n-propylamine	...	4.785	70	44103	43.01	ng		85
21) N-Nitrosodimethylamine	...	1.419	42	39272	41.36	ng	#	73
22) Hexachloroethane	...	4.844	117	26818	40.98	ng		95
25) Acetophenone	...	4.748	105	165428	78.74	ng		96
26) Nitrobenzene	...	4.947	123	30654	41.19	ng		91
27) N-Nitrosopiperidine	...	5.134	114	31039	41.29	ng	#	74
28) Isophorone	...	5.267	82	119785	40.56	ng		99
29) 2-Nitrophenol	...	5.350	139	31833	41.13	ng		92
30) 2,4-Dimethylphenol	...	5.472	122	53869	40.69	ng		99
31) Bis(2-chloroethoxy)methane	...	5.582	93	71227	41.23	ng		98
32) 2,4-Dichlorophenol	...	5.656	162	48154	40.99	ng		97
33) 1,2,4-Trichlorobenzene	...	5.747	180	53908	41.39	ng		98
34) Naphthalene	...	5.824	128	184464	41.02	ng		98
35) Benzoic acid	...	5.639	105	29299	37.52	ng	#	37
36) 2,6-Dichlorophenol	...	5.931	162	46469	40.58	ng		99
37) 4-Chloroaniline	...	5.926	127	75236	41.06	ng		96
38) Hexachlorobutadiene	...	6.019	225	25141	39.62	ng		97
39) a,a-Dimethylphenethylamine	...	5.821	58	195486	40.53	ng		81
40) Caprolactam	...	6.354	113	19075	41.07	ng	#	53

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040213.D
Acq On : 2 Apr 2021 3:56 pm
Operator : yh
Sample : BNA40 973-73/
Misc : ICAL 8270C_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 07 09:06:23 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:59:27 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.556	107	49663	40.28	ng		94
42) N-Nitrosodi-n-butylamine	6.374	84	52111	46.36	ng		93
43) 2-Methylnaphthalene	6.655	141	102975	40.11	ng		99
44) 1-Methylnaphthalene	6.766	141	101922	41.05	ng		99
46) 1,2,4,5-Tetrachlorobenzene	6.857	216	46484	39.56	ng		99
47) Hexachlorocyclopentadiene	6.865	237	28470	39.78	ng		96
48) 2,4,6-Trichlorophenol	7.007	196	32810	38.68	ng		97
49) 2,4,5-Trichlorophenol	7.044	196	34593	39.97	ng		98
51) Biphenyl	7.212	154	136923	39.62	ng		98
52) 2-Chloronaphthalene	7.209	162	106096	39.75	ng		98
53) 1-Chloronaphthalene	7.231	162	95637	40.65	ng		98
54) 2-Nitroaniline	7.351	65	36750	39.50	ng		92
55) 3-Nitroaniline	7.822	138	34107	39.59	ng	#	95
56) Pentachlorobenzene	8.035	250	38555	39.59	ng		96
57) 4-Nitroaniline	8.506	138	33329	39.41	ng	#	85
58) 2-Naphthylamine	8.159	143	110471	39.62	ng		99
59) 1-Naphthylamine	8.253	143	115214	39.67	ng		99
60) Dimethyl phthalate	7.603	163	112651	39.13	ng		99
61) Acenaphthylene	7.668	152	168338	40.00	ng		100
62) 2,6-Dinitrotoluene	7.646	165	26470	40.38	ng	#	81
63) Acenaphthene	7.873	154	101468	40.21	ng		99
64) 2,4-Dinitrophenol	7.938	184	12418	39.13	ng		97
65) Dibenzofuran	8.072	168	147580	40.02	ng	#	64
66) 4-Nitrophenol	8.066	109	19227	41.42	ng	#	1
67) 2,4-Dinitrotoluene	8.094	165	35965	39.83	ng		89
68) 2,3,4,6-Tetrachlorophenol	8.230	232	25045	38.95	ng		97
69) Diethyl phthalate	8.409	149	117778	39.88	ng		99
70) Fluorene	8.455	166	122592	39.98	ng		99
71) 4-Chlorophenyl phenyl ether	8.486	204	51067	39.89	ng		97
74) 4,6-Dinitro-2-methylphenol	8.546	198	18606	38.90	ng		82
75) Azobenzene	8.659	77	123187	40.24	ng		93
76) 1,2-Diphenylhydrazine	8.659	182	30007	41.11	ng		93
77) Diphenylamine	8.628	170	20623	38.81	ng	#	92
78) N-Nitrosodiphenylamine	8.628	168	105137	39.83	ng		100
79) 4-Bromophenyl phenyl ether	9.022	248	30189	39.70	ng		98
80) Phenacetin	9.011	108	65393	40.74	ng		99
81) Hexachlorobenzene	9.068	284	29585	40.99	ng		99
82) Atrazine	9.261	200	29810	40.96	ng	#	86
83) 4-Aminobiphenyl	9.315	169	128072	39.85	ng		100
84) Pentachlorophenol	9.300	266	21209	39.55	ng		98
85) Pentachloronitrobenzene	9.318	237	13406	40.84	ng		89
86) Pronamide	9.434	173	45037	38.84	ng		92
87) Phenanthrene	9.511	178	178932	39.78	ng		99
88) Anthracene	9.564	178	180536	39.86	ng		100
89) Carbazole	9.763	167	150946	39.52	ng		98
90) Di-n-butyl phthalate	10.234	149	207670	39.83	ng		99
91) Fluoranthene	10.819	202	189745	40.36	ng		99
93) Pyrene	11.060	202	195916	41.13	ng		99
95) Benzidine	11.006	184	85239	39.88	ng		100
96) p-Dimethylaminoazobenzene	11.455	225	33605	40.09	ng	#	83
97) Butyl benzyl phthalate	11.875	149	91062	39.76	ng		95
98) Benz(a)anthracene	12.394	228	166258	40.35	ng		99
99) 3,3'-Dichlorobenzidine	12.403	252	59844	41.46	ng		97
100) Chrysene	12.434	228	164712	40.47	ng		98
101) Bis(2-ethylhexyl)phthalate	12.550	149	126255	40.73	ng		93
102) Di-n-octyl phthalate	13.231	149	212645	40.10	ng		92
103) 3-Methylcholanthrene	14.140	268	49133	41.17	ng		96

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040213.D
Acq On : 2 Apr 2021 3:56 pm
Operator : yh
Sample : BNA40 973-73/
Misc : ICAL 8270C_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 07 09:06:23 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:59:27 2021
Response via : Initial Calibration

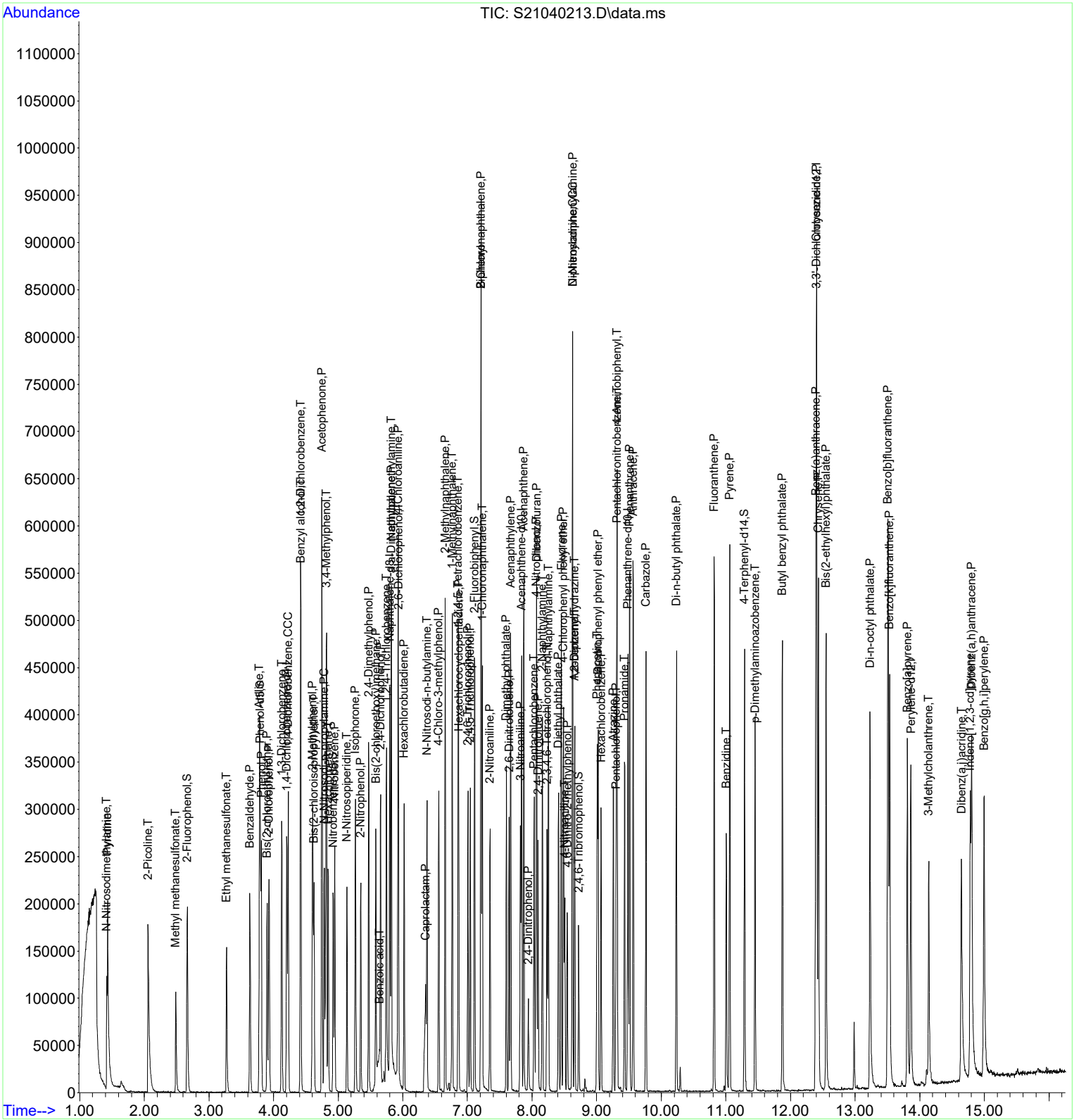
Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
105) Benzo[b]fluoranthene	...	13.507	252	147343	38.40	ng	95
106) Benzo[k]fluoranthene	...	13.535	252	148211	43.23	ng	96
107) Benzo[a]pyrene	...	13.810	252	133402	40.42	ng	95
108) Dibenz(a,j)acridine	...	14.645	279	113350	40.89	ng	99
109) Indeno[1,2,3-cd]pyrene	...	14.781	276	160455	40.95	ng	93
110) Dibenz(a,h)anthracene	...	14.804	278	132176	41.24	ng	94
111) Benzo[g,h,i]perylene	...	14.997	276	133544	41.25	ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040213.D
Acq On : 2 Apr 2021 3:56 pm
Operator : yh
Sample : BNA40 973-73/
Misc : ICAL 8270C_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 07 09:06:23 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 08:59:27 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040214.D
Acq On : 2 Apr 2021 4:22 pm
Operator : yh
Sample : BNA60 973-73/
Misc : ICAL 8270C_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 07 09:17:43 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:07:18 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.203	152	40115	40.00	ng		0.00
23) Naphthalene-d8	...	5.798	136	160534	40.00	ng		0.00
45) Acenaphthene-d10	...	7.836	164	85824	40.00	ng		0.00
73) Phenanthrene-d10	...	9.485	188	147635	40.00	ng		0.00
92) Chrysene-d12	...	12.409	240	121502	40.00	ng		0.00
104) Perylene-d12	...	13.865	264	104371	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.665	112	84072	61.06	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 61.06%					
9) Phenol-d5	...	3.797	99	101059	60.01	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 60.01%					
24) Nitrobenzene-d5	...	4.924	82	89362	60.08	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 120.16%#					
50) 2-Fluorobiphenyl	...	7.112	172	173107	61.33	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 122.66%#					
72) 2,4,6-Tribromophenol	...	8.727	330	17556	60.08	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 60.08%					
94) 4-Terphenyl-d14	...	11.293	244	186412	60.26	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 120.52%					
Target Compounds					Qvalue			
2) Pyridine	...	1.430	79	100671	59.81	ng	#	88
3) 2-Picoline	...	2.055	93	101206	61.32	ng		98
4) Methyl methanesulfonate	...	2.489	80	49014	59.58	ng		97
6) Ethyl methanesulfonate	...	3.275	79	75772	60.97	ng		96
7) Benzaldehyde	...	3.633	105	58527	61.98	ng		98
8) Aniline	...	3.786	66	62180	61.01	ng	#	81
10) Phenol	...	3.814	94	112297	56.13	ng		99
11) Bis(2-chloroethyl)ether	...	3.902	93	82986	58.88	ng		90
12) 2-Chlorophenol	...	3.931	128	90258	60.36	ng		96
13) 1,3-Dichlorobenzene	...	4.127	146	100417	60.64	ng		98
14) 1,4-Dichlorobenzene	...	4.226	146	99879	60.01	ng		97
15) 1,2-Dichlorobenzene	...	4.419	146	94951	60.16	ng		97
16) Benzyl alcohol	...	4.425	108	59535	59.72	ng	#	73
17) Bis(2-chloroisopropyl)ether	...	4.626	45	159240	59.88	ng		84
18) 2-Methylphenol	...	4.609	107	72587	60.54	ng		96
19) 3,4-Methylphenol	...	4.822	107	188797	117.77	ng		98
20) N-Nitrosodi-n-propylamine	...	4.788	70	63417	63.31	ng		82
21) N-Nitrosodimethylamine	...	1.419	42	56547	60.96	ng	#	74
22) Hexachloroethane	...	4.845	117	38178	59.72	ng		97
25) Acetophenone	...	4.754	105	241812	115.48	ng		97
26) Nitrobenzene	...	4.950	123	44481	59.98	ng		90
27) N-Nitrosopiperidine	...	5.140	114	44549	59.46	ng	#	72
28) Isophorone	...	5.270	82	177144	60.18	ng		99
29) 2-Nitrophenol	...	5.350	139	47638	61.76	ng		95
30) 2,4-Dimethylphenol	...	5.475	122	79066	59.92	ng		99
31) Bis(2-chloroethoxy)methane	...	5.585	93	104265	60.56	ng		98
32) 2,4-Dichlorophenol	...	5.659	162	70315	60.06	ng		98
33) 1,2,4-Trichlorobenzene	...	5.747	180	76167	58.68	ng		97
34) Naphthalene	...	5.824	128	265084	59.15	ng		99
35) Benzoic acid	...	5.656	105	48196	56.19	ng		85
36) 2,6-Dichlorophenol	...	5.935	162	68919	60.39	ng		99
37) 4-Chloroaniline	...	5.929	127	111135	60.86	ng		97
38) Hexachlorobutadiene	...	6.020	225	37423	59.17	ng		96
39) a,a-Dimethylphenethylamine	...	5.881	58	286356	59.56	ng		75
40) Caprolactam	...	6.374	113	28792	62.20	ng	#	1

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040214.D
Acq On : 2 Apr 2021 4:22 pm
Operator : yh
Sample : BNA60 973-73/
Misc : ICAL 8270C_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 07 09:17:43 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:07:18 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	...	6.562	107	75147	61.16	ng		96
42) N-Nitrosodi-n-butylamine	...	6.377	84	75322	67.23	ng	#	79
43) 2-Methylnaphthalene	...	6.658	141	153158	59.85	ng		100
44) 1-Methylnaphthalene	...	6.766	141	150047	60.64	ng		99
46) 1,2,4,5-Tetrachlorobenzene	...	6.860	216	67708	59.03	ng		99
47) Hexachlorocyclopentadiene	...	6.865	237	42100	60.26	ng		95
48) 2,4,6-Trichlorophenol	...	7.010	196	48517	59.04	ng		97
49) 2,4,5-Trichlorophenol	...	7.047	196	51474	60.93	ng		98
51) Biphenyl	...	7.215	154	203341	60.27	ng		98
52) 2-Chloronaphthalene	...	7.212	162	153870	59.05	ng		98
53) 1-Chloronaphthalene	...	7.232	162	143354	62.42	ng		98
54) 2-Nitroaniline	...	7.354	65	55254	60.84	ng		93
55) 3-Nitroaniline	...	7.825	138	51878	61.69	ng		97
56) Pentachlorobenzene	...	8.035	250	57633	60.62	ng		96
57) 4-Nitroaniline	...	8.517	138	50225	60.84	ng	#	86
58) 2-Naphthylamine	...	8.163	143	163750	60.16	ng		99
59) 1-Naphthylamine	...	8.256	143	171008	60.33	ng		99
60) Dimethyl phthalate	...	7.606	163	171265	60.95	ng		99
61) Acenaphthylene	...	7.672	152	250182	60.90	ng		100
62) 2,6-Dinitrotoluene	...	7.649	165	40059	62.60	ng	#	78
63) Acenaphthene	...	7.876	154	148353	60.22	ng		98
64) 2,4-Dinitrophenol	...	7.944	184	20237	56.87	ng		91
65) Dibenzofuran	...	8.072	168	215537	59.87	ng	#	63
66) 4-Nitrophenol	...	8.072	109	29091	64.20	ng	#	1
67) 2,4-Dinitrotoluene	...	8.100	165	54661	62.02	ng		92
68) 2,3,4,6-Tetrachlorophenol	...	8.234	232	39740	63.31	ng		97
69) Diethyl phthalate	...	8.412	149	177292	61.49	ng		99
70) Fluorene	...	8.455	166	180303	60.23	ng		97
71) 4-Chlorophenyl phenyl ether	...	8.486	204	76489	61.20	ng		99
74) 4,6-Dinitro-2-methylphenol	...	8.551	198	30581	59.95	ng		85
75) Azobenzene	...	8.662	77	180787	60.98	ng		93
76) 1,2-Diphenylhydrazine	...	8.662	182	43181	61.09	ng	#	89
77) Diphenylamine	...	8.631	170	31745	61.69	ng		98
78) N-Nitrosodiphenylamine	...	8.631	168	157437	61.59	ng		99
79) 4-Bromophenyl phenyl ether	...	9.025	248	44617	60.60	ng		96
80) Phenacetin	...	9.020	108	96555	62.12	ng		99
81) Hexachlorobenzene	...	9.071	284	42454	60.75	ng		97
82) Atrazine	...	9.267	200	43971	62.39	ng	#	88
83) 4-Aminobiphenyl	...	9.318	169	190852	61.33	ng		99
84) Pentachlorophenol	...	9.306	266	31925	61.49	ng		98
85) Pentachloronitrobenzene	...	9.323	237	19512	61.39	ng		93
86) Pronamide	...	9.437	173	69314	61.73	ng		94
87) Phenanthrene	...	9.514	178	267070	61.31	ng		100
88) Anthracene	...	9.570	178	267862	61.08	ng		99
89) Carbazole	...	9.766	167	229081	61.94	ng		98
90) Di-n-butyl phthalate	...	10.237	149	312936	61.98	ng		99
91) Fluoranthene	...	10.822	202	280991	61.73	ng		99
93) Pyrene	...	11.063	202	286723	60.79	ng		100
95) Benzidine	...	11.009	184	130619	61.72	ng		99
96) p-Dimethylaminoazobenzene	...	11.455	225	52012	62.66	ng	#	86
97) Butyl benzyl phthalate	...	11.878	149	140043	61.75	ng		98
98) Benz(a)anthracene	...	12.394	228	247510	60.67	ng		100
99) 3,3'-Dichlorobenzidine	...	12.406	252	87714	61.38	ng		98
100) Chrysene	...	12.440	228	241970	60.04	ng		99
101) Bis(2-ethylhexyl)phthalate	...	12.550	149	188631	61.46	ng		95
102) Di-n-octyl phthalate	...	13.235	149	324306	61.76	ng		92
103) 3-Methylcholanthrene	...	14.146	268	75177	63.62	ng		95

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040214.D
Acq On : 2 Apr 2021 4:22 pm
Operator : yh
Sample : BNA60 973-73/
Misc : ICAL 8270C_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 07 09:17:43 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:07:18 2021
Response via : Initial Calibration

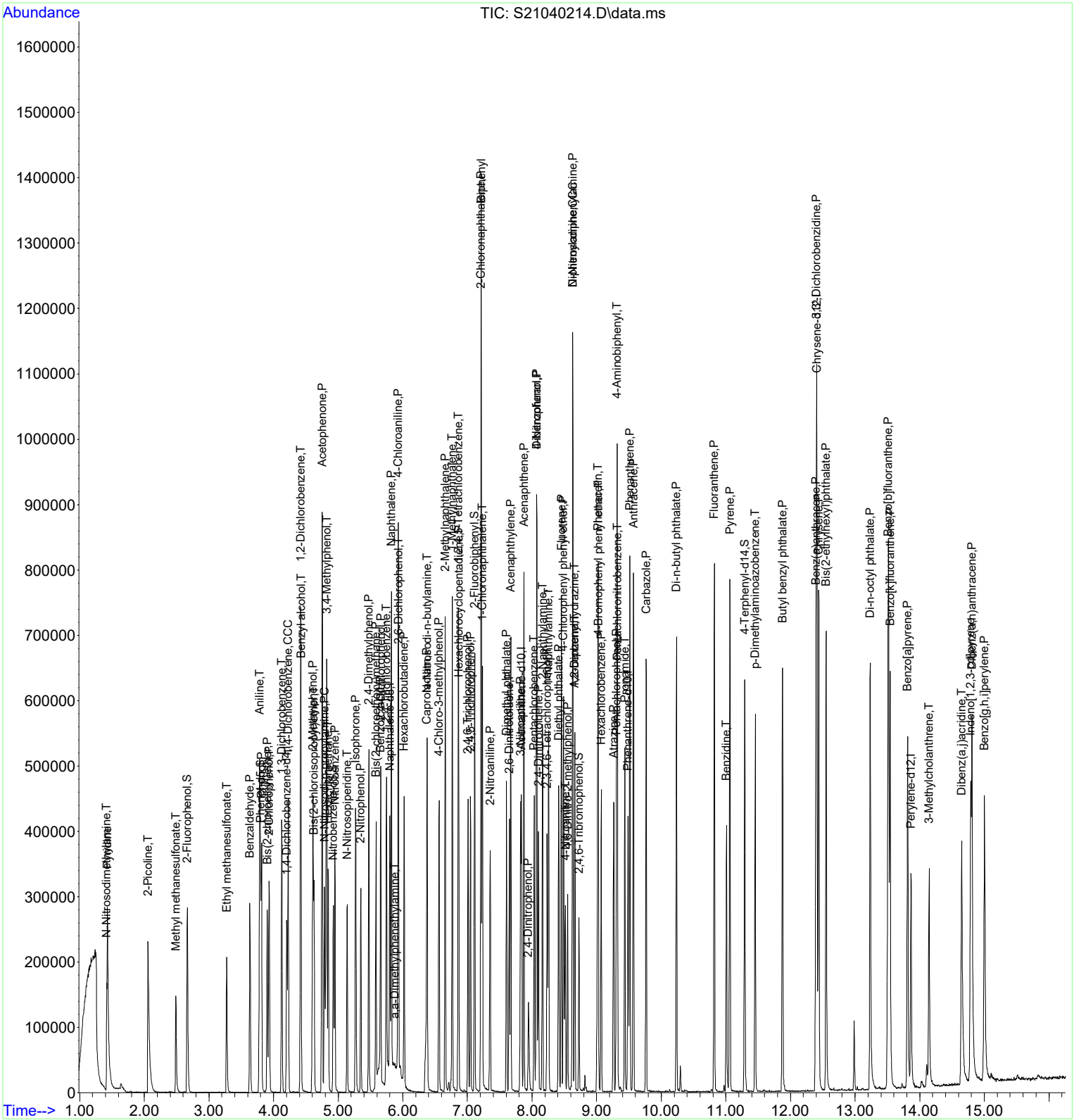
Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
105) Benzo[b]fluoranthene	...	13.513	252	232088	61.27	ng	94
106) Benzo[k]fluoranthene	...	13.544	252	205416	60.70	ng	96
107) Benzo[a]pyrene	...	13.813	252	201726	61.92	ng	96
108) Dibenz(a,j)acridine	...	14.651	279	172712	63.12	ng	99
109) Indeno[1,2,3-cd]pyrene	...	14.790	276	242526	62.70	ng	97
110) Dibenz(a,h)anthracene	...	14.810	278	200919	63.51	ng	97
111) Benzo[g,h,i]perylene	...	15.003	276	195861	61.28	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040214.D
Acq On : 2 Apr 2021 4:22 pm
Operator : yh
Sample : BNA60 973-73/
Misc : ICAL 8270C_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 07 09:17:43 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:07:18 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040215.D
Acq On : 2 Apr 2021 4:48 pm
Operator : yh
Sample : BNA80 973-73/
Misc : ICAL 8270C_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 07 09:20:22 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:18:57 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.206	152	43051	40.00	ng		0.00
23) Naphthalene-d8	...	5.801	136	164610	40.00	ng		0.00
45) Acenaphthene-d10	...	7.839	164	88617	40.00	ng		0.00
73) Phenanthrene-d10	...	9.488	188	155250	40.00	ng		0.00
92) Chrysene-d12	...	12.411	240	127021	40.00	ng		0.00
104) Perylene-d12	...	13.870	264	117846	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.668	112	119062	80.57	ng		0.00
Spiked Amount 100.000	Range 21 - 119			Recovery = 80.57%				
9) Phenol-d5	...	3.803	99	140414	77.69	ng		0.00
Spiked Amount 100.000	Range 10 - 121			Recovery = 77.69%				
24) Nitrobenzene-d5	...	4.930	82	124954	81.92	ng		0.00
Spiked Amount 50.000	Range 34 - 114			Recovery = 163.84%#				
50) 2-Fluorobiphenyl	...	7.115	172	234151	80.34	ng		0.00
Spiked Amount 50.000	Range 43 - 116			Recovery = 160.68%#				
72) 2,4,6-Tribromophenol	...	8.730	330	24337	79.16	ng		0.00
Spiked Amount 100.000	Range 10 - 123			Recovery = 79.16%				
94) 4-Terphenyl-d14	...	11.296	244	263709	81.54	ng		0.00
Spiked Amount 50.000	Range 33 - 141			Recovery = 163.08%#				
Target Compounds					Qvalue			
2) Pyridine	...	1.430	79	141140	78.14	ng	#	89
3) 2-Picoline	...	2.057	93	139400	78.70	ng		98
4) Methyl methanesulfonate	...	2.492	80	70939	80.35	ng		99
6) Ethyl methanesulfonate	...	3.281	79	106422	79.79	ng		96
7) Benzaldehyde	...	3.635	105	79675	78.62	ng		98
8) Aniline	...	3.789	66	86170	78.79	ng	#	84
10) Phenol	...	3.820	94	155431	72.39	ng		97
11) Bis(2-chloroethyl)ether	...	3.905	93	115011	76.03	ng		87
12) 2-Chlorophenol	...	3.933	128	127007	79.14	ng		97
13) 1,3-Dichlorobenzene	...	4.126	146	137682	77.48	ng		97
14) 1,4-Dichlorobenzene	...	4.226	146	140050	78.41	ng		98
15) 1,2-Dichlorobenzene	...	4.419	146	132600	78.28	ng		96
16) Benzyl alcohol	...	4.427	108	84286	78.79	ng	#	72
17) Bis(2-chloroisopropyl)ether	...	4.629	45	219713	76.98	ng		85
18) 2-Methylphenol	...	4.615	107	100633	78.21	ng		95
19) 3,4-Methylphenol	...	4.830	107	260166	151.22	ng		98
20) N-Nitrosodi-n-propylamine	...	4.793	70	83316	77.50	ng		85
21) N-Nitrosodimethylamine	...	1.422	42	79196	79.55	ng	#	73
22) Hexachloroethane	...	4.847	117	53314	77.71	ng		94
25) Acetophenone	...	4.756	105	334273	155.68	ng		97
26) Nitrobenzene	...	4.955	123	61397	80.74	ng	#	86
27) N-Nitrosopiperidine	...	5.145	114	61412	79.94	ng	#	72
28) Isophorone	...	5.276	82	245465	81.33	ng		99
29) 2-Nitrophenol	...	5.355	139	66270	83.78	ng		96
30) 2,4-Dimethylphenol	...	5.480	122	110423	81.62	ng		99
31) Bis(2-chloroethoxy)methane	...	5.588	93	142331	80.62	ng		99
32) 2,4-Dichlorophenol	...	5.662	162	97851	81.51	ng		100
33) 1,2,4-Trichlorobenzene	...	5.750	180	108299	81.37	ng		100
34) Naphthalene	...	5.827	128	377309	82.11	ng		100
35) Benzoic acid	...	5.673	105	73311	78.56	ng		85
36) 2,6-Dichlorophenol	...	5.937	162	96517	82.48	ng		99
37) 4-Chloroaniline	...	5.932	127	153246	81.84	ng		97
38) Hexachlorobutadiene	...	6.022	225	53998	83.26	ng		97
39) a,a-Dimethylphenethylamine	...	5.923	58	407992	82.81	ng		85
40) Caprolactam	...	6.400	113	40350	85.02	ng	#	22

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040215.D
Acq On : 2 Apr 2021 4:48 pm
Operator : yh
Sample : BNA80 973-73/
Misc : ICAL 8270C_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 07 09:20:22 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:18:57 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.567	107	104477	82.93	ng		96
42) N-Nitrosodi-n-butylamine	6.380	84	108142	94.14	ng	#	81
43) 2-Methylnaphthalene	6.658	141	215405	82.10	ng		100
44) 1-Methylnaphthalene	6.769	141	206653	81.45	ng		99
46) 1,2,4,5-Tetrachlorobenzene	6.860	216	95505	80.64	ng		98
47) Hexachlorocyclopentadiene	6.865	237	59662	82.70	ng		96
48) 2,4,6-Trichlorophenol	7.013	196	67769	80.56	ng		97
49) 2,4,5-Trichlorophenol	7.053	196	72403	83.01	ng		97
51) Biphenyl	7.214	154	287529	82.54	ng		98
52) 2-Chloronaphthalene	7.214	162	215431	80.08	ng		96
53) 1-Chloronaphthalene	7.234	162	198532	83.73	ng		97
54) 2-Nitroaniline	7.356	65	77276	82.40	ng		92
55) 3-Nitroaniline	7.830	138	73849	85.05	ng		98
56) Pentachlorobenzene	8.037	250	80606	82.12	ng		96
57) 4-Nitroaniline	8.526	138	69559	81.61	ng		92
58) 2-Naphthylamine	8.165	143	226731	80.67	ng		100
59) 1-Naphthylamine	8.262	143	240380	82.12	ng		100
60) Dimethyl phthalate	7.612	163	238640	82.24	ng		100
61) Acenaphthylene	7.671	152	350455	82.62	ng		100
62) 2,6-Dinitrotoluene	7.652	165	54606	82.64	ng	#	79
63) Acenaphthene	7.876	154	207317	81.50	ng		99
64) 2,4-Dinitrophenol	7.949	184	32636	81.74	ng		93
65) Dibenzofuran	8.074	168	304341	81.88	ng	#	62
66) 4-Nitrophenol	8.080	109	40181	85.89	ng	#	1
67) 2,4-Dinitrotoluene	8.106	165	76483	84.04	ng		91
68) 2,3,4,6-Tetrachlorophenol	8.236	232	55540	85.69	ng		97
69) Diethyl phthalate	8.418	149	245675	82.52	ng		100
70) Fluorene	8.458	166	256470	82.97	ng		100
71) 4-Chlorophenyl phenyl ether	8.489	204	103626	80.30	ng		95
74) 4,6-Dinitro-2-methylphenol	8.560	198	45109	80.60	ng		88
75) Azobenzene	8.665	77	250825	80.46	ng		93
76) 1,2-Diphenylhydrazine	8.665	182	60802	81.81	ng		92
77) Diphenylamine	8.636	170	44333	81.93	ng		99
78) N-Nitrosodiphenylamine	8.636	168	219310	81.59	ng		99
79) 4-Bromophenyl phenyl ether	9.025	248	63035	81.41	ng		97
80) Phenacetin	9.028	108	137386	84.05	ng		99
81) Hexachlorobenzene	9.073	284	58972	80.24	ng		94
82) Atrazine	9.269	200	60680	81.88	ng	#	88
83) 4-Aminobiphenyl	9.323	169	273295	83.51	ng		99
84) Pentachlorophenol	9.312	266	46558	85.27	ng		97
85) Pentachloronitrobenzene	9.326	237	28825	86.24	ng		92
86) Pronamide	9.440	173	98733	83.62	ng		93
87) Phenanthrene	9.516	178	371422	81.09	ng		99
88) Anthracene	9.573	178	381616	82.75	ng		100
89) Carbazole	9.772	167	323944	83.29	ng		99
90) Di-n-butyl phthalate	10.237	149	447637	84.31	ng		99
91) Fluoranthene	10.827	202	397933	83.13	ng		99
93) Pyrene	11.066	202	405527	82.25	ng		100
95) Benzidine	11.012	184	183681	83.03	ng		99
96) p-Dimethylaminoazobenzene	11.458	225	72961	84.08	ng	#	87
97) Butyl benzyl phthalate	11.880	149	197883	83.46	ng		97
98) Benz(a)anthracene	12.400	228	353987	82.99	ng		100
99) 3,3'-Dichlorobenzidine	12.411	252	126067	84.38	ng		98
100) Chrysene	12.442	228	343740	81.59	ng		99
101) Bis(2-ethylhexyl)phthalate	12.553	149	267396	83.34	ng		95
102) Di-n-octyl phthalate	13.234	149	473423	86.24	ng		92
103) 3-Methylcholanthrene	14.148	268	106216	85.98	ng		96

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040215.D
Acq On : 2 Apr 2021 4:48 pm
Operator : yh
Sample : BNA80 973-73/
Misc : ICAL 8270C_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 07 09:20:22 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:18:57 2021
Response via : Initial Calibration

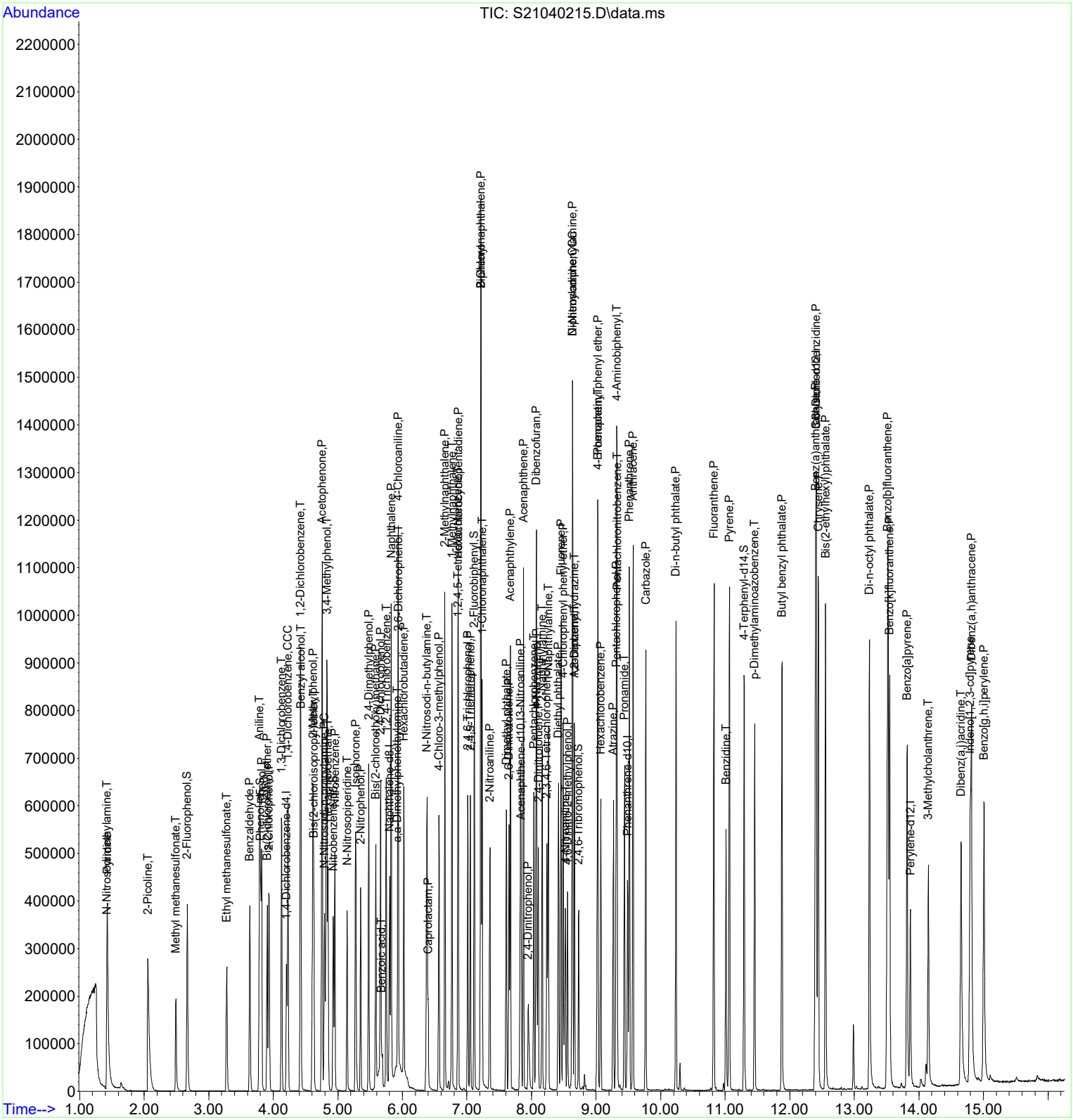
Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene	...	13.518	252	337584	78.93	ng		95
106) Benzo[k]fluoranthene	...	13.549	252	303948	79.54	ng		96
107) Benzo[a]pyrene	...	13.819	252	287804	78.24	ng		97
108) Dibenz(a,j)acridine	...	14.653	279	252104	81.60	ng		99
109) Indeno[1,2,3-cd]pyrene	...	14.795	276	340217	77.90	ng	#	94
110) Dibenz(a,h)anthracene	...	14.815	278	285417	79.90	ng		96
111) Benzo[g,h,i]perylene	...	15.011	276	281483	78.00	ng		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040215.D
Acq On : 2 Apr 2021 4:48 pm
Operator : yh
Sample : BNA80 973-73/
Misc : ICAL 8270C_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 07 09:20:22 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:18:57 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040216.D
Acq On : 2 Apr 2021 5:13 pm
Operator : yh
Sample : BNA120 973-73/
Misc : ICAL 8270C_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 07 09:22:24 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:21:24 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.206	152	41434	40.00	ng		0.00
23) Naphthalene-d8	...	5.801	136	167935	40.00	ng		0.00
45) Acenaphthene-d10	...	7.839	164	88844	40.00	ng		0.00
73) Phenanthrene-d10	...	9.491	188	158395	40.00	ng		0.00
92) Chrysene-d12	...	12.414	240	126308	40.00	ng		0.00
104) Perylene-d12	...	13.870	264	111057	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.671	112	174327	122.57	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 122.57%#					
9) Phenol-d5	...	3.812	99	209572	120.48	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 120.48%					
24) Nitrobenzene-d5	...	4.935	82	187207	120.31	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 240.62%#					
50) 2-Fluorobiphenyl	...	7.118	172	356886	122.15	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 244.30%#					
72) 2,4,6-Tribromophenol	...	8.736	330	37411	119.03	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 119.03%					
94) 4-Terphenyl-d14	...	11.299	244	397959	123.74	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 247.48%#					
Target Compounds								Qvalue
2) Pyridine	...	1.430	79	208869	120.15	ng	#	88
3) 2-Picoline	...	2.055	93	212264	124.52	ng		99
4) Methyl methanesulfonate	...	2.495	80	105356	123.99	ng		98
6) Ethyl methanesulfonate	...	3.286	79	158712	123.65	ng		95
7) Benzaldehyde	...	3.638	105	114728	117.63	ng		99
8) Aniline	...	3.792	66	127185	120.82	ng	#	84
10) Phenol	...	3.829	94	258568	125.13	ng		92
11) Bis(2-chloroethyl)ether	...	3.911	93	177928	122.22	ng		88
12) 2-Chlorophenol	...	3.936	128	189677	122.80	ng		93
13) 1,3-Dichlorobenzene	...	4.132	146	209785	122.66	ng		97
14) 1,4-Dichlorobenzene	...	4.229	146	207953	120.97	ng		97
15) 1,2-Dichlorobenzene	...	4.422	146	199857	122.59	ng		97
16) Benzyl alcohol	...	4.433	108	127182	123.52	ng	#	71
17) Bis(2-chloroisopropyl)ether	...	4.629	45	325962	118.67	ng		85
18) 2-Methylphenol	...	4.623	107	153403	123.87	ng		96
19) 3,4-Methylphenol	...	4.839	107	383952	231.88	ng		98
20) N-Nitrosodi-n-propylamine	...	4.802	70	113247	109.46	ng		86
21) N-Nitrosodimethylamine	...	1.422	42	116311	121.39	ng	#	76
22) Hexachloroethane	...	4.847	117	78314	118.60	ng		98
25) Acetophenone	...	4.768	105	498050	227.36	ng		97
26) Nitrobenzene	...	4.961	123	93406	120.40	ng		90
27) N-Nitrosopiperidine	...	5.154	114	91371	116.58	ng	#	69
28) Isophorone	...	5.285	82	371799	120.75	ng		99
29) 2-Nitrophenol	...	5.358	139	100924	125.07	ng		94
30) 2,4-Dimethylphenol	...	5.486	122	165943	120.22	ng		99
31) Bis(2-chloroethoxy)methane	...	5.594	93	215582	119.69	ng		99
32) 2,4-Dichlorophenol	...	5.668	162	146590	119.69	ng		100
33) 1,2,4-Trichlorobenzene	...	5.753	180	163489	120.41	ng		100
34) Naphthalene	...	5.829	128	557890	119.00	ng		99
35) Benzoic acid	...	5.710	105	118798	118.19	ng		99
36) 2,6-Dichlorophenol	...	5.940	162	145695	122.04	ng		100
37) 4-Chloroaniline	...	5.937	127	232117	121.51	ng		97
38) Hexachlorobutadiene	...	6.025	225	81435	123.08	ng		98
39) a,a-Dimethylphenethylamine	...	6.088	58	618618	123.03	ng		85
40) Caprolactam	...	6.431	113	58030	119.85	ng	#	64

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040216.D
Acq On : 2 Apr 2021 5:13 pm
Operator : yh
Sample : BNA120 973-73/
Misc : ICAL 8270C_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 07 09:22:24 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:21:24 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.576	107	157820	122.78	ng		96
42) N-Nitrosodi-n-butylamine	6.389	84	133573	113.97	ng		83
43) 2-Methylnaphthalene	6.661	141	325113	121.45	ng		99
44) 1-Methylnaphthalene	6.772	141	311497	120.34	ng		99
46) 1,2,4,5-Tetrachlorobenzene	6.865	216	144185	121.44	ng		99
47) Hexachlorocyclopentadiene	6.868	237	92619	128.06	ng		96
48) 2,4,6-Trichlorophenol	7.019	196	104433	125.05	ng		98
49) 2,4,5-Trichlorophenol	7.061	196	107943	123.43	ng		97
51) Biphenyl	7.220	154	428075	122.57	ng		98
52) 2-Chloronaphthalene	7.217	162	339933	126.03	ng		97
53) 1-Chloronaphthalene	7.240	162	270132	113.63	ng		98
54) 2-Nitroaniline	7.362	65	116317	123.72	ng		94
55) 3-Nitroaniline	7.839	138	108392	124.51	ng	#	99
56) Pentachlorobenzene	8.040	250	119134	121.06	ng		96
57) 4-Nitroaniline	8.537	138	104348	122.11	ng		93
58) 2-Naphthylamine	8.171	143	336809	119.53	ng		100
59) 1-Naphthylamine	8.268	143	352111	119.99	ng		99
60) Dimethyl phthalate	7.618	163	356740	122.63	ng		100
61) Acenaphthylene	7.677	152	516752	121.51	ng		100
62) 2,6-Dinitrotoluene	7.660	165	83037	125.35	ng		85
63) Acenaphthene	7.882	154	307247	120.48	ng		99
64) 2,4-Dinitrophenol	7.961	184	51124	120.63	ng		92
65) Dibenzofuran	8.080	168	452499	121.42	ng	#	63
66) 4-Nitrophenol	8.094	109	60838	129.71	ng	#	1
67) 2,4-Dinitrotoluene	8.117	165	112739	123.56	ng		87
68) 2,3,4,6-Tetrachlorophenol	8.242	232	82519	126.99	ng		97
69) Diethyl phthalate	8.424	149	369886	123.93	ng		99
70) Fluorene	8.461	166	381896	123.24	ng		100
71) 4-Chlorophenyl phenyl ether	8.492	204	153277	118.47	ng		94
74) 4,6-Dinitro-2-methylphenol	8.568	198	69527	117.32	ng		88
75) Azobenzene	8.668	77	369170	116.07	ng		94
76) 1,2-Diphenylhydrazine	8.671	182	88842	117.16	ng	#	91
77) Diphenylamine	8.642	170	65904	119.37	ng		98
78) N-Nitrosodiphenylamine	8.642	168	325402	118.66	ng		100
79) 4-Bromophenyl phenyl ether	9.031	248	93181	117.96	ng		98
80) Phenacetin	9.042	108	204734	122.76	ng		99
81) Hexachlorobenzene	9.079	284	87070	116.12	ng		95
82) Atrazine	9.278	200	89506	118.38	ng	#	90
83) 4-Aminobiphenyl	9.329	169	410139	122.84	ng		99
84) Pentachlorophenol	9.318	266	71429	128.22	ng		99
85) Pentachloronitrobenzene	9.332	237	41193	120.79	ng		94
86) Pronamide	9.448	173	147920	122.79	ng		95
87) Phenanthrene	9.522	178	553929	118.53	ng		99
88) Anthracene	9.579	178	559638	118.94	ng		99
89) Carbazole	9.777	167	483144	121.76	ng		99
90) Di-n-butyl phthalate	10.240	149	664614	122.69	ng		99
91) Fluoranthene	10.830	202	591037	121.02	ng		99
93) Pyrene	11.072	202	594385	121.23	ng		99
95) Benzidine	11.018	184	275335	125.16	ng		100
96) p-Dimethylaminoazobenzene	11.461	225	107457	124.53	ng	#	85
97) Butyl benzyl phthalate	11.881	149	294628	124.96	ng		97
98) Benz(a)anthracene	12.403	228	520594	122.74	ng		99
99) 3,3'-Dichlorobenzidine	12.417	252	184217	124.00	ng		99
100) Chrysene	12.448	228	495745	118.33	ng		99
101) Bis(2-ethylhexyl)phthalate	12.556	149	398596	124.93	ng		93
102) Di-n-octyl phthalate	13.240	149	701000	128.41	ng		93
103) 3-Methylcholanthrene	14.154	268	151566	123.38	ng		97

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040216.D
Acq On : 2 Apr 2021 5:13 pm
Operator : yh
Sample : BNA120 973-73/
Misc : ICAL 8270C_W
ALS Vial : 9 Sample Multiplier: 1

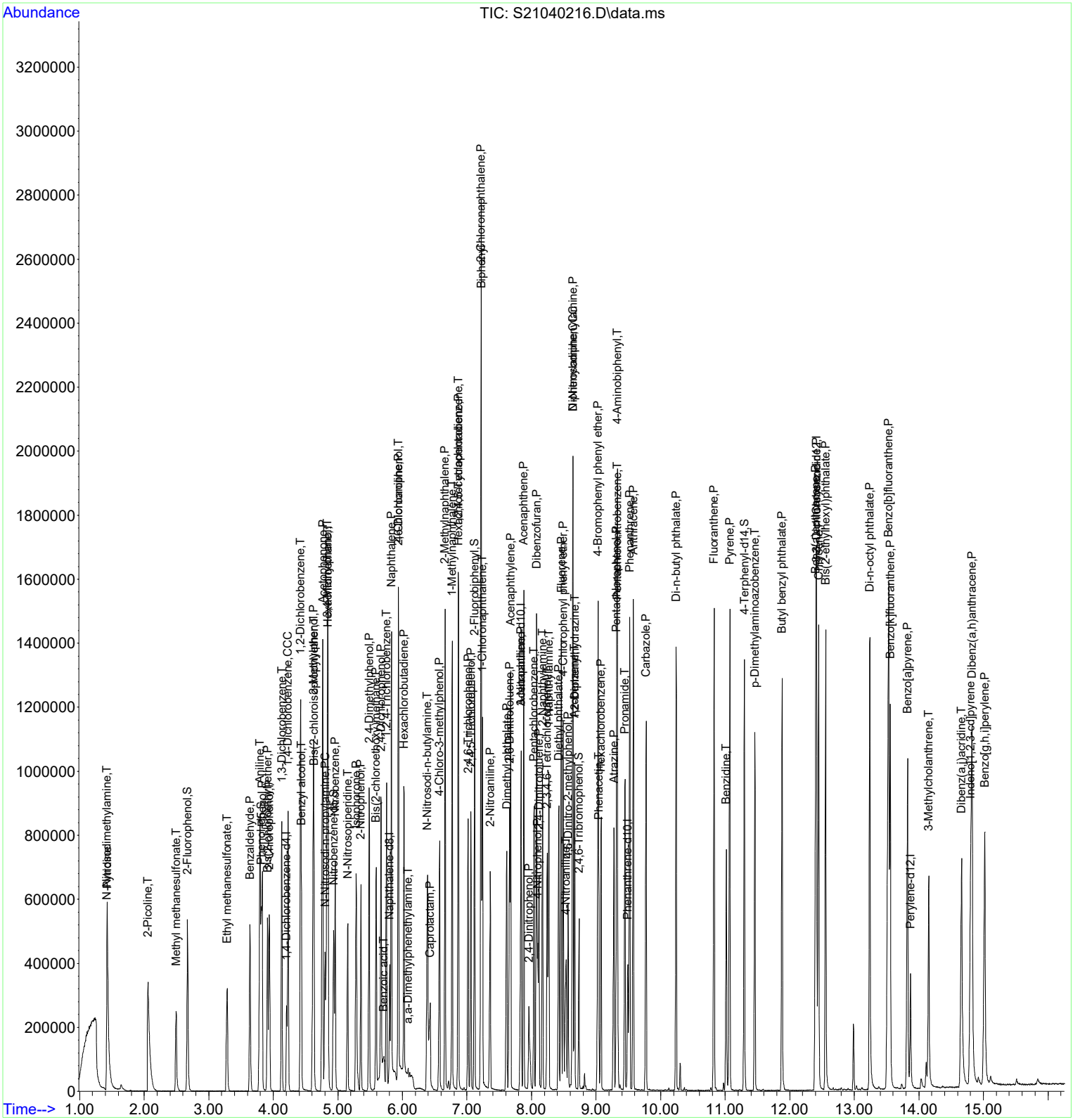
Quant Time: Apr 07 09:22:24 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:21:24 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene	...	13.532	252	513046	127.29	ng		94
106) Benzo[k]fluoranthene	...	13.558	252	391839	108.81	ng		97
107) Benzo[a]pyrene	...	13.825	252	429833	123.99	ng		97
108) Dibenz(a,j)acridine	...	14.662	279	371324	127.53	ng		98
109) Indeno[1,2,3-cd]pyrene	...	14.804	276	516815	125.58	ng	#	89
110) Dibenz(a,h)anthracene	...	14.824	278	426621	126.74	ng		97
111) Benzo[g,h,i]perylene	...	15.023	276	417121	122.66	ng		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040216.D
Acq On : 2 Apr 2021 5:13 pm
Operator : yh
Sample : BNA120 973-73/
Misc : ICAL 8270C_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 07 09:22:24 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:21:24 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040217.D
Acq On : 2 Apr 2021 5:40 pm
Operator : yh
Sample : BNA160 973-73/
Misc : ICAL 8270C_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 07 09:25:36 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:23:47 2021
Response via : Initial Calibration

Internal Standards			R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4		...	4.209	152	39276	40.00	ng		0.00
23) Naphthalene-d8		...	5.804	136	158782	40.00	ng		0.00
45) Acenaphthene-d10		...	7.842	164	85892	40.00	ng		0.00
73) Phenanthrene-d10		...	9.494	188	151096	40.00	ng		0.00
92) Chrysene-d12		...	12.420	240	123318	40.00	ng		0.00
104) Perylene-d12		...	13.873	264	106727	40.00	ng		0.00
System Monitoring Compounds									
5) 2-Fluorophenol		...	2.676	112	219349	162.70	ng		0.00
Spiked Amount	100.000	Range	21 - 119		Recovery =	162.70%	#		
9) Phenol-d5		...	3.820	99	263271	159.66	ng		0.00
Spiked Amount	100.000	Range	10 - 121		Recovery =	159.66%	#		
24) Nitrobenzene-d5		...	4.941	82	239929	163.08	ng		0.00
Spiked Amount	50.000	Range	34 - 114		Recovery =	326.16%	#		
50) 2-Fluorobiphenyl		...	7.121	172	448992	158.95	ng		0.00
Spiked Amount	50.000	Range	43 - 116		Recovery =	317.90%	#		
72) 2,4,6-Tribromophenol		...	8.739	330	49534	161.40	ng		0.00
Spiked Amount	100.000	Range	10 - 123		Recovery =	161.40%	#		
94) 4-Terphenyl-d14		...	11.302	244	511829	163.01	ng		0.00
Spiked Amount	50.000	Range	33 - 141		Recovery =	326.02%	#		
Target Compounds									Qvalue
2) Pyridine		...	1.430	79	265388	161.05	ng		89
3) 2-Picoline		...	2.055	93	264053	163.41	ng		98
4) Methyl methanesulfonate		...	2.500	80	131803	163.63	ng		98
6) Ethyl methanesulfonate		...	3.292	79	196233	161.28	ng		96
7) Benzaldehyde		...	3.641	105	139972	151.40	ng		98
8) Aniline		...	3.797	66	164526	164.88	ng	#	81
10) Phenol		...	3.837	94	319102	162.91	ng		92
11) Bis(2-chloroethyl)ether		...	3.917	93	220888	160.06	ng		89
12) 2-Chlorophenol		...	3.942	128	236604	161.60	ng		94
13) 1,3-Dichlorobenzene		...	4.132	146	262880	162.15	ng		97
14) 1,4-Dichlorobenzene		...	4.232	146	257855	158.24	ng		97
15) 1,2-Dichlorobenzene		...	4.425	146	251803	162.93	ng		98
16) Benzyl alcohol		...	4.442	108	161207	165.17	ng	#	71
17) Bis(2-chloroisopropyl)ether		...	4.632	45	405956	155.91	ng		85
18) 2-Methylphenol		...	4.626	107	189387	161.34	ng		95
19) 3,4-Methylphenol		...	4.845	107	490819	312.71	ng		97
20) N-Nitrosodi-n-propylamine		...	4.811	70	170961	174.32	ng		95
21) N-Nitrosodimethylamine		...	1.425	42	147119	161.99	ng	#	75
22) Hexachloroethane		...	4.850	117	99394	158.80	ng		97
25) Acetophenone		...	4.771	105	634169	306.19	ng		97
26) Nitrobenzene		...	4.967	123	116688	159.08	ng		88
27) N-Nitrosopiperidine		...	5.160	114	118412	159.79	ng	#	71
28) Isophorone		...	5.290	82	472311	162.23	ng		99
29) 2-Nitrophenol		...	5.364	139	129840	170.18	ng		95
30) 2,4-Dimethylphenol		...	5.492	122	210236	161.09	ng		99
31) Bis(2-chloroethoxy)methane		...	5.597	93	269293	158.13	ng		99
32) 2,4-Dichlorophenol		...	5.676	162	188970	163.19	ng		99
33) 1,2,4-Trichlorobenzene		...	5.756	180	203686	158.66	ng		99
34) Naphthalene		...	5.832	128	717086	161.77	ng		100
35) Benzoic acid		...	5.724	105	160070	163.33	ng		98
36) 2,6-Dichlorophenol		...	5.940	162	182332	161.53	ng		98
37) 4-Chloroaniline		...	5.943	127	294251	162.92	ng		96
38) Hexachlorobutadiene		...	6.025	225	103186	164.95	ng		97
39) a,a-Dimethylphenethylamine		...	6.079	58	790431	166.23	ng		90
40) Caprolactam		...	6.457	113	75089	164.02	ng	#	58

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040217.D
Acq On : 2 Apr 2021 5:40 pm
Operator : yh
Sample : BNA160 973-73/
Misc : ICAL 8270C_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 07 09:25:36 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:23:47 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.584	107	201362	165.69	ng		98
42) N-Nitrosodi-n-butylamine	6.394	84	158955	143.45	ng		80
43) 2-Methylnaphthalene	6.664	141	412044	162.80	ng		99
44) 1-Methylnaphthalene	6.775	141	395722	161.69	ng		100
46) 1,2,4,5-Tetrachlorobenzene	6.868	216	183292	159.68	ng		98
47) Hexachlorocyclopentadiene	6.871	237	120897	172.90	ng		95
48) 2,4,6-Trichlorophenol	7.022	196	133191	165.80	ng		98
49) 2,4,5-Trichlorophenol	7.067	196	139429	164.92	ng		98
51) Biphenyl	7.226	154	537710	159.25	ng		99
52) 2-Chloronaphthalene	7.223	162	431259	165.38	ng		98
53) 1-Chloronaphthalene	7.243	162	323003	140.54	ng		99
54) 2-Nitroaniline	7.368	65	151047	166.18	ng		93
55) 3-Nitroaniline	7.845	138	139971	166.31	ng	#	98
56) Pentachlorobenzene	8.043	250	158439	166.53	ng		97
57) 4-Nitroaniline	8.551	138	136139	164.79	ng	#	83
58) 2-Naphthylamine	8.177	143	429230	157.57	ng		99
59) 1-Naphthylamine	8.276	143	452583	159.53	ng		100
60) Dimethyl phthalate	7.620	163	462428	164.43	ng		99
61) Acenaphthylene	7.680	152	659363	160.38	ng		99
62) 2,6-Dinitrotoluene	7.666	165	108095	168.78	ng	#	84
63) Acenaphthene	7.884	154	396646	160.88	ng		99
64) 2,4-Dinitrophenol	7.970	184	67358	159.82	ng		94
65) Dibenzofuran	8.083	168	580198	161.04	ng		83
66) 4-Nitrophenol	8.106	109	79394	175.09	ng	#	73
67) 2,4-Dinitrotoluene	8.126	165	146708	166.32	ng		93
68) 2,3,4,6-Tetrachlorophenol	8.248	232	106664	169.79	ng		97
69) Diethyl phthalate	8.429	149	481774	166.96	ng		100
70) Fluorene	8.466	166	481069	160.58	ng		97
71) 4-Chlorophenyl phenyl ether	8.495	204	201406	161.03	ng		97
74) 4,6-Dinitro-2-methylphenol	8.577	198	93500	161.83	ng	#	80
75) Azobenzene	8.673	77	463072	152.62	ng		93
76) 1,2-Diphenylhydrazine	8.673	182	113171	156.45	ng		94
77) Diphenylamine	8.648	170	86020	163.34	ng		98
78) N-Nitrosodiphenylamine	8.648	168	416457	159.20	ng		99
79) 4-Bromophenyl phenyl ether	9.034	248	123962	164.51	ng		97
80) Phenacetin	9.054	108	264547	166.29	ng		99
81) Hexachlorobenzene	9.082	284	116334	162.64	ng		98
82) Atrazine	9.286	200	111280	154.29	ng	#	90
83) 4-Aminobiphenyl	9.335	169	513901	161.35	ng		99
84) Pentachlorophenol	9.323	266	91912	172.96	ng		100
85) Pentachloronitrobenzene	9.329	237	55390	170.27	ng		95
86) Pronamide	9.454	173	191159	166.35	ng		94
87) Phenanthrene	9.528	178	715926	160.60	ng		100
88) Anthracene	9.584	178	719036	160.20	ng		99
89) Carbazole	9.780	167	628397	166.01	ng		98
90) Di-n-butyl phthalate	10.243	149	867299	167.85	ng		99
91) Fluoranthene	10.833	202	764953	164.20	ng		99
93) Pyrene	11.077	202	762089	159.21	ng		100
95) Benzidine	11.023	184	346578	161.36	ng		100
96) p-Dimethylaminoazobenzene	11.466	225	138181	164.02	ng	#	85
97) Butyl benzyl phthalate	11.886	149	381495	165.73	ng		97
98) Benz(a)anthracene	12.409	228	685762	165.61	ng		99
99) 3,3'-Dichlorobenzidine	12.423	252	240523	165.82	ng		99
100) Chrysene	12.454	228	648979	158.67	ng		100
101) Bis(2-ethylhexyl)phthalate	12.559	149	518944	166.59	ng		94
102) Di-n-octyl phthalate	13.246	149	923354	173.25	ng		94
103) 3-Methylcholanthrene	14.160	268	200145	166.87	ng		97

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040217.D
Acq On : 2 Apr 2021 5:40 pm
Operator : yh
Sample : BNA160 973-73/
Misc : ICAL 8270C_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 07 09:25:36 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:23:47 2021
Response via : Initial Calibration

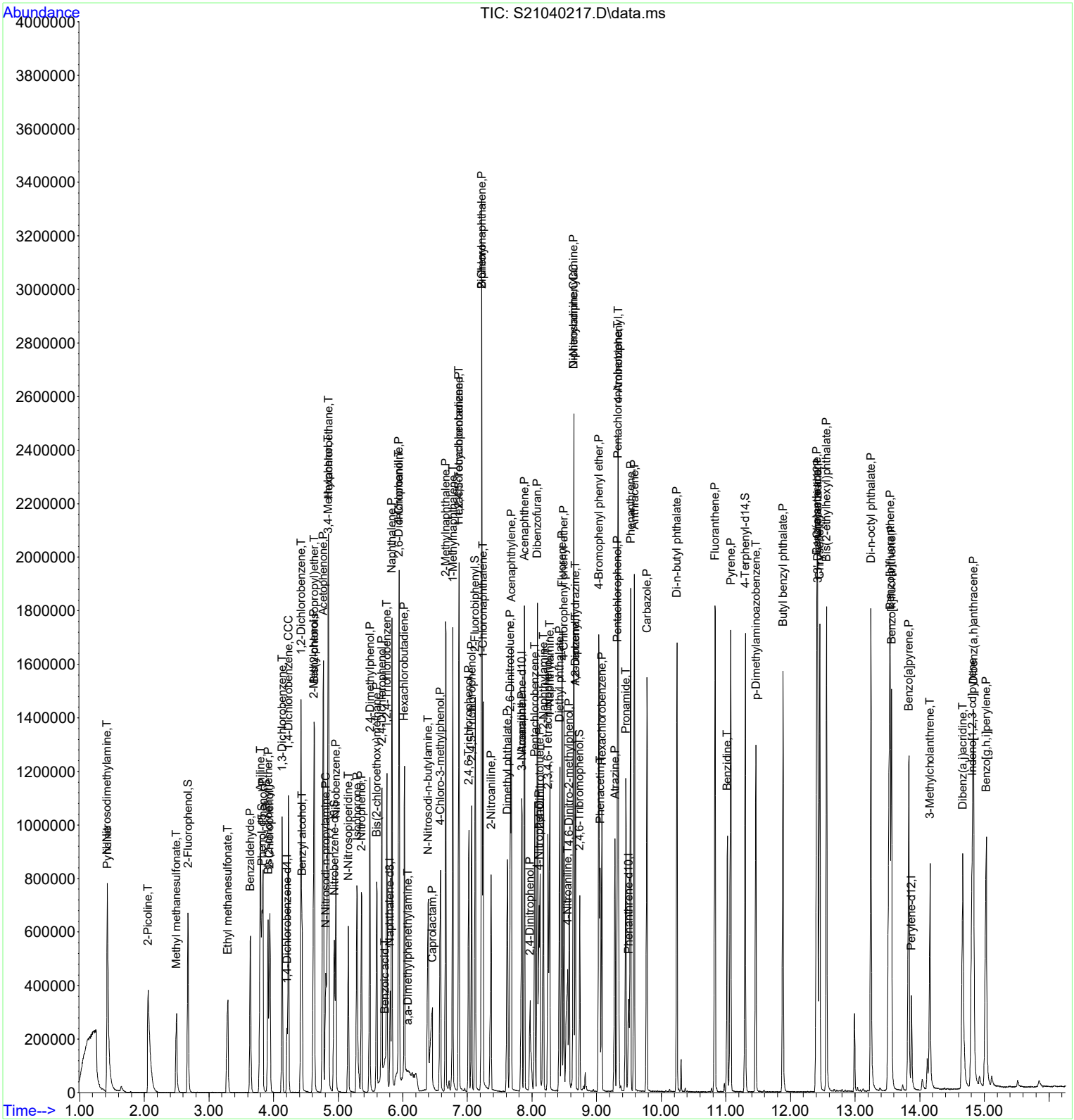
Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene	...	13.544	252	738681	190.70	ng		96
106) Benzo[k]fluoranthene	...	13.567	252	490718	141.80	ng		98
107) Benzo[a]pyrene	...	13.833	252	565513	169.74	ng		97
108) Dibenz(a,j)acridine	...	14.671	279	501905	179.37	ng		100
109) Indeno[1,2,3-cd]pyrene	...	14.815	276	672532	170.04	ng	#	84
110) Dibenz(a,h)anthracene	...	14.835	278	557423	172.31	ng		97
111) Benzo[g,h,i]perylene	...	15.031	276	543331	166.25	ng		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210402\
Data File : S21040217.D
Acq On : 2 Apr 2021 5:40 pm
Operator : yh
Sample : BNA160 973-73/
Misc : ICAL 8270C_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 07 09:25:36 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:23:47 2021
Response via : Initial Calibration



Response Factor Report MS-9

Method Path : C:\MS-9\New\Calculation Methods\
Method File : B040221.M
Title : MS-9 BNA CURVE 8270E/625
Last Update : Wed Apr 07 09:38:04 2021
Response Via : Initial Calibration

Calibration Files
160 =S21040217.D 60 =S21040214.D 40 =S21040213.D 120 =S21040216.D 80 =S21040215.D 10 =S21040211.D 20 =S21040212.D
5 =S21040218.D

		Compound	160	60	40	120	80	10	20	5	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		Pyridine	1.689	1.673	1.709	1.680	1.639	1.667	1.690		1.678	1.30
3)	T	2-Picoline	1.681	1.682	1.670	1.708	1.619	1.600	1.561		1.646	3.24
4)	T	Methyl methane...	0.839	0.815	0.824	0.848	0.824	0.784	0.810		0.820	2.54
5)	S	2-Fluorophenol	1.396	1.397	1.416	1.402	1.383	1.266	1.350		1.373	3.75
6)	T	Ethyl methanes...	1.249	1.259	1.263	1.277	1.236	1.203	1.187		1.239	2.65
7)	P	Benzaldehyde	0.891	0.973	0.983	0.923	0.925	0.930	0.966		0.942	3.52
8)	T	Aniline	1.047	1.033	1.044	1.023	1.001	0.959	1.006		1.016	3.03
9)	S	Phenol-d5	1.676	1.679	1.728	1.686	1.631	1.694	1.661		1.679	1.78
10)	P	Phenol	2.031	1.866	2.095	2.080	1.805	2.034	2.052		1.995	5.64
11)	P	Bis(2-chloroet...	1.406	1.379	1.475	1.431	1.336	1.421	1.390		1.405	3.12
12)	P	2-Chlorophenol	1.506	1.500	1.520	1.526	1.475	1.456	1.455		1.491	1.95
13)	T	1,3-Dichlorobe...	1.673	1.669	1.696	1.688	1.599	1.610	1.623		1.651	2.39
14)	CCC	1,4-Dichlorobe...	1.641	1.660	1.713	1.673	1.627	1.688	1.615		1.660	2.09
15)	T	1,2-Dichlorobe...	1.603	1.578	1.596	1.608	1.540	1.527	1.565		1.574	1.99
16)	T	Benzyl alcohol	1.026	0.989	1.005	1.023	0.979	0.958	0.977		0.994	2.53
17)	T	Bis(2-chlorois...	2.584	2.646	2.750	2.622	2.552	2.717	2.691		2.652	2.71
18)	P	2-Methylphenol	1.205	1.206	1.225	1.234	1.169	1.137	1.191		1.196	2.80
19)	T	3,4-Methylphenol	1.562	1.569	1.563	1.544	1.511	1.507	1.503	1.548	1.538	1.78
20)	PC	N-Nitrosodi-n-...	1.088	1.054	1.074	0.911	0.968	1.102	1.051		1.035	6.75
21)	T	N-Nitrosodimet...	0.936	0.940	0.956	0.936	0.920	0.903	0.884		0.925	2.67
22)	T	Hexachloroethane	0.633	0.634	0.653	0.630	0.619	0.641	0.652		0.637	1.91
23)	I	Naphthalene-d8	----------ISTD----------									
24)	S	Nitrobenzene-d5	0.378	0.371	0.373	0.372	0.380	0.368	0.354		0.371	2.25
25)	P	Acetophenone	0.499	0.502	0.514	0.494	0.508	0.516	0.488	0.500	0.503	1.90
26)	P	Nitrobenzene	0.184	0.185	0.190	0.185	0.186	0.187	0.176		0.185	2.32
27)	T	N-Nitrosopiper...	0.186	0.185	0.193	0.181	0.187	0.193	0.182		0.187	2.50
28)	P	Isophorone	0.744	0.736	0.744	0.738	0.746	0.729	0.699		0.733	2.24
29)	P	2-Nitrophenol	0.204	0.198	0.198	0.200	0.201	0.174	0.170		0.192	7.32
30)	P	2,4-Dimethylph...	0.331	0.328	0.334	0.329	0.335	0.323	0.320		0.329	1.73
31)	P	Bis(2-chloroet...	0.424	0.433	0.442	0.428	0.432	0.428	0.415		0.429	1.94
32)	P	2,4-Dichloroph...	0.298	0.292	0.299	0.291	0.297	0.291	0.274		0.292	2.85
33)	T	1,2,4-Trichlor...	0.321	0.316	0.335	0.325	0.329	0.328	0.311		0.323	2.48
34)	P	Naphthalene	1.129	1.101	1.145	1.107	1.146	1.115	1.073		1.117	2.33
35)	T	Benzoic acid	0.252	0.200	0.182	0.236	0.223		0.166		0.210	15.76
36)	T	2,6-Dichloroph...	0.287	0.286	0.288	0.289	0.293	0.281	0.265		0.284	3.26
37)	P	4-Chloroaniline	0.463	0.462	0.467	0.461	0.465	0.430	0.437		0.455	3.30
38)	P	Hexachlorobuta...	0.162	0.155	0.156	0.162	0.164	0.154	0.149		0.158	3.35
39)	T	a,a-Dimethylph...	1.245	1.189	1.214	1.228	1.239	1.144	1.127		1.198	3.89
40)	P	Caprolactam	0.118	0.120	0.118	0.115	0.123	0.105	0.108		0.115	5.50
41)	P	4-Chloro-3-met...	0.317	0.312	0.308	0.313	0.317	0.285	0.290		0.306	4.31

Method Path : C:\MS-9\New\Calculation Methods\
Method File : B040221.M
Title : MS-9 BNA CURVE 8270E/625

42)	T	N-Nitrosodi-n-...	0.250	0.313	0.324	0.265	0.328	0.243	0.230	0.279	14.79
43)	P	2-Methylnaphth...	0.649	0.636	0.639	0.645	0.654	0.637	0.603	0.638	2.63
44)	T	1-Methylnaphth...	0.623	0.623	0.633	0.618	0.628	0.597	0.593	0.617	2.45
45)	I	Acenaphthene-d10	----------ISTD----------								
46)	T	1,2,4,5-Tetrac...	0.533	0.526	0.529	0.541	0.539	0.554	0.520	0.535	2.13
47)	P	Hexachlorocycl...	0.352	0.327	0.324	0.347	0.337	0.295	0.297	0.326	6.89
48)	P	2,4,6-Trichlor...	0.388	0.377	0.373	0.392	0.382	0.337	0.352	0.372	5.41
49)	P	2,4,5-Trichlor...	0.406	0.400	0.393	0.405	0.409	0.363	0.380	0.394	4.20
50)	S	2-Fluorobiphenyl	1.307	1.345	1.321	1.339	1.321	1.289	1.287	1.315	1.71
51)		Biphenyl	1.565	1.580	1.557	1.606	1.622	1.553	1.524	1.572	2.13
52)	P	2-Chloronaphth...	1.255	1.195	1.207	1.275	1.216	1.170	1.182	1.214	3.15
53)	T	1-Chloronaphth...	0.940	1.114	1.088	1.014	1.120	1.140	1.077	1.070	6.57
54)	P	2-Nitroaniline	0.440	0.429	0.418	0.436	0.436	0.392	0.412	0.423	4.06
55)	P	3-Nitroaniline	0.407	0.403	0.388	0.407	0.417	0.355	0.367	0.392	5.88
56)	T	Pentachloroben...	0.461	0.448	0.439	0.447	0.455	0.420	0.433	0.443	3.17
57)	T	4-Nitroaniline	0.396	0.390	0.379	0.392	0.392	0.369	0.375	0.385	2.71
58)	T	2-Naphthylamine	1.249	1.272	1.257	1.264	1.279	1.279	1.281	1.269	0.97
59)	T	1-Naphthylamine	1.317	1.328	1.310	1.321	1.356	1.313	1.302	1.321	1.33
60)	P	Dimethyl phtha...	1.346	1.330	1.281	1.338	1.346	1.281	1.245	1.310	3.08
61)	P	Acenaphthylene	1.919	1.943	1.915	1.939	1.977	1.843	1.867	1.915	2.42
62)	P	2,6-Dinitrotol...	0.315	0.311	0.301	0.312	0.308	0.269	0.273	0.298	6.49
63)	P	Acenaphthene	1.154	1.152	1.154	1.153	1.170	1.127	1.127	1.148	1.37
64)	P	2,4-Dinitrophenol	0.196	0.157	0.141	0.192	0.184		0.098	0.161	23.34
65)	P	Dibenzofuran	1.689	1.674	1.679	1.698	1.717	1.679	1.609	1.678	2.00
66)	P	4-Nitrophenol	0.231	0.226	0.219	0.228	0.227	0.150	0.198	0.211	13.88
67)	P	2,4-Dinitrotol...	0.427	0.425	0.409	0.423	0.432	0.382	0.379	0.411	5.37
68)	T	2,3,4,6-Tetrac...	0.310	0.309	0.285	0.310	0.313	0.259	0.262	0.293	8.18
69)	P	Diethyl phthalate	1.402	1.377	1.340	1.388	1.386	1.247	1.266	1.344	4.67
70)	P	Fluorene	1.400	1.401	1.394	1.433	1.447	1.313	1.379	1.395	3.11
71)	P	4-Chlorophenyl...	0.586	0.594	0.581	0.575	0.585	0.584	0.573	0.582	1.23
72)	S	2,4,6-Tribromo...	0.144	0.136	0.125	0.140	0.137	0.113	0.113	0.130	9.94
73)	I	Phenanthrene-d10	----------ISTD----------								
74)	P	4,6-Dinitro-2-...	0.155	0.138	0.122	0.146	0.145		0.103	0.135	14.23
75)	T	Azobenzene	0.766	0.816	0.808	0.777	0.808	0.837	0.811	0.803	2.99
76)	T	1,2-Diphenylhy...	0.187	0.195	0.197	0.187	0.196	0.194	0.185	0.191	2.63
77)	CCC	Diphenylamine	0.142	0.143	0.135	0.139	0.143	0.135	0.138	0.139	2.48
78)	P	N-Nitrosodiphe...	0.689	0.711	0.690	0.685	0.706	0.670	0.697	0.693	2.00
79)	P	4-Bromophenyl ...	0.205	0.201	0.198	0.196	0.203	0.201	0.191	0.199	2.36
80)	T	Phenacetin	0.438	0.436	0.429	0.431	0.442	0.368	0.404	0.421	6.31
81)	P	Hexachlorobenzene	0.192	0.192	0.194	0.183	0.190	0.194	0.180	0.189	2.88
82)	P	Atrazine	0.184	0.199	0.196	0.188	0.195	0.181	0.194	0.191	3.46
83)	T	4-Aminobiphenyl	0.850	0.862	0.840	0.863	0.880	0.802	0.805	0.843	3.54
84)	P	Pentachlorophenol	0.152	0.144	0.139	0.150	0.150	0.123	0.127	0.141	8.46
85)	T	Pentachloronit...	0.092	0.088	0.088	0.087	0.093	0.074	0.081	0.086	7.41
86)	T	Pronamide	0.316	0.313	0.295	0.311	0.318	0.285	0.290	0.304	4.44
87)	P	Phenanthrene	1.185	1.206	1.174	1.166	1.196	1.173	1.162	1.180	1.38
88)	P	Anthracene	1.190	1.210	1.184	1.178	1.229	1.163	1.164	1.188	2.02
89)	P	Carbazole	1.040	1.034	0.990	1.017	1.043	0.940	0.951	1.002	4.29
90)	P	Di-n-butyl pht...	1.435	1.413	1.362	1.399	1.442	1.228	1.297	1.368	5.78
91)	P	Fluoranthene	1.266	1.269	1.245	1.244	1.282	1.147	1.181	1.233	4.05

Method Path : C:\MS-9\New\Calculation Methods\
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92)	I	Chrysene-d12	----------ISTD----------								
93)	P	Pyrene	1.545	1.573	1.597	1.569	1.596	1.505	1.484	1.553	2.83
94)	S	4-Terphenyl-d14	1.038	1.023	1.008	1.050	1.038	0.998	0.974	1.018	2.61
95)	T	Benzidine	0.703	0.717	0.695	0.727	0.723	0.668	0.645	0.697	4.35
96)	T	p-Dimethylamin...	0.280	0.285	0.274	0.284	0.287	0.253	0.250	0.273	5.71
97)	P	Butyl benzyl p...	0.773	0.768	0.742	0.778	0.779	0.685	0.702	0.747	5.21
98)	P	Benz(a)anthracene	1.390	1.358	1.355	1.374	1.393	1.280	1.252	1.343	4.12
99)	P	3,3'-Dichlorob...	0.488	0.481	0.488	0.486	0.496	0.423	0.432	0.470	6.38
100)	P	Chrysene	1.316	1.328	1.342	1.308	1.353	1.379	1.261	1.327	2.83
101)	P	Bis(2-ethylhex...	1.052	1.035	1.029	1.052	1.053	0.940	0.930	0.860 0.994	7.44
102)	P	Di-n-octyl pht...	1.872	1.779	1.733	1.850	1.864	1.490	1.514	1.729	9.43
103)	T	3-Methylcholan...	0.406	0.412	0.400	0.400	0.418	0.340	0.346	0.389	8.22
104)	I	Perylene-d12	----------ISTD----------								
105)	P	Benzo[b]fluora...	1.730	1.482	1.394	1.540	1.432	1.282	1.302	1.452	10.58
106)	P	Benzo[k]fluora...	1.149	1.312	1.402	1.176	1.290	1.395	1.355	1.297	7.75
107)	P	Benzo[a]pyrene	1.325	1.289	1.262	1.290	1.221	1.177	1.177	1.249	4.65
108)	T	Dibenz(a,j)acr...	1.176	1.103	1.072	1.115	1.070	0.848	0.958	1.049	10.52
109)		Indeno[1,2,3-c...	1.575	1.549	1.518	1.551	1.443	1.362	1.378	1.482	5.91
110)	P	Dibenz(a,h)ant...	1.306	1.283	1.250	1.280	1.211	1.046	1.111	1.212	8.10
111)	P	Benzo[g,h,i]pe...	1.273	1.251	1.263	1.252	1.194	1.158	1.182	1.225	3.70

(#) = Out of Range

Injection Log

Directory: C:\MS-9\New\Raw Data\S210406

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1		S21040511.D	1.			
2	1	S21040601.D	1.	DFTPP	TUNE DFTPP_4	6 Apr 2021 10:41
3	2	S21040612.D	1.	bna 80 973-90/	ICv 8270C_W	6 Apr 2021 11:16
4	12	S21040613.D	1.	sim0.05	ICAL 8270C_W	6 Apr 2021 11:53
5	3	S21040614.D	1.	bna40 973-90/	ICv 8270C_W	6 Apr 2021 12:19
6	13	S21040616.D	1.	sim10	ICAL 8270_SIM_PAH_W	6 Apr 2021 12:44
7	14	S21040617.D	1.	sim7.5	ICAL 8270_SIM_PAH_W	6 Apr 2021 13:12
8	15	S21040618.D	1.	sim5	ICAL 8270_SIM_PAH_W	6 Apr 2021 13:51
9	16	S21040619.D	1.	sim3.5	ICAL 8270_SIM_PAH_W	6 Apr 2021 14:16
10	17	S21040620.D	1.	sim2	ICAL 8270_SIM_PAH_W	6 Apr 2021 14:42
11	18	S21040621.D	1.	sim1	ICAL 8270_SIM_PAH_W	6 Apr 2021 15:08
12	19	S21040622.D	1.	sim0.05	ICAL 8270_SIM_PAH_W	6 Apr 2021 15:33
13	19	S21040623.D	1.	sim0.05	ICAL 8270_SIM_PAH_W	6 Apr 2021 16:10
14	20	S21040625.D	1.	ICVSIM	ICV 8270_SIM_PAH_W	6 Apr 2021 16:54
15	3	S21040628.D	1.	bna40 973-90/	ICv 8270C_W	6 Apr 2021 17:31
16	2	S21040629.D	1.	bna80 973-90/	ICv 8270C_W	6 Apr 2021 17:57

Area Percent Report

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040601.D
Acq On : 6 Apr 2021 10:41 am
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 30000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MS-9\New\Calculation Methods\DFTPP.M
Title :

Signal : TIC: S21040601.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.126	4	50	53	rBV4	141848	741414	23.62%	7.034%
2	1.626	217	226	236	rBV2	38703	49983	1.59%	0.474%
3	3.877	1009	1019	1029	rBV	55211	52893	1.69%	0.502%
4	5.384	1541	1550	1559	rBV2	42797	36723	1.17%	0.348%
5	6.650	1988	1996	2003	rVB2	38369	31507	1.00%	0.299%
6	9.303	2918	2931	2949	rBV	1907265	1943230	61.91%	18.436%
7	9.933	3136	3153	3165	rBV	1949974	1697210	54.08%	16.102%
8	10.825	3458	3467	3477	rVB4	52270	43289	1.38%	0.411%
9	11.029	3519	3539	3567	rBV	2027824	3138593	100.00%	29.777%
10	11.949	3848	3863	3876	rBV	2625657	2805538	89.39%	26.617%

Sum of corrected areas: 10540380

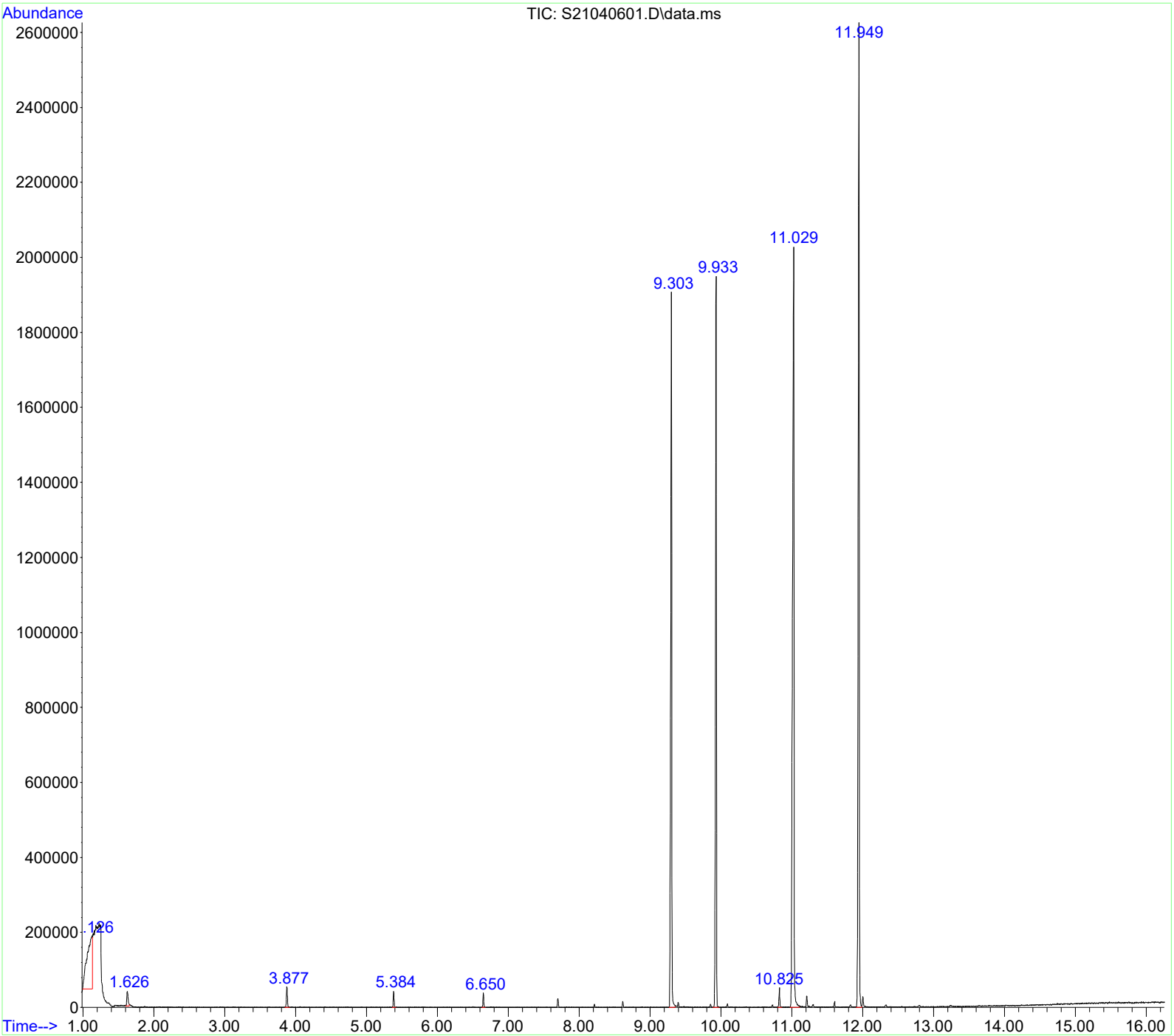
Area Percent Report

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040601.D
Acq On : 6 Apr 2021 10:41 am
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 30000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MS-9\New\Calculation Methods\DFTPP.M
Title :



Library Search Report

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040601.D
Acq On : 6 Apr 2021 10:41 am
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: C:\Database\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex minus start of peak
Integration Events: RTE Integrator - RTEINT.P

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.126	7.03	C:\Database\NIST14.L			
			Methylene chloride	1543	000075-09-2	94
			Methylene chloride	1541	000075-09-2	91
			Methylene chloride	1542	000075-09-2	91
2	1.626	0.47	C:\Database\NIST14.L			
			Toluene	2477	000108-88-3	87
			Toluene	2482	000108-88-3	87
			Toluene	2481	000108-88-3	81
3	3.877	0.50	C:\Database\NIST14.L			
			Cyclotetrasiloxane, octamethyl-	155952	000556-67-2	90
			Cyclotetrasiloxane, octamethyl-	155950	000556-67-2	86
			trisiloxane, 1,1,1,5,5,5-hexamethy l-3-[(trimethylsilyl)oxy]-	155972	1000402-10-5	80
4	5.384	0.35	C:\Database\NIST14.L			
			Cyclopentasiloxane, decamethyl-	220036	000541-02-6	83
			3-Amino-2-phenazinol ditms	209406	1000332-15-5	33
			2,5-Dihydroxybenzoic acid, 3TMS de rivative	220200	003618-20-0	28
5	6.650	0.30	C:\Database\NIST14.L			
			Cyclohexasiloxane, dodecamethyl-	254924	000540-97-6	59
			Cyclohexasiloxane, dodecamethyl-	254925	000540-97-6	59
			Cyclohexasiloxane, dodecamethyl-	254923	000540-97-6	50
6	9.303	18.44	C:\Database\NIST14.L			
			Phenol, pentachloro-	125064	000087-86-5	99
			Phenol, pentachloro-	125062	000087-86-5	99
			Phenol, pentachloro-	125061	000087-86-5	96
7	9.933	16.10	C:\Database\NIST14.L			
			Bis(pentafluorophenyl)phenyl phosp hine	254406	005074-71-5	99
			Bis(pentafluorophenyl)phenyl phosp hine	254407	005074-71-5	92
			6,10-Methano-9H-cyclooct[b]indol-9 -one, 5,6,7,8,10,11-hexahydro-2-me thoxy-	116288	1000337-05-8	10
8	10.825	0.41	C:\Database\NIST14.L			
			Isoxazole, 4-iodo-3-phenyl-	131850	023253-50-1	27
			Benzofuro[3,2-d]pyrimidin-4-amine, 2-methyl-N-phenyl-	135523	068217-90-3	12
			2-Methoxy-1-nitrophenazine 10-oxid	131330	005051-20-7	10
9	11.029	29.78	C:\Database\NIST14.L			
			Benzidine	51192	000092-87-5	97
			Benzidine	51188	000092-87-5	96
			Benzidine	51190	000092-87-5	95
10	11.949	26.62	C:\Database\NIST14.L			
			m,p'-DDD	176313	004329-12-8	93
			p,p'-DDT	206682	000050-29-3	91
			p,p'-DDT	206681	000050-29-3	91

Library Search Report

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040601.D
Acq On : 6 Apr 2021 10:41 am
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: C:\Database\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex minus start of peak
Integration Events: RTE Integrator - RTEINT.P

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.126	7.03	C:\Database\NIST14.L			
			Methylene chloride	1543	000075-09-2	94
			Methylene chloride	1541	000075-09-2	91
			Methylene chloride	1542	000075-09-2	91
2	1.626	0.47	C:\Database\NIST14.L			
			Toluene	2477	000108-88-3	87
			Toluene	2482	000108-88-3	87
			Toluene	2481	000108-88-3	81
3	3.877	0.50	C:\Database\NIST14.L			
			Cyclotetrasiloxane, octamethyl-	155952	000556-67-2	90
			Cyclotetrasiloxane, octamethyl-	155950	000556-67-2	86
			trisiloxane, 1,1,1,5,5,5-hexamethy l-3-[(trimethylsilyl)oxy]-	155972	1000402-10-5	80
4	5.384	0.35	C:\Database\NIST14.L			
			Cyclopentasiloxane, decamethyl-	220036	000541-02-6	83
			3-Amino-2-phenazinol ditms	209406	1000332-15-5	33
			2,5-Dihydroxybenzoic acid, 3TMS de rivative	220200	003618-20-0	28
5	6.650	0.30	C:\Database\NIST14.L			
			Cyclohexasiloxane, dodecamethyl-	254924	000540-97-6	59
			Cyclohexasiloxane, dodecamethyl-	254925	000540-97-6	59
			Cyclohexasiloxane, dodecamethyl-	254923	000540-97-6	50
6	9.303	18.44	C:\Database\NIST14.L			
			Phenol, pentachloro-	125064	000087-86-5	99
			Phenol, pentachloro-	125062	000087-86-5	99
			Phenol, pentachloro-	125061	000087-86-5	96
7	9.933	16.10	C:\Database\NIST14.L			
			Bis(pentafluorophenyl)phenyl phosp hine	254406	005074-71-5	99
			Bis(pentafluorophenyl)phenyl phosp hine	254407	005074-71-5	92
			6,10-Methano-9H-cyclooct[b]indol-9 -one, 5,6,7,8,10,11-hexahydro-2-me thoxy-	116288	1000337-05-8	10
8	10.825	0.41	C:\Database\NIST14.L			
			Isoxazole, 4-iodo-3-phenyl-	131850	023253-50-1	27
			Benzofuro[3,2-d]pyrimidin-4-amine, 2-methyl-N-phenyl-	135523	068217-90-3	12
			2-Methoxy-1-nitrophenazine 10-oxid	131330	005051-20-7	10
9	11.029	29.78	C:\Database\NIST14.L			
			Benzidine	51192	000092-87-5	97
			Benzidine	51188	000092-87-5	96
			Benzidine	51190	000092-87-5	95
10	11.949	26.62	C:\Database\NIST14.L			

m,p'-DDD	176313	004329-12-8	93
p,p'-DDT	206682	000050-29-3	91
p,p'-DDT	206681	000050-29-3	91

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040601.D
Acq On : 6 Apr 2021 10:41 am
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MS-9\New\Calculation Methods\DFTPP.M
Title :
Last Update : Mon Oct 15 09:26:34 1990

AutoFind: Scans 3152, 3153, 3154; Background Corrected with Scan 3141

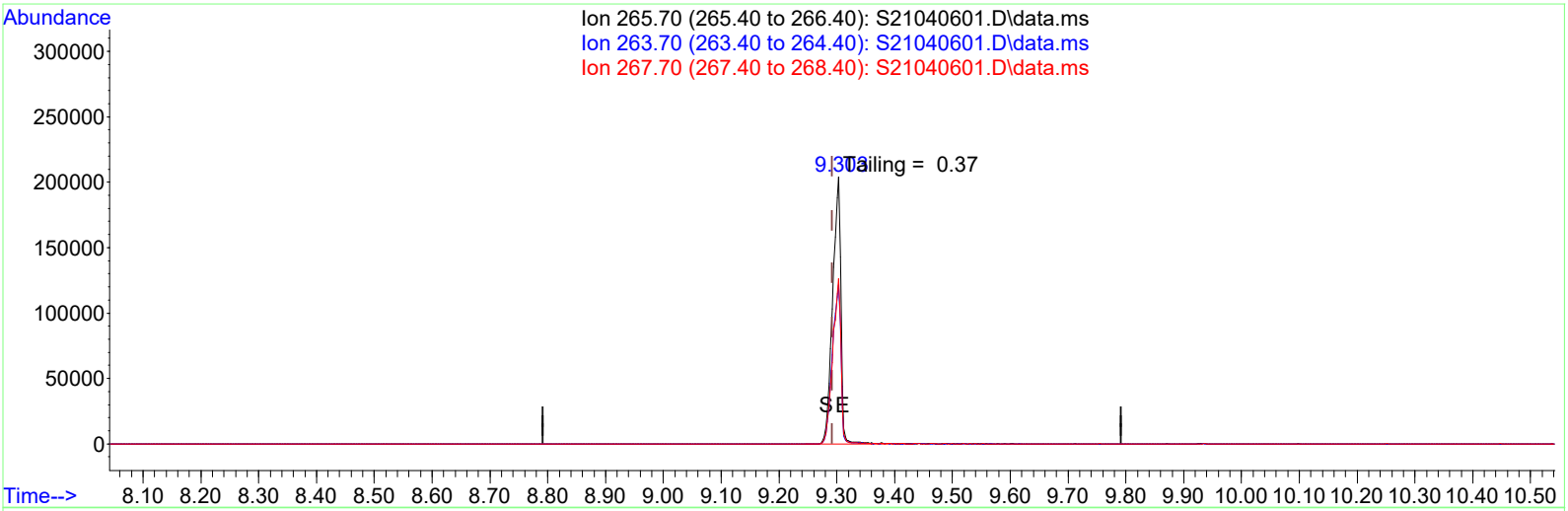
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	49.3	96515	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.6	87373	PASS
70	69	0.00	2	0.4	380	PASS
127	198	40	60	54.2	106208	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	195840	PASS
199	198	5	9	6.7	13025	PASS
275	198	10	30	21.5	42072	PASS
365	198	1	100	2.5	4800	PASS
441	443	0.01	100	85.3	22405	PASS
442	198	40	100	71.0	138960	PASS
443	442	17	23	18.9	26251	PASS

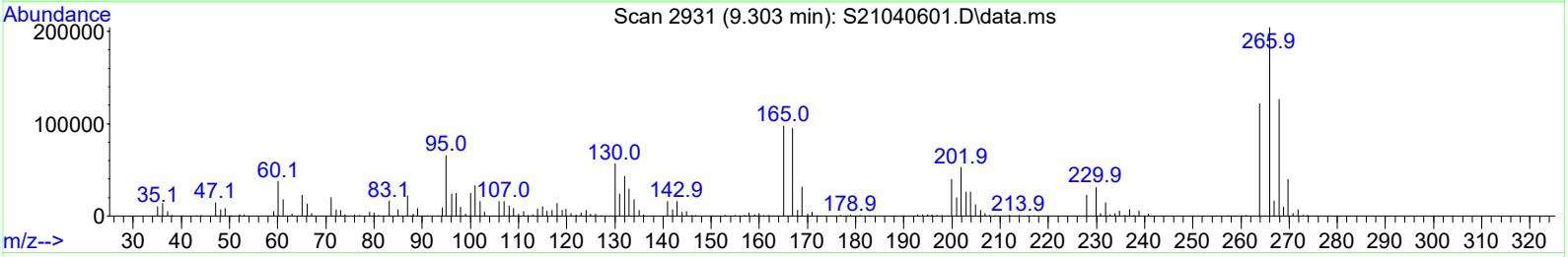
DFTPP.M Wed Apr 07 09:55:24 2021

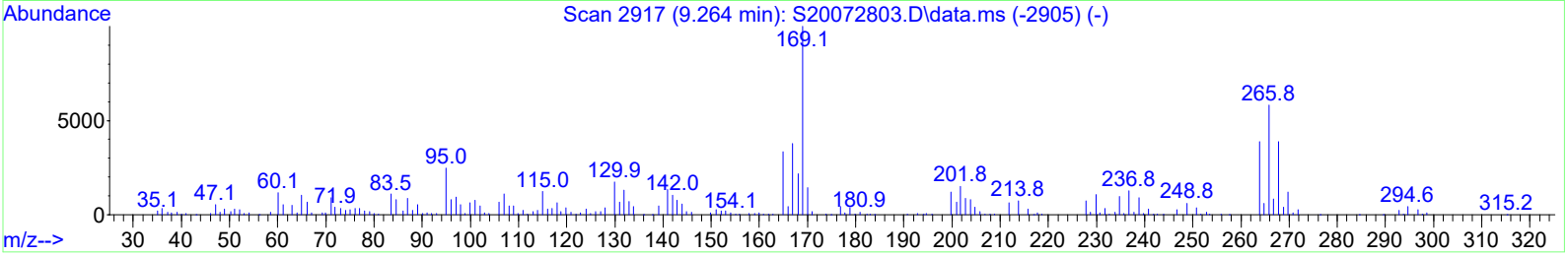
Quantitation Report (Qedit)

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040601.D
Acq On : 6 Apr 2021 10:41 am
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 07 09:55:50 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration







TIC: S21040601.D\data.ms

(84) Pentachlorophenol (P)

9.303min (+ 0.011) 0.00 ng

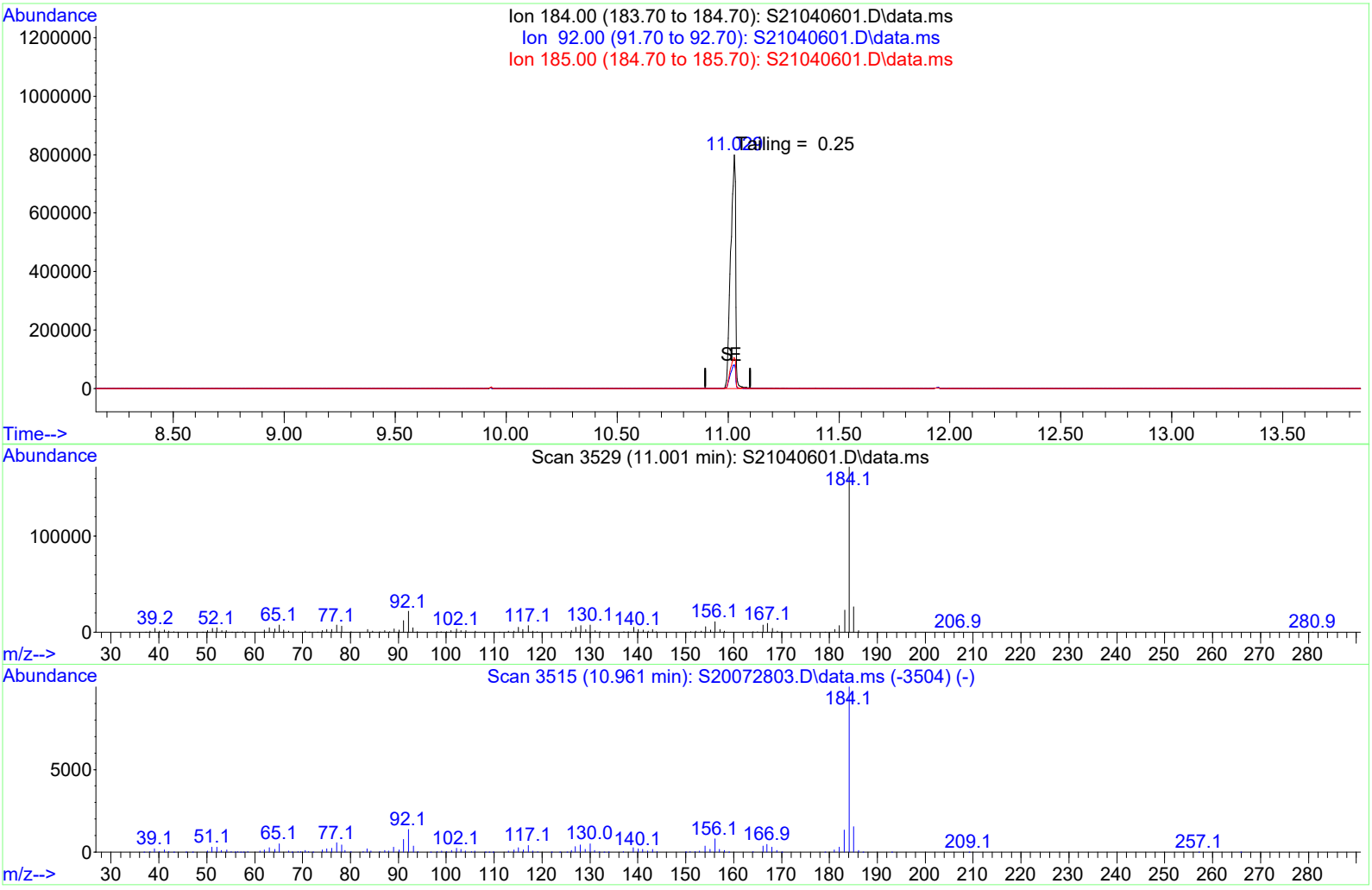
response 200103

Ion	Exp%	Act%
265.70	100.00	100.00
263.70	63.20	62.14
267.70	62.20	62.24
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040601.D
Acq On : 6 Apr 2021 10:41 am
Operator : yh
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 07 09:55:50 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration



TIC: S21040601.D\data.ms

(95) Benzidine (T)

11.001min (-11.001) 0.00 ng

response 0

Ion	Exp%	Act%
184.00	100.00	0.00
92.00	10.50	0.00
185.00	14.30	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040628.D
Acq On : 6 Apr 2021 5:31 pm
Operator : yh
Sample : bna40 973-90/
Misc : ICv 8270C_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 09:52:13 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	106	0.00
2		Pyridine	40.000	37.357	6.6	97	-0.02
3	T	2-Picoline	40.000	25.519	36.2#	66	-0.02
4	T	Methyl methanesulfonate	40.000	22.570	43.6#	59	-0.01
5	S	2-Fluorophenol	40.000	39.876	0.3	102	-0.01
6	T	Ethyl methanesulfonate	40.000	36.531	8.7	95	0.00
7	P	Benzaldehyde	40.000	51.447	-28.6#	130	0.00
8	T	Aniline	40.000	36.662	8.3	94	0.00
9	S	Phenol-d5	40.000	39.079	2.3	100	0.00
10	P	Phenol	40.000	35.100	12.2	88	0.00
11	P	Bis(2-chloroethyl)ether	40.000	40.103	-0.3	101	0.00
12	P	2-Chlorophenol	40.000	38.590	3.5	100	0.00
13	T	1,3-Dichlorobenzene	40.000	37.692	5.8	97	0.00
14	CCC	1,4-Dichlorobenzene	40.000	37.932	5.2	97	0.00
15	T	1,2-Dichlorobenzene	40.000	37.607	6.0	98	0.00
16	T	Benzyl alcohol	40.000	37.304	6.7	97	0.00
17	T	Bis(2-chloroisopropyl)ether	40.000	32.677	18.3	83	-0.01
18	P	2-Methylphenol	40.000	38.207	4.5	98	0.00
19	T	3,4-Methylphenol	80.000	87.334	-9.2	113	0.00
20	PC	N-Nitrosodi-n-propylamine	40.000	37.104	7.2	94	0.00
21	T	N-Nitrosodimethylamine	40.000	38.971	2.6	100	-0.01
22	T	Hexachloroethane	40.000	38.635	3.4	100	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	107	0.00
24	S	Nitrobenzene-d5	40.000	39.331	1.7	105	0.00
25	P	Acetophenone	80.000	39.575	50.5#	52	0.00
26	P	Nitrobenzene	40.000	38.750	3.1	101	0.00
27	T	N-Nitrosopiperidine	40.000	38.244	4.4	99	0.00
28	P	Isophorone	40.000	36.937	7.7	98	0.00
29	P	2-Nitrophenol	40.000	38.142	4.6	99	0.00
30	P	2,4-Dimethylphenol	40.000	37.261	6.8	98	0.00
31	P	Bis(2-chloroethoxy)methane	40.000	38.205	4.5	99	0.00
32	P	2,4-Dichlorophenol	40.000	38.745	3.1	101	0.00
33	T	1,2,4-Trichlorobenzene	40.000	37.386	6.5	97	0.00
34	P	Naphthalene	40.000	38.272	4.3	100	0.00
35	T	Benzoic acid	40.000	33.568	16.1	85	0.05
36	T	2,6-Dichlorophenol	40.000	38.099	4.8	101	0.00
37	P	4-Chloroaniline	40.000	38.050	4.9	99	0.00
38	P	Hexachlorobutadiene	40.000	37.247	6.9	101	0.00
39	T	a,a-Dimethylphenethylamine	40.000	35.773	10.6	95	0.07
40	P	Caprolactam	40.000	45.009	-12.5	117	0.05
41	P	4-Chloro-3-methylphenol	40.000	37.835	5.4	101	0.00
42	T	N-Nitrosodi-n-butylamine	40.000	32.543	18.6	75	0.00
43	P	2-Methylnaphthalene	40.000	36.199	9.5	97	0.00
44	T	1-Methylnaphthalene	40.000	37.816	5.5	99	0.00
45	I	Acenaphthene-d10	40.000	40.000	0.0	100	0.00
46	T	1,2,4,5-Tetrachlorobenzene	40.000	38.853	2.9	98	0.00
47	P	Hexachlorocyclopentadiene	40.000	31.493	21.3	79	0.00
48	P	2,4,6-Trichlorophenol	40.000	39.219	2.0	98	0.00
49	P	2,4,5-Trichlorophenol	40.000	39.322	1.7	99	0.00
50	S	2-Fluorobiphenyl	40.000	39.439	1.4	98	0.00
51		Biphenyl	40.000	44.633	-11.6	113	0.00

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040628.D
Acq On : 6 Apr 2021 5:31 pm
Operator : yh
Sample : bna40 973-90/
Misc : ICv 8270C_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 09:52:13 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	P	2-Chloronaphthalene	40.000	42.656	-6.6	108	0.00
53	T	1-Chloronaphthalene	40.000	35.535	11.2	88	0.00
54	P	2-Nitroaniline	40.000	37.634	5.9	95	0.00
55	P	3-Nitroaniline	40.000	38.676	3.3	98	0.00
56	T	Pentachlorobenzene	40.000	40.978	-2.4	104	0.00
57	T	4-Nitroaniline	40.000	38.995	2.5	99	0.01
58	T	2-Naphthylamine	40.000	34.911	12.7	88	0.00
59	T	1-Naphthylamine	40.000	33.529	16.2	85	0.00
60	P	Dimethyl phthalate	40.000	38.899	2.8	100	0.00
61	P	Acenaphthylene	40.000	38.360	4.1	96	0.00
62	P	2,6-Dinitrotoluene	40.000	39.189	2.0	97	0.00
63	P	Acenaphthene	40.000	39.729	0.7	99	0.00
64	P	2,4-Dinitrophenol	40.000	31.488	21.3	71	0.02
65	P	Dibenzofuran	40.000	39.137	2.2	98	0.00
66	P	4-Nitrophenol	40.000	33.724	15.7	82	0.01
67	P	2,4-Dinitrotoluene	40.000	37.400	6.5	94	0.00
68	T	2,3,4,6-Tetrachlorophenol	40.000	36.582	8.5	94	0.00
69	P	Diethyl phthalate	40.000	39.386	1.5	99	0.00
70	P	Fluorene	40.000	38.415	4.0	96	0.00
71	P	4-Chlorophenyl phenyl ether	40.000	38.907	2.7	98	0.00
72	S	2,4,6-Tribromophenol	40.000	34.445	13.9	88	0.00
73	I	Phenanthrene-d10	40.000	40.000	0.0	102	0.00
74	P	4,6-Dinitro-2-methylphenol	40.000	33.895	15.3	85	0.02
75	T	Azobenzene	40.000	43.011	-7.5	109	0.00
76	T	1,2-Diphenylhydrazine	40.000	42.908	-7.3	106	0.00
77	CCC	Diphenylamine	40.000	43.411	-8.5	114	0.00
78	P	N-Nitrosodiphenylamine	40.000	43.933	-9.8	112	0.00
79	P	4-Bromophenyl phenyl ether	40.000	35.871	10.3	92	0.00
80	T	Phenacetin	40.000	39.470	1.3	99	0.02
81	P	Hexachlorobenzene	40.000	37.021	7.4	92	0.00
82	P	Atrazine	40.000	46.456	-16.1	115	0.01
83	T	4-Aminobiphenyl	40.000	34.412	14.0	88	0.00
84	P	Pentachlorophenol	40.000	30.123	24.7	78	0.01
85	T	Pentachloronitrobenzene	40.000	38.530	3.7	96	0.00
86	T	Pronamide	40.000	43.055	-7.6	113	0.00
87	P	Phenanthrene	40.000	38.206	4.5	98	0.00
88	P	Anthracene	40.000	33.612	16.0	86	0.00
89	P	Carbazole	40.000	46.299	-15.7	119	0.00
90	P	Di-n-butyl phthalate	40.000	36.511	8.7	93	0.00
91	P	Fluoranthene	40.000	37.376	6.6	94	0.00
92	I	Chrysene-d12	40.000	40.000	0.0	103	0.00
93	P	Pyrene	40.000	38.074	4.8	95	0.00
94	S	4-Terphenyl-d14	40.000	37.733	5.7	98	0.00
95	T	Benzidine	40.000	34.313	14.2	89	0.00
96	T	p-Dimethylaminoazobenzene	40.000	35.577	11.1	91	0.00
97	P	Butyl benzyl phthalate	40.000	36.932	7.7	96	0.00
98	P	Benz(a)anthracene	40.000	37.175	7.1	95	0.00
99	P	3,3'-Dichlorobenzidine	40.000	36.793	8.0	91	0.00
100	P	Chrysene	40.000	37.629	5.9	96	0.00
101	P	Bis(2-ethylhexyl)phthalate	40.000	37.468	6.3	93	0.00
102	P	Di-n-octyl phthalate	40.000	33.391	16.5	86	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040628.D
Acq On : 6 Apr 2021 5:31 pm
Operator : yh
Sample : bna40 973-90/
Misc : ICv 8270C_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 09:52:13 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	40.000	45.596	-14.0	114	0.01
104	I	Perylene-d12	40.000	40.000	0.0	116	0.00
105	P	Benzo[b]fluoranthene	40.000	30.701	23.2	93	0.00
106	P	Benzo[k]fluoranthene	40.000	38.175	4.6	103	0.01
107	P	Benzo[a]pyrene	40.000	32.162	19.6	93	0.00
108	T	Dibenz(a,j)acridine	40.000	28.609	28.5#	81	0.01
109		Indeno[1,2,3-cd]pyrene	40.000	32.196	19.5	91	0.01
110	P	Dibenz(a,h)anthracene	40.000	32.355	19.1	91	0.00
111	P	Benzo[g,h,i]perylene	40.000	31.882	20.3	90	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040628.D
Acq On : 6 Apr 2021 5:31 pm
Operator : yh
Sample : bna40 973-90/
Misc : ICv 8270C_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 09:52:13 2021
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Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	0.00
2		Pyridine	1.678	1.567	6.6	97	-0.02
3	T	2-Picoline	1.646	1.050	36.2#	66	-0.02
4	T	Methyl methanesulfonate	0.820	0.463	43.5#	59	-0.01
5	S	2-Fluorophenol	1.373	1.369	0.3	102	-0.01
6	T	Ethyl methanesulfonate	1.239	1.132	8.6	95	0.00
7	P	Benzaldehyde	0.942	1.211	-28.6#	130	0.00
8	T	Aniline	1.016	0.931	8.4	94	0.00
9	S	Phenol-d5	1.679	1.641	2.3	100	0.00
10	P	Phenol	1.995	1.750	12.3	88	0.00
11	P	Bis(2-chloroethyl)ether	1.405	1.409	-0.3	101	0.00
12	P	2-Chlorophenol	1.491	1.439	3.5	100	0.00
13	T	1,3-Dichlorobenzene	1.651	1.556	5.8	97	0.00
14	CCC	1,4-Dichlorobenzene	1.660	1.574	5.2	97	0.00
15	T	1,2-Dichlorobenzene	1.574	1.480	6.0	98	0.00
16	T	Benzyl alcohol	0.994	0.927	6.7	97	0.00
17	T	Bis(2-chloroisopropyl)ether	2.652	2.166	18.3	83	-0.01
18	P	2-Methylphenol	1.196	1.142	4.5	98	0.00
19	T	3,4-Methylphenol	1.538	1.679	-9.2	113	0.00
20	PC	N-Nitrosodi-n-propylamine	1.035	0.960	7.2	94	0.00
21	T	N-Nitrosodimethylamine	0.925	0.901	2.6	100	-0.01
22	T	Hexachloroethane	0.637	0.616	3.3	100	0.00
23	I	Naphthalene-d8	1.000	1.000	0.0	107	0.00
24	S	Nitrobenzene-d5	0.371	0.364	1.9	105	0.00
25	P	Acetophenone	0.503	0.249	50.5#	52	0.00
26	P	Nitrobenzene	0.185	0.179	3.2	101	0.00
27	T	N-Nitrosopiperidine	0.187	0.178	4.8	99	0.00
28	P	Isophorone	0.733	0.677	7.6	98	0.00
29	P	2-Nitrophenol	0.192	0.183	4.7	99	0.00
30	P	2,4-Dimethylphenol	0.329	0.306	7.0	98	0.00
31	P	Bis(2-chloroethoxy)methane	0.429	0.410	4.4	99	0.00
32	P	2,4-Dichlorophenol	0.292	0.283	3.1	101	0.00
33	T	1,2,4-Trichlorobenzene	0.323	0.302	6.5	97	0.00
34	P	Naphthalene	1.117	1.068	4.4	100	0.00
35	T	Benzoic acid	0.210	0.145	31.0#	85	0.05
36	T	2,6-Dichlorophenol	0.284	0.271	4.6	101	0.00
37	P	4-Chloroaniline	0.455	0.433	4.8	99	0.00
38	P	Hexachlorobutadiene	0.158	0.147	7.0	101	0.00
39	T	a,a-Dimethylphenethylamine	1.198	1.071	10.6	95	0.07
40	P	Caprolactam	0.115	0.130	-13.0	117	0.05
41	P	4-Chloro-3-methylphenol	0.306	0.290	5.2	101	0.00
42	T	N-Nitrosodi-n-butylamine	0.279	0.227	18.6	75	0.00
43	P	2-Methylnaphthalene	0.638	0.577	9.6	97	0.00
44	T	1-Methylnaphthalene	0.617	0.583	5.5	99	0.00
45	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
46	T	1,2,4,5-Tetrachlorobenzene	0.535	0.519	3.0	98	0.00
47	P	Hexachlorocyclopentadiene	0.326	0.256	21.5	79	0.00
48	P	2,4,6-Trichlorophenol	0.372	0.364	2.2	98	0.00
49	P	2,4,5-Trichlorophenol	0.394	0.387	1.8	99	0.00
50	S	2-Fluorobiphenyl	1.315	1.297	1.4	98	0.00
51		Biphenyl	1.572	1.755	-11.6	113	0.00

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040628.D
Acq On : 6 Apr 2021 5:31 pm
Operator : yh
Sample : bna40 973-90/
Misc : ICv 8270C_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 09:52:13 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	P	2-Chloronaphthalene	1.214	1.295	-6.7	108	0.00
53	T	1-Chloronaphthalene	1.070	0.951	11.1	88	0.00
54	P	2-Nitroaniline	0.423	0.398	5.9	95	0.00
55	P	3-Nitroaniline	0.392	0.379	3.3	98	0.00
56	T	Pentachlorobenzene	0.443	0.454	-2.5	104	0.00
57	T	4-Nitroaniline	0.385	0.375	2.6	99	0.01
58	T	2-Naphthylamine	1.269	1.107	12.8	88	0.00
59	T	1-Naphthylamine	1.321	1.107	16.2	85	0.00
60	P	Dimethyl phthalate	1.310	1.274	2.7	100	0.00
61	P	Acenaphthylene	1.915	1.836	4.1	96	0.00
62	P	2,6-Dinitrotoluene	0.298	0.292	2.0	97	0.00
63	P	Acenaphthene	1.148	1.140	0.7	99	0.00
64	P	2,4-Dinitrophenol	0.161	0.101	37.3#	71	0.02
65	P	Dibenzofuran	1.678	1.642	2.1	98	0.00
66	P	4-Nitrophenol	0.211	0.178	15.6	82	0.01
67	P	2,4-Dinitrotoluene	0.411	0.384	6.6	94	0.00
68	T	2,3,4,6-Tetrachlorophenol	0.293	0.268	8.5	94	0.00
69	P	Diethyl phthalate	1.344	1.323	1.6	99	0.00
70	P	Fluorene	1.395	1.340	3.9	96	0.00
71	P	4-Chlorophenyl phenyl ether	0.582	0.567	2.6	98	0.00
72	S	2,4,6-Tribromophenol	0.130	0.110	15.4	88	0.00
73	I	Phenanthrene-d10	1.000	1.000	0.0	102	0.00
74	P	4,6-Dinitro-2-methylphenol	0.135	0.102	24.4	85	0.02
75	T	Azobenzene	0.803	0.864	-7.6	109	0.00
76	T	1,2-Diphenylhydrazine	0.191	0.205	-7.3	106	0.00
77	CCC	Diphenylamine	0.139	0.151	-8.6	114	0.00
78	P	N-Nitrosodiphenylamine	0.693	0.761	-9.8	112	0.00
79	P	4-Bromophenyl phenyl ether	0.199	0.179	10.1	92	0.00
80	T	Phenacetin	0.421	0.416	1.2	99	0.02
81	P	Hexachlorobenzene	0.189	0.175	7.4	92	0.00
82	P	Atrazine	0.191	0.222	-16.2	115	0.01
83	T	4-Aminobiphenyl	0.843	0.725	14.0	88	0.00
84	P	Pentachlorophenol	0.141	0.106	24.8	78	0.01
85	T	Pentachloronitrobenzene	0.086	0.083	3.5	96	0.00
86	T	Pronamide	0.304	0.327	-7.6	113	0.00
87	P	Phenanthrene	1.180	1.127	4.5	98	0.00
88	P	Anthracene	1.188	0.998	16.0	86	0.00
89	P	Carbazole	1.002	1.160	-15.8	119	0.00
90	P	Di-n-butyl phthalate	1.368	1.249	8.7	93	0.00
91	P	Fluoranthene	1.233	1.152	6.6	94	0.00
92	I	Chrysene-d12	1.000	1.000	0.0	103	0.00
93	P	Pyrene	1.553	1.478	4.8	95	0.00
94	S	4-Terphenyl-d14	1.018	0.961	5.6	98	0.00
95	T	Benzidine	0.697	0.598	14.2	89	0.00
96	T	p-Dimethylaminoazobenzene	0.273	0.243	11.0	91	0.00
97	P	Butyl benzyl phthalate	0.747	0.689	7.8	96	0.00
98	P	Benz(a)anthracene	1.343	1.248	7.1	95	0.00
99	P	3,3'-Dichlorobenzidine	0.470	0.433	7.9	91	0.00
100	P	Chrysene	1.327	1.248	6.0	96	0.00
101	P	Bis(2-ethylhexyl)phthalate	0.994	0.931	6.3	93	0.00
102	P	Di-n-octyl phthalate	1.729	1.443	16.5	86	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040628.D
Acq On : 6 Apr 2021 5:31 pm
Operator : yh
Sample : bna40 973-90/
Misc : ICv 8270C_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 09:52:13 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	0.389	0.443	-13.9	114	0.01
104	I	Perylene-d12	1.000	1.000	0.0	116	0.00
105	P	Benzo[b]fluoranthene	1.452	1.114	23.3	93	0.00
106	P	Benzo[k]fluoranthene	1.297	1.238	4.5	103	0.01
107	P	Benzo[a]pyrene	1.249	1.004	19.6	93	0.00
108	T	Dibenz(a,j)acridine	1.049	0.750	28.5#	81	0.01
109		Indeno[1,2,3-cd]pyrene	1.482	1.193	19.5	91	0.01
110	P	Dibenz(a,h)anthracene	1.212	0.981	19.1	91	0.00
111	P	Benzo[g,h,i]perylene	1.225	0.976	20.3	90	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040628.D
Acq On : 6 Apr 2021 5:31 pm
Operator : yh
Sample : bna40 973-90/
Misc : ICv 8270C_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 09:52:13 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.195	152	43375	40.00	ng		0.00
23) Naphthalene-d8	...	5.793	136	172485	40.00	ng		0.00
45) Acenaphthene-d10	...	7.833	164	88121	40.00	ng		0.00
73) Phenanthrene-d10	...	9.482	188	155179	40.00	ng		0.00
92) Chrysene-d12	...	12.406	240	126459	40.00	ng		0.00
104) Perylene-d12	...	13.867	264	123033	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.653	112	59370	39.88	ng		-0.01
Spiked Amount 100.000	Range 21 - 119		Recovery = 39.88%					
9) Phenol-d5	...	3.786	99	71163	39.08	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 39.08%					
24) Nitrobenzene-d5	...	4.916	82	62860	39.33	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 78.66%					
50) 2-Fluorobiphenyl	...	7.104	172	114297	39.44	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 78.88%					
72) 2,4,6-Tribromophenol	...	8.722	330	9727	34.44	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 34.44%					
94) 4-Terphenyl-d14	...	11.290	244	121498	37.73	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 75.46%					
Target Compounds								Qvalue
2) Pyridine	...	1.422	79	67985	37.36	ng	#	87
3) 2-Picoline	...	2.049	93	45540	25.52	ng		98
4) Methyl methanesulfonate	...	2.477	80	20077	22.57	ng		98
6) Ethyl methanesulfonate	...	3.264	79	49088	36.53	ng		96
7) Benzaldehyde	...	3.627	105	52529	51.45	ng		98
8) Aniline	...	3.775	66	40400	36.66	ng	#	83
10) Phenol	...	3.800	94	75926	35.10	ng		99
11) Bis(2-chloroethyl)ether	...	3.891	93	61119	40.10	ng		90
12) 2-Chlorophenol	...	3.919	128	62399	38.59	ng		96
13) 1,3-Dichlorobenzene	...	4.118	146	67484	37.69	ng		96
14) 1,4-Dichlorobenzene	...	4.217	146	68263	37.93	ng		98
15) 1,2-Dichlorobenzene	...	4.410	146	64185	37.61	ng		97
16) Benzyl alcohol	...	4.413	108	40209	37.30	ng	#	71
17) Bis(2-chloroisopropyl)ether	...	4.609	45	93961	32.68	ng		84
18) 2-Methylphenol	...	4.595	107	49531	38.21	ng	#	92
19) 3,4-Methylphenol	...	4.811	107	145678	87.33	ng		97
20) N-Nitrosodi-n-propylamine	...	4.776	70	41658	37.10	ng		87
21) N-Nitrosodimethylamine	...	1.410	42	39088	38.97	ng	#	79
22) Hexachloroethane	...	4.839	117	26706	38.63	ng		92
25) Acetophenone	...	4.740	105	85786	39.57	ng		95
26) Nitrobenzene	...	4.941	123	30878	38.75	ng		88
27) N-Nitrosopiperidine	...	5.128	114	30787	38.24	ng	#	74
28) Isophorone	...	5.259	82	116813	36.94	ng		98
29) 2-Nitrophenol	...	5.341	139	31613	38.14	ng		95
30) 2,4-Dimethylphenol	...	5.466	122	52824	37.26	ng		95
31) Bis(2-chloroethoxy)methane	...	5.577	93	70678	38.21	ng		100
32) 2,4-Dichlorophenol	...	5.651	162	48738	38.75	ng		96
33) 1,2,4-Trichlorobenzene	...	5.741	180	52136	37.39	ng		98
34) Naphthalene	...	5.818	128	184290	38.27	ng		99
35) Benzoic acid	...	5.619	105	24947	33.57	ng		95
36) 2,6-Dichlorophenol	...	5.926	162	46716	38.10	ng		99
37) 4-Chloroaniline	...	5.920	127	74654	38.05	ng		97
38) Hexachlorobutadiene	...	6.014	225	25311	37.25	ng		98
39) a,a-Dimethylphenethylamine	...	5.716	58	184790	35.77	ng		81
40) Caprolactam	...	6.349	113	22384	45.01	ng	#	53

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040628.D
Acq On : 6 Apr 2021 5:31 pm
Operator : yh
Sample : bna40 973-90/
Misc : ICv 8270C_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 09:52:13 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.553	107	49949	37.84	ng		97
42) N-Nitrosodi-n-butylamine	6.369	84	39172	32.54	ng	#	81
43) 2-Methylnaphthalene	6.650	141	99525	36.20	ng		99
44) 1-Methylnaphthalene	6.760	141	100540	37.82	ng		99
46) 1,2,4,5-Tetrachlorobenzene	6.854	216	45755	38.85	ng		98
47) Hexachlorocyclopentadiene	6.860	237	22592	31.49	ng		97
48) 2,4,6-Trichlorophenol	7.004	196	32099	39.22	ng		97
49) 2,4,5-Trichlorophenol	7.039	196	34107	39.32	ng		99
51) Biphenyl	7.206	154	154616	44.63	ng		98
52) 2-Chloronaphthalene	7.203	162	114116	42.66	ng		97
53) 1-Chloronaphthalene	7.226	162	83789	35.53	ng		97
54) 2-Nitroaniline	7.345	65	35095	37.63	ng		94
55) 3-Nitroaniline	7.816	138	33395	38.68	ng	#	99
56) Pentachlorobenzene	8.029	250	39998	40.98	ng		94
57) 4-Nitroaniline	8.503	138	33051	39.00	ng		87
58) 2-Naphthylamine	8.154	143	97566	34.91	ng		99
59) 1-Naphthylamine	8.248	143	97590	33.53	ng		99
60) Dimethyl phthalate	7.601	163	112237	38.90	ng		99
61) Acenaphthylene	7.666	152	161804	38.36	ng		99
62) 2,6-Dinitrotoluene	7.643	165	25750	39.19	ng	#	79
63) Acenaphthene	7.870	154	100494	39.73	ng		99
64) 2,4-Dinitrophenol	7.947	184	8861	31.49	ng		92
65) Dibenzofuran	8.066	168	144662	39.14	ng		70
66) 4-Nitrophenol	8.060	109	15689	33.72	ng		90
67) 2,4-Dinitrotoluene	8.089	165	33846	37.40	ng		93
68) 2,3,4,6-Tetrachlorophenol	8.228	232	23577	36.58	ng		97
69) Diethyl phthalate	8.409	149	116598	39.39	ng		99
70) Fluorene	8.449	166	118074	38.42	ng		99
71) 4-Chlorophenyl phenyl ether	8.483	204	49926	38.91	ng		97
74) 4,6-Dinitro-2-methylphenol	8.548	198	15802	33.89	ng		86
75) Azobenzene	8.656	77	134023	43.01	ng		93
76) 1,2-Diphenylhydrazine	8.659	182	31877	42.91	ng	#	89
77) Diphenylamine	8.625	170	23480	43.41	ng	#	93
78) N-Nitrosodiphenylamine	8.625	168	118034	43.93	ng		99
79) 4-Bromophenyl phenyl ether	9.020	248	27761	35.87	ng		95
80) Phenacetin	9.008	108	64489	39.47	ng		99
81) Hexachlorobenzene	9.065	284	27195	37.02	ng		94
82) Atrazine	9.258	200	34412	46.46	ng	#	85
83) 4-Aminobiphenyl	9.312	169	112567	34.41	ng		99
84) Pentachlorophenol	9.303	266	16440	30.12	ng		95
85) Pentachloronitrobenzene	9.318	237	12873	38.53	ng		94
86) Pronamide	9.428	173	50813	43.06	ng		95
87) Phenanthrene	9.508	178	174919	38.21	ng		98
88) Anthracene	9.562	178	154937	33.61	ng		100
89) Carbazole	9.763	167	179989	46.30	ng		99
90) Di-n-butyl phthalate	10.232	149	193761	36.51	ng		100
91) Fluoranthene	10.819	202	178830	37.38	ng		98
93) Pyrene	11.057	202	186895	38.07	ng		99
95) Benzidine	11.006	184	75576	34.31	ng		99
96) p-Dimethylaminoazobenzene	11.452	225	30736	35.58	ng	#	82
97) Butyl benzyl phthalate	11.875	149	87181	36.93	ng		97
98) Benz(a)anthracene	12.394	228	157859	37.17	ng		99
99) 3,3'-Dichlorobenzidine	12.406	252	54727	36.79	ng		96
100) Chrysene	12.434	228	157828	37.63	ng		99
101) Bis(2-ethylhexyl)phthalate	12.553	149	117701	37.47	ng		92
102) Di-n-octyl phthalate	13.234	149	182495	33.39	ng		93
103) 3-Methylcholanthrene	14.146	268	56081	45.60	ng		98

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040628.D
Acq On : 6 Apr 2021 5:31 pm
Operator : yh
Sample : bna40 973-90/
Misc : ICv 8270C_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 09:52:13 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration

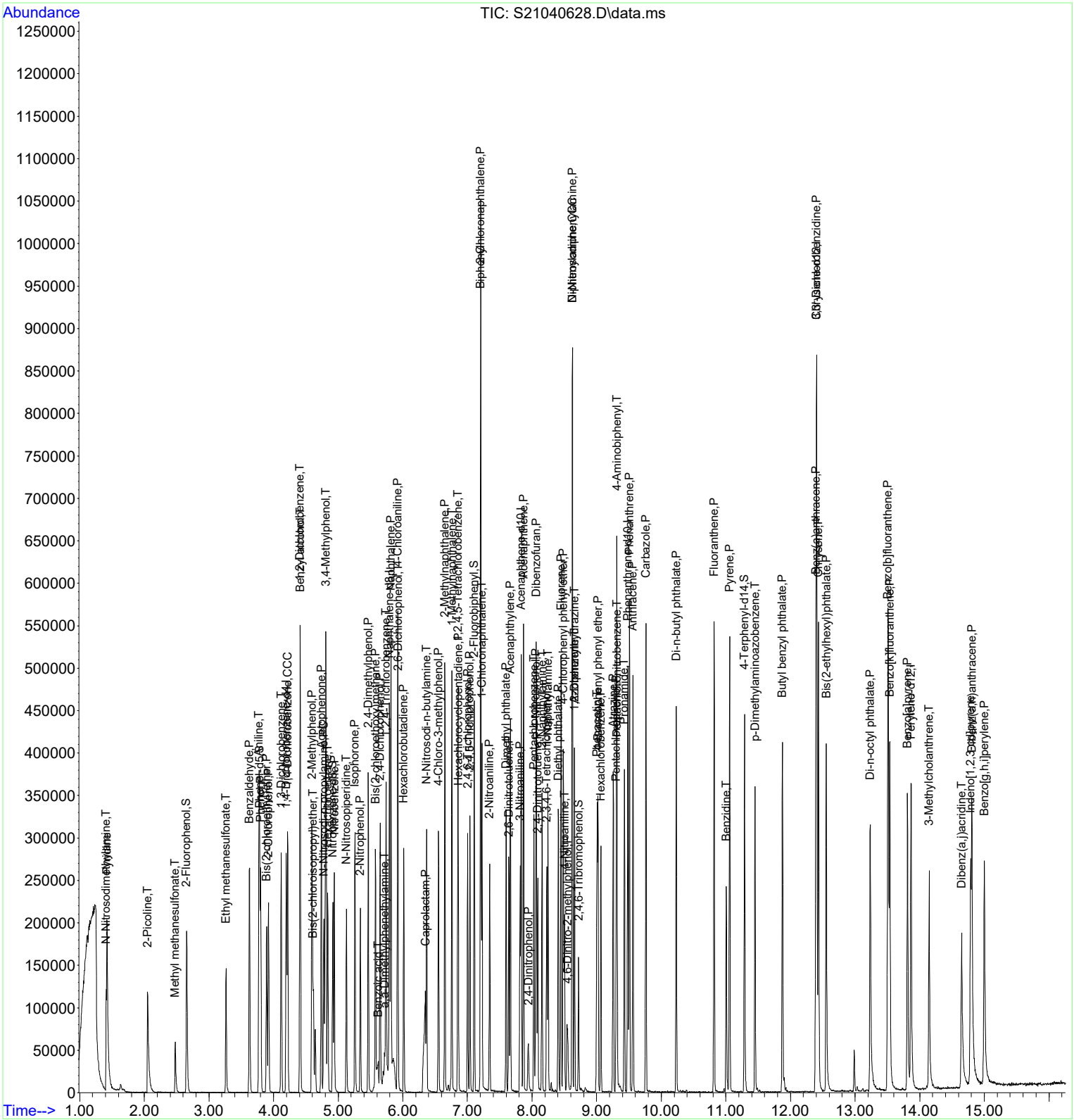
Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene	...	13.507	252	137087	30.70	ng		95
106) Benzo[k]fluoranthene	...	13.538	252	152292	38.17	ng		94
107) Benzo[a]pyrene	...	13.811	252	123523	32.16	ng		96
108) Dibenz(a,j)acridine	...	14.648	279	92282	28.61	ng		97
109) Indeno[1,2,3-cd]pyrene	...	14.787	276	146794	32.20	ng	#	86
110) Dibenz(a,h)anthracene	...	14.807	278	120657	32.35	ng		94
111) Benzo[g,h,i]perylene	...	15.000	276	120112	31.88	ng		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S210406\
Data File : S21040628.D
Acq On : 6 Apr 2021 5:31 pm
Operator : yh
Sample : bna40 973-90/
Misc : ICv 8270C_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 09:52:13 2021
Quant Method : C:\MS-9\New\Calculation Methods\B040221.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Wed Apr 07 09:38:04 2021
Response via : Initial Calibration



Injection Log

Directory: C:\msdchem\1\DATA\R210422

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	R1042201.D	1.	DFTPP	TUNE DFTPP_4	22 Apr 2021 08:53
2	4	R1042203.D	1.	SIM2	CCV 8270_SIM_PAH_SC_S	22 Apr 2021 09:19
3	1	R1042205.D	1.	DFTPP	TUNE DFTPP_4	22 Apr 2021 09:46
4	8	R1042210.D	1.	bna10 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 10:12
5	9	R1042211.D	1.	bna20 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 10:40
6	10	R1042212.D	1.	bna40 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 11:08
7	11	R1042213.D	1.	bna60 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 11:35
8	12	R1042214.D	1.	bna80 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 12:56
9	13	R1042215.D	1.	bna120 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 12:02
10	14	R1042216.D	1.	bna160 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 12:29
11	13	R1042217.D	1.	bna120 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 13:22
12	14	R1042218.D	1.	bna160 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 13:51
13	15	R1042219.D	1.	bna5 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 14:18
14	16	R1042221.D	1.	BNA 80 973-90/	ICV 8270_TCL4.2_W	22 Apr 2021 14:46
15	17	R1042222.D	1.	BNA 40 973-90/	ICV 8270_TCL4.2_W	22 Apr 2021 15:13
16	16	R1042223.D	1.	BNA 80 973-90/	ICV 8270_TCL4.2_W	22 Apr 2021 15:40
17	4	R1042230.D	1.	SIM3.5	CCV 8270_SIM_PAH_S	22 Apr 2021 16:07
18	10	R1042231.D	1.	bna40 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 16:35
19	18	R1042235.D	1.	MB-313930	MBLK 8270_SIM_PAH_SC_W	22 Apr 2021 17:08
20	19	R1042236.D	1.	LCS-313930	LCS 8270_SIM_PAH_SC_W	22 Apr 2021 17:35
21	20	R1042237.D	1.	LCSD-313930	LCSD 8270_SIM_PAH_SC_W	22 Apr 2021 18:02
22	21	R1042238.D	1.	2104K29-001D	SAMP 8270_SIM_PAH_SC_W	22 Apr 2021 18:54
23	22	R1042239.D	1.	2104K29-002D	SAMP 8270_SIM_PAH_SC_W	22 Apr 2021 19:20
24	23	R1042240.D	1.	2104K29-003D	SAMP 8270_SIM_PAH_SC_W	22 Apr 2021 19:47
25	24	R1042241.D	1.	2104K29-004D	SAMP 8270_SIM_PAH_SC_W	22 Apr 2021 20:13
26	25	R1042242.D	1.	2104M08-001B	SAMP 8270_SIM_PAH_SC_W	22 Apr 2021 20:40
27	26	R1042243.D	1.	2104M08-002B	SAMP 8270_SIM_PAH_SC_W	22 Apr 2021 21:05
28	18	R1042290.D	1.	MB-313930	MBLK 8270_SIM_PAH_SC_W	22 Apr 2021 18:28

Calibration Status Report Instrument #10

Method Path : C:\msdchem\1\METHODS\
Method File : B042221.M
Title : MS-10 BNA CURVE 8270E/625
Last Update : Fri Apr 23 14:54:46 2021
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	160	160	40	C:\msdchem\1\DATA\R210422\R1042218.D
2	60	60	40	C:\msdchem\1\DATA\R210422\R1042213.D
3	40	40	40	C:\msdchem\1\DATA\R210422\R1042212.D
4	120	120	40	C:\msdchem\1\DATA\R210422\R1042217.D
5	80	80	40	C:\msdchem\1\DATA\R210422\R1042214.D
6	10	10	40	C:\msdchem\1\DATA\R210422\R1042210.D
7	20	20	40	C:\msdchem\1\DATA\R210422\R1042211.D
8	5	-1	40	C:\msdchem\1\DATA\R210422\R1042219.D

#	ID	Update Time	Quant Time	Acquisition Time
1	160	Apr 23 14:52 2021	Apr 23 14:51 2021	22 Apr 2021 1:51 pm
2	60	Apr 23 14:43 2021	Apr 23 14:42 2021	22 Apr 2021 11:35 am
3	40	Apr 23 14:41 2021	Apr 23 14:39 2021	22 Apr 2021 11:08 am
4	120	Apr 23 14:49 2021	Apr 23 14:48 2021	22 Apr 2021 1:22 pm
5	80	Apr 23 14:46 2021	Apr 23 14:45 2021	22 Apr 2021 12:56 pm
6	10	Apr 22 14:34 2021	Apr 22 14:27 2021	22 Apr 2021 10:12 am
7	20	Apr 23 14:39 2021	Apr 23 14:37 2021	22 Apr 2021 10:40 am
8	5	Apr 23 14:54 2021	Apr 23 14:54 2021	22 Apr 2021 2:18 pm

B042221.M Fri Apr 23 14:56:27 2021

Area Percent Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042205.D
Acq On : 22 Apr 2021 9:46 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\DFTPP.M
Title :

Signal : TIC: R1042205.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.735	119	121	137	rVB2	37278	59313	1.51%	0.485%
2	4.027	544	550	555	rBV	57359	52100	1.33%	0.426%
3	5.522	823	830	838	rVB	50608	39246	1.00%	0.321%
4	9.470	1560	1569	1581	rBV	2487810	2120310	54.16%	17.331%
5	10.095	1678	1686	1693	rVB	2689925	2349016	60.00%	19.201%
6	11.201	1884	1893	1916	rBV	3330958	3915061	100.00%	32.001%
7	12.125	2060	2066	2073	rBV	3842195	3699064	94.48%	30.236%

Sum of corrected areas: 12234110

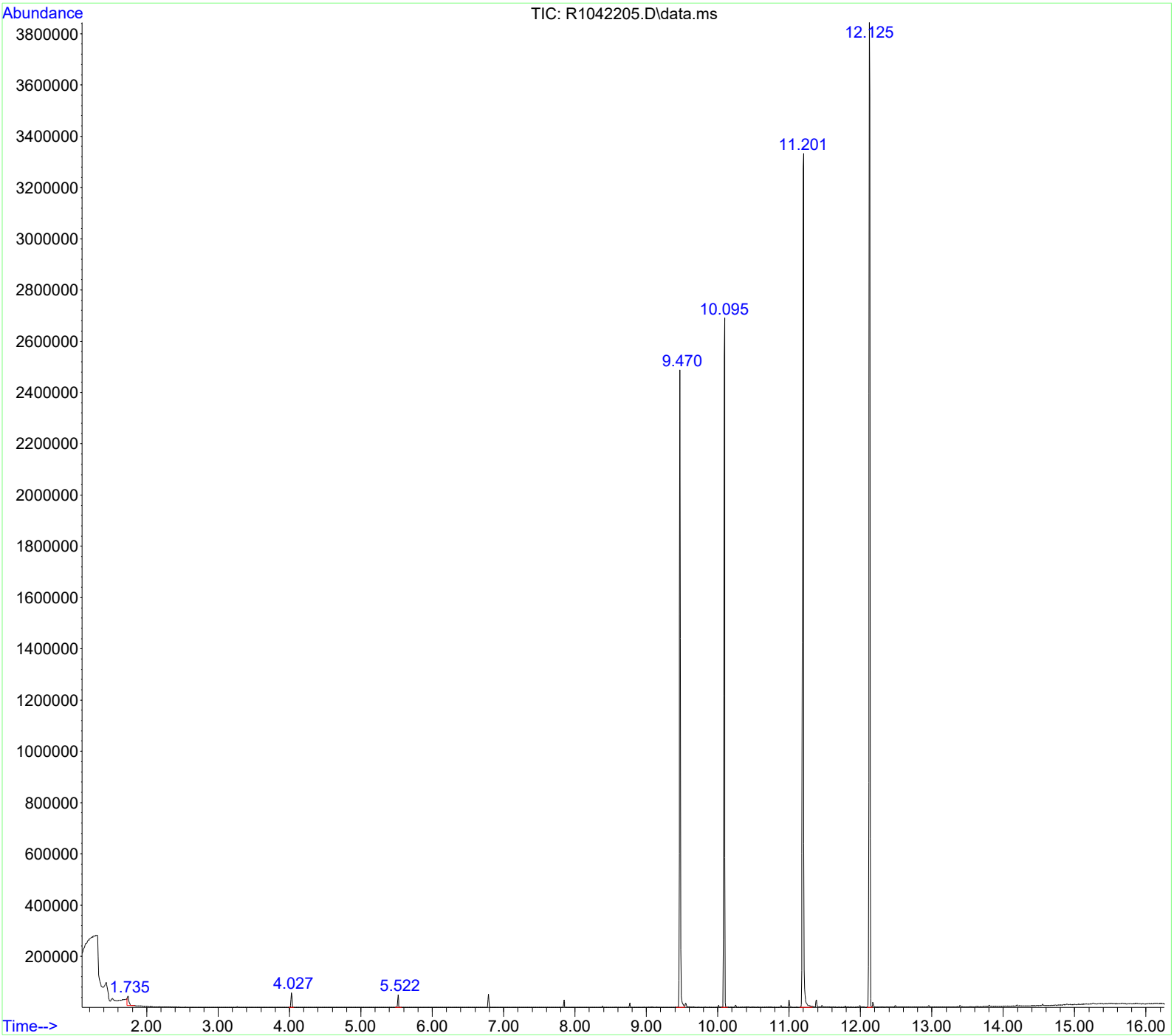
Area Percent Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042205.D
Acq On : 22 Apr 2021 9:46 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\DFTPP.M
Title :



Library Search Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042205.D
Acq On : 22 Apr 2021 9:46 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

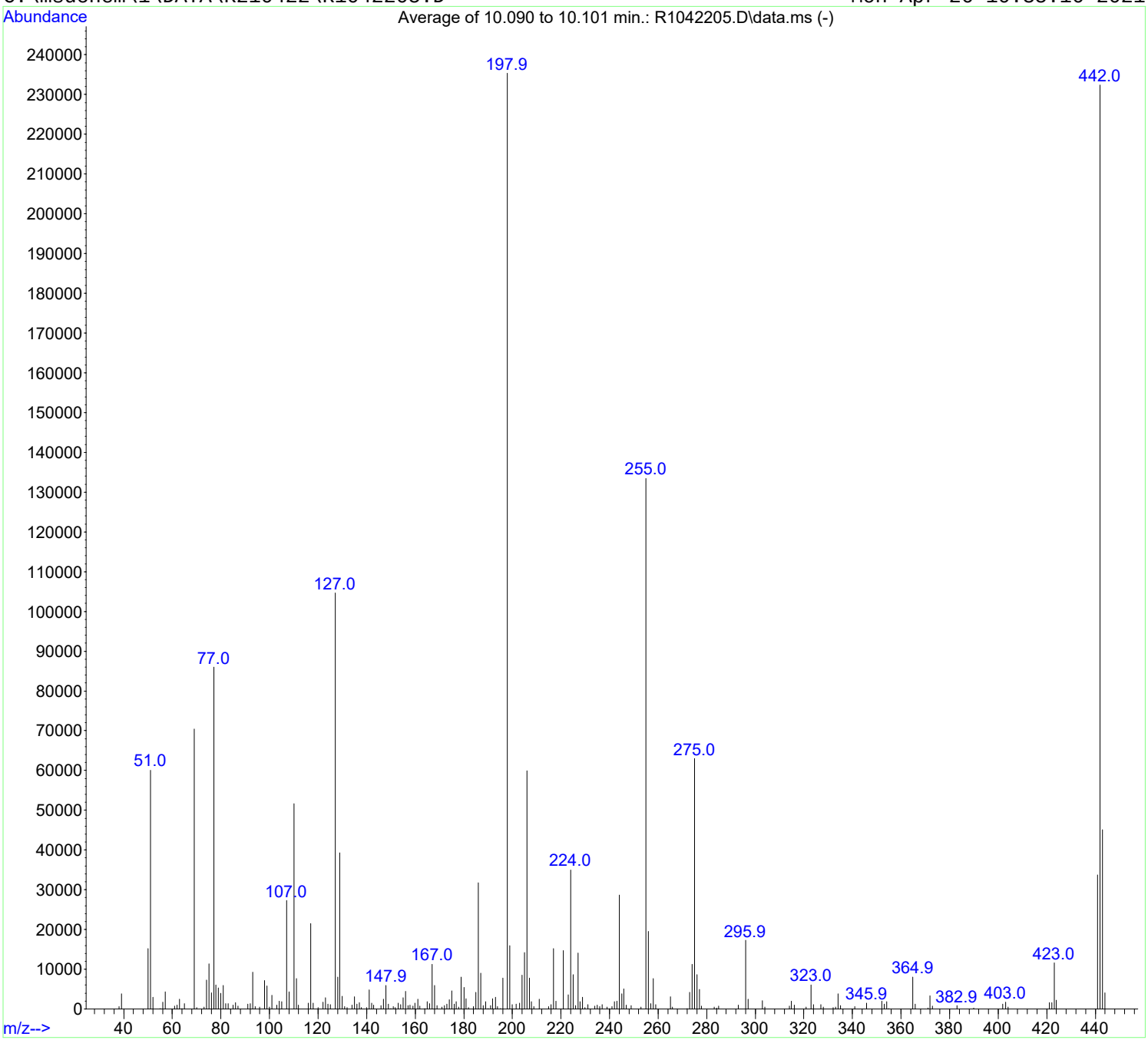
Search Libraries: C:\Database\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Events: RTE Integrator - RTEINT.P

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.735	0.48	C:\Database\NIST14.L			
			Methylene chloride	1541	000075-09-2	87
			Methylene chloride	1542	000075-09-2	87
			Methylene chloride	1544	000075-09-2	80
2	4.027	0.43	C:\Database\NIST14.L			
			Cyclotetrasiloxane, octamethyl-	155950	000556-67-2	91
			Cyclotetrasiloxane, octamethyl-	155949	000556-67-2	78
			Cyclotetrasiloxane, octamethyl-	155951	000556-67-2	78
3	5.522	0.32	C:\Database\NIST14.L			
			Cyclopentasiloxane, decamethyl-	220036	000541-02-6	72
			3-Amino-2-phenazinol ditms	209406	1000332-15-5	43
			N-(Trifluoroacetyl)-N,O,O',O''-tetrakis(trimethylsilyl)norepinephrin	271041	1000072-26-7	38
4	9.470	17.33	C:\Database\NIST14.L			
			Phenol, pentachloro-	125064	000087-86-5	99
			Phenol, pentachloro-	125062	000087-86-5	99
			Phenol, pentachloro-	125063	000087-86-5	89
5	10.095	19.20	C:\Database\NIST14.L			
			Bis(pentafluorophenyl)phenyl phosphine	254406	005074-71-5	99
			Bis(pentafluorophenyl)phenyl phosphine	254407	005074-71-5	99
			3,4-Diphenyl(1H)anthra[1,2-d]-1,3-diazepine-2(3H),8,13-trione	254710	1000110-45-8	10
6	11.201	32.00	C:\Database\NIST14.L			
			Benzidine	51188	000092-87-5	96
			Benzidine	51192	000092-87-5	96
			Benzidine	51191	000092-87-5	94
7	12.125	30.24	C:\Database\NIST14.L			
			1,1-Dichloro-2,2-bis(p-chlorophenyl)ethane	176322	000072-54-8	97
			p,p'-DDT	206681	000050-29-3	94
			o,p'-DDT	206676	000789-02-6	94

DFTPP 625 Results

C:\msdchem\1\DATA\R210422\R1042205.D Mon Apr 26 10:35:16 2021



Peak Apex is scan: 1686
Average of 3 scans: 1685,1686,1687 minus background scan 1679

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	Relative Abundance,%	Result Pass/Fail
51	198	30	60	25.5	FAIL*
68	69	0	2	0.0	PASS
69	198	0	100	29.9	PASS
70	69	0	2	0.6	PASS
127	198	40	60	44.4	PASS
197	198	0	1	0.0	PASS
198	198	100	100	100.0	PASS
199	198	5	9	6.8	PASS
275	198	10	30	26.8	PASS
365	198	1	100	3.4	PASS
441	443	0	100	74.7	PASS
442	198	40	100	98.8	PASS
443	442	17	23	19.4	PASS

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042205.D
Acq On : 22 Apr 2021 9:46 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\DFTPP.M
Title :
Last Update : Mon Oct 15 09:26:34 1990

Spectrum Information: Scan 1685

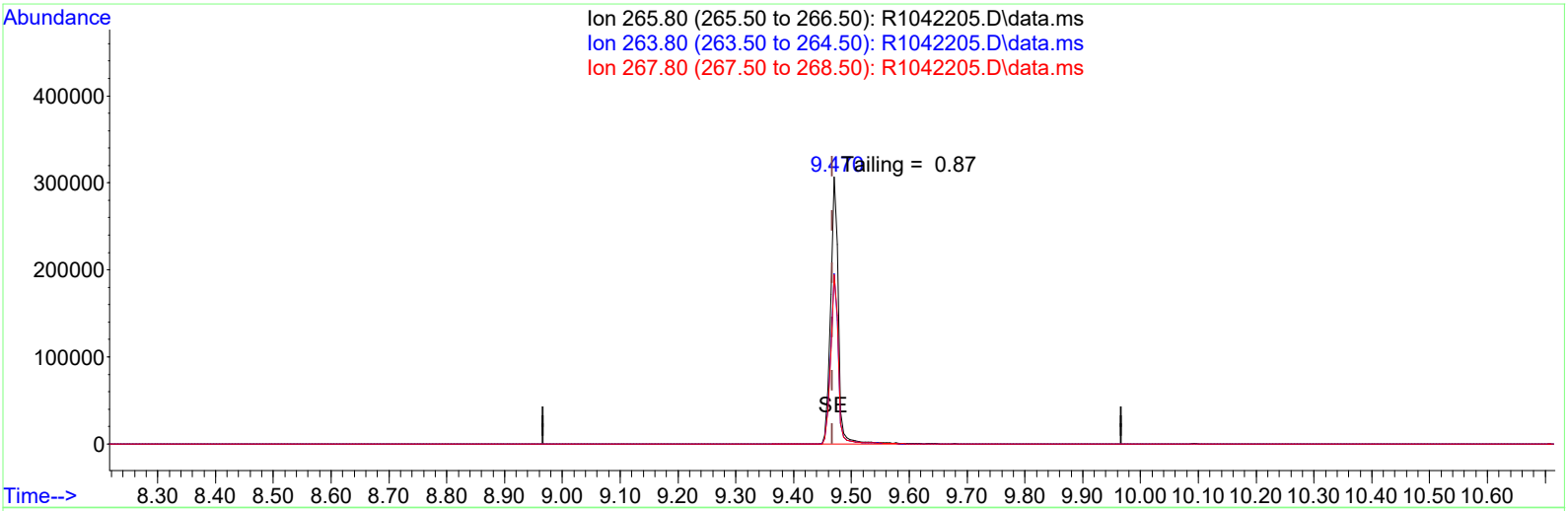
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	30.9	98240	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	35.1	111592	PASS
70	69	0.00	2	0.6	643	PASS
127	198	40	60	49.0	155648	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	317888	PASS
199	198	5	9	7.1	22512	PASS
275	198	10	30	23.7	75280	PASS
365	198	1	100	2.6	8322	PASS
441	443	0.01	100	72.0	29472	PASS
442	198	40	100	63.4	201536	PASS
443	442	17	23	20.3	40952	PASS

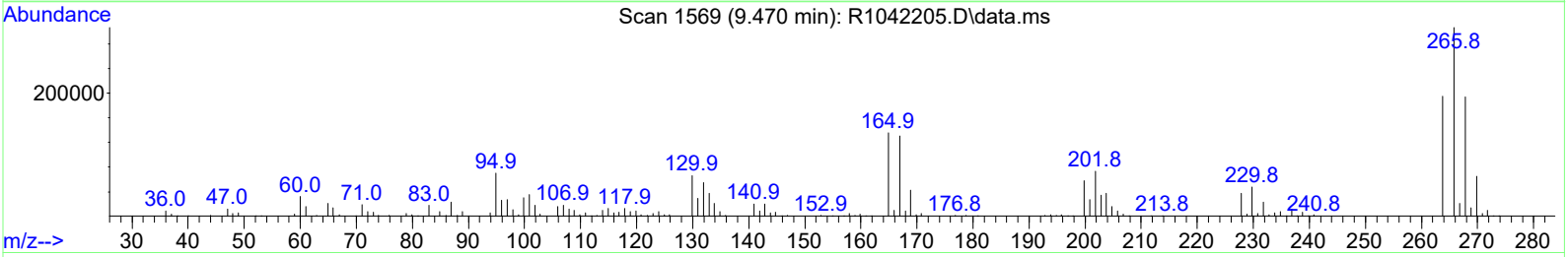
DFTPP.M Mon Apr 26 10:35:57 2021

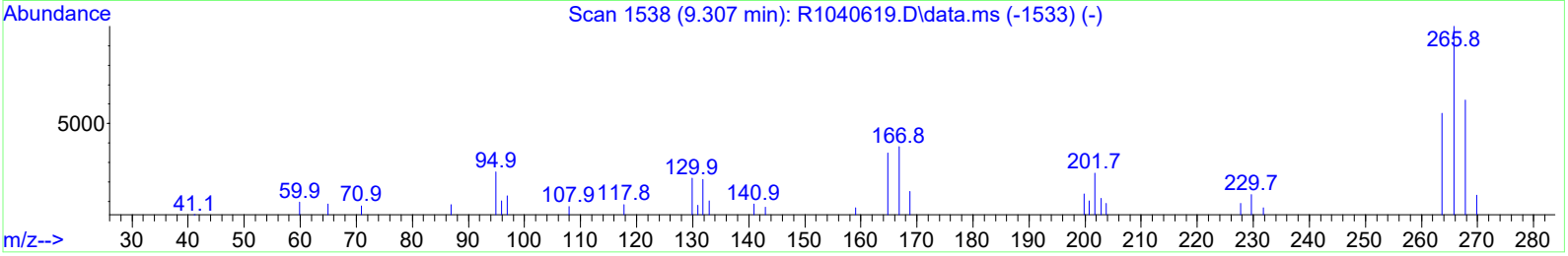
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042205.D
Acq On : 22 Apr 2021 9:46 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 26 10:33:40 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration







TIC: R1042205.D\data.ms

(84) Pentachlorophenol (CCC)

9.470min (+0.003) 81436.72 ng

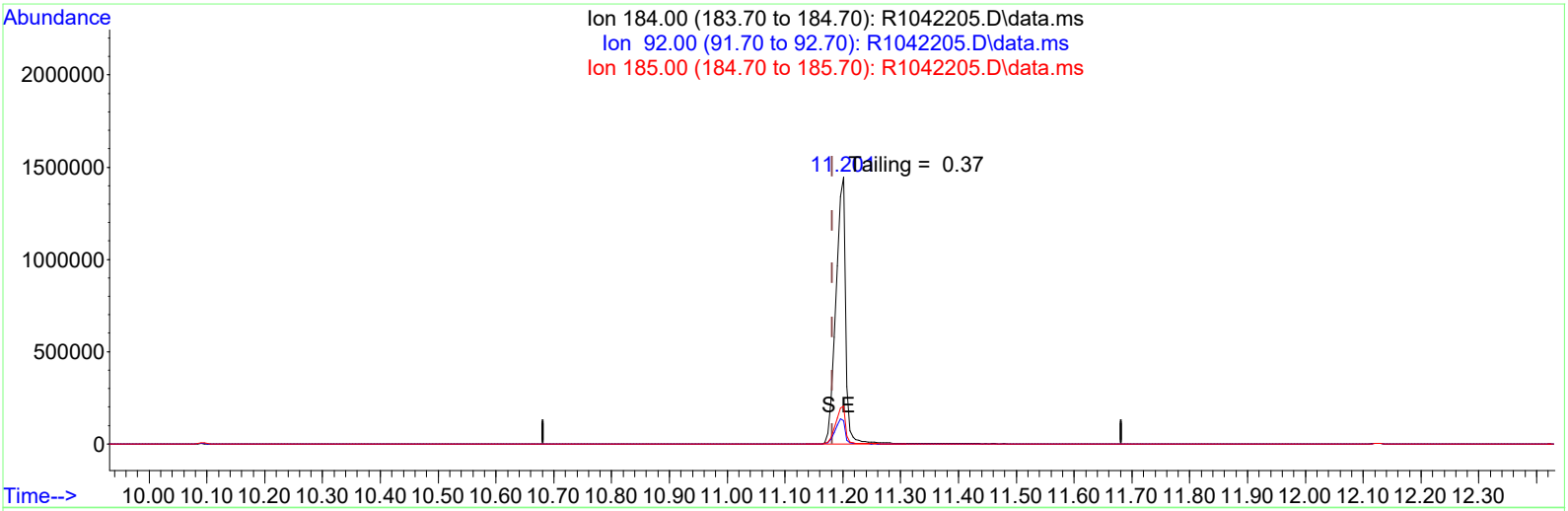
response 278475

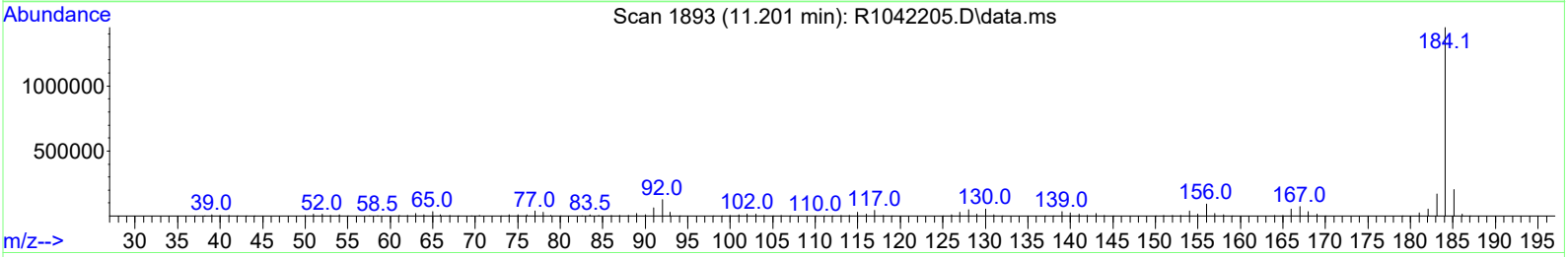
Ion	Exp%	Act%
265.80	100	100
263.80	63.40	63.56
267.80	64.10	63.42
0.00	0.00	0.00

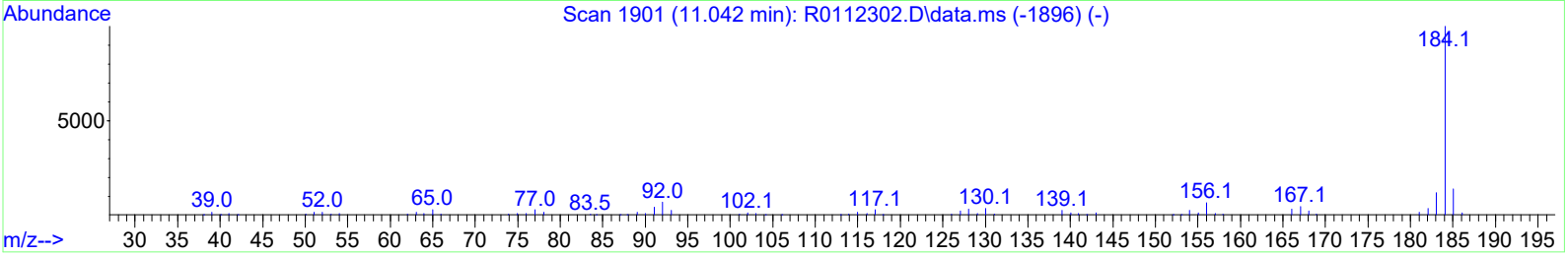
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042205.D
Acq On : 22 Apr 2021 9:46 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 26 10:33:40 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration







TIC: R1042205.D\data.ms

(95) Benzidine (T)

11.201min (+0.019) 0.00 ng

response 1668426

Ion	Exp%	Act%
184.00	100	100
92.00	9.00	9.59
185.00	14.80	14.27
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	97	0.00
2		Pyridine	40.000	37.780	5.5	88	-0.01
3	T	2-Picoline	40.000	24.180	39.6#	57	-0.02
4	T	Methyl methanesulfonate	40.000	21.989	45.0#	53	0.00
5	S	2-Fluorophenol	40.000	39.111	2.2	94	0.00
6	T	Ethyl methanesulfonate	40.000	35.759	10.6	86	0.00
7	C	Benzaldehyde	40.000	46.994	-17.5#	111	0.00
8	T	Aniline	40.000	36.091	9.8	88	0.00
9	S	Phenol-d5	40.000	38.973	2.6	93	0.00
10	C	Phenol	40.000	37.289	6.8#	89	0.00
11	T	Bis(2-chloroethyl)ether	40.000	39.387	1.5	93	0.00
12	T	2-Chlorophenol	40.000	38.006	5.0	92	0.00
13	T	1,3-Dichlorobenzene	40.000	37.929	5.2	90	0.00
14	CCC	1,4-Dichlorobenzene	40.000	38.661	3.3	93	0.00
15	T	1,2-Dichlorobenzene	40.000	38.159	4.6	90	0.00
16	T	Benzyl alcohol	40.000	38.066	4.8	91	0.00
17	T	Bis(2-chloroisopropyl)ether	40.000	33.249	16.9	77	0.00
18	T	2-Methylphenol	40.000	39.160	2.1	93	0.00
19	T	3,4-Methylphenol	80.000	86.193	-7.7	102	0.01
20	PC	N-Nitrosodi-n-propylamine	40.000	36.771	8.1	87	0.00
21	T	N-Nitrosodimethylamine	40.000	38.557	3.6	90	0.00
22	T	Hexachloroethane	40.000	38.493	3.8	92	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	99	0.00
24	S	Nitrobenzene-d5	40.000	38.888	2.8	95	0.00
25	T	Acetophenone	80.000	40.413	49.5#	49	0.00
26	M	Nitrobenzene	40.000	39.024	2.4	95	0.00
27	T	N-Nitrosopiperidine	40.000	39.381	1.5	97	0.00
28	T	Isophorone	40.000	38.085	4.8	92	0.00
29	CCC	2-Nitrophenol	40.000	40.289	-0.7	101	0.00
30	T	2,4-Dimethylphenol	40.000	38.084	4.8	92	0.00
31	T	Bis(2-chloroethoxy)methane	40.000	38.904	2.7	93	0.00
32	CCC	2,4-Dichlorophenol	40.000	39.461	1.3	95	0.00
33	T	1,2,4-Trichlorobenzene	40.000	38.857	2.9	94	0.00
34	T	Naphthalene	40.000	40.003	-0.0	96	0.00
35	T	Benzoic acid	40.000	45.106	-12.8	139	0.02
36	T	2,6-Dichlorophenol	40.000	38.607	3.5	94	0.00
37	T	4-Chloroaniline	40.000	38.429	3.9	92	0.00
38	CCC	Hexachlorobutadiene	40.000	37.892	5.3	91	0.00
39	T	a,a-Dimethylphenethylamine	40.000	37.625	5.9	91	0.03
40		Caprolactam	40.000	47.300	-18.2	116	0.06
41	CCC	4-Chloro-3-methylphenol	40.000	38.389	4.0	94	0.00
42	T	N-Nitroso-di-n-butylamine	40.000	46.249	-15.6	98	0.00
43	T	2-Methylnaphthalene	40.000	38.325	4.2	92	0.00
44	T	1-Methylnaphthalene	40.000	39.172	2.1	94	0.00
45	I	Acenaphthene-d10	40.000	40.000	0.0	100	0.00
46	T	1,2,4,5-Tetrachlorobenzene	40.000	38.612	3.5	94	0.00
47	PC	Hexachlorocyclopentadiene	40.000	30.344	24.1	75	0.00
48	CCC	2,4,6-Trichlorophenol	40.000	38.097	4.8	96	0.00
49	T	2,4,5-Trichlorophenol	40.000	38.587	3.5	95	0.00
50	S	2-Fluorobiphenyl	40.000	39.499	1.3	96	0.00
51		Biphenyl	40.000	45.221	-13.1	107	0.00

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	2-Chloronaphthalene	40.000	44.429	-11.1	111	0.00
53	T	1-Chloronaphthalene	40.000	32.728	18.2	76	0.00
54	T	2-Nitroaniline	40.000	39.278	1.8	98	0.00
55	T	3-Nitroaniline	40.000	38.822	2.9	98	0.00
56	T	Pentachlorobenzene	40.000	39.857	0.4	99	0.00
57	T	4-Nitroaniline	40.000	40.024	-0.1	100	0.01
58	T	2-Naphthylamine	40.000	34.981	12.5	85	0.00
59	T	1-Naphthylamine	40.000	33.197	17.0	81	0.00
60	T	Dimethyl phthalate	40.000	38.854	2.9	96	0.00
61	T	Acenaphthylene	40.000	38.643	3.4	93	0.00
62	T	2,6-Dinitrotoluene	40.000	40.017	-0.0	102	0.00
63	CCC	Acenaphthene	40.000	40.216	-0.5	98	0.00
64	PC	2,4-Dinitrophenol	40.000	39.299	1.8	100	0.00
65	T	Dibenzofuran	40.000	39.689	0.8	96	0.00
66	PC	4-Nitrophenol	40.000	38.045	4.9	98	0.00
67	M	2,4-Dinitrotoluene	40.000	38.632	3.4	98	0.00
68	T	2,3,4,6-Tetrachlorophenol	40.000	39.378	1.6	100	0.00
69	T	Diethyl phthalate	40.000	39.009	2.5	96	0.00
70	T	Fluorene	40.000	38.148	4.6	93	0.00
71	T	4-Chlorophenyl phenyl ether	40.000	38.820	2.9	97	0.00
72	S	2,4,6-Tribromophenol	40.000	38.812	3.0	99	0.00
73	I	Phenanthrene-d10	40.000	40.000	0.0	100	0.00
74	T	4,6-Dinitro-2-methylphenol	40.000	36.528	8.7	97	0.01
75	T	Azobenzene	40.000	41.950	-4.9	103	0.00
76	T	1,2-Diphenylhydrazine	40.000	42.296	-5.7	104	0.00
77	CCC	Diphenylamine	40.000	45.392	-13.5	110	0.00
78	T	N-Nitrosodiphenylamine	40.000	45.366	-13.4	110	0.00
79	T	4-Bromophenyl phenyl ether	40.000	38.574	3.6	96	0.00
80	T	Phenacetin	40.000	40.869	-2.2	99	0.01
81	T	Hexachlorobenzene	40.000	37.989	5.0	95	0.00
82		Atrazine	40.000	47.890	-19.7	117	0.01
83	T	4-Aminobiphenyl	40.000	37.691	5.8	90	0.00
84	CCC	Pentachlorophenol	40.000	35.188	12.0	90	0.00
85	T	Pentachloronitrobenzene	40.000	40.689	-1.7	100	0.00
86	T	Pronamide	40.000	44.314	-10.8	108	0.00
87	T	Phenanthrene	40.000	39.102	2.2	95	0.00
88	T	Anthracene	40.000	34.871	12.8	84	0.00
89	T	Carbazole	40.000	47.891	-19.7	116	0.00
90	T	Di-n-butyl phthalate	40.000	38.635	3.4	93	0.00
91	CCC	Fluoranthene	40.000	39.364	1.6	96	0.00
92	I	Chrysene-d12	40.000	40.000	0.0	102	0.00
93	T	Pyrene	40.000	38.772	3.1	98	0.00
94	S	4-Terphenyl-d14	40.000	38.926	2.7	99	0.00
95	T	Benzidine	40.000	35.887	10.3	85	0.00
96	T	p-Dimethylaminoazobenzene	40.000	38.306	4.2	98	0.00
97	T	Butyl benzyl phthalate	40.000	37.511	6.2	97	0.00
98	T	Benz(a)anthracene	40.000	37.884	5.3	96	0.00
99	T	3,3'-Dichlorobenzidine	40.000	38.495	3.8	93	0.00
100	T	Chrysene	40.000	37.498	6.3	95	0.00
101	T	Bis(2-ethylhexyl)phthalate	40.000	39.531	1.2	98	0.00
102	CCC	Di-n-octyl phthalate	40.000	37.085	7.3	96	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
103 T	3-Methylcholanthrene	40.000	50.012	-25.0#	131	0.00
104 T	Indeno[1,2,3-cd]pyrene	40.000	37.176	7.1	96	0.00
105 I	Perylene-d12	40.000	40.000	0.0	116	0.00
106 T	Benzo[b]fluoranthene	40.000	33.687	15.8	98	0.00
107 T	Benzo[k]fluoranthene	40.000	36.205	9.5	97	0.00
108 CCC	Benzo[a]pyrene	40.000	33.860	15.4	98	0.00
109 T	Dibenz(a,j)acridine	40.000	31.123	22.2#	91	0.00
110 T	Dibenz(a,h)anthracene	40.000	34.025	14.9	97	0.00
111 T	Benzo[g,h,i]perylene	40.000	34.519	13.7	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 2

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
2		Pyridine	1.534	1.449	5.5	88	-0.01
3	T	2-Picoline	1.557	0.941	39.6#	57	-0.02
4	T	Methyl methanesulfonate	0.651	0.358	45.0#	53	0.00
5	S	2-Fluorophenol	1.248	1.220	2.2	94	0.00
6	T	Ethyl methanesulfonate	1.016	0.908	10.6	86	0.00
7	C	Benzaldehyde	0.809	0.951	-17.6#	111	0.00
8	T	Aniline	0.769	0.693	9.9	88	0.00
9	S	Phenol-d5	1.515	1.476	2.6	93	0.00
10	C	Phenol	1.838	1.714	6.7#	89	0.00
11	T	Bis(2-chloroethyl)ether	1.304	1.284	1.5	93	0.00
12	T	2-Chlorophenol	1.407	1.337	5.0	92	0.00
13	T	1,3-Dichlorobenzene	1.605	1.522	5.2	90	0.00
14	CCC	1,4-Dichlorobenzene	1.623	1.568	3.4	93	0.00
15	T	1,2-Dichlorobenzene	1.512	1.442	4.6	90	0.00
16	T	Benzyl alcohol	0.904	0.860	4.9	91	0.00
17	T	Bis(2-chloroisopropyl)ether	1.364	1.133	16.9	77	0.00
18	T	2-Methylphenol	1.058	1.036	2.1	93	0.00
19	T	3,4-Methylphenol	1.376	1.482	-7.7	102	0.01
20	PC	N-Nitrosodi-n-propylamine	0.868	0.798	8.1	87	0.00
21	T	N-Nitrosodimethylamine	0.471	0.454	3.6	90	0.00
22	T	Hexachloroethane	0.572	0.551	3.7	92	0.00
23	I	Naphthalene-d8	1.000	1.000	0.0	99	0.00
24	S	Nitrobenzene-d5	0.310	0.301	2.9	95	0.00
25	T	Acetophenone	0.454	0.229	49.6#	49#	0.00
26	M	Nitrobenzene	0.175	0.171	2.3	95	0.00
27	T	N-Nitrosopiperidine	0.173	0.170	1.7	97	0.00
28	T	Isophorone	0.639	0.608	4.9	92	0.00
29	CCC	2-Nitrophenol	0.168	0.169	-0.6	101	0.00
30	T	2,4-Dimethylphenol	0.310	0.295	4.8	92	0.00
31	T	Bis(2-chloroethoxy)methane	0.402	0.391	2.7	93	0.00
32	CCC	2,4-Dichlorophenol	0.297	0.293	1.3	95	0.00
33	T	1,2,4-Trichlorobenzene	0.335	0.325	3.0	94	0.00
34	T	Naphthalene	1.048	1.048	0.0	96	0.00
35	T	Benzoic acid	0.060	0.026	56.7#	139	0.02
36	T	2,6-Dichlorophenol	0.289	0.279	3.5	94	0.00
37	T	4-Chloroaniline	0.440	0.423	3.9	92	0.00
38	CCC	Hexachlorobutadiene	0.191	0.181	5.2	91	0.00
39	T	a,a-Dimethylphenethylamine	0.802	0.754	6.0	91	0.03
40		Caprolactam	0.113	0.133	-17.7	116	0.06
41	CCC	4-Chloro-3-methylphenol	0.283	0.272	3.9	94	0.00
42	T	N-Nitroso-di-n-butylamine	0.250	0.289	-15.6	98	0.00
43	T	2-Methylnaphthalene	0.607	0.582	4.1	92	0.00
44	T	1-Methylnaphthalene	0.597	0.584	2.2	94	0.00
45	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
46	T	1,2,4,5-Tetrachlorobenzene	0.553	0.534	3.4	94	0.00
47	PC	Hexachlorocyclopentadiene	0.305	0.231	24.3	75	0.00
48	CCC	2,4,6-Trichlorophenol	0.356	0.339	4.8	96	0.00
49	T	2,4,5-Trichlorophenol	0.399	0.385	3.5	95	0.00
50	S	2-Fluorobiphenyl	1.292	1.276	1.2	96	0.00
51		Biphenyl	1.390	1.571	-13.0	107	0.00

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	T	2-Chloronaphthalene	1.166	1.295	-11.1	111	0.00
53	T	1-Chloronaphthalene	1.054	0.862	18.2	76	0.00
54	T	2-Nitroaniline	0.274	0.269	1.8	98	0.00
55	T	3-Nitroaniline	0.324	0.314	3.1	98	0.00
56	T	Pentachlorobenzene	0.488	0.486	0.4	99	0.00
57	T	4-Nitroaniline	0.336	0.336	0.0	100	0.01
58	T	2-Naphthylamine	1.172	1.025	12.5	85	0.00
59	T	1-Naphthylamine	1.253	1.040	17.0	81	0.00
60	T	Dimethyl phthalate	1.263	1.227	2.9	96	0.00
61	T	Acenaphthylene	1.746	1.686	3.4	93	0.00
62	T	2,6-Dinitrotoluene	0.264	0.264	0.0	102	0.00
63	CCC	Acenaphthene	1.058	1.064	-0.6	98	0.00
64	PC	2,4-Dinitrophenol	0.100	0.077	23.0	100	0.00
65	T	Dibenzofuran	1.626	1.613	0.8	96	0.00
66	PC	4-Nitrophenol	0.158	0.151	4.4	98	0.00
67	M	2,4-Dinitrotoluene	0.367	0.355	3.3	98	0.00
68	T	2,3,4,6-Tetrachlorophenol	0.281	0.276	1.8	100	0.00
69	T	Diethyl phthalate	1.224	1.194	2.5	96	0.00
70	T	Fluorene	1.353	1.290	4.7	93	0.00
71	T	4-Chlorophenyl phenyl ether	0.650	0.631	2.9	97	0.00
72	S	2,4,6-Tribromophenol	0.155	0.150	3.2	99	0.00
73	I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
74	T	4,6-Dinitro-2-methylphenol	0.091	0.080	12.1	97	0.01
75	T	Azobenzene	0.636	0.667	-4.9	103	0.00
76	T	1,2-Diphenylhydrazine	0.194	0.205	-5.7	104	0.00
77	CCC	Diphenylamine	0.135	0.154	-14.1	110	0.00
78	T	N-Nitrosodiphenylamine	0.639	0.725	-13.5	110	0.00
79	T	4-Bromophenyl phenyl ether	0.215	0.207	3.7	96	0.00
80	T	Phenacetin	0.327	0.334	-2.1	99	0.01
81	T	Hexachlorobenzene	0.230	0.219	4.8	95	0.00
82		Atrazine	0.200	0.239	-19.5	117	0.01
83	T	4-Aminobiphenyl	0.809	0.762	5.8	90	0.00
84	CCC	Pentachlorophenol	0.127	0.112	11.8	90	0.00
85	T	Pentachloronitrobenzene	0.084	0.085	-1.2	100	0.00
86	T	Pronamide	0.291	0.322	-10.7	108	0.00
87	T	Phenanthrene	1.090	1.065	2.3	95	0.00
88	T	Anthracene	1.096	0.955	12.9	84	0.00
89	T	Carbazole	0.983	1.177	-19.7	116	0.00
90	T	Di-n-butyl phthalate	1.167	1.127	3.4	93	0.00
91	CCC	Fluoranthene	1.213	1.194	1.6	96	0.00
92	I	Chrysene-d12	1.000	1.000	0.0	102	0.00
93	T	Pyrene	1.391	1.348	3.1	98	0.00
94	S	4-Terphenyl-d14	0.989	0.962	2.7	99	0.00
95	T	Benzidine	0.520	0.467	10.2	85	0.00
96	T	p-Dimethylaminoazobenzene	0.276	0.264	4.3	98	0.00
97	T	Butyl benzyl phthalate	0.571	0.536	6.1	97	0.00
98	T	Benz(a)anthracene	1.304	1.235	5.3	96	0.00
99	T	3,3'-Dichlorobenzidine	0.475	0.457	3.8	93	0.00
100	T	Chrysene	1.353	1.269	6.2	95	0.00
101	T	Bis(2-ethylhexyl)phthalate	0.756	0.747	1.2	98	0.00
102	CCC	Di-n-octyl phthalate	1.264	1.172	7.3	96	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
103 T	3-Methylcholanthrene	0.443	0.554	-25.1#	131	0.00
104 T	Indeno[1,2,3-cd]pyrene	1.518	1.411	7.0	96	0.00
105 I	Perylene-d12	1.000	1.000	0.0	116	0.00
106 T	Benzo[b]fluoranthene	1.344	1.132	15.8	98	0.00
107 T	Benzo[k]fluoranthene	1.339	1.212	9.5	97	0.00
108 CCC	Benzo[a]pyrene	1.179	0.998	15.4	98	0.00
109 T	Dibenz(a,j)acridine	1.009	0.785	22.2#	91	0.00
110 T	Dibenz(a,h)anthracene	1.240	1.055	14.9	97	0.00
111 T	Benzo[g,h,i]perylene	1.264	1.091	13.7	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 2

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	108	0.00
2		Pyridine	80.000	72.215	9.7	98	-0.02
3	T	2-Picoline	80.000	67.775	15.3	91	-0.02
4	T	Methyl methanesulfonate	80.000	72.699	9.1	97	0.00
5	S	2-Fluorophenol	80.000	77.782	2.8	103	0.00
6	T	Ethyl methanesulfonate	80.000	71.411	10.7	95	0.00
7	C	Benzaldehyde	80.000	68.341	14.6#	115	0.00
8	T	Aniline	80.000	71.949	10.1	98	0.00
9	S	Phenol-d5	80.000	77.997	2.5	103	0.01
10	C	Phenol	80.000	73.985	7.5#	98	0.01
11	T	Bis(2-chloroethyl)ether	80.000	78.112	2.4	106	0.00
12	T	2-Chlorophenol	80.000	75.394	5.8	100	0.00
13	T	1,3-Dichlorobenzene	80.000	75.246	5.9	100	0.00
14	CCC	1,4-Dichlorobenzene	80.000	75.930	5.1	102	0.00
15	T	1,2-Dichlorobenzene	80.000	74.626	6.7	100	0.00
16	T	Benzyl alcohol	80.000	75.114	6.1	98	0.01
17	T	Bis(2-chloroisopropyl)ether	80.000	64.356	19.6	89	0.00
18	T	2-Methylphenol	80.000	77.585	3.0	103	0.00
19	T	3,4-Methylphenol	160.000	160.340	-0.2	105	0.02
20	PC	N-Nitrosodi-n-propylamine	80.000	73.341	8.3	95	0.01
21	T	N-Nitrosodimethylamine	80.000	75.576	5.5	103	0.00
22	T	Hexachloroethane	80.000	76.652	4.2	100	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	107	0.00
24	S	Nitrobenzene-d5	80.000	80.813	-1.0	104	0.00
25	T	Acetophenone	160.000	81.175	49.3#	54	0.00
26	M	Nitrobenzene	80.000	80.302	-0.4	103	0.00
27	T	N-Nitrosopiperidine	80.000	78.813	1.5	102	0.00
28	T	Isophorone	80.000	76.574	4.3	101	0.00
29	CCC	2-Nitrophenol	80.000	84.544	-5.7	103	0.00
30	T	2,4-Dimethylphenol	80.000	78.915	1.4	103	0.00
31	T	Bis(2-chloroethoxy)methane	80.000	78.182	2.3	103	0.00
32	CCC	2,4-Dichlorophenol	80.000	80.098	-0.1	102	0.00
33	T	1,2,4-Trichlorobenzene	80.000	78.915	1.4	103	0.00
34	T	Naphthalene	80.000	78.123	2.3	103	0.00
35	T	Benzoic acid	80.000	80.309	-0.4	111	0.07
36	T	2,6-Dichlorophenol	80.000	78.589	1.8	101	0.00
37	T	4-Chloroaniline	80.000	77.429	3.2	101	0.00
38	CCC	Hexachlorobutadiene	80.000	76.813	4.0	101	0.00
39	T	a,a-Dimethylphenethylamine	80.000	77.600	3.0	100	0.09
40		Caprolactam	80.000	97.223	-21.5#	123	0.10
41	CCC	4-Chloro-3-methylphenol	80.000	80.563	-0.7	103	0.02
42	T	N-Nitroso-di-n-butylamine	80.000	81.033	-1.3	93	0.00
43	T	2-Methylnaphthalene	80.000	76.336	4.6	100	0.00
44	T	1-Methylnaphthalene	80.000	77.669	2.9	103	0.00
45	I	Acenaphthene-d10	40.000	40.000	0.0	104	0.00
46	T	1,2,4,5-Tetrachlorobenzene	80.000	79.387	0.8	103	0.00
47	PC	Hexachlorocyclopentadiene	80.000	69.447	13.2	84	0.00
48	CCC	2,4,6-Trichlorophenol	80.000	81.391	-1.7	101	0.01
49	T	2,4,5-Trichlorophenol	80.000	81.908	-2.4	103	0.01
50	S	2-Fluorobiphenyl	80.000	80.213	-0.3	104	0.00
51		Biphenyl	80.000	87.394	-9.2	113	0.01

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	2-Chloronaphthalene	80.000	89.638	-12.0	120	0.01
53	T	1-Chloronaphthalene	80.000	64.944	18.8	81	0.01
54	T	2-Nitroaniline	80.000	83.513	-4.4	102	0.01
55	T	3-Nitroaniline	80.000	82.316	-2.9	100	0.01
56	T	Pentachlorobenzene	80.000	81.417	-1.8	105	0.00
57	T	4-Nitroaniline	80.000	84.588	-5.7	104	0.03
58	T	2-Naphthylamine	80.000	72.699	9.1	93	0.01
59	T	1-Naphthylamine	80.000	67.956	15.1	88	0.01
60	T	Dimethyl phthalate	80.000	79.952	0.1	103	0.01
61	T	Acenaphthylene	80.000	78.731	1.6	101	0.00
62	T	2,6-Dinitrotoluene	80.000	88.632	-10.8	106	0.01
63	CCC	Acenaphthene	80.000	80.953	-1.2	105	0.00
64	PC	2,4-Dinitrophenol	80.000	68.186	14.8	88	0.02
65	T	Dibenzofuran	80.000	79.680	0.4	104	0.00
66	PC	4-Nitrophenol	80.000	75.661	5.4	93	0.02
67	M	2,4-Dinitrotoluene	80.000	85.547	-6.9	101	0.01
68	T	2,3,4,6-Tetrachlorophenol	80.000	83.873	-4.8	101	0.01
69	T	Diethyl phthalate	80.000	80.453	-0.6	104	0.02
70	T	Fluorene	80.000	77.935	2.6	101	0.00
71	T	4-Chlorophenyl phenyl ether	80.000	80.087	-0.1	103	0.00
72	S	2,4,6-Tribromophenol	80.000	83.606	-4.5	101	0.01
73	I	Phenanthrene-d10	40.000	40.000	0.0	104	0.00
74	T	4,6-Dinitro-2-methylphenol	80.000	67.234	16.0	87	0.04
75	T	Azobenzene	80.000	85.480	-6.9	113	0.01
76	T	1,2-Diphenylhydrazine	80.000	88.465	-10.6	114	0.01
77	CCC	Diphenylamine	80.000	90.242	-12.8	115	0.02
78	T	N-Nitrosodiphenylamine	80.000	89.797	-12.2	116	0.02
79	T	4-Bromophenyl phenyl ether	80.000	78.965	1.3	100	0.00
80	T	Phenacetin	80.000	85.644	-7.1	105	0.03
81	T	Hexachlorobenzene	80.000	79.372	0.8	101	0.01
82		Atrazine	80.000	97.719	-22.1#	122	0.02
83	T	4-Aminobiphenyl	80.000	74.725	6.6	94	0.01
84	CCC	Pentachlorophenol	80.000	76.578	4.3	89	0.02
85	T	Pentachloronitrobenzene	80.000	85.465	-6.8	104	0.01
86	T	Pronamide	80.000	93.321	-16.7	116	0.02
87	T	Phenanthrene	80.000	78.091	2.4	101	0.01
88	T	Anthracene	80.000	70.375	12.0	90	0.00
89	T	Carbazole	80.000	96.805	-21.0#	124	0.01
90	T	Di-n-butyl phthalate	80.000	80.092	-0.1	100	0.00
91	CCC	Fluoranthene	80.000	80.476	-0.6	102	0.00
92	I	Chrysene-d12	40.000	40.000	0.0	106	0.01
93	T	Pyrene	80.000	77.357	3.3	102	0.01
94	S	4-Terphenyl-d14	80.000	79.351	0.8	103	0.00
95	T	Benzidine	80.000	77.457	3.2	104	0.00
96	T	p-Dimethylaminoazobenzene	80.000	81.410	-1.8	100	0.00
97	T	Butyl benzyl phthalate	80.000	80.281	-0.4	101	0.00
98	T	Benz(a)anthracene	80.000	78.606	1.7	101	0.00
99	T	3,3'-Dichlorobenzidine	80.000	81.002	-1.3	104	0.01
100	T	Chrysene	80.000	76.061	4.9	100	0.01
101	T	Bis(2-ethylhexyl)phthalate	80.000	84.772	-6.0	101	0.00
102	CCC	Di-n-octyl phthalate	80.000	82.584	-3.2	99	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	80.000	109.765	-37.2#	133	0.01
104	T	Indeno[1,2,3-cd]pyrene	80.000	82.184	-2.7	101	0.02
105	I	Perylene-d12	40.000	40.000	0.0	112	0.00
106	T	Benzo[b]fluoranthene	80.000	70.531	11.8	101	0.02
107	T	Benzo[k]fluoranthene	80.000	71.311	10.9	105	0.02
108	CCC	Benzo[a]pyrene	80.000	70.447	11.9	98	0.01
109	T	Dibenz(a,j)acridine	80.000	68.109	14.9	89	0.01
110	T	Dibenz(a,h)anthracene	80.000	72.160	9.8	100	0.02
111	T	Benzo[g,h,i]perylene	80.000	72.659	9.2	104	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 2

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00
2		Pyridine	1.534	1.385	9.7	98	-0.02
3	T	2-Picoline	1.557	1.319	15.3	91	-0.02
4	T	Methyl methanesulfonate	0.651	0.592	9.1	97	0.00
5	S	2-Fluorophenol	1.248	1.213	2.8	103	0.00
6	T	Ethyl methanesulfonate	1.016	0.907	10.7	95	0.00
7	C	Benzaldehyde	0.809	0.691	14.6#	115	0.00
8	T	Aniline	0.769	0.691	10.1	98	0.00
9	S	Phenol-d5	1.515	1.477	2.5	103	0.01
10	C	Phenol	1.838	1.700	7.5#	98	0.01
11	T	Bis(2-chloroethyl)ether	1.304	1.273	2.4	106	0.00
12	T	2-Chlorophenol	1.407	1.326	5.8	100	0.00
13	T	1,3-Dichlorobenzene	1.605	1.510	5.9	100	0.00
14	CCC	1,4-Dichlorobenzene	1.623	1.540	5.1	102	0.00
15	T	1,2-Dichlorobenzene	1.512	1.410	6.7	100	0.00
16	T	Benzyl alcohol	0.904	0.849	6.1	98	0.01
17	T	Bis(2-chloroisopropyl)ether	1.364	1.097	19.6	89	0.00
18	T	2-Methylphenol	1.058	1.026	3.0	103	0.00
19	T	3,4-Methylphenol	1.376	1.379	-0.2	105	0.02
20	PC	N-Nitrosodi-n-propylamine	0.868	0.796	8.3	95	0.01
21	T	N-Nitrosodimethylamine	0.471	0.445	5.5	103	0.00
22	T	Hexachloroethane	0.572	0.548	4.2	100	0.00
23	I	Naphthalene-d8	1.000	1.000	0.0	107	0.00
24	S	Nitrobenzene-d5	0.310	0.313	-1.0	104	0.00
25	T	Acetophenone	0.454	0.230	49.3#	54	0.00
26	M	Nitrobenzene	0.175	0.176	-0.6	103	0.00
27	T	N-Nitrosopiperidine	0.173	0.170	1.7	102	0.00
28	T	Isophorone	0.639	0.612	4.2	101	0.00
29	CCC	2-Nitrophenol	0.168	0.177	-5.4	103	0.00
30	T	2,4-Dimethylphenol	0.310	0.306	1.3	103	0.00
31	T	Bis(2-chloroethoxy)methane	0.402	0.393	2.2	103	0.00
32	CCC	2,4-Dichlorophenol	0.297	0.297	0.0	102	0.00
33	T	1,2,4-Trichlorobenzene	0.335	0.330	1.5	103	0.00
34	T	Naphthalene	1.048	1.023	2.4	103	0.00
35	T	Benzoic acid	0.060	0.065	-8.3	111	0.07
36	T	2,6-Dichlorophenol	0.289	0.284	1.7	101	0.00
37	T	4-Chloroaniline	0.440	0.426	3.2	101	0.00
38	CCC	Hexachlorobutadiene	0.191	0.183	4.2	101	0.00
39	T	a,a-Dimethylphenethylamine	0.802	0.777	3.1	100	0.09
40		Caprolactam	0.113	0.137	-21.2#	123	0.10
41	CCC	4-Chloro-3-methylphenol	0.283	0.285	-0.7	103	0.02
42	T	N-Nitroso-di-n-butylamine	0.250	0.253	-1.2	93	0.00
43	T	2-Methylnaphthalene	0.607	0.580	4.4	100	0.00
44	T	1-Methylnaphthalene	0.597	0.579	3.0	103	0.00
45	I	Acenaphthene-d10	1.000	1.000	0.0	104	0.00
46	T	1,2,4,5-Tetrachlorobenzene	0.553	0.549	0.7	103	0.00
47	PC	Hexachlorocyclopentadiene	0.305	0.265	13.1	84	0.00
48	CCC	2,4,6-Trichlorophenol	0.356	0.363	-2.0	101	0.01
49	T	2,4,5-Trichlorophenol	0.399	0.409	-2.5	103	0.01
50	S	2-Fluorobiphenyl	1.292	1.295	-0.2	104	0.00
51		Biphenyl	1.390	1.518	-9.2	113	0.01

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	T	2-Chloronaphthalene	1.166	1.306	-12.0	120	0.01
53	T	1-Chloronaphthalene	1.054	0.855	18.9	81	0.01
54	T	2-Nitroaniline	0.274	0.286	-4.4	102	0.01
55	T	3-Nitroaniline	0.324	0.333	-2.8	100	0.01
56	T	Pentachlorobenzene	0.488	0.497	-1.8	105	0.00
57	T	4-Nitroaniline	0.336	0.355	-5.7	104	0.03
58	T	2-Naphthylamine	1.172	1.065	9.1	93	0.01
59	T	1-Naphthylamine	1.253	1.064	15.1	88	0.01
60	T	Dimethyl phthalate	1.263	1.262	0.1	103	0.01
61	T	Acenaphthylene	1.746	1.718	1.6	101	0.00
62	T	2,6-Dinitrotoluene	0.264	0.293	-11.0	106	0.01
63	CCC	Acenaphthene	1.058	1.071	-1.2	105	0.00
64	PC	2,4-Dinitrophenol	0.100	0.095	5.0	88	0.02
65	T	Dibenzofuran	1.626	1.619	0.4	104	0.00
66	PC	4-Nitrophenol	0.158	0.150	5.1	93	0.02
67	M	2,4-Dinitrotoluene	0.367	0.393	-7.1	101	0.01
68	T	2,3,4,6-Tetrachlorophenol	0.281	0.294	-4.6	101	0.01
69	T	Diethyl phthalate	1.224	1.231	-0.6	104	0.02
70	T	Fluorene	1.353	1.318	2.6	101	0.00
71	T	4-Chlorophenyl phenyl ether	0.650	0.651	-0.2	103	0.00
72	S	2,4,6-Tribromophenol	0.155	0.162	-4.5	101	0.01
73	I	Phenanthrene-d10	1.000	1.000	0.0	104	0.00
74	T	4,6-Dinitro-2-methylphenol	0.091	0.092	-1.1	87	0.04
75	T	Azobenzene	0.636	0.679	-6.8	113	0.01
76	T	1,2-Diphenylhydrazine	0.194	0.215	-10.8	114	0.01
77	CCC	Diphenylamine	0.135	0.153	-13.3	115	0.02
78	T	N-Nitrosodiphenylamine	0.639	0.717	-12.2	116	0.02
79	T	4-Bromophenyl phenyl ether	0.215	0.212	1.4	100	0.00
80	T	Phenacetin	0.327	0.350	-7.0	105	0.03
81	T	Hexachlorobenzene	0.230	0.228	0.9	101	0.01
82		Atrazine	0.200	0.244	-22.0#	122	0.02
83	T	4-Aminobiphenyl	0.809	0.756	6.6	94	0.01
84	CCC	Pentachlorophenol	0.127	0.122	3.9	89	0.02
85	T	Pentachloronitrobenzene	0.084	0.089	-6.0	104	0.01
86	T	Pronamide	0.291	0.339	-16.5	116	0.02
87	T	Phenanthrene	1.090	1.064	2.4	101	0.01
88	T	Anthracene	1.096	0.964	12.0	90	0.00
89	T	Carbazole	0.983	1.190	-21.1#	124	0.01
90	T	Di-n-butyl phthalate	1.167	1.168	-0.1	100	0.00
91	CCC	Fluoranthene	1.213	1.220	-0.6	102	0.00
92	I	Chrysene-d12	1.000	1.000	0.0	106	0.01
93	T	Pyrene	1.391	1.345	3.3	102	0.01
94	S	4-Terphenyl-d14	0.989	0.981	0.8	103	0.00
95	T	Benzidine	0.520	0.504	3.1	104	0.00
96	T	p-Dimethylaminoazobenzene	0.276	0.281	-1.8	100	0.00
97	T	Butyl benzyl phthalate	0.571	0.573	-0.4	101	0.00
98	T	Benz(a)anthracene	1.304	1.281	1.8	101	0.00
99	T	3,3'-Dichlorobenzidine	0.475	0.481	-1.3	104	0.01
100	T	Chrysene	1.353	1.287	4.9	100	0.01
101	T	Bis(2-ethylhexyl)phthalate	0.756	0.801	-6.0	101	0.00
102	CCC	Di-n-octyl phthalate	1.264	1.305	-3.2	99	0.00

Evaluate Continuing Calibration Report

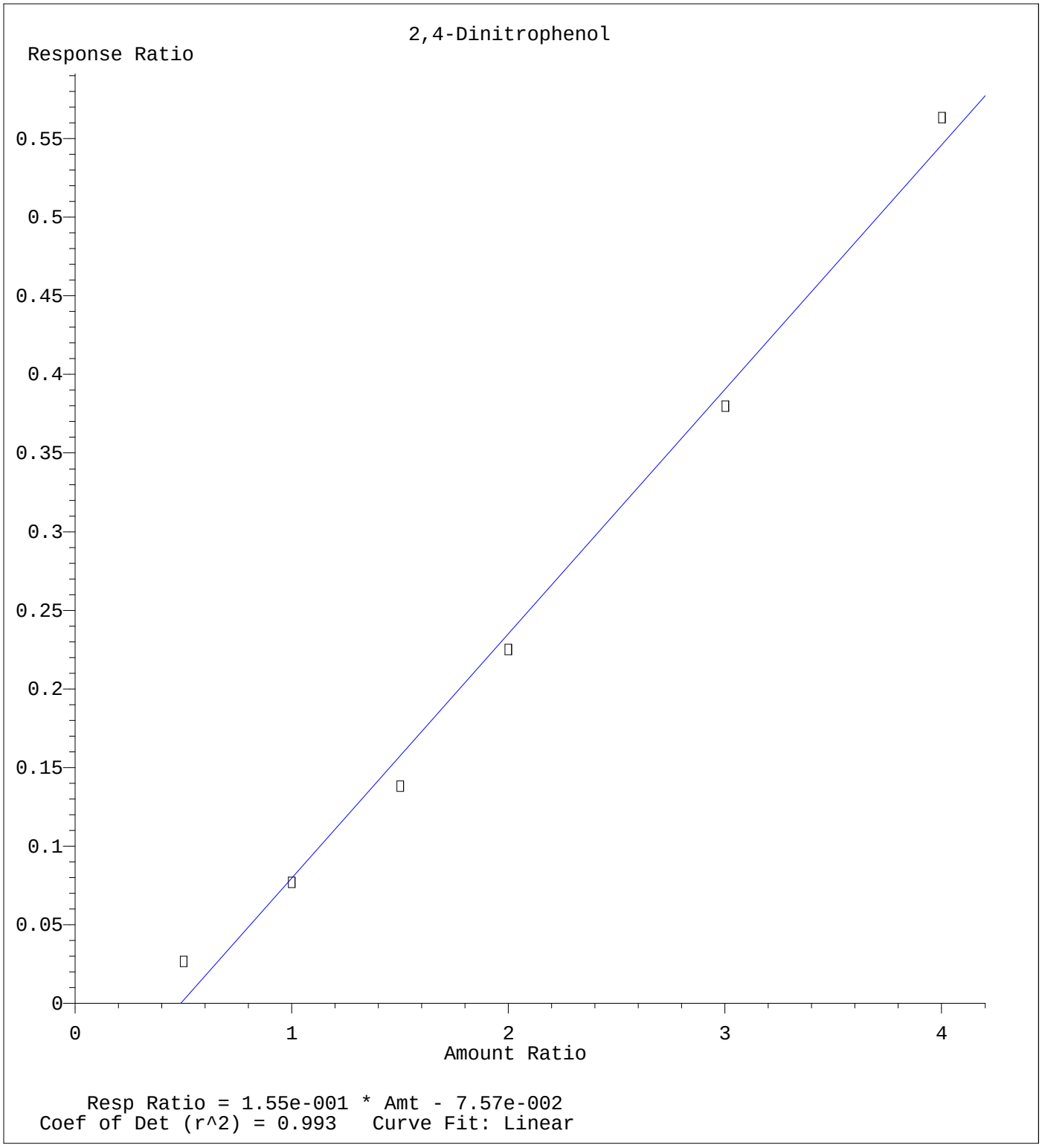
Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

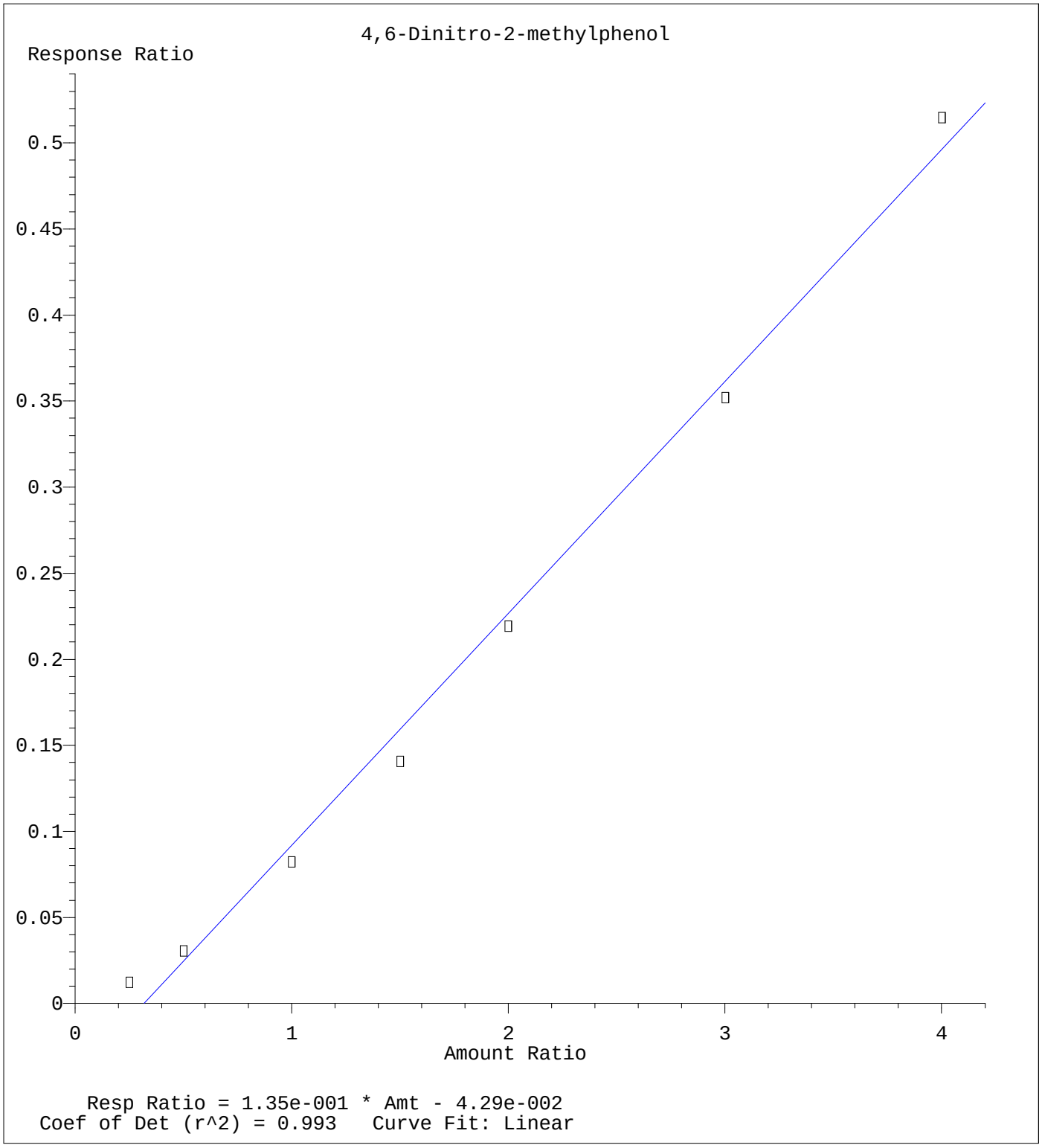
Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	0.443	0.608	-37.2#	133	0.01
104	T	Indeno[1,2,3-cd]pyrene	1.518	1.559	-2.7	101	0.02
105	I	Perylene-d12	1.000	1.000	0.0	112	0.00
106	T	Benzo[b]fluoranthene	1.344	1.185	11.8	101	0.02
107	T	Benzo[k]fluoranthene	1.339	1.193	10.9	105	0.02
108	CCC	Benzo[a]pyrene	1.179	1.038	12.0	98	0.01
109	T	Dibenz(a,j)acridine	1.009	0.859	14.9	89	0.01
110	T	Dibenz(a,h)anthracene	1.240	1.118	9.8	100	0.02
111	T	Benzo[g,h,i]perylene	1.264	1.148	9.2	104	0.02

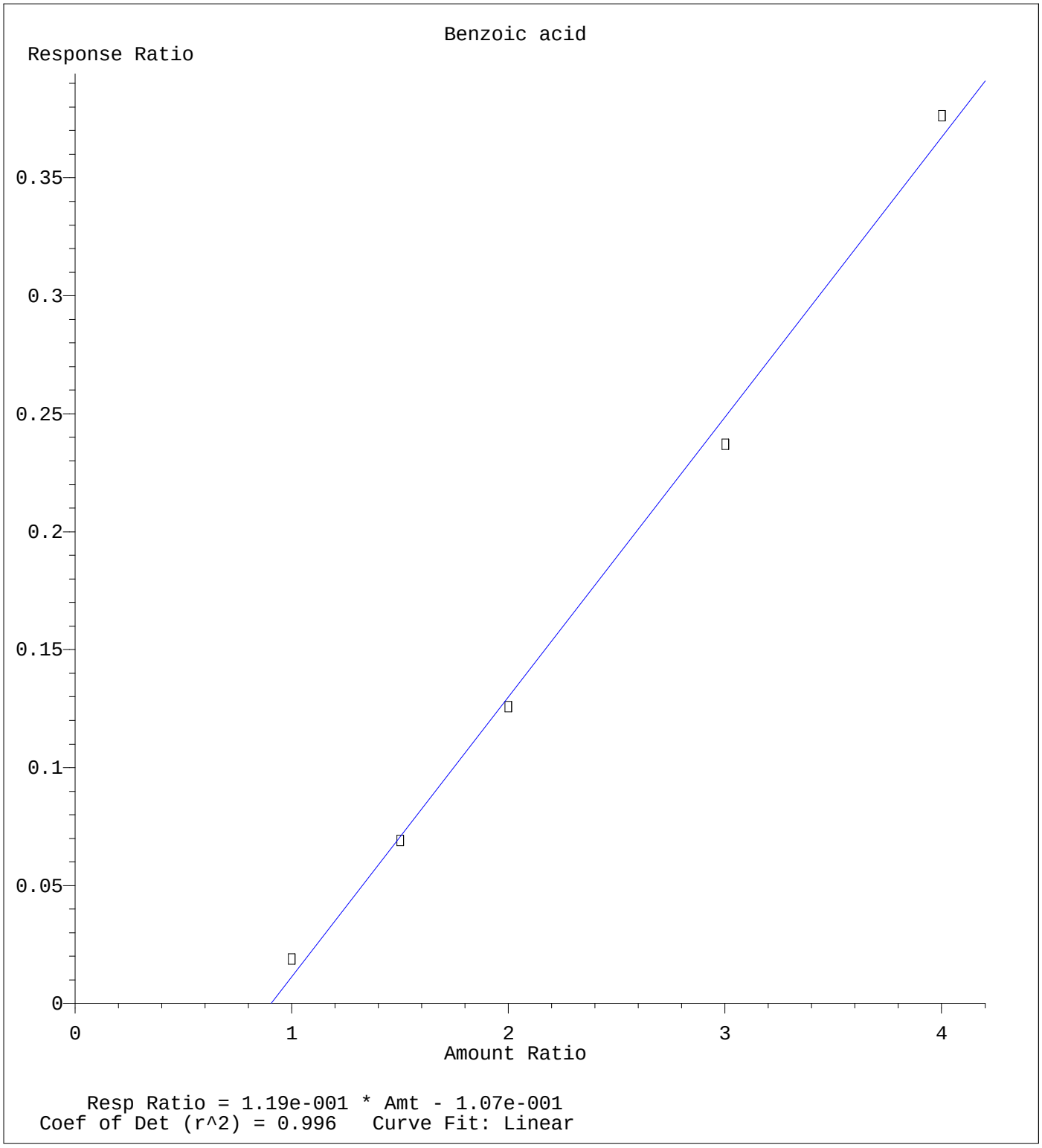
(#) = Out of Range SPCC's out = 0 CCC's out = 2



Method Name: C:\msdchem\1\METHODS\B042221.M
Calibration Table Last Updated: Fri Apr 23 14:54:46 2021



Method Name: C:\msdchem\1\METHODS\B042221.M
Calibration Table Last Updated: Fri Apr 23 14:54:46 2021



Method Name: C:\msdchem\1\METHODS\B042221.M
Calibration Table Last Updated: Fri Apr 23 14:54:46 2021

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042210.D
Acq On : 22 Apr 2021 10:12 am
Operator : YH
Sample : bna10 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 23 14:34:46 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Thu Apr 22 15:10:47 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.351	152	114802	40.00	ng		0.00
23) Naphthalene-d8	...	5.943	136	445690	40.00	ng		0.00
45) Acenaphthene-d10	...	7.994	164	259430	40.00	ng		0.00
73) Phenanthrene-d10	...	9.656	188	452000	40.00	ng		0.00
92) Chrysene-d12	...	12.594	240	400356	40.00	ng		0.00
105) Perylene-d12	...	14.063	264	385411	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.796	112	35201	9.83	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 9.83%#					
9) Phenol-d5	...	3.940	99	43375	9.97	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 9.97%#					
24) Nitrobenzene-d5	...	5.067	82	33500	9.70	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 19.40%#					
50) 2-Fluorobiphenyl	...	7.257	172	85973	10.26	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 20.52%#					
72) 2,4,6-Tribromophenol	...	8.886	330	8199	8.17	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 8.17%#					
94) 4-Terphenyl-d14	...	11.467	244	95732	9.67	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 19.34%#					
Target Compounds								Qvalue
2) Pyridine	...	1.536	79	42198	9.58	ng		93
3) 2-Picoline	...	2.187	93	42667	9.55	ng		99
4) Methyl methanesulfonate	...	2.620	80	18250	9.77	ng		93
6) Ethyl methanesulfonate	...	3.411	79	28986	9.94	ng		99
7) Benzaldehyde	...	3.779	105	24634	10.61	ng		97
8) Aniline	...	3.934	66	22386	10.15	ng		90
10) Phenol	...	3.956	94	52619	9.97	ng	#	57
11) Bis(2-chloroethyl)ether	...	4.046	93	38055	10.17	ng		97
12) 2-Chlorophenol	...	4.078	128	39727	9.84	ng		99
13) 1,3-Dichlorobenzene	...	4.276	146	46459	10.08	ng		98
14) 1,4-Dichlorobenzene	...	4.372	146	47577	10.22	ng		99
15) 1,2-Dichlorobenzene	...	4.565	146	44602	10.28	ng		98
16) Benzyl alcohol	...	4.565	108	24783	9.55	ng		94
17) Bis(2-chloroisopropyl)ether	...	4.762	45	42714	10.91	ng		94
18) 2-Methylphenol	...	4.746	107	30086	9.91	ng		98
19) 3,4-Methylphenol	...	4.949	107	79721	20.19	ng		98
20) N-Nitrosodi-n-propylamine	...	4.923	70	25305	10.16	ng		95
21) N-Nitrosodimethylamine	...	1.514	42	13815	10.23	ng		87
22) Hexachloroethane	...	4.992	117	16448	10.01	ng		94
25) Acetophenone	...	4.890	105	104207	20.62	ng		98
26) Nitrobenzene	...	5.088	123	18975	9.72	ng		94
27) N-Nitrosopiperidine	...	5.275	114	18902	9.82	ng		92
28) Isophorone	...	5.403	82	71378	10.02	ng		98
29) 2-Nitrophenol	...	5.494	139	15677	8.39	ng		96
30) 2,4-Dimethylphenol	...	5.612	122	33650	9.74	ng		95
31) Bis(2-chloroethoxy)methane	...	5.719	93	45124	10.07	ng		99
32) 2,4-Dichlorophenol	...	5.799	162	31262	9.45	ng		99
33) 1,2,4-Trichlorobenzene	...	5.889	180	37885	10.15	ng		99
34) Naphthalene	...	5.964	128	121772	10.43	ng		100
35) Benzoic acid	...	5.735	122	1777	36.28	ng	#	30
36) 2,6-Dichlorophenol	...	6.071	162	31387	9.74	ng		99
37) 4-Chloroaniline	...	6.066	127	49343	10.07	ng		97
38) Hexachlorobutadiene	...	6.162	225	21456	10.10	ng		99
39) a,a-Dimethylphenethylamine	...	5.788	58	79937	8.94	ng		81
40) Caprolactam	...	6.456	113	11045	8.81	ng	#	71

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042210.D
Acq On : 22 Apr 2021 10:12 am
Operator : YH
Sample : bna10 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 23 14:34:46 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Thu Apr 22 15:10:47 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.696	107	29440	9.33	ng		94
42) N-Nitroso-di-n-butylamine	6.509	84	23864	8.57	ng		83
43) 2-Methylnaphthalene	6.803	141	69170	10.22	ng		98
44) 1-Methylnaphthalene	6.915	141	67831	10.20	ng		99
46) 1,2,4,5-Tetrachlorobenzene	7.006	216	37087	10.34	ng		99
47) Hexachlorocyclopentadiene	7.011	237	17355	8.78	ng		99
48) 2,4,6-Trichlorophenol	7.156	196	20665	8.94	ng		98
49) 2,4,5-Trichlorophenol	7.193	196	23293	9.00	ng		98
51) Biphenyl	7.359	154	97309	10.80	ng		98
52) 2-Chloronaphthalene	7.359	162	77537	10.26	ng		98
53) 1-Chloronaphthalene	7.380	162	70619	10.34	ng		99
54) 2-Nitroaniline	7.497	65	15078	8.50	ng		96
55) 3-Nitroaniline	7.968	138	17352	8.26	ng		96
56) Pentachlorobenzene	8.192	250	31697	10.01	ng		99
57) 4-Nitroaniline	8.657	138	18143	8.32	ng		98
58) 2-Naphthylamine	8.315	143	74460	9.80	ng		97
59) 1-Naphthylamine	8.406	143	82964	10.21	ng		97
60) Dimethyl phthalate	7.749	163	81417	9.94	ng		99
61) Acenaphthylene	7.823	152	114714	10.13	ng		100
62) 2,6-Dinitrotoluene	7.791	165	13374	7.81	ng		98
63) Acenaphthene	8.026	154	70748	10.31	ng		99
64) 2,4-Dinitrophenol	8.090	184	2676	22.16	ng		83
65) Dibenzofuran	8.229	168	108274	10.27	ng		92
66) 4-Nitrophenol	8.208	109	9513	9.26	ng	#	72
67) 2,4-Dinitrotoluene	8.240	165	18012	7.56	ng	#	71
68) 2,3,4,6-Tetrachlorophenol	8.390	232	15111	8.30	ng		99
69) Diethyl phthalate	8.555	149	77542	9.77	ng		99
70) Fluorene	8.614	166	88205	10.05	ng		100
71) 4-Chlorophenyl phenyl ether	8.641	204	42447	10.07	ng		99
74) 4,6-Dinitro-2-methylphenol	8.694	198	5455	16.33	ng		97
75) Azobenzene	8.817	77	71933	10.01	ng		99
76) 1,2-Diphenylhydrazine	8.817	182	21910	9.98	ng		99
77) Diphenylamine	8.780	170	15521	10.14	ng	#	95
78) N-Nitrosodiphenylamine	8.780	168	75065	10.40	ng		99
79) 4-Bromophenyl phenyl ether	9.186	248	24262	9.99	ng		97
80) Phenacetin	9.153	108	32687	8.84	ng		99
81) Hexachlorobenzene	9.234	284	25545	9.82	ng		95
82) Atrazine	9.410	200	21139	9.36	ng		95
83) 4-Aminobiphenyl	9.474	169	89175	9.75	ng		98
84) Pentachlorophenol	9.469	266	10557	7.33	ng		96
85) Pentachloronitrobenzene	9.479	237	7965	8.43	ng		92
86) Pronamide	9.586	173	29454	8.96	ng		100
87) Phenanthrene	9.677	178	127077	10.32	ng		100
88) Anthracene	9.730	178	124256	10.03	ng		100
89) Carbazole	9.933	167	110966	9.99	ng		99
90) Di-n-butyl phthalate	10.393	149	122019	9.26	ng		99
91) Fluoranthene	10.997	202	133209	9.72	ng		99
93) Pyrene	11.242	202	140502	10.09	ng		99
95) Benzidine	11.184	184	51698	9.93	ng		96
96) p-Dimethylaminoazobenzene	11.632	225	22361	8.10	ng		98
97) Butyl benzyl phthalate	12.049	149	48977	8.57	ng		98
98) Benz(a)anthracene	12.583	228	126218	9.67	ng		100
99) 3,3'-Dichlorobenzidine	12.589	252	46237	9.73	ng		98
100) Chrysene	12.621	228	135622	10.01	ng		99
101) Bis(2-ethylhexyl)phthalate	12.722	149	65579	8.66	ng		100
102) Di-n-octyl phthalate	13.406	149	94886	7.50	ng	#	98
103) 3-Methylcholanthrene	14.335	268	35934	8.11	ng		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042210.D
Acq On : 22 Apr 2021 10:12 am
Operator : YH
Sample : bna10 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 23 14:34:46 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Thu Apr 22 15:10:47 2021
Response via : Initial Calibration

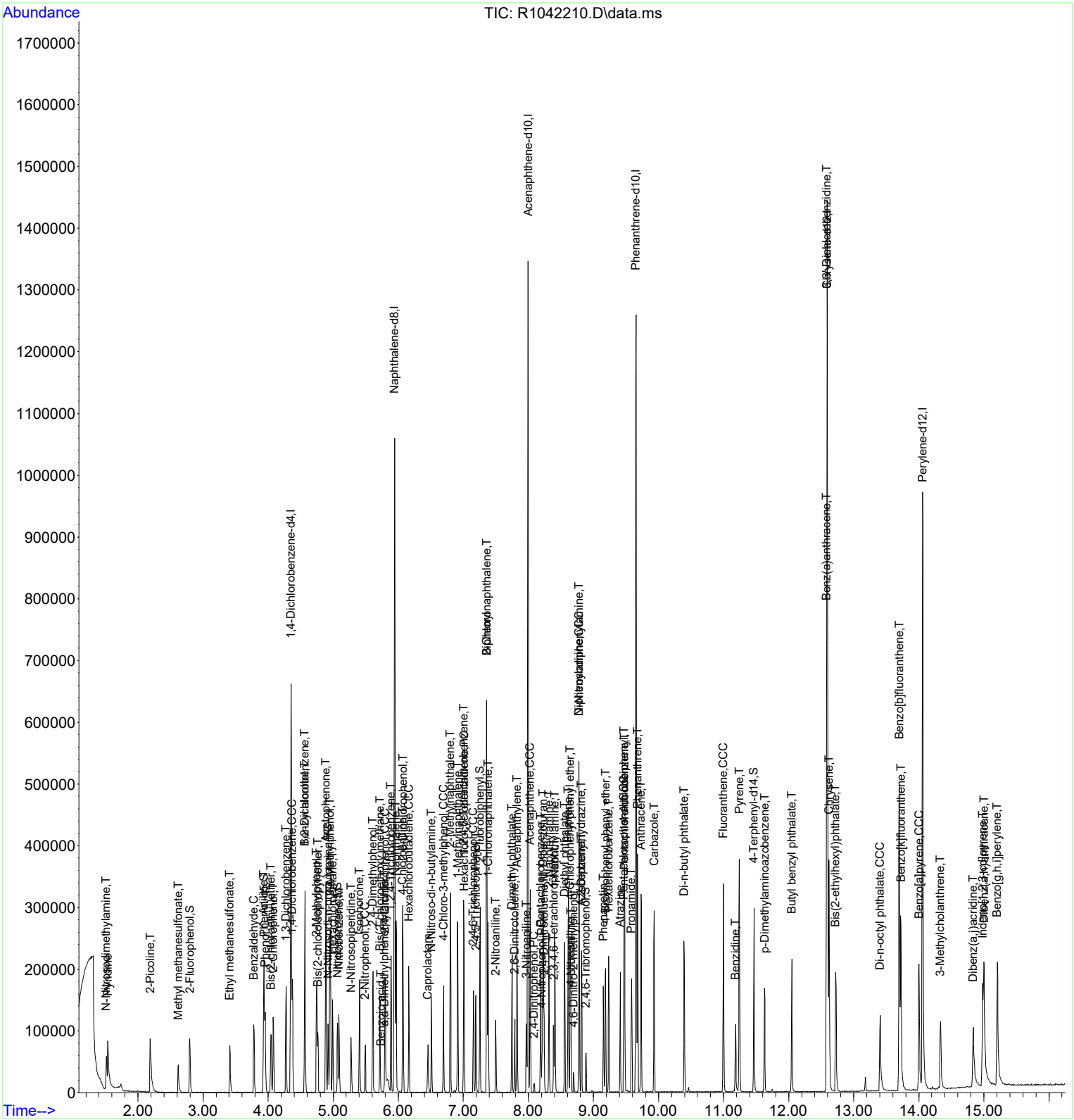
Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	14.982	276	130677	8.60	ng	99
106) Benzo[b]fluoranthene	...	13.700	252	113616	8.77	ng	98
107) Benzo[k]fluoranthene	...	13.726	252	141550	10.97	ng	97
108) Benzo[a]pyrene	...	14.004	252	100958	8.89	ng	98
109) Dibenz(a,j)acridine	...	14.838	279	78217	8.04	ng	98
110) Dibenz(a,h)anthracene	...	15.003	278	107471	9.00	ng	94
111) Benzo[g,h,i]perylene	...	15.206	276	112279	9.22	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042210.D
Acq On : 22 Apr 2021 10:12 am
Operator : YH
Sample : bna10 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 23 14:34:46 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Thu Apr 22 15:10:47 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042211.D
Acq On : 22 Apr 2021 10:40 am
Operator : YH
Sample : bna20 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 23 14:37:40 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:37:28 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.352	152	116520	40.00	ng		0.00
23) Naphthalene-d8	...	5.944	136	455343	40.00	ng		0.00
45) Acenaphthene-d10	...	7.995	164	264328	40.00	ng		0.00
73) Phenanthrene-d10	...	9.656	188	460811	40.00	ng		0.00
92) Chrysene-d12	...	12.595	240	413166	40.00	ng		0.00
105) Perylene-d12	...	14.064	264	398165	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.797	112	70482	19.39	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery =	19.39%#				
9) Phenol-d5	...	3.940	99	86803	19.67	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery =	19.67%				
24) Nitrobenzene-d5	...	5.067	82	67904	19.25	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery =	38.50%				
50) 2-Fluorobiphenyl	...	7.258	172	172265	20.18	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery =	40.36%#				
72) 2,4,6-Tribromophenol	...	8.887	330	17460	17.08	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery =	17.08%				
94) 4-Terphenyl-d14	...	11.467	244	198105	19.40	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery =	38.80%				
Target Compounds								Qvalue
2) Pyridine	...	1.531	79	90684	20.29	ng		98
3) 2-Picoline	...	2.183	93	92248	20.33	ng		98
4) Methyl methanesulfonate	...	2.615	80	37653	19.86	ng		96
6) Ethyl methanesulfonate	...	3.411	79	58043	19.62	ng		98
7) Benzaldehyde	...	3.780	105	48983	20.78	ng		98
8) Aniline	...	3.930	66	44876	20.04	ng		91
10) Phenol	...	3.956	94	106452	19.88	ng	#	56
11) Bis(2-chloroethyl)ether	...	4.042	93	75473	19.87	ng		98
12) 2-Chlorophenol	...	4.079	128	80084	19.53	ng		99
13) 1,3-Dichlorobenzene	...	4.277	146	92690	19.82	ng		98
14) 1,4-Dichlorobenzene	...	4.373	146	94609	20.02	ng		99
15) 1,2-Dichlorobenzene	...	4.565	146	88310	20.05	ng		99
16) Benzyl alcohol	...	4.565	108	50801	19.29	ng		93
17) Bis(2-chloroisopropyl)ether	...	4.763	45	83536	21.03	ng		95
18) 2-Methylphenol	...	4.747	107	60420	19.61	ng		97
19) 3,4-Methylphenol	...	4.955	107	161256	40.24	ng		98
20) N-Nitrosodi-n-propylamine	...	4.923	70	50970	20.16	ng		96
21) N-Nitrosodimethylamine	...	1.510	42	26800	19.55	ng		86
22) Hexachloroethane	...	4.993	117	33208	19.92	ng		97
25) Acetophenone	...	4.891	105	208173	40.31	ng		98
26) Nitrobenzene	...	5.089	123	38165	19.13	ng		94
27) N-Nitrosopiperidine	...	5.276	114	38381	19.51	ng		92
28) Isophorone	...	5.404	82	143418	19.71	ng		98
29) 2-Nitrophenol	...	5.495	139	33343	17.46	ng		95
30) 2,4-Dimethylphenol	...	5.612	122	68867	19.51	ng		95
31) Bis(2-chloroethoxy)methane	...	5.719	93	89337	19.51	ng		99
32) 2,4-Dichlorophenol	...	5.799	162	64585	19.12	ng		99
33) 1,2,4-Trichlorobenzene	...	5.890	180	74777	19.62	ng		100
34) Naphthalene	...	5.965	128	239798	20.11	ng		100
35) Benzoic acid	...	5.794	122	3128	37.26	ng		84
36) 2,6-Dichlorophenol	...	6.072	162	63162	19.19	ng		99
37) 4-Chloroaniline	...	6.066	127	98986	19.76	ng		98
38) Hexachlorobutadiene	...	6.163	225	42087	19.38	ng		99
39) a,a-Dimethylphenethylamine	...	5.831	58	172629	18.89	ng	#	79
40) Caprolactam	...	6.478	113	23957	18.70	ng	#	69

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042211.D
Acq On : 22 Apr 2021 10:40 am
Operator : YH
Sample : bna20 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 23 14:37:40 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:37:28 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.697	107	60887	18.88	ng		95
42) N-Nitroso-di-n-butylamine	6.510	84	48528	17.05	ng		84
43) 2-Methylnaphthalene	6.804	141	137094	19.83	ng		99
44) 1-Methylnaphthalene	6.916	141	135374	19.93	ng		100
46) 1,2,4,5-Tetrachlorobenzene	7.007	216	74263	20.31	ng		98
47) Hexachlorocyclopentadiene	7.012	237	36716	18.23	ng		99
48) 2,4,6-Trichlorophenol	7.156	196	43687	18.55	ng		97
49) 2,4,5-Trichlorophenol	7.194	196	49532	18.78	ng		98
51) Biphenyl	7.359	154	190938	20.79	ng		98
52) 2-Chloronaphthalene	7.359	162	154055	20.00	ng		98
53) 1-Chloronaphthalene	7.381	162	143208	20.57	ng		99
54) 2-Nitroaniline	7.498	65	32855	18.17	ng		96
55) 3-Nitroaniline	7.974	138	38088	17.80	ng		98
56) Pentachlorobenzene	8.193	250	63271	19.62	ng		98
57) 4-Nitroaniline	8.657	138	39501	17.79	ng		97
58) 2-Naphthylamine	8.315	143	154561	19.96	ng		98
59) 1-Naphthylamine	8.412	143	164592	19.88	ng		98
60) Dimethyl phthalate	7.749	163	162871	19.51	ng		100
61) Acenaphthylene	7.824	152	227942	19.76	ng		100
62) 2,6-Dinitrotoluene	7.792	165	30574	17.52	ng		100
63) Acenaphthene	8.027	154	140314	20.07	ng		98
64) 2,4-Dinitrophenol	8.091	184	7043	26.36	ng		88
65) Dibenzofuran	8.230	168	217276	20.23	ng		95
66) 4-Nitrophenol	8.214	109	18059	17.25	ng	#	54
67) 2,4-Dinitrotoluene	8.246	165	41522	17.11	ng	#	76
68) 2,3,4,6-Tetrachlorophenol	8.390	232	32341	17.43	ng		99
69) Diethyl phthalate	8.561	149	156757	19.38	ng		99
70) Fluorene	8.615	166	179708	20.10	ng		99
71) 4-Chlorophenyl phenyl ether	8.641	204	84631	19.70	ng		100
74) 4,6-Dinitro-2-methylphenol	8.700	198	13975	21.75	ng		99
75) Azobenzene	8.818	77	145052	19.80	ng		100
76) 1,2-Diphenylhydrazine	8.818	182	44139	19.71	ng		99
77) Diphenylamine	8.780	170	31369	20.10	ng		98
78) N-Nitrosodiphenylamine	8.780	168	149514	20.31	ng		99
79) 4-Bromophenyl phenyl ether	9.186	248	49364	19.94	ng		97
80) Phenacetin	9.160	108	70613	18.74	ng		100
81) Hexachlorobenzene	9.234	284	52150	19.66	ng		97
82) Atrazine	9.416	200	46035	19.99	ng		97
83) 4-Aminobiphenyl	9.475	169	187999	20.17	ng		99
84) Pentachlorophenol	9.469	266	24654	16.79	ng		96
85) Pentachloronitrobenzene	9.485	237	17702	18.37	ng		95
86) Pronamide	9.587	173	62831	18.74	ng		99
87) Phenanthrene	9.678	178	254880	20.31	ng		100
88) Anthracene	9.736	178	255057	20.20	ng		100
89) Carbazole	9.934	167	224109	19.78	ng		100
90) Di-n-butyl phthalate	10.399	149	259037	19.27	ng		99
91) Fluoranthene	11.003	202	272847	19.53	ng		99
93) Pyrene	11.243	202	289660	20.16	ng		99
95) Benzidine	11.184	184	107465	19.99	ng		98
96) p-Dimethylaminoazobenzene	11.628	225	50166	17.62	ng		96
97) Butyl benzyl phthalate	12.050	149	107653	18.24	ng		98
98) Benz(a)anthracene	12.584	228	259816	19.30	ng		100
99) 3,3'-Dichlorobenzidine	12.589	252	98140	20.01	ng		99
100) Chrysene	12.621	228	276324	19.77	ng		100
101) Bis(2-ethylhexyl)phthalate	12.723	149	144978	18.56	ng		99
102) Di-n-octyl phthalate	13.407	149	220593	16.90	ng		99
103) 3-Methylcholanthrene	14.336	268	79935	17.48	ng		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042211.D
Acq On : 22 Apr 2021 10:40 am
Operator : YH
Sample : bna20 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 23 14:37:40 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:37:28 2021
Response via : Initial Calibration

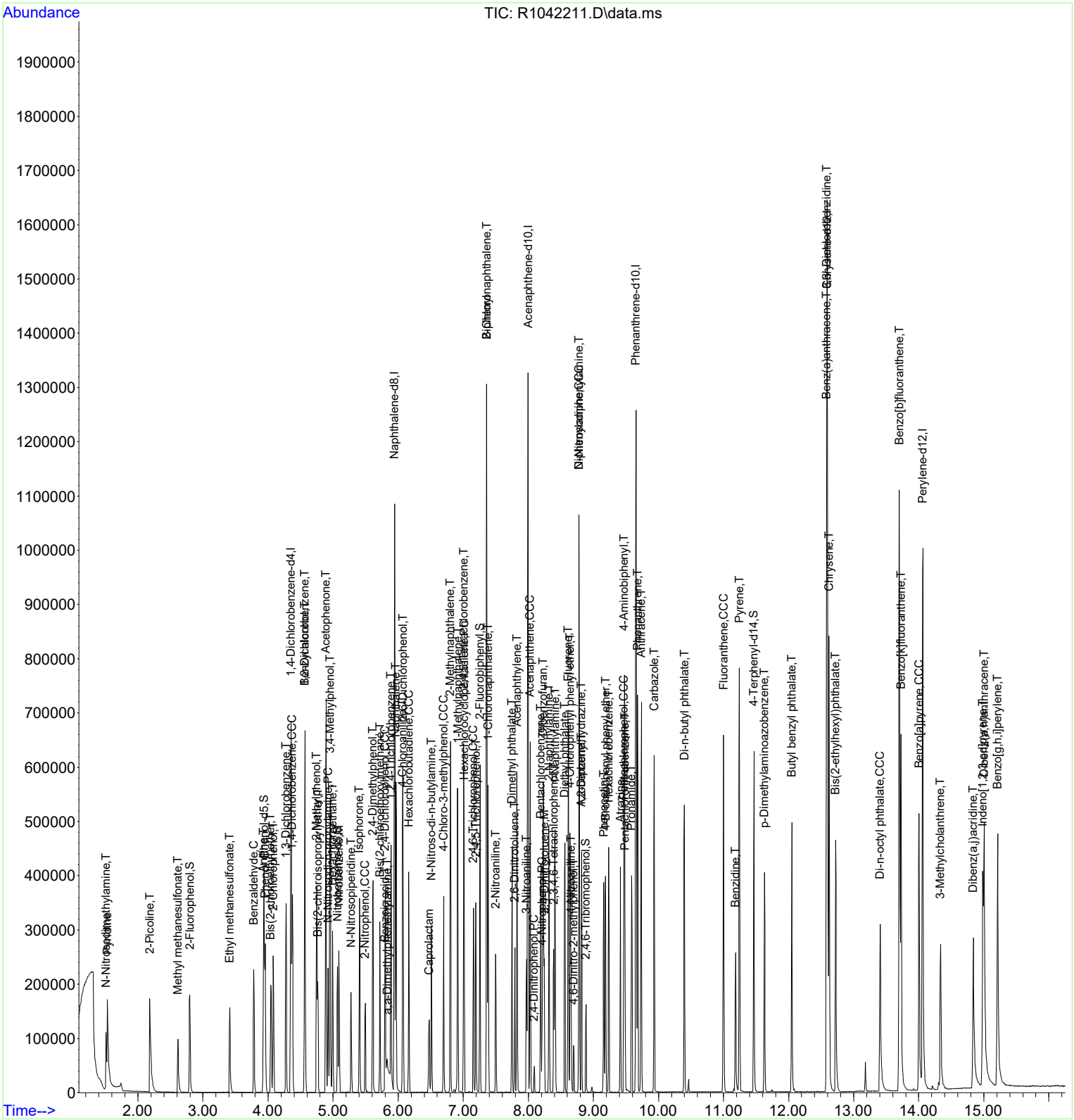
Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	14.982	276	285489	18.21	ng	98
106) Benzo[b]fluoranthene	...	13.700	252	243939	18.23	ng	98
107) Benzo[k]fluoranthene	...	13.727	252	290964	21.82	ng	99
108) Benzo[a]pyrene	...	14.005	252	219152	18.67	ng	99
109) Dibenz(a,j)acridine	...	14.838	279	174607	17.38	ng	100
110) Dibenz(a,h)anthracene	...	15.004	278	234386	18.99	ng	98
111) Benzo[g,h,i]perylene	...	15.212	276	244292	19.41	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042211.D
Acq On : 22 Apr 2021 10:40 am
Operator : YH
Sample : bna20 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 23 14:37:40 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:37:28 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042212.D
Acq On : 22 Apr 2021 11:08 am
Operator : YH
Sample : bna40 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 23 14:39:51 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:39:43 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.352	152	113919	40.00	ng		0.00
23) Naphthalene-d8	...	5.944	136	441464	40.00	ng		0.00
45) Acenaphthene-d10	...	7.995	164	256813	40.00	ng		0.00
73) Phenanthrene-d10	...	9.657	188	455513	40.00	ng		0.00
92) Chrysene-d12	...	12.600	240	418035	40.00	ng		0.00
105) Perylene-d12	...	14.064	264	409946	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.792	112	143468	40.37	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 40.37%					
9) Phenol-d5	...	3.941	99	175320	40.63	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 40.63%					
24) Nitrobenzene-d5	...	5.068	82	138228	40.43	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 80.86%					
50) 2-Fluorobiphenyl	...	7.258	172	341482	41.18	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 82.36%					
72) 2,4,6-Tribromophenol	...	8.888	330	39044	39.31	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 39.31%					
94) 4-Terphenyl-d14	...	11.468	244	416398	40.30	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 80.60%					
Target Compounds								Qvalue
2) Pyridine	...	1.526	79	182197	41.69	ng		98
3) 2-Picoline	...	2.173	93	182214	41.08	ng		98
4) Methyl methanesulfonate	...	2.611	80	74666	40.26	ng		95
6) Ethyl methanesulfonate	...	3.412	79	116604	40.31	ng		98
7) Benzaldehyde	...	3.781	105	95040	41.24	ng		99
8) Aniline	...	3.930	66	87598	40.02	ng	#	87
10) Phenol	...	3.962	94	213695	40.81	ng	#	58
11) Bis(2-chloroethyl)ether	...	4.048	93	153625	41.37	ng		99
12) 2-Chlorophenol	...	4.080	128	161370	40.26	ng		99
13) 1,3-Dichlorobenzene	...	4.277	146	187975	41.12	ng		99
14) 1,4-Dichlorobenzene	...	4.374	146	187941	40.67	ng		98
15) 1,2-Dichlorobenzene	...	4.566	146	176941	41.09	ng		99
16) Benzyl alcohol	...	4.566	108	105002	40.79	ng		93
17) Bis(2-chloroisopropyl)ether	...	4.763	45	164169	42.27	ng		96
18) 2-Methylphenol	...	4.753	107	123501	40.99	ng		97
19) 3,4-Methylphenol	...	4.961	107	323534	82.58	ng		98
20) N-Nitrosodi-n-propylamine	...	4.924	70	101463	41.05	ng		95
21) N-Nitrosodimethylamine	...	1.510	42	55892	41.71	ng		85
22) Hexachloroethane	...	4.993	117	66335	40.70	ng		97
25) Acetophenone	...	4.892	105	410332	81.96	ng		98
26) Nitrobenzene	...	5.095	123	78323	40.49	ng		94
27) N-Nitrosopiperidine	...	5.282	114	76925	40.33	ng		91
28) Isophorone	...	5.410	82	289238	41.01	ng		97
29) 2-Nitrophenol	...	5.495	139	72816	39.33	ng		94
30) 2,4-Dimethylphenol	...	5.613	122	140116	40.94	ng		95
31) Bis(2-chloroethoxy)methane	...	5.720	93	182652	41.15	ng		100
32) 2,4-Dichlorophenol	...	5.805	162	133921	40.88	ng		99
33) 1,2,4-Trichlorobenzene	...	5.891	180	150621	40.76	ng		100
34) Naphthalene	...	5.971	128	478611	41.40	ng		100
35) Benzoic acid	...	5.714	122	8275	41.31	ng	#	69
36) 2,6-Dichlorophenol	...	6.078	162	130224	40.81	ng		99
37) 4-Chloroaniline	...	6.072	127	200275	41.25	ng		98
38) Hexachlorobutadiene	...	6.163	225	86247	40.97	ng		99
39) a,a-Dimethylphenethylamine	...	5.869	58	361371	40.79	ng		78
40) Caprolactam	...	6.505	113	50273	40.47	ng		94

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042212.D
Acq On : 22 Apr 2021 11:08 am
Operator : YH
Sample : bna40 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 23 14:39:51 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:39:43 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.703	107	126092	40.33	ng		94
42) N-Nitroso-di-n-butylamine	6.516	84	128967	46.74	ng		96
43) 2-Methylnaphthalene	6.804	141	275754	41.14	ng		99
44) 1-Methylnaphthalene	6.916	141	271500	41.23	ng		99
46) 1,2,4,5-Tetrachlorobenzene	7.007	216	146225	41.17	ng		99
47) Hexachlorocyclopentadiene	7.013	237	79410	40.57	ng		98
48) 2,4,6-Trichlorophenol	7.157	196	91506	40.00	ng		98
49) 2,4,5-Trichlorophenol	7.200	196	104603	40.81	ng		98
51) Biphenyl	7.360	154	379873	42.57	ng		98
52) 2-Chloronaphthalene	7.360	162	300638	40.17	ng		98
53) 1-Chloronaphthalene	7.386	162	293216	43.36	ng		99
54) 2-Nitroaniline	7.504	65	70742	40.27	ng		95
55) 3-Nitroaniline	7.974	138	82950	39.89	ng		95
56) Pentachlorobenzene	8.193	250	126460	40.36	ng		98
57) 4-Nitroaniline	8.669	138	86440	40.06	ng		98
58) 2-Naphthylamine	8.321	143	311478	41.40	ng		98
59) 1-Naphthylamine	8.412	143	330174	41.05	ng		98
60) Dimethyl phthalate	7.755	163	328456	40.50	ng		100
61) Acenaphthylene	7.825	152	465364	41.52	ng		100
62) 2,6-Dinitrotoluene	7.798	165	67071	39.56	ng		98
63) Acenaphthene	8.033	154	278595	41.02	ng		98
64) 2,4-Dinitrophenol	8.097	184	19753	39.31	ng		91
65) Dibenzofuran	8.231	168	432682	41.46	ng		98
66) 4-Nitrophenol	8.220	109	39664	39.00	ng	#	65
67) 2,4-Dinitrotoluene	8.252	165	93399	39.61	ng		99
68) 2,3,4,6-Tetrachlorophenol	8.391	232	71360	39.59	ng		98
69) Diethyl phthalate	8.562	149	320167	40.75	ng		99
70) Fluorene	8.615	166	356219	41.01	ng		99
71) 4-Chlorophenyl phenyl ether	8.647	204	168670	40.41	ng		99
74) 4,6-Dinitro-2-methylphenol	8.706	198	37447	37.14	ng		99
75) Azobenzene	8.818	77	292519	40.40	ng		99
76) 1,2-Diphenylhydrazine	8.824	182	89886	40.61	ng		99
77) Diphenylamine	8.786	170	63137	40.93	ng		100
78) N-Nitrosodiphenylamine	8.786	168	298496	41.02	ng		99
79) 4-Bromophenyl phenyl ether	9.187	248	98083	40.08	ng		97
80) Phenacetin	9.165	108	152978	41.07	ng		99
81) Hexachlorobenzene	9.240	284	104803	39.98	ng		96
82) Atrazine	9.422	200	92971	40.84	ng		97
83) 4-Aminobiphenyl	9.481	169	385948	41.89	ng		100
84) Pentachlorophenol	9.470	266	56360	38.82	ng		99
85) Pentachloronitrobenzene	9.486	237	38418	40.34	ng		96
86) Pronamide	9.593	173	135167	40.79	ng		100
87) Phenanthrene	9.684	178	509941	41.10	ng		100
88) Anthracene	9.737	178	516220	41.36	ng		100
89) Carbazole	9.935	167	460613	41.13	ng		100
90) Di-n-butyl phthalate	10.399	149	547610	41.22	ng		100
91) Fluoranthene	11.003	202	564655	40.88	ng		99
93) Pyrene	11.243	202	588540	40.49	ng		100
95) Benzidine	11.185	184	235177	43.24	ng		100
96) p-Dimethylaminoazobenzene	11.633	225	114937	39.90	ng		99
97) Butyl benzyl phthalate	12.050	149	235786	39.49	ng		99
98) Benz(a)anthracene	12.590	228	547955	40.22	ng		100
99) 3,3'-Dichlorobenzidine	12.590	252	210229	42.36	ng		100
100) Chrysene	12.627	228	573669	40.56	ng		99
101) Bis(2-ethylhexyl)phthalate	12.723	149	325323	41.16	ng		100
102) Di-n-octyl phthalate	13.407	149	522010	39.52	ng		99
103) 3-Methylcholanthrene	14.342	268	180601	39.02	ng		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042212.D
Acq On : 22 Apr 2021 11:08 am
Operator : YH
Sample : bna40 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 23 14:39:51 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:39:43 2021
Response via : Initial Calibration

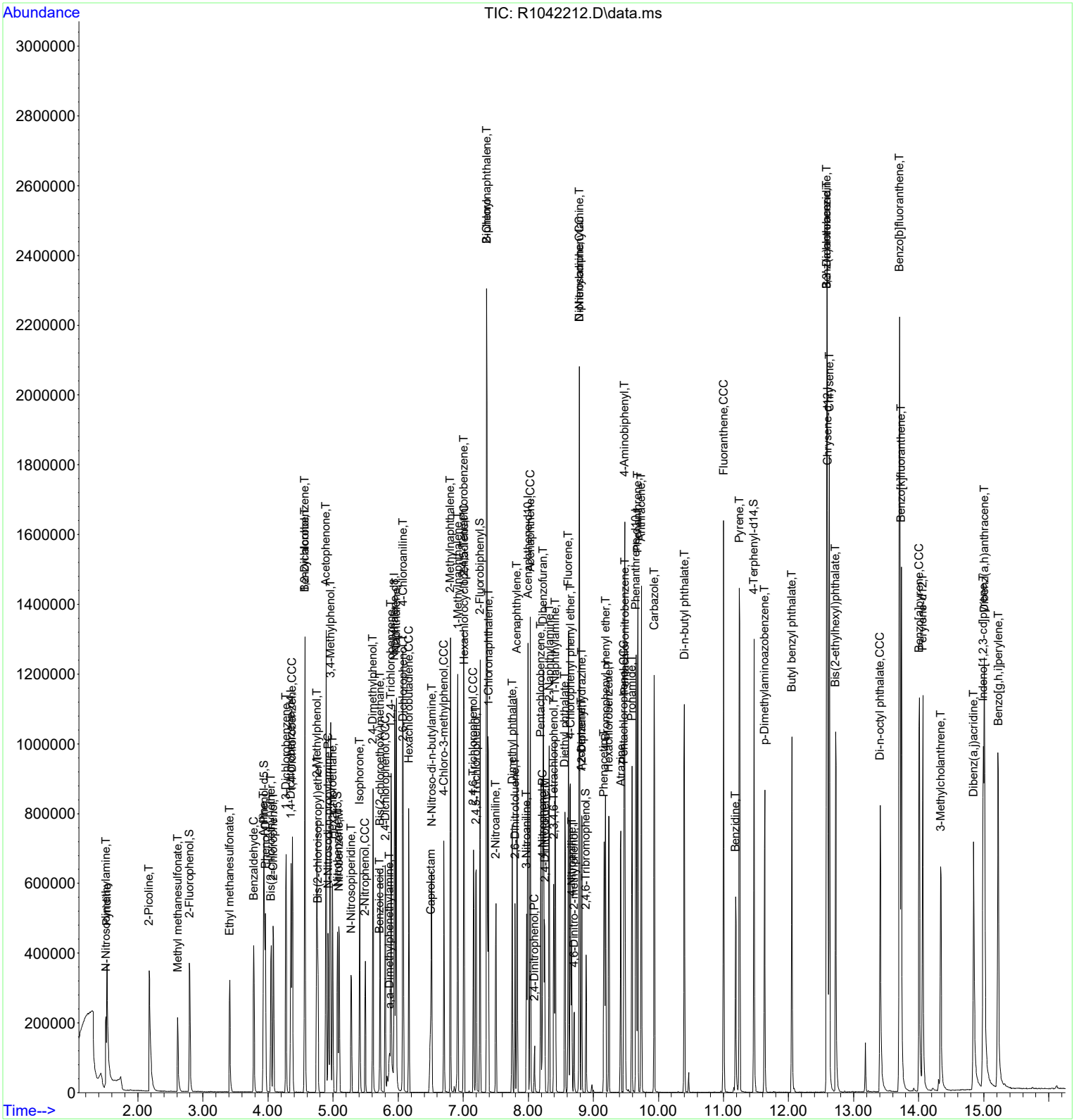
Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	14.994	276	626449	39.49	ng	97
106) Benzo[b]fluoranthene	...	13.706	252	546896	39.70	ng	98
107) Benzo[k]fluoranthene	...	13.733	252	594910	43.34	ng	100
108) Benzo[a]pyrene	...	14.011	252	483570	40.01	ng	99
109) Dibenz(a,j)acridine	...	14.844	279	408553	39.49	ng	100
110) Dibenz(a,h)anthracene	...	15.010	278	518318	40.79	ng	98
111) Benzo[g,h,i]perylene	...	15.223	276	530672	40.96	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042212.D
Acq On : 22 Apr 2021 11:08 am
Operator : YH
Sample : bna40 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 23 14:39:51 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:39:43 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042213.D
Acq On : 22 Apr 2021 11:35 am
Operator : YH
Sample : bna60 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 23 14:42:32 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:41:55 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.352	152	110518	40.00	ng		0.00
23) Naphthalene-d8	...	5.944	136	429441	40.00	ng		0.00
45) Acenaphthene-d10	...	7.995	164	252293	40.00	ng		0.00
73) Phenanthrene-d10	...	9.657	188	446269	40.00	ng		0.00
92) Chrysene-d12	...	12.600	240	411562	40.00	ng		0.00
105) Perylene-d12	...	14.064	264	404850	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.797	112	209968	60.90	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 60.90%					
9) Phenol-d5	...	3.946	99	252737	60.37	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 60.37%					
24) Nitrobenzene-d5	...	5.073	82	201194	60.49	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 120.98%#					
50) 2-Fluorobiphenyl	...	7.264	172	496574	60.95	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 121.90%#					
72) 2,4,6-Tribromophenol	...	8.893	330	59410	60.89	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 60.89%					
94) 4-Terphenyl-d14	...	11.473	244	621889	61.13	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 122.26%					
Target Compounds								Qvalue
2) Pyridine	...	1.521	79	254452	60.02	ng		98
3) 2-Picoline	...	2.172	93	253819	58.98	ng		98
4) Methyl methanesulfonate	...	2.611	80	108808	60.48	ng		95
6) Ethyl methanesulfonate	...	3.412	79	170148	60.62	ng		98
7) Benzaldehyde	...	3.780	105	124159	55.53	ng		99
8) Aniline	...	3.935	66	132320	62.31	ng		93
10) Phenol	...	3.962	94	307787	60.59	ng	#	57
11) Bis(2-chloroethyl)ether	...	4.048	93	219761	61.00	ng		99
12) 2-Chlorophenol	...	4.085	128	236092	60.72	ng		99
13) 1,3-Dichlorobenzene	...	4.277	146	269485	60.76	ng		99
14) 1,4-Dichlorobenzene	...	4.373	146	273932	61.10	ng		99
15) 1,2-Dichlorobenzene	...	4.566	146	254287	60.87	ng		99
16) Benzyl alcohol	...	4.571	108	152755	61.16	ng		92
17) Bis(2-chloroisopropyl)ether	...	4.769	45	233066	61.86	ng		97
18) 2-Methylphenol	...	4.753	107	178845	61.19	ng		97
19) 3,4-Methylphenol	...	4.966	107	463812	122.02	ng		98
20) N-Nitrosodi-n-propylamine	...	4.929	70	148990	62.13	ng		94
21) N-Nitrosodimethylamine	...	1.510	42	79633	61.25	ng	#	85
22) Hexachloroethane	...	4.993	117	96287	60.89	ng		97
25) Acetophenone	...	4.897	105	595321	122.24	ng		97
26) Nitrobenzene	...	5.095	123	113896	60.53	ng		94
27) N-Nitrosopiperidine	...	5.282	114	113790	61.34	ng		90
28) Isophorone	...	5.410	82	419389	61.13	ng		97
29) 2-Nitrophenol	...	5.495	139	110279	61.24	ng		94
30) 2,4-Dimethylphenol	...	5.618	122	205432	61.71	ng		95
31) Bis(2-chloroethoxy)methane	...	5.725	93	264621	61.28	ng		99
32) 2,4-Dichlorophenol	...	5.805	162	195301	61.29	ng		98
33) 1,2,4-Trichlorobenzene	...	5.896	180	219231	60.98	ng		100
34) Naphthalene	...	5.971	128	686916	61.08	ng		100
35) Benzoic acid	...	5.746	122	29676	58.55	ng	#	67
36) 2,6-Dichlorophenol	...	6.078	162	190108	61.25	ng		99
37) 4-Chloroaniline	...	6.072	127	291605	61.74	ng		98
38) Hexachlorobutadiene	...	6.163	225	125103	61.09	ng		99
39) a,a-Dimethylphenethylamine	...	5.891	58	531294	61.65	ng		85
40) Caprolactam	...	6.521	113	74618	61.75	ng		94

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042213.D
Acq On : 22 Apr 2021 11:35 am
Operator : YH
Sample : bna60 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 23 14:42:32 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:41:55 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.708	107	187287	61.57	ng		95
42) N-Nitroso-di-n-butylamine	6.516	84	187538	69.87	ng		96
43) 2-Methylnaphthalene	6.804	141	401412	61.56	ng		99
44) 1-Methylnaphthalene	6.916	141	392138	61.22	ng		99
46) 1,2,4,5-Tetrachlorobenzene	7.007	216	211125	60.51	ng		99
47) Hexachlorocyclopentadiene	7.012	237	120018	62.42	ng		97
48) 2,4,6-Trichlorophenol	7.162	196	138388	61.57	ng		97
49) 2,4,5-Trichlorophenol	7.199	196	155748	61.85	ng		98
51) Biphenyl	7.365	154	537627	61.33	ng		98
52) 2-Chloronaphthalene	7.365	162	451473	61.41	ng		98
53) 1-Chloronaphthalene	7.386	162	402082	60.51	ng		99
54) 2-Nitroaniline	7.504	65	106193	61.54	ng		93
55) 3-Nitroaniline	7.979	138	125350	61.37	ng		96
56) Pentachlorobenzene	8.193	250	185419	60.23	ng		99
57) 4-Nitroaniline	8.674	138	131334	61.95	ng		96
58) 2-Naphthylamine	8.321	143	451553	61.09	ng		99
59) 1-Naphthylamine	8.417	143	480445	60.80	ng		98
60) Dimethyl phthalate	7.755	163	482023	60.50	ng		100
61) Acenaphthylene	7.830	152	671391	60.98	ng		99
62) 2,6-Dinitrotoluene	7.798	165	102720	61.67	ng		98
63) Acenaphthene	8.033	154	405926	60.83	ng		99
64) 2,4-Dinitrophenol	8.102	184	34819	55.05	ng		90
65) Dibenzofuran	8.236	168	630702	61.51	ng		99
66) 4-Nitrophenol	8.225	109	61679	61.73	ng	#	72
67) 2,4-Dinitrotoluene	8.252	165	144188	62.25	ng		98
68) 2,3,4,6-Tetrachlorophenol	8.396	232	108588	61.32	ng		99
69) Diethyl phthalate	8.567	149	468546	60.70	ng		99
70) Fluorene	8.620	166	524070	61.42	ng		99
71) 4-Chlorophenyl phenyl ether	8.647	204	248775	60.66	ng		99
74) 4,6-Dinitro-2-methylphenol	8.711	198	62665	54.42	ng		99
75) Azobenzene	8.823	77	424888	59.90	ng		99
76) 1,2-Diphenylhydrazine	8.823	182	131583	60.69	ng		98
77) Diphenylamine	8.791	170	92905	61.47	ng		98
78) N-Nitrosodiphenylamine	8.791	168	434762	60.99	ng		100
79) 4-Bromophenyl phenyl ether	9.187	248	144917	60.44	ng		98
80) Phenacetin	9.171	108	229212	62.81	ng		99
81) Hexachlorobenzene	9.240	284	154796	60.27	ng		96
82) Atrazine	9.422	200	136663	61.27	ng		97
83) 4-Aminobiphenyl	9.480	169	568217	62.94	ng		100
84) Pentachlorophenol	9.475	266	89012	62.59	ng		99
85) Pentachloronitrobenzene	9.491	237	58121	62.29	ng		95
86) Pronamide	9.598	173	200382	61.72	ng		99
87) Phenanthrene	9.684	178	743880	61.19	ng		99
88) Anthracene	9.742	178	750104	61.35	ng		99
89) Carbazole	9.940	167	670746	61.14	ng		99
90) Di-n-butyl phthalate	10.399	149	809721	62.21	ng		100
91) Fluoranthene	11.003	202	838055	61.93	ng		99
93) Pyrene	11.249	202	868167	60.66	ng		100
95) Benzidine	11.185	184	339935	63.49	ng		100
96) p-Dimethylaminoazobenzene	11.633	225	173998	61.35	ng		99
97) Butyl benzyl phthalate	12.050	149	366109	62.28	ng		98
98) Benz(a)anthracene	12.590	228	826468	61.62	ng		99
99) 3,3'-Dichlorobenzidine	12.595	252	310824	63.62	ng		99
100) Chrysene	12.632	228	842907	60.54	ng		99
101) Bis(2-ethylhexyl)phthalate	12.729	149	501127	64.40	ng		100
102) Di-n-octyl phthalate	13.412	149	814916	62.67	ng		100
103) 3-Methylcholanthrene	14.342	268	280388	61.54	ng		95

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042213.D
Acq On : 22 Apr 2021 11:35 am
Operator : YH
Sample : bna60 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 23 14:42:32 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:41:55 2021
Response via : Initial Calibration

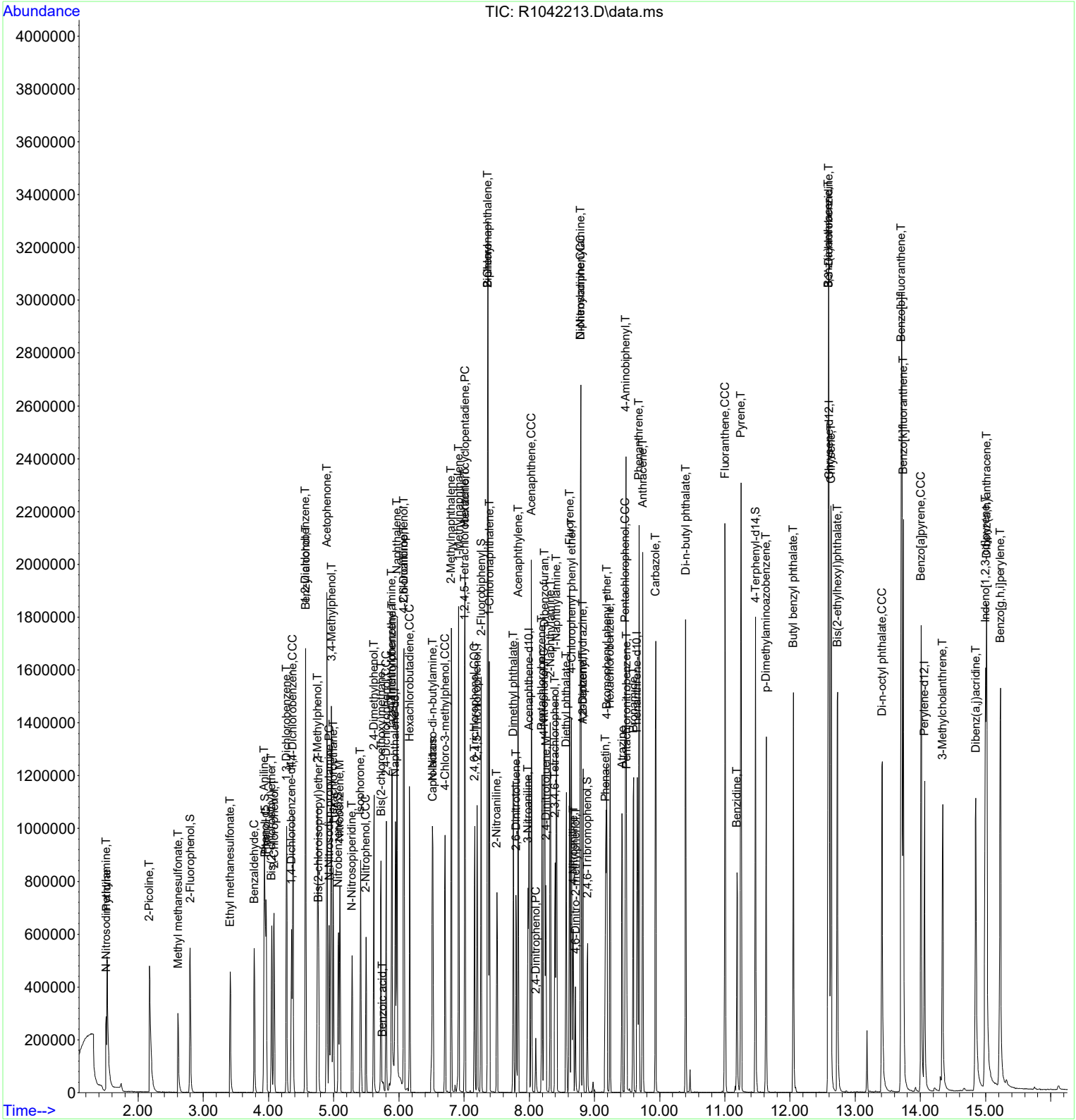
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	... 14.999	276	961253	61.55	ng	97
106) Benzo[b]fluoranthene	... 13.706	252	840888	61.80	ng	98
107) Benzo[k]fluoranthene	... 13.738	252	862289	63.61	ng	99
108) Benzo[a]pyrene	... 14.011	252	773340	64.79	ng	99
109) Dibenz(a,j)acridine	... 14.849	279	641426	62.78	ng	99
110) Dibenz(a,h)anthracene	... 15.015	278	796552	63.48	ng	99
111) Benzo[g,h,i]perylene	... 15.229	276	817480	63.89	ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042213.D
Acq On : 22 Apr 2021 11:35 am
Operator : YH
Sample : bna60 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 23 14:42:32 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:41:55 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042214.D
Acq On : 22 Apr 2021 12:56 pm
Operator : YH
Sample : bna80 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 23 14:45:47 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:44:19 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.352	152	108823	40.00	ng		0.00
23) Naphthalene-d8	...	5.949	136	424413	40.00	ng		0.00
45) Acenaphthene-d10	...	7.995	164	251142	40.00	ng		0.00
73) Phenanthrene-d10	...	9.662	188	446687	40.00	ng		0.00
92) Chrysene-d12	...	12.600	240	411198	40.00	ng		0.00
105) Perylene-d12	...	14.064	264	445891	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.797	112	276618	81.48	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 81.48%					
9) Phenol-d5	...	3.951	99	334775	81.21	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 81.21%					
24) Nitrobenzene-d5	...	5.073	82	273231	83.12	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 166.24%#					
50) 2-Fluorobiphenyl	...	7.263	172	653084	80.53	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 161.06%#					
72) 2,4,6-Tribromophenol	...	8.898	330	84065	86.55	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 86.55%					
94) 4-Terphenyl-d14	...	11.473	244	830825	81.74	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 163.48%#					
Target Compounds								Qvalue
2) Pyridine	...	1.520	79	330540	79.18	ng		97
3) 2-Picoline	...	2.172	93	340094	80.26	ng		99
4) Methyl methanesulfonate	...	2.615	80	143298	80.89	ng		95
6) Ethyl methanesulfonate	...	3.417	79	223434	80.85	ng		98
7) Benzaldehyde	...	3.780	105	140483	63.81	ng		98
8) Aniline	...	3.935	66	164995	78.91	ng	#	89
10) Phenol	...	3.967	94	405022	80.98	ng	#	58
11) Bis(2-chloroethyl)ether	...	4.052	93	282102	79.53	ng		98
12) 2-Chlorophenol	...	4.084	128	312336	81.58	ng		99
13) 1,3-Dichlorobenzene	...	4.277	146	354241	81.11	ng		99
14) 1,4-Dichlorobenzene	...	4.378	146	355480	80.53	ng		99
15) 1,2-Dichlorobenzene	...	4.571	146	331482	80.58	ng		99
16) Benzyl alcohol	...	4.576	108	202293	82.26	ng		92
17) Bis(2-chloroisopropyl)ether	...	4.768	45	290201	78.23	ng		98
18) 2-Methylphenol	...	4.758	107	234027	81.32	ng		97
19) 3,4-Methylphenol	...	4.971	107	614188	164.10	ng		98
20) N-Nitrosodi-n-propylamine	...	4.934	70	196408	83.18	ng		95
21) N-Nitrosodimethylamine	...	1.510	42	100815	78.75	ng	#	83
22) Hexachloroethane	...	4.993	117	128529	82.55	ng		98
25) Acetophenone	...	4.902	105	772666	160.54	ng		97
26) Nitrobenzene	...	5.099	123	154579	83.13	ng		92
27) N-Nitrosopiperidine	...	5.286	114	150798	82.25	ng		89
28) Isophorone	...	5.415	82	546016	80.52	ng		98
29) 2-Nitrophenol	...	5.500	139	156377	87.86	ng		94
30) 2,4-Dimethylphenol	...	5.618	122	269218	81.83	ng		96
31) Bis(2-chloroethoxy)methane	...	5.724	93	345845	81.04	ng		100
32) 2,4-Dichlorophenol	...	5.810	162	262603	83.39	ng		98
33) 1,2,4-Trichlorobenzene	...	5.895	180	289293	81.43	ng		100
34) Naphthalene	...	5.970	128	896157	80.63	ng		99
35) Benzoic acid	...	5.773	122	53392	78.66	ng		78
36) 2,6-Dichlorophenol	...	6.082	162	253580	82.66	ng		99
37) 4-Chloroaniline	...	6.077	127	380942	81.61	ng		97
38) Hexachlorobutadiene	...	6.168	225	164116	81.10	ng		99
39) a,a-Dimethylphenethylamine	...	5.917	58	704679	82.73	ng		88
40) Caprolactam	...	6.542	113	100268	83.95	ng		93

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042214.D
Acq On : 22 Apr 2021 12:56 pm
Operator : YH
Sample : bna80 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 23 14:45:47 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:44:19 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.713	107	250292	83.26	ng		94
42) N-Nitroso-di-n-butylamine	6.520	84	245619	92.59	ng		96
43) 2-Methylnaphthalene	6.809	141	525521	81.55	ng		98
44) 1-Methylnaphthalene	6.916	141	510681	80.66	ng		99
46) 1,2,4,5-Tetrachlorobenzene	7.012	216	278520	80.19	ng		99
47) Hexachlorocyclopentadiene	7.017	237	164586	85.99	ng		97
48) 2,4,6-Trichlorophenol	7.161	196	187938	84.00	ng		97
49) 2,4,5-Trichlorophenol	7.204	196	209007	83.39	ng		99
51) Biphenyl	7.364	154	701932	80.44	ng		98
52) 2-Chloronaphthalene	7.364	162	569406	77.80	ng		99
53) 1-Chloronaphthalene	7.391	162	556737	84.17	ng		99
54) 2-Nitroaniline	7.509	65	146792	85.46	ng		93
55) 3-Nitroaniline	7.984	138	174600	85.87	ng		94
56) Pentachlorobenzene	8.198	250	248391	81.05	ng		99
57) 4-Nitroaniline	8.684	138	179728	85.17	ng		96
58) 2-Naphthylamine	8.326	143	600495	81.61	ng		98
59) 1-Naphthylamine	8.422	143	634310	80.64	ng		99
60) Dimethyl phthalate	7.760	163	640775	80.79	ng		100
61) Acenaphthylene	7.829	152	890761	81.28	ng		99
62) 2,6-Dinitrotoluene	7.803	165	144148	86.94	ng		97
63) Acenaphthene	8.038	154	534607	80.49	ng		98
64) 2,4-Dinitrophenol	8.102	184	56512	77.46	ng		92
65) Dibenzofuran	8.235	168	817144	80.06	ng		99
66) 4-Nitrophenol	8.230	109	84460	84.92	ng	#	75
67) 2,4-Dinitrotoluene	8.257	165	203414	88.22	ng		98
68) 2,3,4,6-Tetrachlorophenol	8.396	232	152679	86.62	ng		99
69) Diethyl phthalate	8.566	149	622512	81.01	ng		99
70) Fluorene	8.620	166	683606	80.48	ng		99
71) 4-Chlorophenyl phenyl ether	8.647	204	331116	81.11	ng		100
74) 4,6-Dinitro-2-methylphenol	8.716	198	97846	77.76	ng		98
75) Azobenzene	8.823	77	559365	78.79	ng		98
76) 1,2-Diphenylhydrazine	8.828	182	174562	80.43	ng		97
77) Diphenylamine	8.791	170	122706	81.11	ng		97
78) N-Nitrosodiphenylamine	8.796	168	574983	80.59	ng		100
79) 4-Bromophenyl phenyl ether	9.191	248	197215	82.18	ng		97
80) Phenacetin	9.181	108	309815	84.82	ng		98
81) Hexachlorobenzene	9.245	284	209409	81.46	ng		97
82) Atrazine	9.427	200	185120	82.92	ng		97
83) 4-Aminobiphenyl	9.485	169	744086	82.35	ng		99
84) Pentachlorophenol	9.480	266	127409	89.50	ng		98
85) Pentachloronitrobenzene	9.491	237	79458	85.07	ng		95
86) Pronamide	9.597	173	271256	83.48	ng		99
87) Phenanthrene	9.688	178	973644	80.02	ng		99
88) Anthracene	9.742	178	991322	81.00	ng		99
89) Carbazole	9.939	167	891277	81.16	ng		99
90) Di-n-butyl phthalate	10.399	149	1086645	83.41	ng		99
91) Fluoranthene	11.008	202	1110993	82.03	ng		99
93) Pyrene	11.248	202	1148961	80.35	ng		99
95) Benzidine	11.189	184	421767	78.84	ng		100
96) p-Dimethylaminoazobenzene	11.638	225	244081	86.14	ng		100
97) Butyl benzyl phthalate	12.055	149	498046	84.80	ng		98
98) Benz(a)anthracene	12.589	228	1104187	82.40	ng		99
99) 3,3'-Dichlorobenzidine	12.594	252	402128	82.38	ng		100
100) Chrysene	12.632	228	1123019	80.73	ng		99
101) Bis(2-ethylhexyl)phthalate	12.728	149	691380	88.93	ng		99
102) Di-n-octyl phthalate	13.412	149	1152079	88.68	ng		99
103) 3-Methylcholanthrene	14.341	268	398117	87.46	ng		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042214.D
Acq On : 22 Apr 2021 12:56 pm
Operator : YH
Sample : bna80 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 23 14:45:47 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:44:19 2021
Response via : Initial Calibration

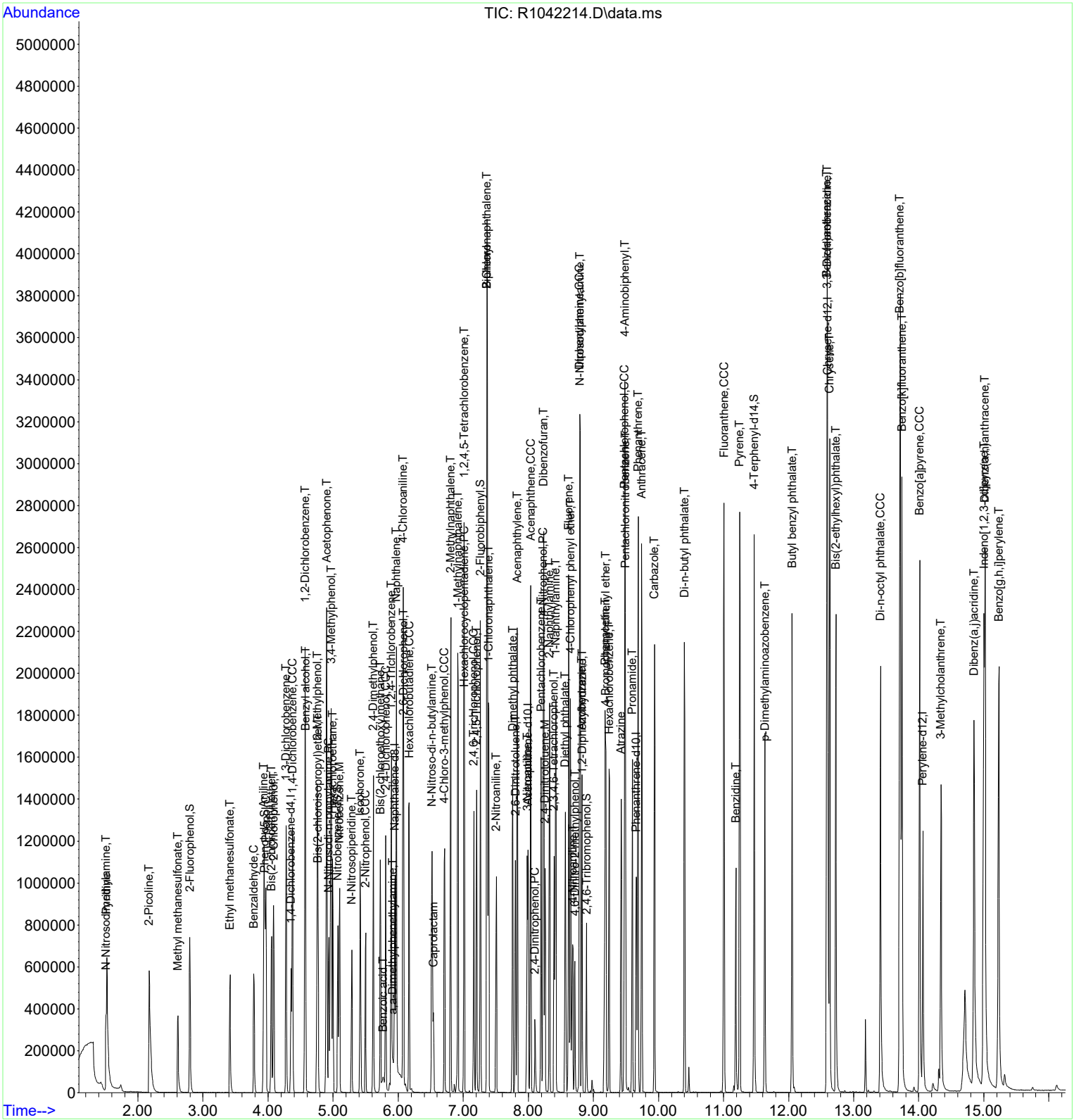
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	... 15.004	276	1345784	86.24	ng	98
106) Benzo[b]fluoranthene	... 13.711	252	1168840	78.00	ng	98
107) Benzo[k]fluoranthene	... 13.743	252	1131442	75.78	ng	100
108) Benzo[a]pyrene	... 14.015	252	1058708	80.54	ng	99
109) Dibenz(a,j)acridine	... 14.849	279	957746	85.12	ng	99
110) Dibenz(a,h)anthracene	... 15.020	278	1118788	80.95	ng	97
111) Benzo[g,h,i]perylene	... 15.233	276	1098261	77.94	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042214.D
Acq On : 22 Apr 2021 12:56 pm
Operator : YH
Sample : bna80 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 23 14:45:47 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:44:19 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042217.D
Acq On : 22 Apr 2021 1:22 pm
Operator : YH
Sample : bna120 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 23 14:48:18 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:47:24 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.352	152	109153	40.00	ng		0.00
23) Naphthalene-d8	...	5.949	136	430630	40.00	ng		0.00
45) Acenaphthene-d10	...	7.995	164	254898	40.00	ng		0.00
73) Phenanthrene-d10	...	9.662	188	457563	40.00	ng		0.00
92) Chrysene-d12	...	12.606	240	416043	40.00	ng		0.00
105) Perylene-d12	...	14.069	264	424865	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.798	112	406643	119.42	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 119.42%#					
9) Phenol-d5	...	3.957	99	491378	118.84	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 118.84%#					
24) Nitrobenzene-d5	...	5.079	82	399132	119.67	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 239.34%#					
50) 2-Fluorobiphenyl	...	7.269	172	948419	115.22	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 230.44%#					
72) 2,4,6-Tribromophenol	...	8.898	330	129849	131.72	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 131.72%#					
94) 4-Terphenyl-d14	...	11.473	244	1222100	118.84	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 237.68%#					
Target Compounds								Qvalue
2) Pyridine	...	1.521	79	498784	119.12	ng		97
3) 2-Picoline	...	2.173	93	508769	119.71	ng		99
4) Methyl methanesulfonate	...	2.616	80	211542	119.06	ng		95
6) Ethyl methanesulfonate	...	3.423	79	329105	118.73	ng		98
7) Benzaldehyde	...	3.786	105	262706	118.96	ng		98
8) Aniline	...	3.941	66	246164	117.37	ng		91
10) Phenol	...	3.978	94	591235	117.85	ng	#	58
11) Bis(2-chloroethyl)ether	...	4.053	93	412287	115.88	ng		98
12) 2-Chlorophenol	...	4.090	128	458037	119.27	ng		98
13) 1,3-Dichlorobenzene	...	4.283	146	512377	116.97	ng		99
14) 1,4-Dichlorobenzene	...	4.379	146	516307	116.61	ng		98
15) 1,2-Dichlorobenzene	...	4.571	146	477371	115.70	ng		99
16) Benzyl alcohol	...	4.582	108	295925	119.97	ng		92
17) Bis(2-chloroisopropyl)ether	...	4.769	45	406169	109.16	ng		97
18) 2-Methylphenol	...	4.763	107	340430	117.93	ng		97
19) 3,4-Methylphenol	...	4.977	107	883567	235.36	ng		98
20) N-Nitrosodi-n-propylamine	...	4.940	70	273829	115.62	ng		92
21) N-Nitrosodimethylamine	...	1.510	42	148868	115.94	ng	#	82
22) Hexachloroethane	...	4.993	117	186172	119.21	ng		98
25) Acetophenone	...	4.908	105	1105604	226.40	ng		97
26) Nitrobenzene	...	5.105	123	228091	120.89	ng		90
27) N-Nitrosopiperidine	...	5.292	114	220585	118.57	ng		88
28) Isophorone	...	5.421	82	808177	117.47	ng		97
29) 2-Nitrophenol	...	5.501	139	234270	129.73	ng		94
30) 2,4-Dimethylphenol	...	5.624	122	394623	118.21	ng		96
31) Bis(2-chloroethoxy)methane	...	5.730	93	508153	117.35	ng		100
32) 2,4-Dichlorophenol	...	5.811	162	387503	121.27	ng		98
33) 1,2,4-Trichlorobenzene	...	5.896	180	423565	117.50	ng		100
34) Naphthalene	...	5.976	128	1277132	113.24	ng		99
35) Benzoic acid	...	5.805	122	102048	116.15	ng		78
36) 2,6-Dichlorophenol	...	6.083	162	373612	120.03	ng		99
37) 4-Chloroaniline	...	6.083	127	550890	116.31	ng		99
38) Hexachlorobutadiene	...	6.168	225	241509	117.62	ng		100
39) a,a-Dimethylphenethylamine	...	5.960	58	1055604	122.09	ng		89
40) Caprolactam	...	6.574	113	150501	124.19	ng	#	66

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042217.D
Acq On : 22 Apr 2021 1:22 pm
Operator : YH
Sample : bna120 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 23 14:48:18 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:47:24 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.719	107	372952	122.28	ng		94
42) N-Nitroso-di-n-butylamine	6.526	84	295238	109.69	ng		85
43) 2-Methylnaphthalene	6.809	141	753926	115.30	ng		98
44) 1-Methylnaphthalene	6.922	141	737852	114.87	ng		99
46) 1,2,4,5-Tetrachlorobenzene	7.013	216	405588	115.05	ng		99
47) Hexachlorocyclopentadiene	7.018	237	241475	124.30	ng		96
48) 2,4,6-Trichlorophenol	7.167	196	284166	125.14	ng		97
49) 2,4,5-Trichlorophenol	7.210	196	312646	122.89	ng		99
51) Biphenyl	7.370	154	976165	110.22	ng		97
52) 2-Chloronaphthalene	7.370	162	863699	116.28	ng		99
53) 1-Chloronaphthalene	7.392	162	749933	111.69	ng		99
54) 2-Nitroaniline	7.515	65	222047	127.37	ng		93
55) 3-Nitroaniline	7.990	138	266367	129.07	ng		92
56) Pentachlorobenzene	8.198	250	369399	118.77	ng		99
57) 4-Nitroaniline	8.695	138	274202	128.03	ng		91
58) 2-Naphthylamine	8.332	143	873064	116.91	ng		99
59) 1-Naphthylamine	8.428	143	923269	115.65	ng		100
60) Dimethyl phthalate	7.766	163	955448	118.69	ng		100
61) Acenaphthylene	7.835	152	1294261	116.35	ng		99
62) 2,6-Dinitrotoluene	7.808	165	221321	131.52	ng		97
63) Acenaphthene	8.038	154	780496	115.78	ng		98
64) 2,4-Dinitrophenol	8.113	184	96753	117.26	ng		88
65) Dibenzofuran	8.241	168	1185775	114.47	ng		97
66) 4-Nitrophenol	8.241	109	127920	126.72	ng	#	77
67) 2,4-Dinitrotoluene	8.268	165	308523	131.84	ng		96
68) 2,3,4,6-Tetrachlorophenol	8.401	232	232959	130.22	ng		99
69) Diethyl phthalate	8.572	149	940864	120.64	ng		100
70) Fluorene	8.626	166	999221	115.90	ng		99
71) 4-Chlorophenyl phenyl ether	8.653	204	485537	117.19	ng		99
74) 4,6-Dinitro-2-methylphenol	8.722	198	160985	117.16	ng		98
75) Azobenzene	8.829	77	811524	111.59	ng		98
76) 1,2-Diphenylhydrazine	8.829	182	263741	118.63	ng		91
77) Diphenylamine	8.802	170	179590	115.90	ng		96
78) N-Nitrosodiphenylamine	8.802	168	839908	114.92	ng		99
79) 4-Bromophenyl phenyl ether	9.192	248	287486	116.95	ng		98
80) Phenacetin	9.192	108	456364	121.98	ng		98
81) Hexachlorobenzene	9.246	284	316419	120.16	ng		97
82) Atrazine	9.438	200	273745	119.70	ng		97
83) 4-Aminobiphenyl	9.491	169	1072275	115.85	ng		99
84) Pentachlorophenol	9.486	266	197057	135.14	ng		99
85) Pentachloronitrobenzene	9.497	237	121045	126.52	ng		97
86) Pronamide	9.603	173	411735	123.70	ng		99
87) Phenanthrene	9.689	178	1427859	114.56	ng		98
88) Anthracene	9.748	178	1451709	115.79	ng		99
89) Carbazole	9.945	167	1312476	116.68	ng		98
90) Di-n-butyl phthalate	10.405	149	1596269	119.62	ng		99
91) Fluoranthene	11.014	202	1640798	118.27	ng		98
93) Pyrene	11.254	202	1688603	116.71	ng		99
95) Benzidine	11.195	184	770530	142.35	ng		99
96) p-Dimethylaminoazobenzene	11.639	225	374684	130.69	ng		97
97) Butyl benzyl phthalate	12.055	149	752213	126.59	ng		98
98) Benz(a)anthracene	12.595	228	1617355	119.28	ng		99
99) 3,3'-Dichlorobenzidine	12.600	252	577301	116.89	ng		99
100) Chrysene	12.638	228	1666111	118.38	ng		98
101) Bis(2-ethylhexyl)phthalate	12.729	149	1042888	132.58	ng		99
102) Di-n-octyl phthalate	13.412	149	1760961	133.96	ng		99
103) 3-Methylcholanthrene	14.347	268	603521	131.03	ng		97

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042217.D
Acq On : 22 Apr 2021 1:22 pm
Operator : YH
Sample : bna120 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 23 14:48:18 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:47:24 2021
Response via : Initial Calibration

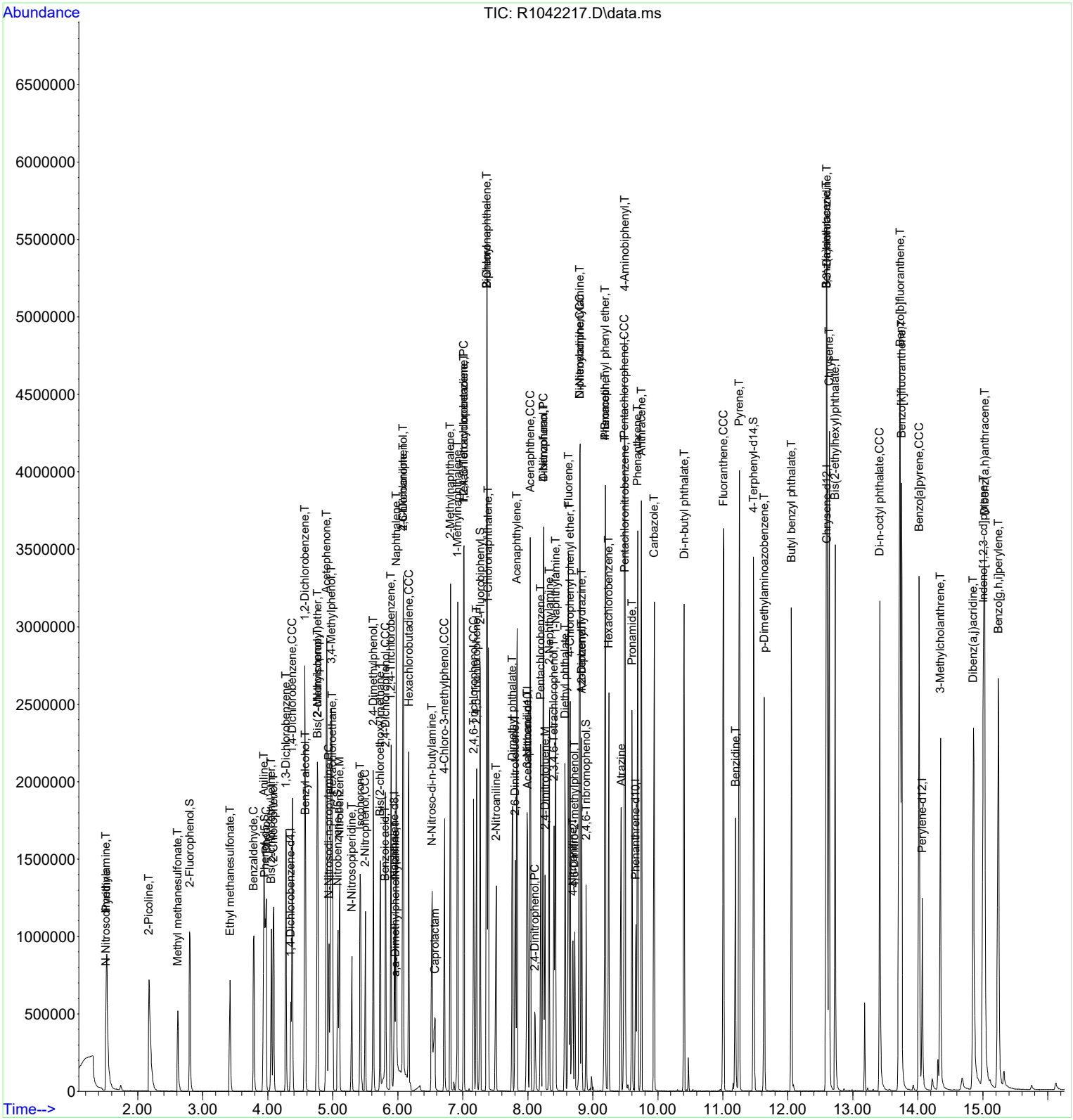
Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	15.010	276	1994716	126.34	ng	97
106) Benzo[b]fluoranthene	...	13.728	252	1935931	135.58	ng	99
107) Benzo[k]fluoranthene	...	13.749	252	1471095	103.40	ng	98
108) Benzo[a]pyrene	...	14.021	252	1573220	125.60	ng	99
109) Dibenz(a,j)acridine	...	14.855	279	1422523	132.68	ng	99
110) Dibenz(a,h)anthracene	...	15.031	278	1638484	124.42	ng	98
111) Benzo[g,h,i]perylene	...	15.239	276	1651661	123.01	ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042217.D
Acq On : 22 Apr 2021 1:22 pm
Operator : YH
Sample : bna120 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 23 14:48:18 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:47:24 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042218.D
Acq On : 22 Apr 2021 1:51 pm
Operator : YH
Sample : bna160 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 23 14:51:14 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:50:28 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.357	152	108292	40.00	ng		0.00
23) Naphthalene-d8	...	5.949	136	430544	40.00	ng		0.00
45) Acenaphthene-d10	...	8.000	164	254201	40.00	ng		0.00
73) Phenanthrene-d10	...	9.662	188	458725	40.00	ng		0.00
92) Chrysene-d12	...	12.611	240	410990	40.00	ng		0.00
105) Perylene-d12	...	14.069	264	435035	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.803	112	545887	161.58	ng		0.00
Spiked Amount 100.000	Range 21 - 110			Recovery = 161.58%#				
9) Phenol-d5	...	3.967	99	650965	158.69	ng		0.00
Spiked Amount 100.000	Range 10 - 110			Recovery = 158.69%#				
24) Nitrobenzene-d5	...	5.084	82	539780	161.87	ng		0.00
Spiked Amount 50.000	Range 34 - 114			Recovery = 323.74%#				
50) 2-Fluorobiphenyl	...	7.269	172	1251276	152.43	ng		0.00
Spiked Amount 50.000	Range 43 - 116			Recovery = 304.86%#				
72) 2,4,6-Tribromophenol	...	8.903	330	181127	184.25	ng		0.00
Spiked Amount 100.000	Range 10 - 123			Recovery = 184.25%#				
94) 4-Terphenyl-d14	...	11.478	244	1665029	163.90	ng		0.00
Spiked Amount 50.000	Range 33 - 141			Recovery = 327.80%#				
Target Compounds								Qvalue
2) Pyridine	...	1.520	79	666191	160.37	ng		97
3) 2-Picoline	...	2.172	93	686736	162.87	ng		99
4) Methyl methanesulfonate	...	2.621	80	285733	162.09	ng		95
6) Ethyl methanesulfonate	...	3.428	79	443075	161.11	ng		98
7) Benzaldehyde	...	3.785	105	404978	184.84	ng		98
8) Aniline	...	3.940	66	326100	156.72	ng		92
10) Phenol	...	3.983	94	783778	157.48	ng	#	58
11) Bis(2-chloroethyl)ether	...	4.058	93	552715	156.58	ng		98
12) 2-Chlorophenol	...	4.090	128	614220	161.21	ng		99
13) 1,3-Dichlorobenzene	...	4.282	146	675307	155.39	ng		99
14) 1,4-Dichlorobenzene	...	4.378	146	677595	154.25	ng		99
15) 1,2-Dichlorobenzene	...	4.571	146	626385	153.02	ng		99
16) Benzyl alcohol	...	4.587	108	396633	162.08	ng		92
17) Bis(2-chloroisopropyl)ether	...	4.768	45	520728	141.06	ng		95
18) 2-Methylphenol	...	4.768	107	451283	157.57	ng		97
19) 3,4-Methylphenol	...	4.982	107	1128649	303.03	ng		99
20) N-Nitrosodi-n-propylamine	...	4.945	70	342457	145.75	ng		94
21) N-Nitrosodimethylamine	...	1.515	42	200797	157.63	ng	#	83
22) Hexachloroethane	...	4.998	117	234308	151.22	ng		99
25) Acetophenone	...	4.913	105	1472043	301.49	ng		97
26) Nitrobenzene	...	5.110	123	303101	160.67	ng		90
27) N-Nitrosopiperidine	...	5.303	114	296387	159.35	ng		89
28) Isophorone	...	5.431	82	1081397	157.21	ng		97
29) 2-Nitrophenol	...	5.506	139	319164	176.77	ng		94
30) 2,4-Dimethylphenol	...	5.629	122	528886	158.47	ng		96
31) Bis(2-chloroethoxy)methane	...	5.735	93	676626	156.29	ng		99
32) 2,4-Dichlorophenol	...	5.821	162	512318	160.37	ng		99
33) 1,2,4-Trichlorobenzene	...	5.901	180	560118	155.41	ng		100
34) Naphthalene	...	5.981	128	1662097	147.41	ng		98
35) Benzoic acid	...	5.842	122	161965	163.09	ng	#	78
36) 2,6-Dichlorophenol	...	6.088	162	493713	158.65	ng		100
37) 4-Chloroaniline	...	6.088	127	724107	152.91	ng		97
38) Hexachlorobutadiene	...	6.168	225	323501	157.58	ng		99
39) a,a-Dimethylphenethylamine	...	6.013	58	1453899	168.53	ng		90
40) Caprolactam	...	6.601	113	205366	169.50	ng	#	66

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042218.D
Acq On : 22 Apr 2021 1:51 pm
Operator : YH
Sample : bna160 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 23 14:51:14 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:50:28 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.729	107	502197	164.68	ng		94
42) N-Nitroso-di-n-butylamine	6.531	84	381547	141.79	ng		82
43) 2-Methylnaphthalene	6.814	141	988193	151.16	ng		98
44) 1-Methylnaphthalene	6.927	141	971053	151.20	ng		99
46) 1,2,4,5-Tetrachlorobenzene	7.017	216	535303	152.27	ng		99
47) Hexachlorocyclopentadiene	7.017	237	324182	167.33	ng		95
48) 2,4,6-Trichlorophenol	7.172	196	383719	169.45	ng		97
49) 2,4,5-Trichlorophenol	7.215	196	423797	167.04	ng		98
51) Biphenyl	7.375	154	1230049	139.27	ng		97
52) 2-Chloronaphthalene	7.375	162	1191255	160.81	ng		99
53) 1-Chloronaphthalene	7.397	162	925388	138.20	ng		99
54) 2-Nitroaniline	7.520	65	300268	172.71	ng		92
55) 3-Nitroaniline	7.995	138	367189	178.41	ng	#	92
56) Pentachlorobenzene	8.203	250	497419	160.36	ng		99
57) 4-Nitroaniline	8.706	138	380346	178.07	ng		92
58) 2-Naphthylamine	8.337	143	1161924	156.01	ng		100
59) 1-Naphthylamine	8.433	143	1240177	155.77	ng		100
60) Dimethyl phthalate	7.771	163	1298610	161.76	ng		100
61) Acenaphthylene	7.835	152	1701656	153.40	ng		98
62) 2,6-Dinitrotoluene	7.813	165	307024	182.95	ng		98
63) Acenaphthene	8.043	154	1027399	152.82	ng		98
64) 2,4-Dinitrophenol	8.118	184	143174	164.56	ng		88
65) Dibenzofuran	8.241	168	1562548	151.25	ng		95
66) 4-Nitrophenol	8.252	109	175616	174.44	ng	#	81
67) 2,4-Dinitrotoluene	8.273	165	432764	185.44	ng		86
68) 2,3,4,6-Tetrachlorophenol	8.406	232	319379	179.01	ng		98
69) Diethyl phthalate	8.577	149	1251675	160.93	ng		100
70) Fluorene	8.631	166	1333001	155.04	ng		99
71) 4-Chlorophenyl phenyl ether	8.652	204	659066	159.50	ng		100
74) 4,6-Dinitro-2-methylphenol	8.732	198	236010	165.44	ng		96
75) Azobenzene	8.834	77	1266006	173.64	ng		95
76) 1,2-Diphenylhydrazine	8.834	182	355110	159.33	ng	#	86
77) Diphenylamine	8.807	170	237022	152.57	ng	#	95
78) N-Nitrosodiphenylamine	8.807	168	1099151	150.01	ng		99
79) 4-Bromophenyl phenyl ether	9.197	248	391402	158.82	ng		98
80) Phenacetin	9.202	108	617011	164.50	ng		97
81) Hexachlorobenzene	9.251	284	427133	161.79	ng		98
82) Atrazine	9.443	200	362768	158.22	ng		98
83) 4-Aminobiphenyl	9.496	169	1373869	148.06	ng		99
84) Pentachlorophenol	9.491	266	273452	187.05	ng		99
85) Pentachloronitrobenzene	9.507	237	164875	171.90	ng		98
86) Pronamide	9.608	173	557593	167.09	ng		99
87) Phenanthrene	9.694	178	1899950	152.05	ng		98
88) Anthracene	9.753	178	1916082	152.45	ng		98
89) Carbazole	9.950	167	1765148	156.52	ng		98
90) Di-n-butyl phthalate	10.404	149	2148503	160.59	ng		99
91) Fluoranthene	11.013	202	2195137	157.82	ng		98
93) Pyrene	11.259	202	2247093	157.23	ng		98
95) Benzidine	11.195	184	596225	111.51	ng		99
96) p-Dimethylaminoazobenzene	11.644	225	508808	179.65	ng		97
97) Butyl benzyl phthalate	12.060	149	1024734	174.57	ng		97
98) Benz(a)anthracene	12.595	228	2167409	161.82	ng		99
99) 3,3'-Dichlorobenzidine	12.605	252	705265	144.55	ng		99
100) Chrysene	12.643	228	2205693	158.64	ng		98
101) Bis(2-ethylhexyl)phthalate	12.734	149	1406477	181.00	ng		99
102) Di-n-octyl phthalate	13.417	149	2384372	183.62	ng		98
103) 3-Methylcholanthrene	14.352	268	821946	180.65	ng		97

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Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042218.D
Acq On : 22 Apr 2021 1:51 pm
Operator : YH
Sample : bna160 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 23 14:51:14 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:50:28 2021
Response via : Initial Calibration

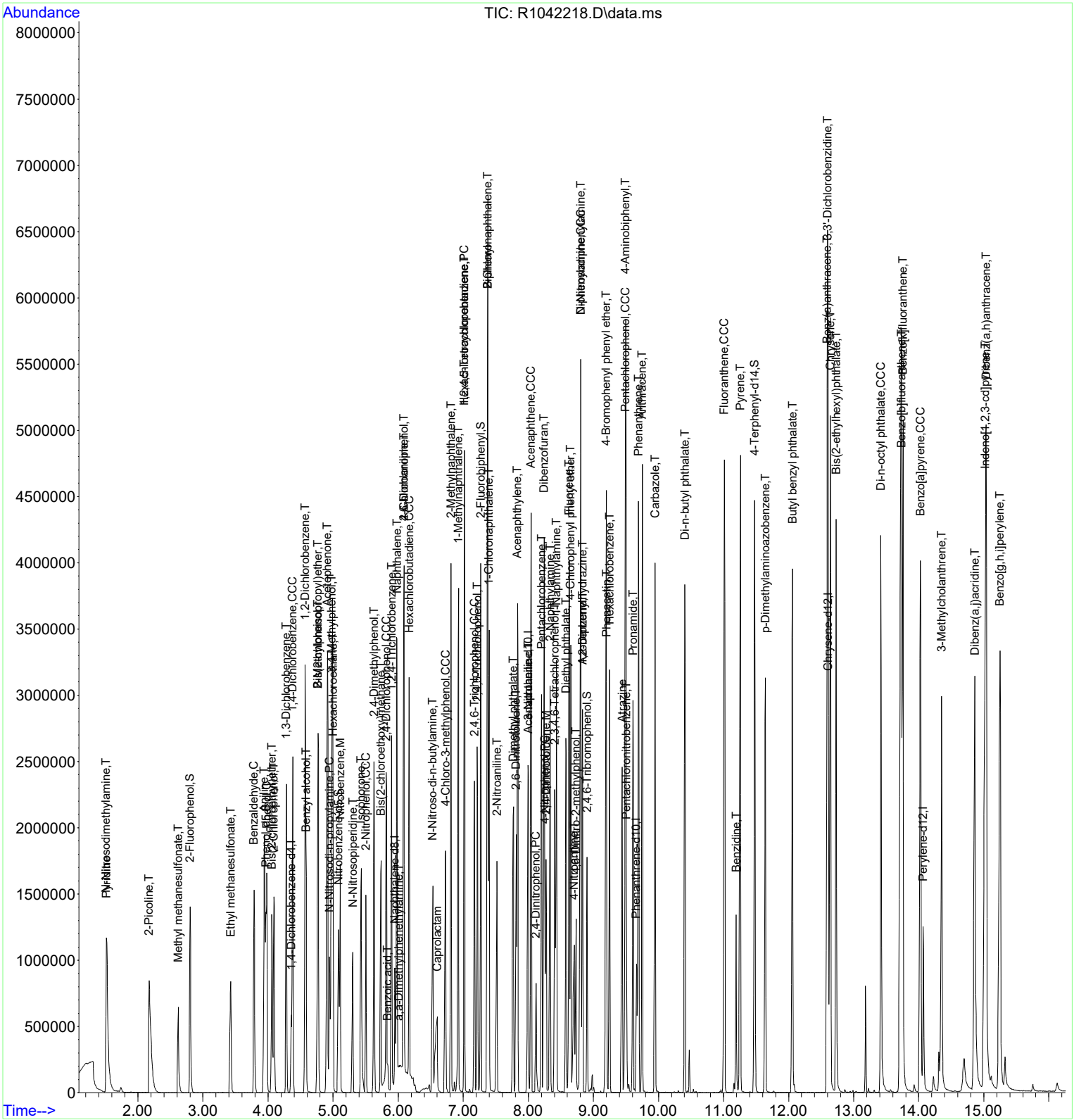
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	... 15.025	276	2709004	173.69	ng	98
106) Benzo[b]fluoranthene	... 13.738	252	2535835	173.45	ng	98
107) Benzo[k]fluoranthene	... 13.759	252	1996246	137.04	ng	99
108) Benzo[a]pyrene	... 14.026	252	2143581	167.13	ng	99
109) Dibenz(a,j)acridine	... 14.865	279	1973413	179.76	ng	98
110) Dibenz(a,h)anthracene	... 15.036	278	2210293	163.91	ng	98
111) Benzo[g,h,i]perylene	... 15.250	276	2242523	163.11	ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042218.D
Acq On : 22 Apr 2021 1:51 pm
Operator : YH
Sample : bna160 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 23 14:51:14 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:50:28 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042219.D
Acq On : 22 Apr 2021 2:18 pm
Operator : YH
Sample : bna5 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 23 14:54:00 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:53:14 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.354	152	110753	40.00	ng		0.00
23) Naphthalene-d8	5.941	136	430954	40.00	ng		0.00
45) Acenaphthene-d10	7.992	164	252426	40.00	ng		0.00
73) Phenanthrene-d10	9.654	188	451164	40.00	ng		0.00
92) Chrysene-d12	12.592	240	396937	40.00	ng		0.00
105) Perylene-d12	14.061	264	380618	40.00	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	2.794	112	16623	4.81	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery =	4.81%#			
9) Phenol-d5	3.938	99	19845	4.73	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery =	4.73%#			
24) Nitrobenzene-d5	5.065	82	15938	4.78	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery =	9.56%#			
50) 2-Fluorobiphenyl	7.255	172	41892	5.14	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery =	10.28%#			
72) 2,4,6-Tribromophenol	8.884	330	3800	3.89	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery =	3.89%#			
94) 4-Terphenyl-d14	11.465	244	46256	4.71	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery =	9.42%#			
Target Compounds							Qvalue
2) Pyridine	1.539	79	21484	5.06	ng		96
3) 2-Picoline	2.196	93	21076	4.89	ng		96
4) Methyl methanesulfonate	2.623	80	8532	4.73	ng		96
6) Ethyl methanesulfonate	3.414	79	13553	4.82	ng		98
7) Benzaldehyde	3.783	105	11791	5.26	ng		97
8) Aniline	3.932	66	9727	4.57	ng	#	82
10) Phenol	3.954	94	24846	4.88	ng	#	33
11) Bis(2-chloroethyl)ether	4.045	93	17666	4.89	ng		98
12) 2-Chlorophenol	4.082	128	18807	4.83	ng		98
13) 1,3-Dichlorobenzene	4.274	146	22473	5.06	ng		99
14) 1,4-Dichlorobenzene	4.376	146	22709	5.05	ng		98
15) 1,2-Dichlorobenzene	4.568	146	21449	5.12	ng		97
16) Benzyl alcohol	4.563	108	11891	4.75	ng		92
17) Bis(2-chloroisopropyl)ether	4.766	45	19666	5.21	ng		97
18) 2-Methylphenol	4.744	107	13983	4.77	ng		98
19) 3,4-Methylphenol	4.947	107	37414	9.82	ng		97
20) N-Nitrosodi-n-propylamine	4.921	70	12151	5.06	ng		96
21) N-Nitrosodimethylamine	1.518	42	6427	4.93	ng	#	91
22) Hexachloroethane	4.990	117	7852	4.96	ng		97
25) Acetophenone	4.889	105	50296	10.29	ng		98
26) Nitrobenzene	5.092	123	8905	4.72	ng		97
27) N-Nitrosopiperidine	5.279	114	9070	4.87	ng		89
28) Isophorone	5.407	82	33815	4.91	ng		97
29) 2-Nitrophenol	5.492	139	7706	4.26	ng		93
30) 2,4-Dimethylphenol	5.610	122	15932	4.77	ng		94
31) Bis(2-chloroethoxy)methane	5.717	93	21341	4.92	ng		99
32) 2,4-Dichlorophenol	5.802	162	15014	4.70	ng		99
33) 1,2,4-Trichlorobenzene	5.888	180	18087	5.01	ng		98
34) Naphthalene	5.968	128	57871	5.13	ng		99
35) Benzoic acid	5.706	122	1586	37.48	ng	#	82
36) 2,6-Dichlorophenol	6.074	162	14974	4.81	ng		98
37) 4-Chloroaniline	6.069	127	22697	4.79	ng		97
38) Hexachlorobutadiene	6.165	225	10323	5.02	ng		98
39) a,a-Dimethylphenethylamine	5.829	58	28834	3.34	ng		84
40) Caprolactam	6.448	113	4836	3.99	ng	#	69

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042219.D
Acq On : 22 Apr 2021 2:18 pm
Operator : YH
Sample : bna5 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 23 14:54:00 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:53:14 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.694	107	13697	4.49	ng		95
42) N-Nitroso-di-n-butylamine	6.513	84	11875	4.41	ng		84
43) 2-Methylnaphthalene	6.801	141	32957	5.04	ng		98
44) 1-Methylnaphthalene	6.913	141	32840	5.11	ng		100
46) 1,2,4,5-Tetrachlorobenzene	7.004	216	17904	5.13	ng		98
47) Hexachlorocyclopentadiene	7.009	237	7476	3.89	ng	#	91
48) 2,4,6-Trichlorophenol	7.154	196	9894	4.40	ng		97
49) 2,4,5-Trichlorophenol	7.191	196	11387	4.52	ng		96
51) Biphenyl	7.357	154	46981	5.36	ng		98
52) 2-Chloronaphthalene	7.357	162	36918	5.02	ng		98
53) 1-Chloronaphthalene	7.378	162	35590	5.35	ng		99
54) 2-Nitroaniline	7.496	65	7003	4.06	ng		97
55) 3-Nitroaniline	7.971	138	8042	3.93	ng		94
56) Pentachlorobenzene	8.190	250	15359	4.99	ng		98
57) 4-Nitroaniline	8.655	138	8096	3.82	ng		96
58) 2-Naphthylamine	8.313	143	34203	4.62	ng		98
59) 1-Naphthylamine	8.409	143	37174	4.70	ng		96
60) Dimethyl phthalate	7.747	163	38993	4.89	ng		99
61) Acenaphthylene	7.827	152	53889	4.89	ng		100
62) 2,6-Dinitrotoluene	7.789	165	6859	4.12	ng		92
63) Acenaphthene	8.030	154	33981	5.09	ng		99
64) 2,4-Dinitrophenol	8.088	184	871	20.39	ng		94
65) Dibenzofuran	8.227	168	53169	5.18	ng		90
66) 4-Nitrophenol	8.211	109	3811	3.81	ng	#	39
67) 2,4-Dinitrotoluene	8.243	165	8484	3.66	ng	#	76
68) 2,3,4,6-Tetrachlorophenol	8.388	232	7230	4.08	ng		95
69) Diethyl phthalate	8.553	149	37567	4.86	ng		97
70) Fluorene	8.612	166	43342	5.08	ng		97
71) 4-Chlorophenyl phenyl ether	8.644	204	20912	5.10	ng		98
74) 4,6-Dinitro-2-methylphenol	8.692	198	2245	14.22	ng	#	1
75) Azobenzene	8.815	77	34411	4.80	ng		98
76) 1,2-Diphenylhydrazine	8.815	182	10248	4.68	ng		96
77) Diphenylamine	8.778	170	7655	5.01	ng		99
78) N-Nitrosodiphenylamine	8.778	168	36058	5.00	ng		98
79) 4-Bromophenyl phenyl ether	9.184	248	12004	4.95	ng		97
80) Phenacetin	9.152	108	15195	4.12	ng		97
81) Hexachlorobenzene	9.232	284	12828	4.94	ng		94
82) Atrazine	9.408	200	10265	4.55	ng		96
83) 4-Aminobiphenyl	9.472	169	39144	4.29	ng		99
84) Pentachlorophenol	9.467	266	4827	3.36	ng		95
85) Pentachloronitrobenzene	9.477	237	3627	3.84	ng		89
86) Pronamide	9.584	173	13511	4.12	ng		98
87) Phenanthrene	9.675	178	63278	5.15	ng		99
88) Anthracene	9.734	178	61282	4.96	ng		99
89) Carbazole	9.932	167	53678	4.84	ng		100
90) Di-n-butyl phthalate	10.396	149	56126	4.27	ng		98
91) Fluoranthene	11.000	202	63819	4.67	ng		99
93) Pyrene	11.240	202	67297	4.88	ng		98
95) Benzidine	11.182	184	14922	2.89	ng	#	84
96) p-Dimethylaminoazobenzene	11.630	225	10148	3.71	ng		96
97) Butyl benzyl phthalate	12.047	149	21890	3.86	ng		98
98) Benz(a)anthracene	12.581	228	60263	4.66	ng		100
99) 3,3'-Dichlorobenzidine	12.587	252	20707	4.39	ng		98
100) Chrysene	12.619	228	67472	5.02	ng		98
101) Bis(2-ethylhexyl)phthalate	12.725	149	28358	3.78	ng		98
102) Di-n-octyl phthalate	13.404	149	36487	2.91	ng	#	97
103) 3-Methylcholanthrene	14.333	268	15525	3.53	ng		99

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042219.D
Acq On : 22 Apr 2021 2:18 pm
Operator : YH
Sample : bna5 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 23 14:54:00 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:53:14 2021
Response via : Initial Calibration

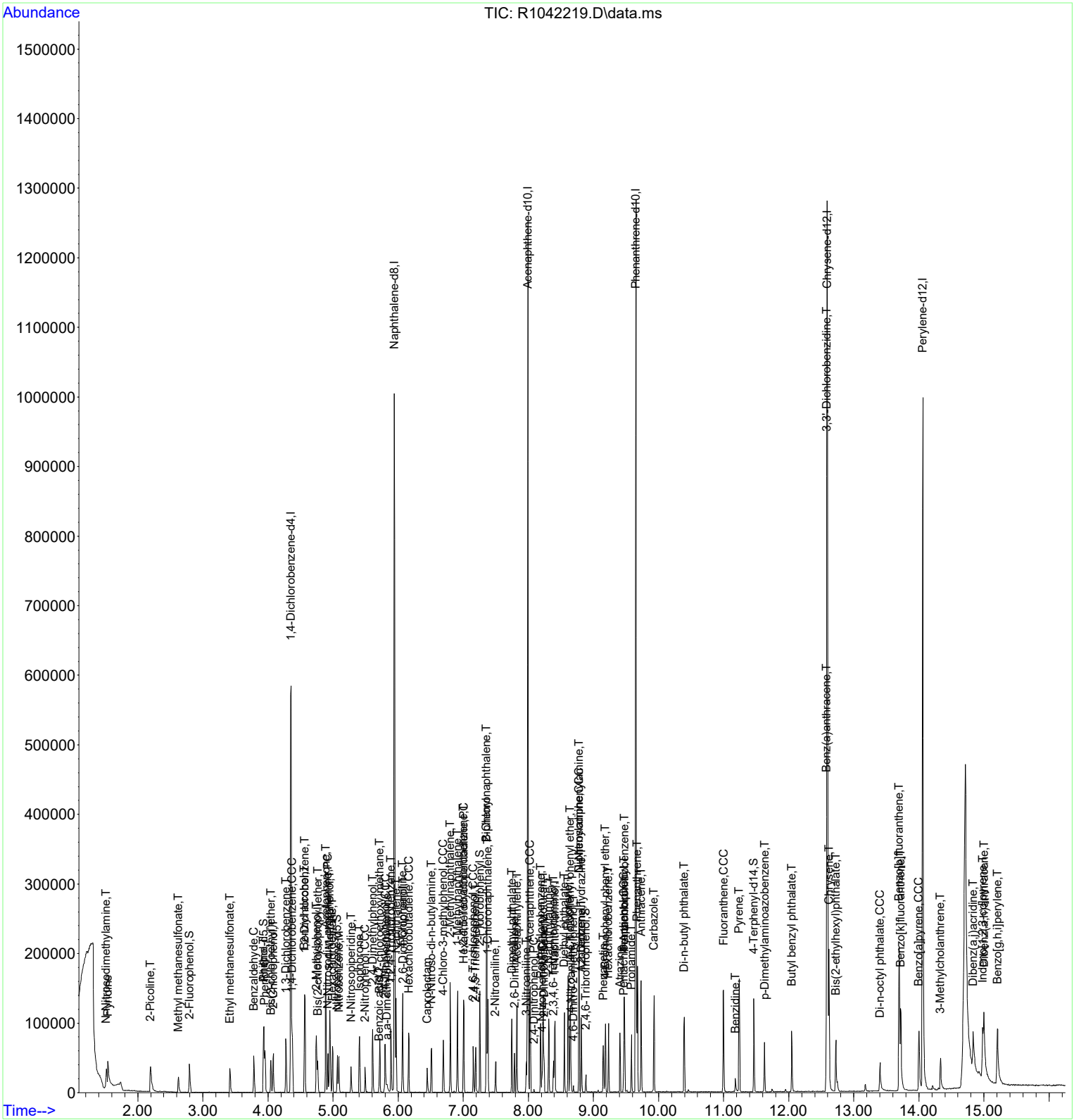
Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	14.980	276	67206	4.46	ng	100
106) Benzo[b]fluoranthene	...	13.698	252	50616	3.96	ng	98
107) Benzo[k]fluoranthene	...	13.724	252	68386	5.37	ng	97
108) Benzo[a]pyrene	...	14.002	252	44373	3.95	ng	100
109) Dibenz(a,j)acridine	...	14.836	279	44968	4.68	ng	96
110) Dibenz(a,h)anthracene	...	15.001	278	57656	4.89	ng	94
111) Benzo[g,h,i]perylene	...	15.210	276	60435	5.02	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042219.D
Acq On : 22 Apr 2021 2:18 pm
Operator : YH
Sample : bna5 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 23 14:54:00 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:53:14 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.352	152	110909	40.00	ng		0.00
23) Naphthalene-d8	...	5.944	136	436527	40.00	ng		0.00
45) Acenaphthene-d10	...	7.995	164	257989	40.00	ng		0.00
73) Phenanthrene-d10	...	9.657	188	453481	40.00	ng		0.00
92) Chrysene-d12	...	12.600	240	428210	40.00	ng		0.00
105) Perylene-d12	...	14.064	264	474886	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.792	112	135326	39.11	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 39.11%					
9) Phenol-d5	...	3.941	99	163732	38.97	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 38.97%					
24) Nitrobenzene-d5	...	5.068	82	131479	38.89	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 77.78%					
50) 2-Fluorobiphenyl	...	7.258	172	329074	39.50	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 79.00%					
72) 2,4,6-Tribromophenol	...	8.888	330	38724	38.81	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 38.81%					
94) 4-Terphenyl-d14	...	11.468	244	412010	38.93	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 77.86%					
Target Compounds					Qvalue			
2) Pyridine	...	1.526	79	160734	37.78	ng		97
3) 2-Picoline	...	2.178	93	104418	24.18	ng		97
4) Methyl methanesulfonate	...	2.616	80	39699	21.99	ng		96
6) Ethyl methanesulfonate	...	3.412	79	100716	35.76	ng		98
7) Benzaldehyde	...	3.780	105	105450	46.99	ng		98
8) Aniline	...	3.935	66	76912	36.09	ng	#	89
10) Phenol	...	3.962	94	190079	37.29	ng	#	58
11) Bis(2-chloroethyl)ether	...	4.048	93	142389	39.39	ng		99
12) 2-Chlorophenol	...	4.080	128	148305	38.01	ng		99
13) 1,3-Dichlorobenzene	...	4.277	146	168816	37.93	ng		99
14) 1,4-Dichlorobenzene	...	4.373	146	173934	38.66	ng		99
15) 1,2-Dichlorobenzene	...	4.566	146	159976	38.16	ng		99
16) Benzyl alcohol	...	4.566	108	95405	38.07	ng		92
17) Bis(2-chloroisopropyl)ether	...	4.763	45	125707	33.25	ng		93
18) 2-Methylphenol	...	4.747	107	114862	39.16	ng		93
19) 3,4-Methylphenol	...	4.961	107	328784	86.19	ng		97
20) N-Nitrosodi-n-propylamine	...	4.924	70	88487	36.77	ng		94
21) N-Nitrosodimethylamine	...	1.510	42	50304	38.56	ng		85
22) Hexachloroethane	...	4.993	117	61083	38.49	ng		98
25) Acetophenone	...	4.892	105	200057	40.41	ng		99
26) Nitrobenzene	...	5.095	123	74640	39.02	ng		94
27) N-Nitrosopiperidine	...	5.282	114	74266	39.38	ng		89
28) Isophorone	...	5.410	82	265616	38.08	ng		98
29) 2-Nitrophenol	...	5.495	139	73752	40.29	ng		94
30) 2,4-Dimethylphenol	...	5.613	122	128874	38.08	ng		96
31) Bis(2-chloroethoxy)methane	...	5.720	93	170773	38.90	ng		99
32) 2,4-Dichlorophenol	...	5.800	162	127816	39.46	ng		99
33) 1,2,4-Trichlorobenzene	...	5.891	180	141991	38.86	ng		99
34) Naphthalene	...	5.971	128	457322	40.00	ng		100
35) Benzoic acid	...	5.725	122	11479	45.11	ng	#	71
36) 2,6-Dichlorophenol	...	6.078	162	121814	38.61	ng		99
37) 4-Chloroaniline	...	6.072	127	184507	38.43	ng		97
38) Hexachlorobutadiene	...	6.163	225	78872	37.89	ng		99
39) a,a-Dimethylphenethylamine	...	5.859	58	329101	37.62	ng		77
40) Caprolactam	...	6.505	113	58104	47.30	ng		91

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.703	107	118693	38.39	ng		93
42) N-Nitroso-di-n-butylamine	6.516	84	126183	46.25	ng		95
43) 2-Methylnaphthalene	6.804	141	254033	38.32	ng		98
44) 1-Methylnaphthalene	6.916	141	255072	39.17	ng		99
46) 1,2,4,5-Tetrachlorobenzene	7.007	216	137764	38.61	ng		99
47) Hexachlorocyclopentadiene	7.012	237	59664	30.34	ng		99
48) 2,4,6-Trichlorophenol	7.162	196	87557	38.10	ng		97
49) 2,4,5-Trichlorophenol	7.199	196	99355	38.59	ng		98
51) Biphenyl	7.365	154	405351	45.22	ng		98
52) 2-Chloronaphthalene	7.365	162	334019	44.43	ng		98
53) 1-Chloronaphthalene	7.386	162	222417	32.73	ng		98
54) 2-Nitroaniline	7.504	65	69307	39.28	ng		93
55) 3-Nitroaniline	7.974	138	81092	38.82	ng		94
56) Pentachlorobenzene	8.193	250	125472	39.86	ng		99
57) 4-Nitroaniline	8.668	138	86762	40.02	ng		96
58) 2-Naphthylamine	8.321	143	264413	34.98	ng		98
59) 1-Naphthylamine	8.412	143	268244	33.20	ng		98
60) Dimethyl phthalate	7.755	163	316564	38.85	ng		100
61) Acenaphthylene	7.830	152	435067	38.64	ng		100
62) 2,6-Dinitrotoluene	7.798	165	68156	40.02	ng		96
63) Acenaphthene	8.033	154	274403	40.22	ng		99
64) 2,4-Dinitrophenol	8.097	184	19831	39.30	ng		89
65) Dibenzofuran	8.230	168	416120	39.69	ng		98
66) 4-Nitrophenol	8.220	109	38871	38.04	ng	#	66
67) 2,4-Dinitrotoluene	8.246	165	91501	38.63	ng	#	81
68) 2,3,4,6-Tetrachlorophenol	8.391	232	71303	39.38	ng		99
69) Diethyl phthalate	8.562	149	307929	39.01	ng		99
70) Fluorene	8.615	166	332870	38.15	ng		99
71) 4-Chlorophenyl phenyl ether	8.647	204	162792	38.82	ng		99
74) 4,6-Dinitro-2-methylphenol	8.706	198	36338	36.53	ng		98
75) Azobenzene	8.818	77	302359	41.95	ng		99
76) 1,2-Diphenylhydrazine	8.823	182	93190	42.30	ng		99
77) Diphenylamine	8.786	170	69711	45.39	ng		99
78) N-Nitrosodiphenylamine	8.786	168	328611	45.37	ng		100
79) 4-Bromophenyl phenyl ether	9.187	248	93976	38.57	ng		97
80) Phenacetin	9.165	108	151545	40.87	ng		99
81) Hexachlorobenzene	9.240	284	99143	37.99	ng		97
82) Atrazine	9.422	200	108545	47.89	ng		97
83) 4-Aminobiphenyl	9.480	169	345753	37.69	ng		99
84) Pentachlorophenol	9.475	266	50854	35.19	ng		97
85) Pentachloronitrobenzene	9.486	237	38581	40.69	ng		96
86) Pronamide	9.593	173	146188	44.31	ng		100
87) Phenanthrene	9.684	178	483004	39.10	ng		100
88) Anthracene	9.737	178	433282	34.87	ng		100
89) Carbazole	9.935	167	533913	47.89	ng		100
90) Di-n-butyl phthalate	10.399	149	510960	38.63	ng		100
91) Fluoranthene	11.003	202	541249	39.36	ng		99
93) Pyrene	11.243	202	577348	38.77	ng		100
95) Benzidine	11.185	184	199926	35.89	ng		100
96) p-Dimethylaminoazobenzene	11.633	225	113035	38.31	ng		99
97) Butyl benzyl phthalate	12.050	149	229416	37.51	ng		99
98) Benz(a)anthracene	12.584	228	528678	37.88	ng		100
99) 3,3'-Dichlorobenzidine	12.590	252	195683	38.50	ng		99
100) Chrysene	12.627	228	543216	37.50	ng		99
101) Bis(2-ethylhexyl)phthalate	12.729	149	320053	39.53	ng		100
102) Di-n-octyl phthalate	13.407	149	501738	37.08	ng		99
103) 3-Methylcholanthrene	14.342	268	237084	50.01	ng		97

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

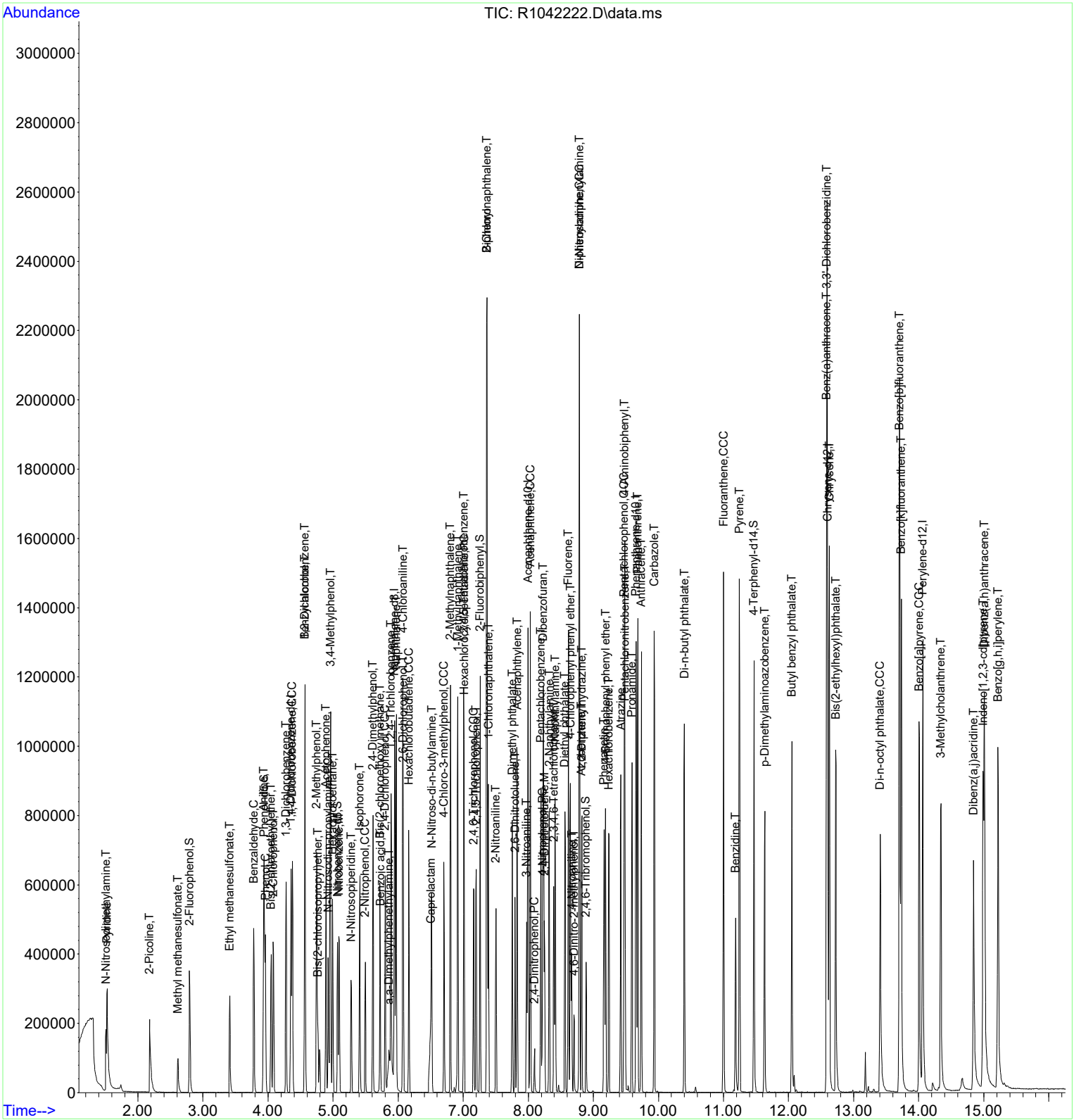
Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	14.988	276	604103	37.18	ng	97
106) Benzo[b]fluoranthene	...	13.701	252	537627	33.69	ng	98
107) Benzo[k]fluoranthene	...	13.733	252	575470	36.20	ng	100
108) Benzo[a]pyrene	...	14.011	252	474062	33.86	ng	98
109) Dibenz(a,j)acridine	...	14.844	279	372972	31.12	ng	99
110) Dibenz(a,h)anthracene	...	15.010	278	500840	34.03	ng	99
111) Benzo[g,h,i]perylene	...	15.218	276	518070	34.52	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.352	152	117275	40.00	ng		0.00
23) Naphthalene-d8	...	5.949	136	452355	40.00	ng		0.00
45) Acenaphthene-d10	...	7.995	164	262352	40.00	ng		0.00
73) Phenanthrene-d10	...	9.662	188	463559	40.00	ng		0.00
92) Chrysene-d12	...	12.605	240	436890	40.00	ng		0.01
105) Perylene-d12	...	14.069	264	498417	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.797	112	284576	77.78	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 77.78%					
9) Phenol-d5	...	3.951	99	346490	78.00	ng		0.01
Spiked Amount 100.000	Range 10 - 110		Recovery = 78.00%					
24) Nitrobenzene-d5	...	5.073	82	283131	80.81	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 161.62%#					
50) 2-Fluorobiphenyl	...	7.263	172	679566	80.21	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 160.42%#					
72) 2,4,6-Tribromophenol	...	8.898	330	84826	83.61	ng		0.01
Spiked Amount 100.000	Range 10 - 123		Recovery = 83.61%					
94) 4-Terphenyl-d14	...	11.473	244	856922	79.35	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 158.70%#					
Target Compounds								Qvalue
2) Pyridine	...	1.520	79	324877	72.22	ng		98
3) 2-Picoline	...	2.172	93	309483	67.78	ng		98
4) Methyl methanesulfonate	...	2.615	80	138787	72.70	ng		95
6) Ethyl methanesulfonate	...	3.417	79	212679	71.41	ng		97
7) Benzaldehyde	...	3.780	105	162153	68.34	ng		98
8) Aniline	...	3.935	66	162128	71.95	ng	#	87
10) Phenol	...	3.967	94	398778	73.98	ng	#	58
11) Bis(2-chloroethyl)ether	...	4.052	93	298595	78.11	ng		99
12) 2-Chlorophenol	...	4.084	128	311085	75.39	ng		99
13) 1,3-Dichlorobenzene	...	4.277	146	354135	75.25	ng		99
14) 1,4-Dichlorobenzene	...	4.378	146	361217	75.93	ng		98
15) 1,2-Dichlorobenzene	...	4.571	146	330814	74.63	ng		99
16) Benzyl alcohol	...	4.576	108	199067	75.11	ng		93
17) Bis(2-chloroisopropyl)ether	...	4.763	45	257283	64.36	ng		95
18) 2-Methylphenol	...	4.752	107	240629	77.58	ng		94
19) 3,4-Methylphenol	...	4.971	107	646727	160.34	ng		98
20) N-Nitrosodi-n-propylamine	...	4.934	70	186619	73.34	ng		93
21) N-Nitrosodimethylamine	...	1.510	42	104260	75.58	ng	#	83
22) Hexachloroethane	...	4.993	117	128618	76.65	ng		98
25) Acetophenone	...	4.896	105	416412	81.17	ng		98
26) Nitrobenzene	...	5.099	123	159159	80.30	ng		92
27) N-Nitrosopiperidine	...	5.286	114	154017	78.81	ng		89
28) Isophorone	...	5.415	82	553417	76.57	ng		97
29) 2-Nitrophenol	...	5.500	139	160376	84.54	ng		95
30) 2,4-Dimethylphenol	...	5.618	122	276724	78.92	ng		96
31) Bis(2-chloroethoxy)methane	...	5.724	93	355627	78.18	ng		100
32) 2,4-Dichlorophenol	...	5.810	162	268848	80.10	ng		98
33) 1,2,4-Trichlorobenzene	...	5.895	180	298827	78.92	ng		99
34) Naphthalene	...	5.976	128	925495	78.12	ng		99
35) Benzoic acid	...	5.778	122	59119	80.31	ng	#	74
36) 2,6-Dichlorophenol	...	6.082	162	256957	78.59	ng		99
37) 4-Chloroaniline	...	6.077	127	385234	77.43	ng		99
38) Hexachlorobutadiene	...	6.168	225	165684	76.81	ng		99
39) a,a-Dimethylphenethylamine	...	5.917	58	703377	77.60	ng		84
40) Caprolactam	...	6.547	113	123761	97.22	ng	#	81

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 4-Chloro-3-methylphenol	6.713	107	258118	80.56	ng	94
42) N-Nitroso-di-n-butylamine	6.520	84	229104	81.03	ng	90
43) 2-Methylnaphthalene	6.809	141	524335	76.34	ng	98
44) 1-Methylnaphthalene	6.916	141	524086	77.67	ng	98
46) 1,2,4,5-Tetrachlorobenzene	7.012	216	288039	79.39	ng	99
47) Hexachlorocyclopentadiene	7.017	237	138861	69.45	ng	98
48) 2,4,6-Trichlorophenol	7.167	196	190219	81.39	ng	97
49) 2,4,5-Trichlorophenol	7.204	196	214469	81.91	ng	98
51) Biphenyl	7.370	154	796639	87.39	ng	98
52) 2-Chloronaphthalene	7.370	162	685295	89.64	ng	99
53) 1-Chloronaphthalene	7.391	162	448822	64.94	ng	98
54) 2-Nitroaniline	7.509	65	149853	83.51	ng	92
55) 3-Nitroaniline	7.984	138	174849	82.32	ng	95
56) Pentachlorobenzene	8.198	250	260639	81.42	ng	99
57) 4-Nitroaniline	8.684	138	186467	84.59	ng	95
58) 2-Naphthylamine	8.326	143	558797	72.70	ng	98
59) 1-Naphthylamine	8.422	143	558387	67.96	ng	98
60) Dimethyl phthalate	7.760	163	662430	79.95	ng	100
61) Acenaphthylene	7.829	152	901382	78.73	ng	99
62) 2,6-Dinitrotoluene	7.803	165	153509	88.63	ng	95
63) Acenaphthene	8.038	154	561699	80.95	ng	98
64) 2,4-Dinitrophenol	8.107	184	49592	68.19	ng	92
65) Dibenzofuran	8.235	168	849540	79.68	ng	100
66) 4-Nitrophenol	8.230	109	78612	75.66	ng	95
67) 2,4-Dinitrotoluene	8.257	165	206050	85.55	ng	95
68) 2,3,4,6-Tetrachlorophenol	8.401	232	154439	83.87	ng	99
69) Diethyl phthalate	8.572	149	645811	80.45	ng	100
70) Fluorene	8.620	166	691544	77.93	ng	99
71) 4-Chlorophenyl phenyl ether	8.652	204	341526	80.09	ng	100
74) 4,6-Dinitro-2-methylphenol	8.732	198	85107	67.23	ng	98
75) Azobenzene	8.828	77	629796	85.48	ng	98
76) 1,2-Diphenylhydrazine	8.828	182	199248	88.47	ng	95
77) Diphenylamine	8.796	170	141670	90.24	ng	98
78) N-Nitrosodiphenylamine	8.796	168	664902	89.80	ng	100
79) 4-Bromophenyl phenyl ether	9.191	248	196654	78.96	ng	97
80) Phenacetin	9.181	108	324626	85.64	ng	98
81) Hexachlorobenzene	9.245	284	211749	79.37	ng	97
82) Atrazine	9.432	200	226406	97.72	ng	97
83) 4-Aminobiphenyl	9.485	169	700708	74.72	ng	100
84) Pentachlorophenol	9.485	266	113129	76.58	ng	99
85) Pentachloronitrobenzene	9.491	237	82838	85.46	ng	96
86) Pronamide	9.603	173	314699	93.32	ng	100
87) Phenanthrene	9.688	178	986064	78.09	ng	99
88) Anthracene	9.742	178	893851	70.37	ng	99
89) Carbazole	9.945	167	1103226	96.81	ng	99
90) Di-n-butyl phthalate	10.399	149	1082795	80.09	ng	100
91) Fluoranthene	11.008	202	1131123	80.48	ng	99
93) Pyrene	11.254	202	1175267	77.36	ng	99
95) Benzidine	11.189	184	440264	77.46	ng	100
96) p-Dimethylaminoazobenzene	11.638	225	245101	81.41	ng	99
97) Butyl benzyl phthalate	12.055	149	500949	80.28	ng	98
98) Benz(a)anthracene	12.589	228	1119207	78.61	ng	99
99) 3,3'-Dichlorobenzidine	12.600	252	420107	81.00	ng	99
100) Chrysene	12.632	228	1124175	76.06	ng	99
101) Bis(2-ethylhexyl)phthalate	12.728	149	700243	84.77	ng	99
102) Di-n-octyl phthalate	13.412	149	1139974	82.58	ng	99
103) 3-Methylcholanthrene	14.347	268	530898	109.77	ng	98

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

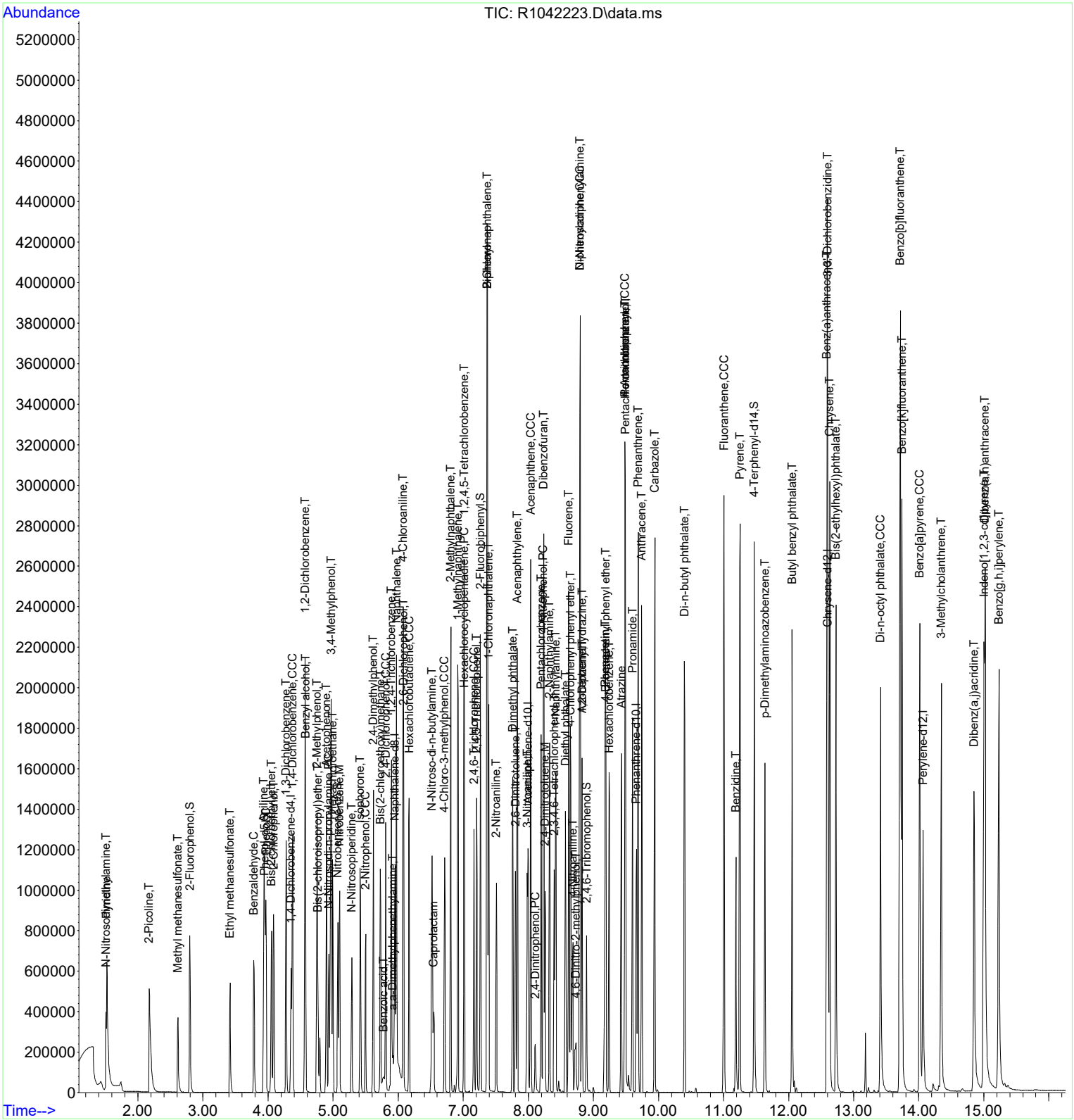
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	15.004	276	1362555	82.18	ng	98
106) Benzo[b]fluoranthene	13.716	252	1181419	70.53	ng	98
107) Benzo[k]fluoranthene	13.743	252	1189646	71.31	ng	100
108) Benzo[a]pyrene	14.015	252	1035168	70.45	ng	99
109) Dibenz(a,j)acridine	14.849	279	856635	68.11	ng	99
110) Dibenz(a,h)anthracene	15.020	278	1114812	72.16	ng	99
111) Benzo[g,h,i]perylene	15.233	276	1144521	72.66	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration



Response Factor Report Instrument #10

Method Path : C:\msdchem\1\METHODS\
Method File : B042221.M
Title : MS-10 BNA CURVE 8270E/625
Last Update : Fri Apr 23 14:54:46 2021
Response Via : Initial Calibration

Calibration Files
160 =R1042218.D 60 =R1042213.D 40 =R1042212.D 120 =R1042217.D 80 =R1042214.D 10 =R1042210.D 20 =R1042211.D
5 =R1042219.D

		Compound	160	60	40	120	80	10	20	5	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		Pyridine	1.538	1.535	1.599	1.523	1.519	1.470	1.557		1.534	2.55
3)	T	2-Picoline	1.585	1.531	1.600	1.554	1.563	1.487	1.583		1.557	2.48
4)	T	Methyl methane...	0.660	0.656	0.655	0.646	0.658	0.636	0.646		0.651	1.33
5)	S	2-Fluorophenol	1.260	1.267	1.259	1.242	1.271	1.226	1.210		1.248	1.82
6)	T	Ethyl methanes...	1.023	1.026	1.024	1.005	1.027	1.010	0.996		1.016	1.19
7)	C	Benzaldehyde	0.935	0.749	0.834	0.802	0.645	0.858	0.841		0.809	11.32#
8)	T	Aniline	0.753	0.798	0.769	0.752	0.758	0.780	0.770		0.769	2.16
9)	S	Phenol-d5	1.503	1.525	1.539	1.501	1.538	1.511	1.490		1.515	1.26
10)	C	Phenol	1.809	1.857	1.876	1.806	1.861	1.833	1.827		1.838	1.46
11)	T	Bis(2-chloroet...	1.276	1.326	1.349	1.259	1.296	1.326	1.295		1.304	2.40
12)	T	2-Chlorophenol	1.418	1.424	1.417	1.399	1.435	1.384	1.375		1.407	1.57
13)	T	1,3-Dichlorobe...	1.559	1.626	1.650	1.565	1.628	1.619	1.591		1.605	2.14
14)	CCC	1,4-Dichlorobe...	1.564	1.652	1.650	1.577	1.633	1.658	1.624		1.623	2.32
15)	T	1,2-Dichlorobe...	1.446	1.534	1.553	1.458	1.523	1.554	1.516		1.512	2.88
16)	T	Benzyl alcohol	0.916	0.921	0.922	0.904	0.929	0.864	0.872		0.904	2.88
17)	T	Bis(2-chlorois...	1.202	1.406	1.441	1.240	1.333	1.488	1.434		1.364	7.95
18)	T	2-Methylphenol	1.042	1.079	1.084	1.040	1.075	1.048	1.037		1.058	1.95
19)	T	3,4-Methylphenol	1.303	1.399	1.420	1.349	1.411	1.389	1.384	1.351	1.376	2.83
20)	PC	N-Nitrosodi-n-...	0.791	0.899	0.891	0.836	0.902	0.882	0.875		0.868	4.68
21)	T	N-Nitrosodimet...	0.464	0.480	0.491	0.455	0.463	0.481	0.460		0.471	2.86
22)	T	Hexachloroethane	0.541	0.581	0.582	0.569	0.591	0.573	0.570		0.572	2.77
23)	I	Naphthalene-d8	----------ISTD----------									
24)	S	Nitrobenzene-d5	0.313	0.312	0.313	0.309	0.322	0.301	0.298		0.310	2.62
25)	T	Acetophenone	0.427	0.462	0.465	0.428	0.455	0.468	0.457	0.467	0.454	3.66
26)	M	Nitrobenzene	0.176	0.177	0.177	0.177	0.182	0.170	0.168		0.175	2.75
27)	T	N-Nitrosopiper...	0.172	0.177	0.174	0.171	0.178	0.170	0.169		0.173	2.02
28)	T	Isophorone	0.628	0.651	0.655	0.626	0.643	0.641	0.630		0.639	1.82
29)	CCC	2-Nitrophenol	0.185	0.171	0.165	0.181	0.184	0.141	0.146		0.168	10.80
30)	T	2,4-Dimethylph...	0.307	0.319	0.317	0.305	0.317	0.302	0.302		0.310	2.41
31)	T	Bis(2-chloroet...	0.393	0.411	0.414	0.393	0.407	0.405	0.392		0.402	2.28
32)	CCC	2,4-Dichloroph...	0.297	0.303	0.303	0.300	0.309	0.281	0.284		0.297	3.61
33)	T	1,2,4-Trichlor...	0.325	0.340	0.341	0.328	0.341	0.340	0.328		0.335	2.16
34)	T	Naphthalene	0.965	1.066	1.084	0.989	1.056	1.093	1.053	1.074	1.048	4.39
35)	T	Benzoic acid	0.094	0.046	0.019	0.079	0.063				0.060	48.64
36)	T	2,6-Dichloroph...	0.287	0.295	0.295	0.289	0.299	0.282	0.277		0.289	2.68
37)	T	4-Chloroaniline	0.420	0.453	0.454	0.426	0.449	0.443	0.435		0.440	2.97
38)	CCC	Hexachlorobuta...	0.188	0.194	0.195	0.187	0.193	0.193	0.185		0.191	2.15
39)	T	a,a-Dimethylph...	0.844	0.825	0.819	0.817	0.830	0.717	0.758		0.802	5.73
40)		Caprolactam	0.119	0.116	0.114	0.116	0.118	0.099	0.105		0.113	6.67
41)	CCC	4-Chloro-3-met...	0.292	0.291	0.286	0.289	0.295	0.264	0.267		0.283	4.34

Method Path : C:\msdchem\1\METHODS\
Method File : B042221.M
Title : MS-10 BNA CURVE 8270E/625

42)	T	N-Nitroso-di-n...	0.222	0.291	0.292	0.229	0.289	0.214	0.213		0.250	15.43
43)	T	2-Methylnaphth...	0.574	0.623	0.625	0.584	0.619	0.621	0.602	0.612	0.607	3.18
44)	T	1-Methylnaphth...	0.564	0.609	0.615	0.571	0.602	0.609	0.595	0.610	0.597	3.20
45)	I	Acenaphthene-d10	----------ISTD----------									
46)	T	1,2,4,5-Tetrac...	0.526	0.558	0.569	0.530	0.555	0.572	0.562		0.553	3.25
47)	PC	Hexachlorocycl...	0.319	0.317	0.309	0.316	0.328	0.268	0.278		0.305	7.49
48)	CCC	2,4,6-Trichlor...	0.377	0.366	0.356	0.372	0.374	0.319	0.331		0.356	6.45
49)	T	2,4,5-Trichlor...	0.417	0.412	0.407	0.409	0.416	0.359	0.375		0.399	5.70
50)	S	2-Fluorobiphenyl	1.231	1.312	1.330	1.240	1.300	1.326	1.303		1.292	3.10
51)		Biphenyl	1.210	1.421	1.479	1.277	1.397	1.500	1.445		1.390	7.74
52)	T	2-Chloronaphth...	1.172	1.193	1.171	1.129	1.134	1.195	1.166		1.166	2.22
53)	T	1-Chloronaphth...	0.910	1.062	1.142	0.981	1.108	1.089	1.084		1.054	7.64
54)	T	2-Nitroaniline	0.295	0.281	0.275	0.290	0.292	0.232	0.249		0.274	8.79
55)	T	3-Nitroaniline	0.361	0.331	0.323	0.348	0.348	0.268	0.288		0.324	10.58
56)	T	Pentachloroben...	0.489	0.490	0.492	0.483	0.495	0.489	0.479		0.488	1.12
57)	T	4-Nitroaniline	0.374	0.347	0.337	0.359	0.358	0.280	0.299		0.336	10.24
58)	T	2-Naphthylamine	1.143	1.193	1.213	1.142	1.196	1.148	1.169		1.172	2.47
59)	T	1-Naphthylamine	1.220	1.270	1.286	1.207	1.263	1.279	1.245		1.253	2.39
60)	T	Dimethyl phtha...	1.277	1.274	1.279	1.249	1.276	1.255	1.232		1.263	1.41
61)	T	Acenaphthylene	1.674	1.774	1.812	1.693	1.773	1.769	1.725		1.746	2.86
62)	T	2,6-Dinitrotol...	0.302	0.271	0.261	0.289	0.287	0.206	0.231		0.264	13.01
63)	CCC	Acenaphthene	1.010	1.073	1.085	1.021	1.064	1.091	1.062		1.058	2.92
64)	PC	2,4-Dinitrophenol	0.141	0.092	0.077	0.127	0.113		0.053		0.100	32.46#
65)	T	Dibenzofuran	1.537	1.667	1.685	1.551	1.627	1.669	1.644		1.626	3.64
66)	PC	4-Nitrophenol	0.173	0.163	0.154	0.167	0.168	0.147	0.137		0.158	8.26
67)	M	2,4-Dinitrotol...	0.426	0.381	0.364	0.403	0.405	0.278	0.314		0.367	14.57
68)	T	2,3,4,6-Tetrac...	0.314	0.287	0.278	0.305	0.304	0.233	0.245		0.281	11.12
69)	T	Diethyl phthalate	1.231	1.238	1.247	1.230	1.239	1.196	1.186		1.224	1.91
70)	T	Fluorene	1.311	1.385	1.387	1.307	1.361	1.360	1.360		1.353	2.38
71)	T	4-Chlorophenyl...	0.648	0.657	0.657	0.635	0.659	0.654	0.640		0.650	1.44
72)	S	2,4,6-Tribromo...	0.178	0.157	0.152	0.170	0.167	0.126	0.132		0.155	12.55
73)	I	Phenanthrene-d10	----------ISTD----------									
74)	T	4,6-Dinitro-2-...	0.129	0.094	0.082	0.117	0.110	0.048	0.061		0.091	32.43
75)	T	Azobenzene	0.690	0.635	0.642	0.591	0.626	0.637	0.630		0.636	4.58
76)	T	1,2-Diphenylhy...	0.194	0.197	0.197	0.192	0.195	0.194	0.192		0.194	1.12
77)	CCC	Diphenylamine	0.129	0.139	0.139	0.131	0.137	0.137	0.136		0.135	2.85
78)	T	N-Nitrosodiphe...	0.599	0.649	0.655	0.612	0.644	0.664	0.649		0.639	3.76
79)	T	4-Bromophenyl ...	0.213	0.216	0.215	0.209	0.221	0.215	0.214		0.215	1.59
80)	T	Phenacetin	0.336	0.342	0.336	0.332	0.347	0.289	0.306		0.327	6.45
81)	T	Hexachlorobenzene	0.233	0.231	0.230	0.231	0.234	0.226	0.226		0.230	1.35
82)		Atrazine	0.198	0.204	0.204	0.199	0.207	0.187	0.200		0.200	3.29
83)	T	4-Aminobiphenyl	0.749	0.849	0.847	0.781	0.833	0.789	0.816		0.809	4.64
84)	CCC	Pentachlorophenol	0.149	0.133	0.124	0.144	0.143	0.093	0.107		0.127	16.25
85)	T	Pentachloronit...	0.090	0.087	0.084	0.088	0.089	0.070	0.077		0.084	8.70
86)	T	Pronamide	0.304	0.299	0.297	0.300	0.304	0.261	0.273		0.291	5.89
87)	T	Phenanthrene	1.035	1.111	1.119	1.040	1.090	1.125	1.106		1.090	3.40
88)	T	Anthracene	1.044	1.121	1.133	1.058	1.110	1.100	1.107		1.096	3.00
89)	T	Carbazole	0.962	1.002	1.011	0.956	0.998	0.982	0.973		0.983	2.13
90)	T	Di-n-butyl pht...	1.171	1.210	1.202	1.163	1.216	1.080	1.124		1.167	4.28
91)	CCC	Fluoranthene	1.196	1.252	1.240	1.195	1.244	1.179	1.184		1.213	2.55

Method Path : C:\msdchem\1\METHODS\
Method File : B042221.M
Title : MS-10 BNA CURVE 8270E/625

92)	I	Chrysene-d12	----------ISTD----------								
93)	T	Pyrene	1.367	1.406	1.408	1.353	1.397	1.404	1.402	1.391	1.57
94)	S	4-Terphenyl-d14	1.013	1.007	0.996	0.979	1.010	0.956	0.959	0.989	2.43
95)	T	Benzidine	0.363	0.551	0.563	0.617	0.513	0.517	0.520	0.520	15.10
96)	T	p-Dimethylamin...	0.310	0.282	0.275	0.300	0.297	0.223	0.243	0.276	11.51
97)	T	Butyl benzyl p...	0.623	0.593	0.564	0.603	0.606	0.489	0.521	0.571	8.64
98)	T	Benz(a)anthracene	1.318	1.339	1.311	1.296	1.343	1.261	1.258	1.304	2.62
99)	T	3,3'-Dichlorob...	0.429	0.503	0.503	0.463	0.489	0.462	0.475	0.475	5.59
100)	T	Chrysene	1.342	1.365	1.372	1.335	1.366	1.355	1.338	1.353	1.12
101)	T	Bis(2-ethylhex...	0.856	0.812	0.778	0.836	0.841	0.655	0.702	0.572	0.756	13.61
102)	CCC	Di-n-octyl pht...	1.450	1.320	1.249	1.411	1.401	0.948	1.068		1.264	15.04
103)	T	3-Methylcholan...	0.500	0.454	0.432	0.484	0.484	0.359	0.387		0.443	12.03
104)	T	Indeno[1,2,3-c...	1.648	1.557	1.499	1.598	1.636	1.306	1.382		1.518	8.62
105)	I	Perylene-d12	----------ISTD----------								
106)	T	Benzo[b]fluora...	1.457	1.385	1.334	1.519	1.311	1.179	1.225		1.344	8.98
107)	T	Benzo[k]fluora...	1.147	1.420	1.451	1.154	1.269	1.469	1.462		1.339	10.87
108)	CCC	Benzo[a]pyrene	1.232	1.273	1.180	1.234	1.187	1.048	1.101		1.179	6.76
109)	T	Dibenz(a,j)acr...	1.134	1.056	0.997	1.116	1.074	0.812	0.877		1.009	12.13
110)	T	Dibenz(a,h)ant...	1.270	1.312	1.264	1.285	1.255	1.115	1.177		1.240	5.55
111)	T	Benzo[g,h,i]pe...	1.289	1.346	1.294	1.296	1.232	1.165	1.227		1.264	4.73

(#) = Out of Range

Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **12/14/2021 6:57:02**
Prep End Date: **12/14/2021 2:43:02**

Prep Batch **327269** Prep Code: **3550_BNA** Technician: **Zafer Sarihan**

Prep Factor Units: **mL / g**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2112G15-001B	Sediment		30	0	0	1	0.033	12/14/2021	12/14/2021
2112G15-002B	Sediment		30	0	0	1	0.033	12/14/2021	12/14/2021
2112G15-003B	Sediment		30	0	0	1	0.033	12/14/2021	12/14/2021
2112G15-004B	Sediment		30	0	0	1	0.033	12/14/2021	12/14/2021
2112G62-004D	Soil		30	0	0	1	0.033	12/14/2021	12/14/2021
2112G62-005D	Soil		30	0	0	1	0.033	12/14/2021	12/14/2021
2112G62-006E	Soil		30	0	0	1	0.033	12/14/2021	12/14/2021
2112G62-006EMS	Soil		30	0	0	1	0.033	12/14/2021	12/14/2021
2112G62-006EMSD	Soil		30	0	0	1	0.033	12/14/2021	12/14/2021
2112G62-007C	Soil		30	0	0	1	0.033	12/14/2021	12/14/2021
2112G62-008D	Soil		15	0	0	0.5	0.033	12/14/2021	12/14/2021
2112G62-009B	Soil		30	0	0	1	0.033	12/14/2021	12/14/2021
LCS-327269			30	0	0	1	0.033	12/14/2021	12/14/2021
MB-327269			30	0	0	1	0.033	12/14/2021	12/14/2021

Injection Log

Directory: C:\MS-12\New\Raw Data\211214

Line	Vial	FileName	Multiplier	SampleName			Misc Info	Injected
1	1	V1212142101.D	1.	MB			BLANK	14 Dec 2021 08:22
2	2	V1212142102.D	1.	CCV 8260 050 S			CCV 8260B_S	14 Dec 2021 08:47
3	3	V1212142103.D	1.	LCS-327330			LCS1 8260_TCL4.2_S	14 Dec 2021 09:26
4	4	V1212142104.D	1.	CCV 8260 005 S			CCV 8260B_S	14 Dec 2021 10:07
5	5	V1212142105.D	1.	MB-327330			MBLK 8260_TCL4.2_S	14 Dec 2021 10:32
6	6	V1212142106.D	1.	2112F69-001AMS	7.61	2/3	MS 8260_TCL4.2_S	14 Dec 2021 10:56
7	7	V1212142107.D	1.	2112F69-002ADUP	7.02	2/3	DUP 8260_TCL4.2_S	14 Dec 2021 11:21
8	8	V1212142108.D	1.	2112A10-019A	7.45	1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 11:46
9	9	V1212142109.D	1.	2112A10-020A	8.41	1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 12:11
10	10	V1212142110.D	1.	2112A10-021A	7.54	1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 12:36
11	11	V1212142111.D	1.	2112A10-022A	8.47	1/6	SAMP 8260_TCL4.2_S	14 Dec 2021 13:01
12	12	V1212142112.D	1.	2112G62-004A	3.54	1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 13:26
13	13	V1212142113.D	1.	2112G62-005A	4.10	1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 13:50
14	14	V1212142114.D	1.	2112H10-011A	7.25	1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 14:15
15	15	V1212142115.D	1.	2112H10-012A	7.62	1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 14:40
16	16	V1212142116.D	1.	2112A10-023A	7.34	1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 15:04
17	17	V1212142117.D	1.	2112A10-024A	8.29	1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 15:29
18	18	V1212142118.D	1.	2112A10-025A	7.43	1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 15:54
19	19	V1212142119.D	1.	MB			BLANK	14 Dec 2021 16:19
20	20	V1212142120.D	1.	LCS-327386			LCS 8260_TCL4.2_S	14 Dec 2021 16:44
21	21	V1212142121.D	1.	CCV 8260 005 S			CCV 8260B_S	14 Dec 2021 17:22
22	22	V1212142122.D	1.	MB-327386			MBLK 8260_TCL4.2_S	14 Dec 2021 17:47
23	23	V1212142123.D	1.	2112C29-012A	6.83	1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 18:11
24	24	V1212142124.D	1.	2112G62-006A	6.35		SAMP 8260_TCL4.2_S	14 Dec 2021 18:36
25	25	V1212142125.D	1.	2112G62-006AMS	3.55		MS1 8260_TCL4.2_S	14 Dec 2021 19:00
26	26	V1212142126.D	1.	2112G62-006AMSD	4.33		MSD1 8260_TCL4.2_S	14 Dec 2021 19:25
27	27	V1212142127.D	1.	2112G62-004A	3.67	RR	SAMP 8260_TCL4.2_S	14 Dec 2021 19:50
28	28	V1212142128.D	1.	2112G62-005A	3.43	RR	SAMP 8260_TCL4.2_S	14 Dec 2021 20:14
29	29	V1212142129.D	1.	2112G62-007A	4.42		SAMP 8260_TCL4.2_S	14 Dec 2021 20:39
30	30	V1212142130.D	1.	2112G62-008A	2.36		SAMP 8260_TCL4.2_S	14 Dec 2021 21:04
31	31	V1212142131.D	1.	2112G62-009A	4.99		SAMP 8260_TCL4.2_S	14 Dec 2021 21:28

loaded by 15 Dec 2021 10:32

Injection Log

Directory: C:\MS-12\New\Raw Data\211214

Line	Vial	FileName	Multiplier	SampleName			Misc Info	Injected
32	32	V1212142132.D	1.	2112C29-013A	8.54	1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 21:53
33	33	V1212142133.D	1.	2112C29-014A	7.29	1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 22:18
34	34	V1212142134.D	1.	2112C29-015A	7.43	1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 22:43
35	35	V1212142135.D	1.	2112C29-016A	7.12	1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 23:08
36	36	V1212142136.D	1.	2112F13-002A	7.90	1/3	SAMP 8260_SC_S	14 Dec 2021 23:33
37	37	V1212142137.D	1.	2112F13-004A	7.16	1/3	SAMP 8260_SC_S	14 Dec 2021 23:57
38	38	V1212142138.D	1.	2112F13-006A	6.60	1/3	SAMP 8260_SC_S	15 Dec 2021 00:22
39	39	V1212142139.D	1.	2112F13-008A	5.70	1/3	SAMP 8260_SC_S	15 Dec 2021 00:47
40		V1212142140.D	1.					

Loaded by RA

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142103.D
Acq On : 14 Dec 2021 9:26 am
Operator : RAC
Sample : CCV 8260 050 S
Misc : CCV 8260B_S
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 09:45:29 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	115	0.00
2	T	Dichlorodifluoromethane	50.000	78.265	-56.5#	169	0.00
3	pcc	Chloromethane	50.000	60.877	-21.8	132	0.00
4	ccc	Vinyl chloride	50.000	58.178	-16.4	122	0.00
5	T	Bromomethane	50.000	54.968	-9.9	110	0.03
6	T	Chloroethane	50.000	45.342	9.3	105	0.02
7	T	Trichlorofluoromethane	50.000	53.793	-7.6	107	0.00
8	T	Acrolein	50.000	49.008	2.0	123	0.00
9	Mccc	1,1-Dichloroethene	50.000	59.710	-19.4	133	0.00
10		Freon-113	50.000	58.956	-17.9	133	0.01
11	T	Acetone	100.000	115.848	-15.8	129	0.00
12	T	Iodomethane	100.000	119.324	-19.3	140	0.00
13	T	Carbon disulfide	100.000	125.933	-25.9#	147	0.00
14		Methyl acetate	50.000	49.200	1.6	116	0.00
15	T	Vinyl acetate	100.000	119.875	-19.9	132	0.00
16	T	Methylene chloride	50.000	56.830	-13.7	130	0.00
17	T	Acrylonitrile	50.000	43.943	12.1	99	0.00
18		Methyl tert-butyl ether	50.000	61.234	-22.5#	134	0.00
19	T	trans-1,2-Dichloroethene	50.000	58.935	-17.9	135	0.00
20	pcc	1,1-Dichloroethane	50.000	54.689	-9.4	124	0.00
21	T	2,2-Dichloropropane	50.000	57.542	-15.1	134	0.00
22	T	cis-1,2-Dichloroethene	50.000	57.374	-14.7	128	0.00
23	T	2-Butanone	100.000	98.306	1.7	115	0.00
24	T	Bromochloromethane	50.000	56.066	-12.1	126	0.00
25	ccc	Chloroform	50.000	53.773	-7.5	121	0.00
26		Cyclohexane	50.000	56.698	-13.4	124	0.00
27	T	1,1,1-Trichloroethane	50.000	53.976	-8.0	118	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	115	0.00
29	S	Dibromofluoromethane	50.000	49.547	0.9	117	0.00
30	T	1,1-Dichloropropene	50.000	56.266	-12.5	128	0.00
31	T	Carbon tetrachloride	50.000	53.168	-6.3	119	0.00
32	M	Benzene	50.000	56.608	-13.2	130	0.00
33	T	1,2-Dichloroethane	50.000	52.124	-4.2	113	0.00
34	M	Trichloroethene	50.000	53.847	-7.7	126	0.00
35		Methylcyclohexane	50.000	55.341	-10.7	124	0.00
36	ccc	1,2-Dichloropropane	50.000	53.972	-7.9	120	0.00
37	T	Dibromomethane	50.000	53.603	-7.2	118	0.00
38		1,4-Dioxane	500.000	384.724	23.1#	90	0.00
39	T	Bromodichloromethane	50.000	53.110	-6.2	116	0.00
40	T	2-Chloroethyl vinyl ether	100.000	104.205	-4.2	122	0.00
41	T	cis-1,3-Dichloropropene	50.000	56.895	-13.8	121	0.00
42	T	4-Methyl-2-pentanone	100.000	92.451	7.5	106	0.00
43	S	Toluene-d8	50.000	49.776	0.4	114	0.00
44	Mccc	Toluene	50.000	57.056	-14.1	124	0.00
45	T	trans-1,3-Dichloropropene	50.000	54.324	-8.6	116	0.00
46	T	1,1,2-Trichloroethane	50.000	51.901	-3.8	118	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	119	0.00
48	T	2-Hexanone	100.000	99.110	0.9	112	0.00
49	T	Tetrachloroethene	50.000	49.885	0.2	124	0.00
50	T	1,3-Dichloropropane	50.000	51.358	-2.7	118	0.00
51	T	Dibromochloromethane	50.000	51.459	-2.9	117	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142103.D
Acq On : 14 Dec 2021 9:26 am
Operator : RAC
Sample : CCV 8260 050 S
Misc : CCV 8260B_S
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 09:45:29 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	50.000	49.437	1.1	109	0.00
53	pcc	Chlorobenzene	50.000	53.875	-7.8	123	0.00
54	T	1,1,1,2-Tetrachloroethane	50.000	51.947	-3.9	121	0.00
55	ccc	Ethylbenzene	50.000	55.051	-10.1	124	0.00
56	T	m,p-Xylene	100.000	113.756	-13.8	127	0.00
57	T	o-Xylene	50.000	48.789	2.4	122	0.00
58	T	Styrene	50.000	50.108	-0.2	126	0.00
59	pcc	Bromoform	50.000	52.417	-4.8	114	0.00
60	S	4-Bromofluorobenzene	50.000	53.254	-6.5	125	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	124	0.00
62	T	Bromobenzene	50.000	50.581	-1.2	125	0.00
63	pcc	1,1,2,2-Tetrachloroethane	50.000	46.157	7.7	116	0.00
64	T	1,2,3-Trichloropropane	50.000	50.053	-0.1	128	0.00
65	T	Isopropylbenzene	50.000	51.804	-3.6	125	0.00
66	T	n-Propylbenzene	50.000	52.377	-4.8	125	0.00
67	T	trans-1,4-Dichloro-2-butene	100.000	102.196	-2.2	125	0.00
68	T	2-Chlorotoluene	50.000	51.013	-2.0	124	0.00
69	T	4-Chlorotoluene	50.000	52.212	-4.4	121	0.00
70	T	1,3,5-Trimethylbenzene	50.000	50.728	-1.5	122	0.00
71	T	tert-Butylbenzene	50.000	52.042	-4.1	122	0.00
72	T	1,2,4-Trimethylbenzene	50.000	52.559	-5.1	124	0.00
73	T	sec-Butylbenzene	50.000	52.179	-4.4	122	0.00
74	T	1,3-Dichlorobenzene	50.000	51.748	-3.5	128	0.00
75	T	4-Isopropyltoluene	50.000	45.897	8.2	124	0.00
76	T	1,4-Dichlorobenzene	50.000	53.170	-6.3	128	0.00
77	T	1,2-Dichlorobenzene	50.000	52.395	-4.8	125	0.00
78	T	n-Butylbenzene	50.000	52.427	-4.9	122	0.00
79	T	1,2-Dibromo-3-chloropropane	50.000	39.401	21.2#	102	0.00
80	T	1,2,4-Trichlorobenzene	50.000	51.412	-2.8	125	0.00
81	T	Hexachlorobutadiene	50.000	47.695	4.6	117	0.00
82	T	Naphthalene	50.000	52.857	-5.7	122	0.00
83	T	1,2,3-Trichlorobenzene	50.000	51.770	-3.5	124	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

GC/MS QA-QC Check Report

Tune File : C:\MS-12\New\Raw Data\211214\V1212142103.D
Tune Time : 14 Dec 2021 9:26 am

Daily Calibration File : C:\MS-12\New\Raw Data\211214\V1212142103.D

					205183	361601	393659
					243154		
File	Sample	Surrogate Recovery %			Internal Standard Responses		
V1212142105.D							
	MB-327330	102	99	88	175674	327740	348683
				159869			
V1212142106.D							
	2112F69-00	100	101	101	185068	332295	366789
				214588			
V1212142107.D							
	2112F69-00	97	95	91	190060	345057	339877
				149378			
V1212142108.D							
	2112A10-01	99	97	94	187679	334118	336589
				159925			
V1212142109.D							
	2112A10-02	103	99	93	175342	324257	330807
				157672			
V1212142110.D							
	2112A10-02	100	98	89	176843	322283	327096
				147073			
V1212142111.D							
	2112A10-02	100	98	87	170620	314816	320106
				148635			
V1212142112.D							
	2112G62-00	95	90	70	158502	287453	220916
				56635*			
V1212142113.D							
	2112G62-00	101	89	71	144960	270143	207889
				54317*			
V1212142114.D							
	2112H10-01	99	100	90	165775	297581	299073
				135684			
V1212142115.D							
	2112H10-01	99	95	86	153513	288466	292839
				136217			
V1212142116.D							
	2112A10-02	103	98	93	164177	308444	318817
				154100			
V1212142117.D							
	2112A10-02	101	97	91	165127	300191	309685
				146163			
V1212142118.D							
	2112A10-02	96	94	93	167963	320413	318771
				150486			

(fails) - fails 12hr time check * - fails criteria

Created: Wed Dec 15 09:19:21 2021 MS-12

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142103.D
Acq On : 14 Dec 2021 9:26 am
Operator : RAC
Sample : CCV 8260 050 S
Misc : CCV 8260B_S
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 09:45:29 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	...	7.841	168	205183	50.00	ug/kg	0.00
28) 1,4-Difluorobenzene	...	8.765	114	361601	50.00	ug/kg	0.00
47) Chlorobenzene-d5	...	11.580	117	393659	50.00	ug/kg	0.00
61) 1,4-Dichlorobenzene-d4	...	13.508	152	243154	50.00	ug/kg	0.00
System Monitoring Compounds							
29) Dibromofluoromethane	...	7.732	113	117762	49.55	ug/kg	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 99.10%				
43) Toluene-d8	...	10.270	98	452242	49.78	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.56%				
60) 4-Bromofluorobenzene	...	12.574	95	168451	53.25	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 106.50%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	...	1.713	85	161093	78.27	ug/kg	98
3) Chloromethane	...	1.921	50	319482	60.88	ug/kg	99
4) Vinyl chloride	...	2.059	62	338140	58.18	ug/kg	98
5) Bromomethane	...	2.454	94	450537	54.97	ug/kg	99
6) Chloroethane	...	2.585	64	253692	45.34	ug/kg	98
7) Trichlorofluoromethane	...	2.913	101	214436	53.79	ug/kg#	99
8) Acrolein	...	3.542	56	13066	49.01	ug/kg	99
9) 1,1-Dichloroethene	...	3.667	96	123279	59.71	ug/kg	75
10) Freon-113	...	3.715	101	124167	58.96	ug/kg	98
11) Acetone	...	3.766	58	33536	115.85	ug/kg	65
12) Iodomethane	...	3.882	142	446103	119.32	ug/kg	96
13) Carbon disulfide	...	3.978	76	791868	125.93	ug/kg	100
14) Methyl acetate	...	4.315	43	110150	49.20	ug/kg	93
15) Vinyl acetate	...	5.993	43	633772	119.88	ug/kg	96
16) Methylene chloride	...	4.543	84	138901	56.83	ug/kg	85
17) Acrylonitrile	...	5.018	53	45377	43.94	ug/kg#	89
18) Methyl tert-butyl ether	...	5.085	73	323966	61.23	ug/kg	99
19) trans-1,2-Dichloroethene	...	5.069	96	141277	58.94	ug/kg	81
20) 1,1-Dichloroethane	...	5.913	63	223508	54.69	ug/kg	97
21) 2,2-Dichloropropane	...	6.914	77	163141	57.54	ug/kg	89
22) cis-1,2-Dichloroethene	...	6.930	96	144301	57.37	ug/kg	82
23) 2-Butanone	...	6.949	72	37276	98.31	ug/kg	84
24) Bromochloromethane	...	7.309	128	72766	56.07	ug/kg	77
25) Chloroform	...	7.511	83	205868	53.77	ug/kg	95
26) Cyclohexane	...	7.780	56	209347	56.70	ug/kg#	86
27) 1,1,1-Trichloroethane	...	7.697	97	178790	53.98	ug/kg	94
30) 1,1-Dichloropropene	...	7.934	110	67048	56.27	ug/kg	80
31) Carbon tetrachloride	...	7.912	119	163505	53.17	ug/kg	98
32) Benzene	...	8.185	78	539321	56.61	ug/kg	98
33) 1,2-Dichloroethane	...	8.281	62	134499	52.12	ug/kg#	87
34) Trichloroethene	...	9.013	130	142081	53.85	ug/kg	90
35) Methylcyclohexane	...	9.250	55	162730	55.34	ug/kg#	79
36) 1,2-Dichloropropane	...	9.292	63	135994	53.97	ug/kg	97
37) Dibromomethane	...	9.385	93	83375	53.60	ug/kg	96
38) 1,4-Dioxane	...	9.388	88	14926	384.72	ug/kg#	78
39) Bromodichloromethane	...	9.581	83	152096	53.11	ug/kg	95
40) 2-Chloroethyl vinyl ether	...	10.331	63	43455	104.20	ug/kg#	97
41) cis-1,3-Dichloropropene	...	10.023	75	197647	56.90	ug/kg	96
42) 4-Methyl-2-pentanone	...	10.171	43	344505	92.45	ug/kg	98
44) Toluene	...	10.331	92	337546	57.06	ug/kg	97
45) trans-1,3-Dichloropropene	...	10.569	75	172541	54.32	ug/kg	94
46) 1,1,2-Trichloroethane	...	10.742	83	100521	51.90	ug/kg	99
48) 2-Hexanone	...	10.938	43	252546	99.11	ug/kg	99

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142103.D
Acq On : 14 Dec 2021 9:26 am
Operator : RAC
Sample : CCV 8260 050 S
Misc : CCV 8260B_S
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 09:45:29 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

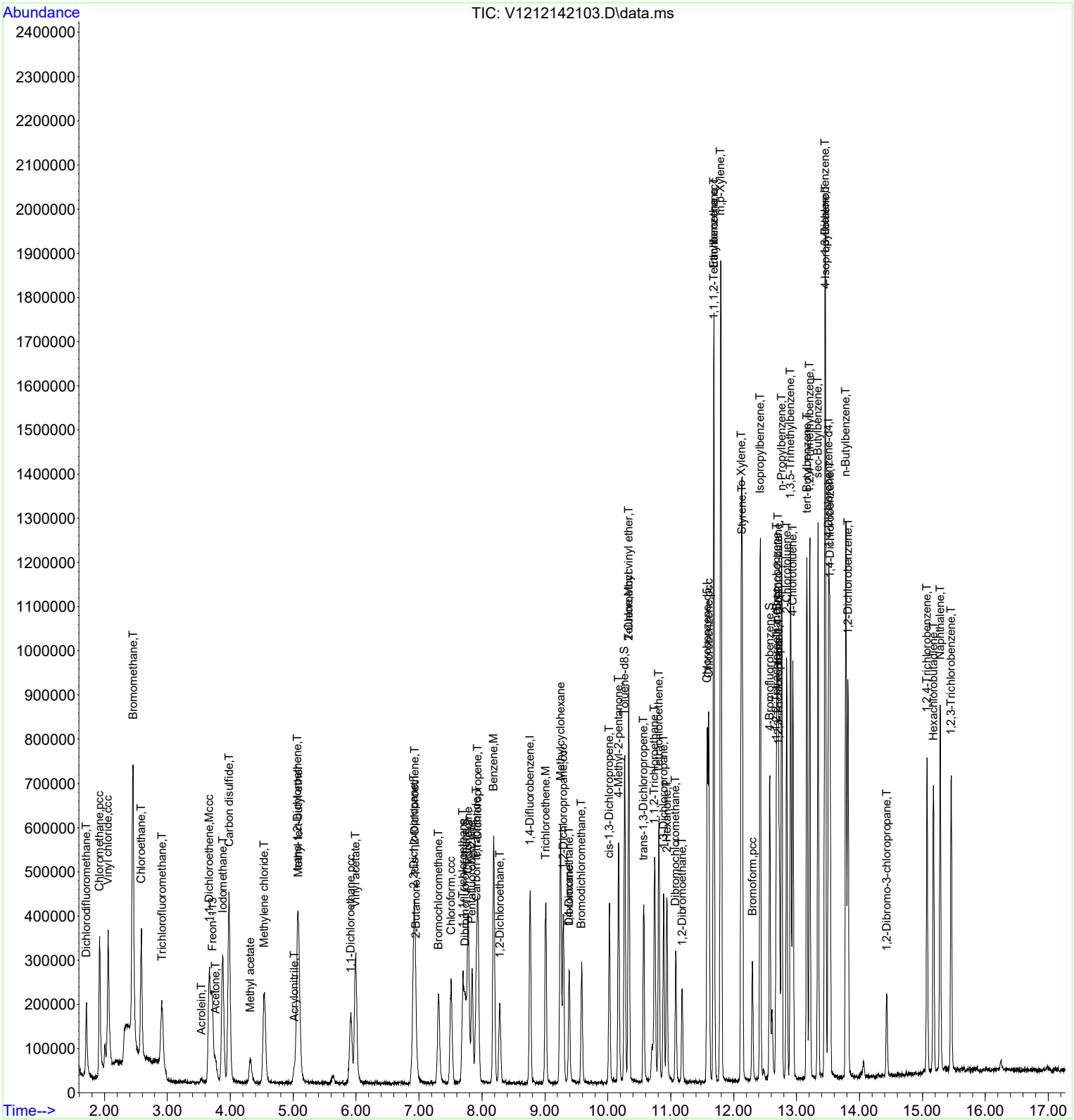
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	10.813	166	141252	49.89	ug/kg	97
50) 1,3-Dichloropropane	10.886	76	198538	51.36	ug/kg	100
51) Dibromochloromethane	11.079	129	133746	51.46	ug/kg	100
52) 1,2-Dibromoethane	11.182	107	119763	49.44	ug/kg	99
53) Chlorobenzene	11.605	112	384937	53.88	ug/kg	91
54) 1,1,1,2-Tetrachloroethane	11.682	131	145452	51.95	ug/kg	99
55) Ethylbenzene	11.685	91	671839	55.05	ug/kg	97
56) m,p-Xylene	11.795	91	1011746	113.76	ug/kg	91
57) o-Xylene	12.122	91	496437	48.79	ug/kg	93
58) Styrene	12.138	104	437038	50.11	ug/kg	86
59) Bromoform	12.298	173	99073	52.42	ug/kg	98
62) Bromobenzene	12.690	156	175034	50.58	ug/kg	90
63) 1,1,2,2-Tetrachloroethane	12.677	83	193740	46.16	ug/kg	97
64) 1,2,3-Trichloropropane	12.719	75	151117m	50.05	ug/kg	
65) Isopropylbenzene	12.424	105	673290	51.80	ug/kg	96
66) n-Propylbenzene	12.764	91	823830	52.38	ug/kg	98
67) trans-1,4-Dichloro-2-butene	12.709	124	31974	102.20	ug/kg#	57
68) 2-Chlorotoluene	12.844	91	435603	51.01	ug/kg	88
69) 4-Chlorotoluene	12.940	91	499727	52.21	ug/kg	93
70) 1,3,5-Trimethylbenzene	12.905	105	527730	50.73	ug/kg	90
71) tert-Butylbenzene	13.165	119	497585	52.04	ug/kg	90
72) 1,2,4-Trimethylbenzene	13.210	105	553522	52.56	ug/kg	94
73) sec-Butylbenzene	13.341	105	756565	52.18	ug/kg	97
74) 1,3-Dichlorobenzene	13.450	146	353890	51.75	ug/kg	95
75) 4-Isopropyltoluene	13.457	119	654877	45.90	ug/kg	95
76) 1,4-Dichlorobenzene	13.531	146	358199	53.17	ug/kg	93
77) 1,2-Dichlorobenzene	13.816	146	329453	52.40	ug/kg	95
78) n-Butylbenzene	13.784	91	561750	52.43	ug/kg	99
79) 1,2-Dibromo-3-chloropropane	14.435	75	32084	39.40	ug/kg	72
80) 1,2,4-Trichlorobenzene	15.074	180	189369	51.41	ug/kg	98
81) Hexachlorobutadiene	15.177	225	97740	47.70	ug/kg	98
82) Naphthalene	15.283	128	572106	52.86	ug/kg	100
83) 1,2,3-Trichlorobenzene	15.456	180	183148	51.77	ug/kg	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142103.D
Acq On : 14 Dec 2021 9:26 am
Operator : RAC
Sample : CCV 8260 050 S
Misc : CCV 8260B_S
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 09:45:29 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142104.D
Acq On : 14 Dec 2021 10:07 am
Operator : RAC
Sample : CCV 8260 005 S
Misc : CCV 8260B_S
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 14 12:09:46 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	...	7.844	168	211093	50.00	ug/kg	0.00
28) 1,4-Difluorobenzene	...	8.762	114	380219	50.00	ug/kg	0.00
47) Chlorobenzene-d5	...	11.579	117	394080	50.00	ug/kg	0.00
61) 1,4-Dichlorobenzene-d4	...	13.511	152	193470	50.00	ug/kg	0.00
System Monitoring Compounds							
29) Dibromofluoromethane	...	7.735	113	120144	48.07	ug/kg	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 96.14%				
43) Toluene-d8	...	10.270	98	475081	49.73	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.46%				
60) 4-Bromofluorobenzene	...	12.574	95	145560	45.97	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 91.94%				
Target Compounds					Qvalue		
2) Dichlorodifluoromethane	...	1.712	85	19342	9.13	ug/kg	99
3) Chloromethane	...	1.924	50	42358	7.85	ug/kg	96
4) Vinyl chloride	...	2.059	62	39696	6.64	ug/kg	87
5) Bromomethane	...	2.453	94	33660	3.99	ug/kg	96
6) Chloroethane	...	2.588	64	26715	4.64	ug/kg#	83
7) Trichlorofluoromethane	...	2.919	101	23397	5.70	ug/kg#	97
8) Acrolein	...	3.567	56	4100	14.95	ug/kg#	17
9) 1,1-Dichloroethene	...	3.673	96	13834	6.51	ug/kg	81
10) Freon-113	...	3.715	101	14026	6.47	ug/kg	96
11) Acetone	...	3.779	58	6348	21.31	ug/kg	80
12) Iodomethane	...	3.875	142	47922	12.46	ug/kg	98
13) Carbon disulfide	...	3.981	76	87988	13.60	ug/kg	100
14) Methyl acetate	...	4.318	43	12149	5.27	ug/kg#	59
15) Vinyl acetate	...	5.996	43	56957	10.47	ug/kg#	77
16) Methylene chloride	...	4.549	84	17589	6.99	ug/kg	81
17) Acrylonitrile	...	0.000	53	0	N.D.		
18) Methyl tert-butyl ether	...	5.085	73	34537	6.35	ug/kg	86
19) trans-1,2-Dichloroethene	...	5.072	96	15105	6.12	ug/kg	83
20) 1,1-Dichloroethane	...	5.916	63	25410	6.04	ug/kg#	91
21) 2,2-Dichloropropane	...	6.910	77	18675	6.40	ug/kg#	54
22) cis-1,2-Dichloroethene	...	6.923	96	14794	5.72	ug/kg	82
23) 2-Butanone	...	0.000	72	0	N.D.		
24) Bromochloromethane	...	7.318	128	9204	6.89	ug/kg	72
25) Chloroform	...	7.514	83	23711	6.02	ug/kg	96
26) Cyclohexane	...	7.780	56	20859	5.49	ug/kg#	84
27) 1,1,1-Trichloroethane	...	7.709	97	21712	6.37	ug/kg	97
30) 1,1-Dichloropropene	...	7.931	110	6893	5.50	ug/kg	93
31) Carbon tetrachloride	...	7.915	119	19197	5.94	ug/kg	100
32) Benzene	...	8.191	78	56604	5.65	ug/kg	96
33) 1,2-Dichloroethane	...	8.284	62	15975	5.89	ug/kg#	77
34) Trichloroethene	...	9.009	130	16310	5.88	ug/kg	87
35) Methylcyclohexane	...	9.250	55	17212	5.57	ug/kg	85
36) 1,2-Dichloropropane	...	9.295	63	14453	5.46	ug/kg#	89
37) Dibromomethane	...	9.381	93	9355	5.72	ug/kg	93
38) 1,4-Dioxane	...	0.000	88	0	N.D.		
39) Bromodichloromethane	...	9.583	83	17595	5.84	ug/kg#	95
40) 2-Chloroethyl vinyl ether	...	10.337	63	5667	12.92	ug/kg#	81
41) cis-1,3-Dichloropropene	...	10.026	75	20246	5.54	ug/kg#	92
42) 4-Methyl-2-pentanone	...	10.174	43	30046	11.30	ug/kg	96
44) Toluene	...	10.331	92	35248	5.67	ug/kg	91
45) trans-1,3-Dichloropropene	...	10.569	75	17986	5.39	ug/kg	92
46) 1,1,2-Trichloroethane	...	10.745	83	10593	5.20	ug/kg	78
48) 2-Hexanone	...	10.941	43	25087	9.83	ug/kg#	93

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Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142104.D
Acq On : 14 Dec 2021 10:07 am
Operator : RAC
Sample : CCV 8260 005 S
Misc : CCV 8260B_S
ALS Vial : 4 Sample Multiplier: 1

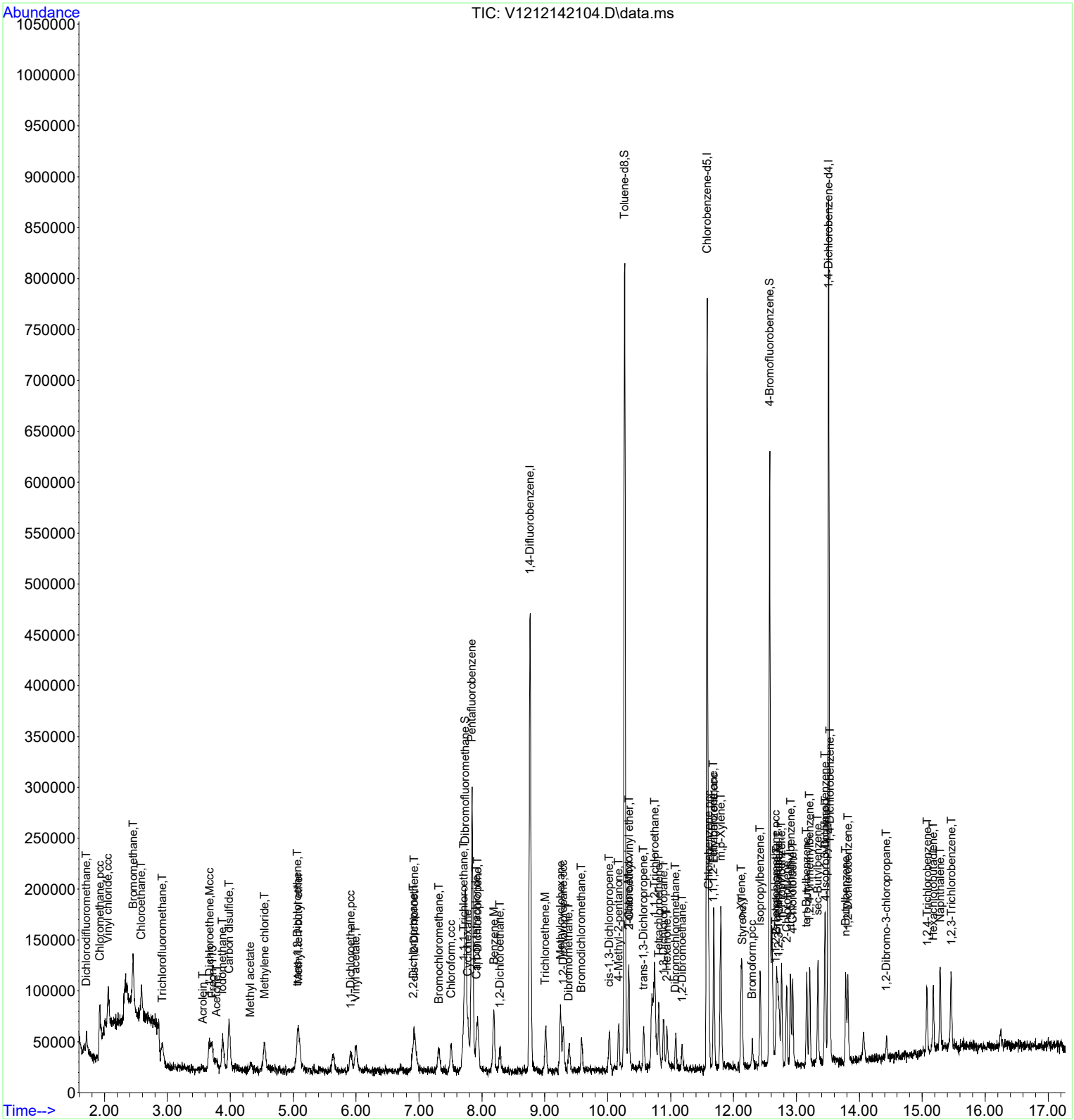
Quant Time: Dec 14 12:09:46 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	...	10.812	166	14972	5.28	ug/kg	98
50) 1,3-Dichloropropane	...	10.893	76	21867	5.65	ug/kg	99
51) Dibromochloromethane	...	11.079	129	13174	5.06	ug/kg	90
52) 1,2-Dibromoethane	...	11.181	107	12244	5.05	ug/kg#	88
53) Chlorobenzene	...	11.605	112	40688	5.69	ug/kg	98
54) 1,1,1,2-Tetrachloroethane	...	11.679	131	14750	5.26	ug/kg	98
55) Ethylbenzene	...	11.685	91	58546	4.79	ug/kg	97
56) m,p-Xylene	...	11.797	91	87451	9.82	ug/kg	92
57) o-Xylene	...	12.122	91	40654	7.26	ug/kg	89
58) Styrene	...	12.141	104	33057	7.83	ug/kg	87
59) Bromoform	...	12.298	173	8781	4.64	ug/kg#	86
62) Bromobenzene	...	12.690	156	17104	6.21	ug/kg	85
63) 1,1,2,2-Tetrachloroethane	...	12.677	83	17697	5.30	ug/kg#	91
64) 1,2,3-Trichloropropane	...	12.718	75	12755m	5.31	ug/kg	
65) Isopropylbenzene	...	12.423	105	52340	5.06	ug/kg	98
66) n-Propylbenzene	...	12.763	91	69232	5.53	ug/kg	99
67) trans-1,4-Dichloro-2-butene	...	0.000	124	0	N.D.		
68) 2-Chlorotoluene	...	12.847	91	35692	5.25	ug/kg	89
69) 4-Chlorotoluene	...	12.940	91	41943	5.51	ug/kg	96
70) 1,3,5-Trimethylbenzene	...	12.908	105	43003	5.20	ug/kg	92
71) tert-Butylbenzene	...	13.161	119	39272	5.16	ug/kg	91
72) 1,2,4-Trimethylbenzene	...	13.209	105	41405	4.94	ug/kg	89
73) sec-Butylbenzene	...	13.341	105	57445	4.98	ug/kg	96
74) 1,3-Dichlorobenzene	...	13.453	146	29899	5.49	ug/kg	94
75) 4-Isopropyltoluene	...	13.463	119	46707	7.89	ug/kg	96
76) 1,4-Dichlorobenzene	...	13.530	146	32226	6.01	ug/kg	95
77) 1,2-Dichlorobenzene	...	13.819	146	28408	5.68	ug/kg	97
78) n-Butylbenzene	...	13.787	91	41998	4.93	ug/kg	96
79) 1,2-Dibromo-3-chloropropane	...	14.432	75	4449	2.83	ug/kg#	53
80) 1,2,4-Trichlorobenzene	...	15.077	180	16717	5.70	ug/kg	91
81) Hexachlorobutadiene	...	15.176	225	9666	5.93	ug/kg	92
82) Naphthalene	...	15.285	128	59237	6.88	ug/kg	100
83) 1,2,3-Trichlorobenzene	...	15.465	180	19897	7.07	ug/kg	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142104.D
Acq On : 14 Dec 2021 10:07 am
Operator : RAC
Sample : CCV 8260 005 S
Misc : CCV 8260B_S
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 14 12:09:46 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142105.D
Acq On : 14 Dec 2021 10:32 am
Operator : RAC
Sample : MB
Misc : MBLK 8260B_S
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 14 11:43:54 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	...	7.841	168	175674	50.00	ug/kg	0.00
28) 1,4-Difluorobenzene	...	8.762	114	327740	50.00	ug/kg	0.00
47) Chlorobenzene-d5	...	11.579	117	348683	50.00	ug/kg	0.00
61) 1,4-Dichlorobenzene-d4	...	13.511	152	159869	50.00	ug/kg	0.00
System Monitoring Compounds							
29) Dibromofluoromethane	...	7.735	113	109642	50.90	ug/kg	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 101.80%				
43) Toluene-d8	...	10.270	98	408530	49.61	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.22%				
60) 4-Bromofluorobenzene	...	12.574	95	123418	44.05	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 88.10%				
Target Compounds					Qvalue		
2) Dichlorodifluoromethane	...	0.000	85	0	N.D.		
3) Chloromethane	...	0.000	50	0	N.D.		
4) Vinyl chloride	...	0.000	62	0	N.D.		
5) Bromomethane	...	0.000	94	0	N.D.		
6) Chloroethane	...	0.000	64	0	N.D. d		
7) Trichlorofluoromethane	...	0.000	101	0	N.D.		
8) Acrolein	...	0.000	56	0	N.D. d		
9) 1,1-Dichloroethene	...	0.000	96	0	N.D.		
10) Freon-113	...	0.000	101	0	N.D.		
11) Acetone	...	3.766	58	3946	15.92	ug/kg#	38
12) Iodomethane	...	0.000	142	0	N.D.		
13) Carbon disulfide	...	0.000	76	0	N.D.		
14) Methyl acetate	...	0.000	43	0	N.D.		
15) Vinyl acetate	...	0.000	43	0	N.D. d		
16) Methylene chloride	...	0.000	84	0	N.D.		
17) Acrylonitrile	...	0.000	53	0	N.D.		
18) Methyl tert-butyl ether	...	0.000	73	0	N.D.		
19) trans-1,2-Dichloroethene	...	0.000	96	0	N.D.		
20) 1,1-Dichloroethane	...	0.000	63	0	N.D.		
21) 2,2-Dichloropropane	...	0.000	77	0	N.D.		
22) cis-1,2-Dichloroethene	...	0.000	96	0	N.D.		
23) 2-Butanone	...	0.000	72	0	N.D.		
24) Bromochloromethane	...	0.000	128	0	N.D.		
25) Chloroform	...	0.000	83	0	N.D.		
26) Cyclohexane	...	0.000	56	0	N.D. d		
27) 1,1,1-Trichloroethane	...	0.000	97	0	N.D.		
30) 1,1-Dichloropropene	...	0.000	110	0	N.D.		
31) Carbon tetrachloride	...	0.000	119	0	N.D.		
32) Benzene	...	0.000	78	0	N.D.		
33) 1,2-Dichloroethane	...	0.000	62	0	N.D.		
34) Trichloroethene	...	0.000	130	0	N.D.		
35) Methylcyclohexane	...	0.000	55	0	N.D.		
36) 1,2-Dichloropropane	...	0.000	63	0	N.D.		
37) Dibromomethane	...	0.000	93	0	N.D.		
38) 1,4-Dioxane	...	0.000	88	0	N.D.		
39) Bromodichloromethane	...	0.000	83	0	N.D.		
40) 2-Chloroethyl vinyl ether	...	0.000	63	0	N.D.		
41) cis-1,3-Dichloropropene	...	0.000	75	0	N.D.		
42) 4-Methyl-2-pentanone	...	0.000	43	0	N.D.		
44) Toluene	...	10.325	92	5246	0.98	ug/kg	97
45) trans-1,3-Dichloropropene	...	0.000	75	0	N.D.		
46) 1,1,2-Trichloroethane	...	0.000	83	0	N.D.		
48) 2-Hexanone	...	0.000	43	0	N.D.		

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142105.D
Acq On : 14 Dec 2021 10:32 am
Operator : RAC
Sample : MB
Misc : MBLK 8260B_S
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 14 11:43:54 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

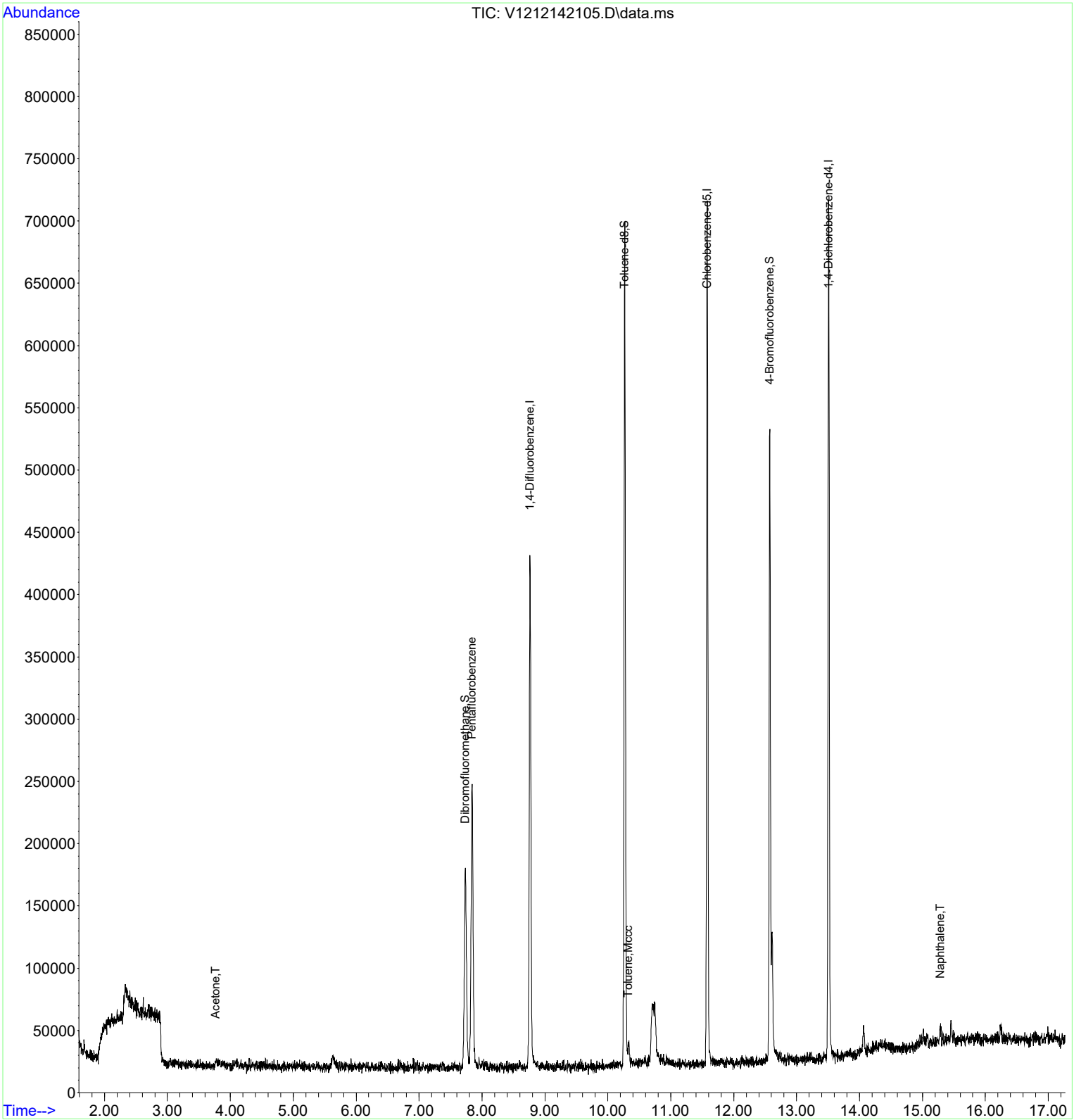
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	...	0.000	166	0		N.D.
50) 1,3-Dichloropropane	...	0.000	76	0		N.D.
51) Dibromochloromethane	...	0.000	129	0		N.D.
52) 1,2-Dibromoethane	...	0.000	107	0		N.D.
53) Chlorobenzene	...	0.000	112	0		N.D.
54) 1,1,1,2-Tetrachloroethane	...	0.000	131	0		N.D.
55) Ethylbenzene	...	0.000	91	0		N.D.
56) m,p-Xylene	...	0.000	91	0		N.D.
57) o-Xylene	...	0.000	91	0		N.D.
58) Styrene	...	0.000	104	0		N.D.
59) Bromoform	...	0.000	173	0		N.D.
62) Bromobenzene	...	0.000	156	0		N.D.
63) 1,1,2,2-Tetrachloroethane	...	0.000	83	0		N.D.
64) 1,2,3-Trichloropropane	...	0.000	75	0		N.D. d
65) Isopropylbenzene	...	0.000	105	0		N.D.
66) n-Propylbenzene	...	0.000	91	0		N.D.
67) trans-1,4-Dichloro-2-butene	...	0.000	124	0		N.D.
68) 2-Chlorotoluene	...	0.000	91	0		N.D.
69) 4-Chlorotoluene	...	0.000	91	0		N.D.
70) 1,3,5-Trimethylbenzene	...	0.000	105	0		N.D.
71) tert-Butylbenzene	...	0.000	119	0		N.D.
72) 1,2,4-Trimethylbenzene	...	0.000	105	0		N.D.
73) sec-Butylbenzene	...	0.000	105	0		N.D.
74) 1,3-Dichlorobenzene	...	0.000	146	0		N.D.
75) 4-Isopropyltoluene	...	0.000	119	0		N.D.
76) 1,4-Dichlorobenzene	...	0.000	146	0		N.D.
77) 1,2-Dichlorobenzene	...	0.000	146	0		N.D.
78) n-Butylbenzene	...	0.000	91	0		N.D.
79) 1,2-Dibromo-3-chloropropane	...	0.000	75	0		N.D.
80) 1,2,4-Trichlorobenzene	...	0.000	180	0		N.D.
81) Hexachlorobutadiene	...	0.000	225	0		N.D.
82) Naphthalene	...	15.286	128	9705	1.36 ug/kg	100
83) 1,2,3-Trichlorobenzene	...	0.000	180	0		N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142105.D
Acq On : 14 Dec 2021 10:32 am
Operator : RAC
Sample : MB
Misc : MBLK 8260B_S
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 14 11:43:54 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142112.D
Acq On : 14 Dec 2021 1:26 pm
Operator : RAC
Sample : 2112G62-004A 3.54 1/3
Misc : SAMP 8260_TCL4.2_S
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 14 14:45:55 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.840	168	158502	50.00	ug/kg	0.00
28) 1,4-Difluorobenzene	8.764	114	287453	50.00	ug/kg	0.00
47) Chlorobenzene-d5	11.582	117	220916	50.00	ug/kg	0.00
61) 1,4-Dichlorobenzene-d4	13.507	152	56635	50.00	ug/kg	0.00
System Monitoring Compounds						
29) Dibromofluoromethane	7.734	113	89532	47.39	ug/kg	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 94.78%			
43) Toluene-d8	10.269	98	326034	45.14	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 90.28%			
60) 4-Bromofluorobenzene	12.573	95	62414	35.16	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 70.32%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000	85	0	N.D.		
3) Chloromethane	0.000	50	0	N.D.		
4) Vinyl chloride	0.000	62	0	N.D.		
5) Bromomethane	0.000	94	0	N.D. d		
6) Chloroethane	0.000	64	0	N.D.		
7) Trichlorofluoromethane	0.000	101	0	N.D.		
8) Acrolein	0.000	56	0	N.D. d		
9) 1,1-Dichloroethene	0.000	96	0	N.D.		
10) Freon-113	0.000	101	0	N.D.		
11) Acetone	3.762	58	11582	51.79	ug/kg	98
12) Iodomethane	0.000	142	0	N.D.		
13) Carbon disulfide	3.983	76	16122	3.32	ug/kg	100
14) Methyl acetate	4.323	43	17841	10.32	ug/kg#	90
15) Vinyl acetate	0.000	43	0	N.D.		
16) Methylene chloride	0.000	84	0	N.D.		
17) Acrylonitrile	5.032	53	8403	10.53	ug/kg#	49
18) Methyl tert-butyl ether	0.000	73	0	N.D.		
19) trans-1,2-Dichloroethene	0.000	96	0	N.D.		
20) 1,1-Dichloroethane	0.000	63	0	N.D.		
21) 2,2-Dichloropropane	0.000	77	0	N.D.		
22) cis-1,2-Dichloroethene	0.000	96	0	N.D.		
23) 2-Butanone	0.000	72	0	N.D.		
24) Bromochloromethane	0.000	128	0	N.D.		
25) Chloroform	0.000	83	0	N.D.		
26) Cyclohexane	0.000	56	0	N.D. d		
27) 1,1,1-Trichloroethane	0.000	97	0	N.D.		
30) 1,1-Dichloropropene	0.000	110	0	N.D.		
31) Carbon tetrachloride	0.000	119	0	N.D.		
32) Benzene	8.187	78	38171	5.04	ug/kg	100
33) 1,2-Dichloroethane	0.000	62	0	N.D.		
34) Trichloroethene	0.000	130	0	N.D.		
35) Methylcyclohexane	0.000	55	0	N.D.		
36) 1,2-Dichloropropane	0.000	63	0	N.D.		
37) Dibromomethane	0.000	93	0	N.D.		
38) 1,4-Dioxane	0.000	88	0	N.D.		
39) Bromodichloromethane	0.000	83	0	N.D.		
40) 2-Chloroethyl vinyl ether	0.000	63	0	N.D. d		
41) cis-1,3-Dichloropropene	0.000	75	0	N.D.		
42) 4-Methyl-2-pentanone	10.173	43	7022	6.23	ug/kg#	80
44) Toluene	10.333	92	41237	8.77	ug/kg	94
45) trans-1,3-Dichloropropene	0.000	75	0	N.D.		
46) 1,1,2-Trichloroethane	0.000	83	0	N.D.		
48) 2-Hexanone	0.000	43	0	N.D. d		

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Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142112.D
Acq On : 14 Dec 2021 1:26 pm
Operator : RAC
Sample : 2112G62-004A 3.54 1/3
Misc : SAMP 8260_TCL4.2_S
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 14 14:45:55 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

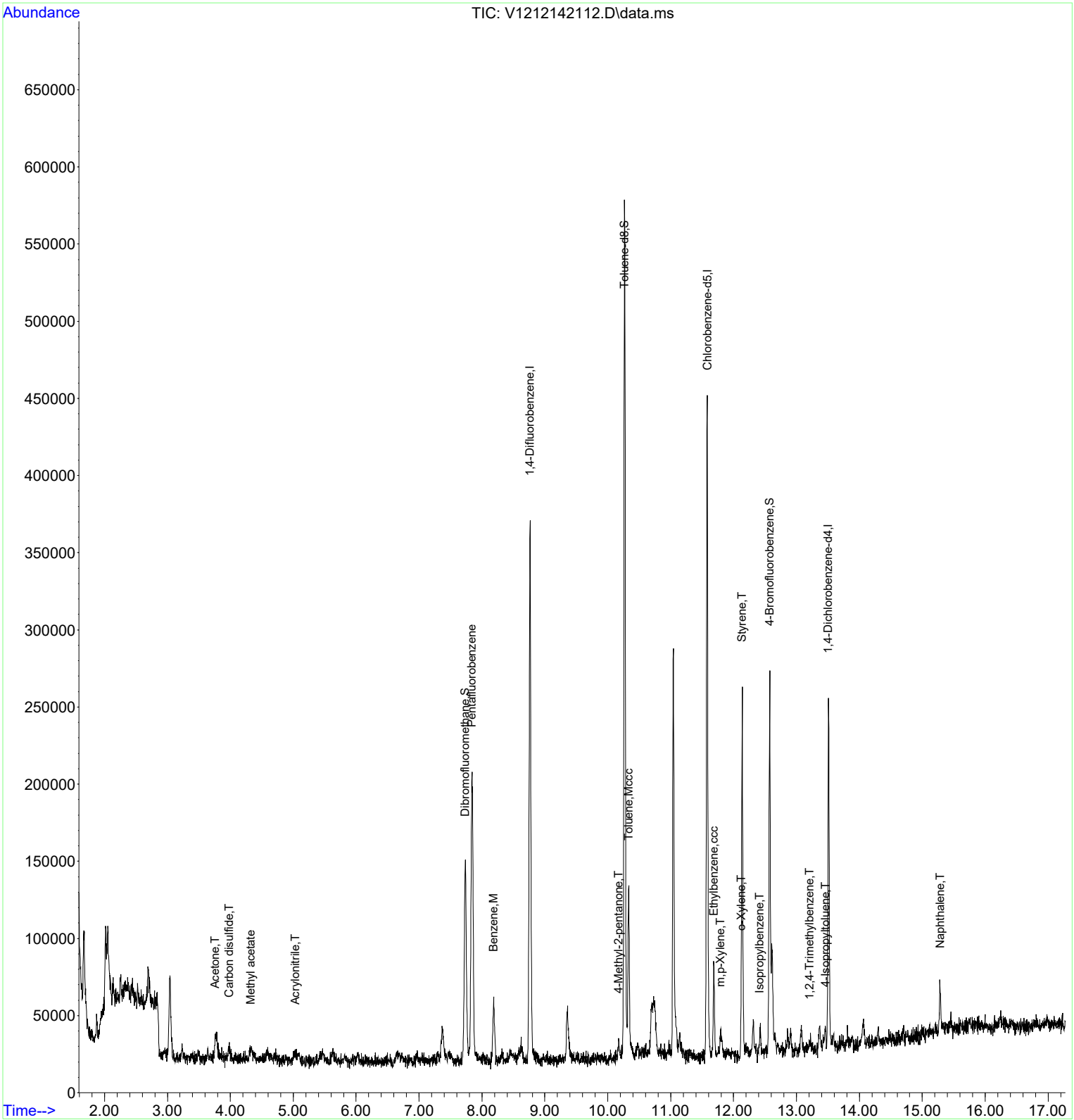
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	0.000	166	0	N.D.		
50) 1,3-Dichloropropane	0.000	76	0	N.D.		
51) Dibromochloromethane	0.000	129	0	N.D.		
52) 1,2-Dibromoethane	0.000	107	0	N.D.		
53) Chlorobenzene	0.000	112	0	N.D.		
54) 1,1,1,2-Tetrachloroethane	0.000	131	0	N.D.		
55) Ethylbenzene	11.684	91	34716	5.07	ug/kg	100
56) m,p-Xylene	11.790	91	7062	1.41	ug/kg	94
57) o-Xylene	12.121	91	4980	4.37	ug/kg#	29
58) Styrene	12.137	104	98577	22.75	ug/kg	80
59) Bromoform	0.000	173	0	N.D.		
62) Bromobenzene	0.000	156	0	N.D.		
63) 1,1,2,2-Tetrachloroethane	0.000	83	0	N.D.		
64) 1,2,3-Trichloropropane	0.000	75	0	N.D. d		
65) Isopropylbenzene	12.419	105	4633	1.53	ug/kg#	48
66) n-Propylbenzene	0.000	91	0	N.D.		
67) trans-1,4-Dichloro-2-butene	0.000	124	0	N.D.		
68) 2-Chlorotoluene	0.000	91	0	N.D.		
69) 4-Chlorotoluene	0.000	91	0	N.D.		
70) 1,3,5-Trimethylbenzene	0.000	105	0	N.D. d		
71) tert-Butylbenzene	0.000	119	0	N.D. d		
72) 1,2,4-Trimethylbenzene	13.209	105	3832	1.56	ug/kg#	31
73) sec-Butylbenzene	0.000	105	0	N.D.		
74) 1,3-Dichlorobenzene	0.000	146	0	N.D.		
75) 4-Isopropyltoluene	13.462	119	7524	6.21	ug/kg#	50
76) 1,4-Dichlorobenzene	0.000	146	0	N.D.		
77) 1,2-Dichlorobenzene	0.000	146	0	N.D.		
78) n-Butylbenzene	0.000	91	0	N.D.		
79) 1,2-Dibromo-3-chloropropane	0.000	75	0	N.D.		
80) 1,2,4-Trichlorobenzene	0.000	180	0	N.D.		
81) Hexachlorobutadiene	0.000	225	0	N.D.		
82) Naphthalene	15.285	128	21755	8.63	ug/kg	100
83) 1,2,3-Trichlorobenzene	0.000	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142112.D
Acq On : 14 Dec 2021 1:26 pm
Operator : RAC
Sample : 2112G62-004A 3.54 1/3
Misc : SAMP 8260_TCL4.2_S
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 14 14:45:55 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142113.D
Acq On : 14 Dec 2021 1:50 pm
Operator : RAC
Sample : 2112G62-005A 4.10 1/3
Misc : SAMP 8260_TCL4.2_S
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 14 14:44:23 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	...	7.844	168	144960	50.00	ug/kg	0.00
28) 1,4-Difluorobenzene	...	8.762	114	270143	50.00	ug/kg	0.00
47) Chlorobenzene-d5	...	11.579	117	207889	50.00	ug/kg	0.00
61) 1,4-Dichlorobenzene-d4	...	13.511	152	54317	50.00	ug/kg	0.00
System Monitoring Compounds							
29) Dibromofluoromethane	...	7.742	113	89968	50.67	ug/kg	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 101.34%				
43) Toluene-d8	...	10.267	98	302486	44.56	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 89.12%				
60) 4-Bromofluorobenzene	...	12.571	95	59347	35.53	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 71.06%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	...	0.000	85	0	N.D.		
3) Chloromethane	...	1.924	50	38575	10.40	ug/kg	99
4) Vinyl chloride	...	0.000	62	0	N.D.		
5) Bromomethane	...	0.000	94	0	N.D.	d	
6) Chloroethane	...	2.588	64	27677	7.00	ug/kg	93
7) Trichlorofluoromethane	...	0.000	101	0	N.D.		
8) Acrolein	...	0.000	56	0	N.D.	d	
9) 1,1-Dichloroethene	...	0.000	96	0	N.D.		
10) Freon-113	...	0.000	101	0	N.D.		
11) Acetone	...	3.763	58	31021	151.68	ug/kg	77
12) Iodomethane	...	0.000	142	0	N.D.		
13) Carbon disulfide	...	3.981	76	33192	7.47	ug/kg	100
14) Methyl acetate	...	4.321	43	16098	10.18	ug/kg#	59
15) Vinyl acetate	...	0.000	43	0	N.D.		
16) Methylene chloride	...	0.000	84	0	N.D.		
17) Acrylonitrile	...	5.030	53	12283	16.84	ug/kg	96
18) Methyl tert-butyl ether	...	0.000	73	0	N.D.		
19) trans-1,2-Dichloroethene	...	0.000	96	0	N.D.		
20) 1,1-Dichloroethane	...	0.000	63	0	N.D.		
21) 2,2-Dichloropropane	...	0.000	77	0	N.D.		
22) cis-1,2-Dichloroethene	...	0.000	96	0	N.D.		
23) 2-Butanone	...	0.000	72	0	N.D.	d	
24) Bromochloromethane	...	0.000	128	0	N.D.		
25) Chloroform	...	0.000	83	0	N.D.		
26) Cyclohexane	...	0.000	56	0	N.D.		
27) 1,1,1-Trichloroethane	...	0.000	97	0	N.D.		
30) 1,1-Dichloropropene	...	0.000	110	0	N.D.		
31) Carbon tetrachloride	...	0.000	119	0	N.D.		
32) Benzene	...	8.188	78	81342	11.43	ug/kg	95
33) 1,2-Dichloroethane	...	8.281	62	33582	17.42	ug/kg#	85
34) Trichloroethene	...	0.000	130	0	N.D.		
35) Methylcyclohexane	...	0.000	55	0	N.D.	d	
36) 1,2-Dichloropropane	...	0.000	63	0	N.D.		
37) Dibromomethane	...	0.000	93	0	N.D.		
38) 1,4-Dioxane	...	0.000	88	0	N.D.		
39) Bromodichloromethane	...	0.000	83	0	N.D.		
40) 2-Chloroethyl vinyl ether	...	0.000	63	0	N.D.	d	
41) cis-1,3-Dichloropropene	...	0.000	75	0	N.D.		
42) 4-Methyl-2-pentanone	...	10.167	43	6937	6.34	ug/kg#	50
44) Toluene	...	10.331	92	74052	16.75	ug/kg	99
45) trans-1,3-Dichloropropene	...	0.000	75	0	N.D.		
46) 1,1,2-Trichloroethane	...	0.000	83	0	N.D.	d	
48) 2-Hexanone	...	0.000	43	0	N.D.	d	

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142113.D
Acq On : 14 Dec 2021 1:50 pm
Operator : RAC
Sample : 2112G62-005A 4.10 1/3
Misc : SAMP 8260_TCL4.2_S
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 14 14:44:23 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

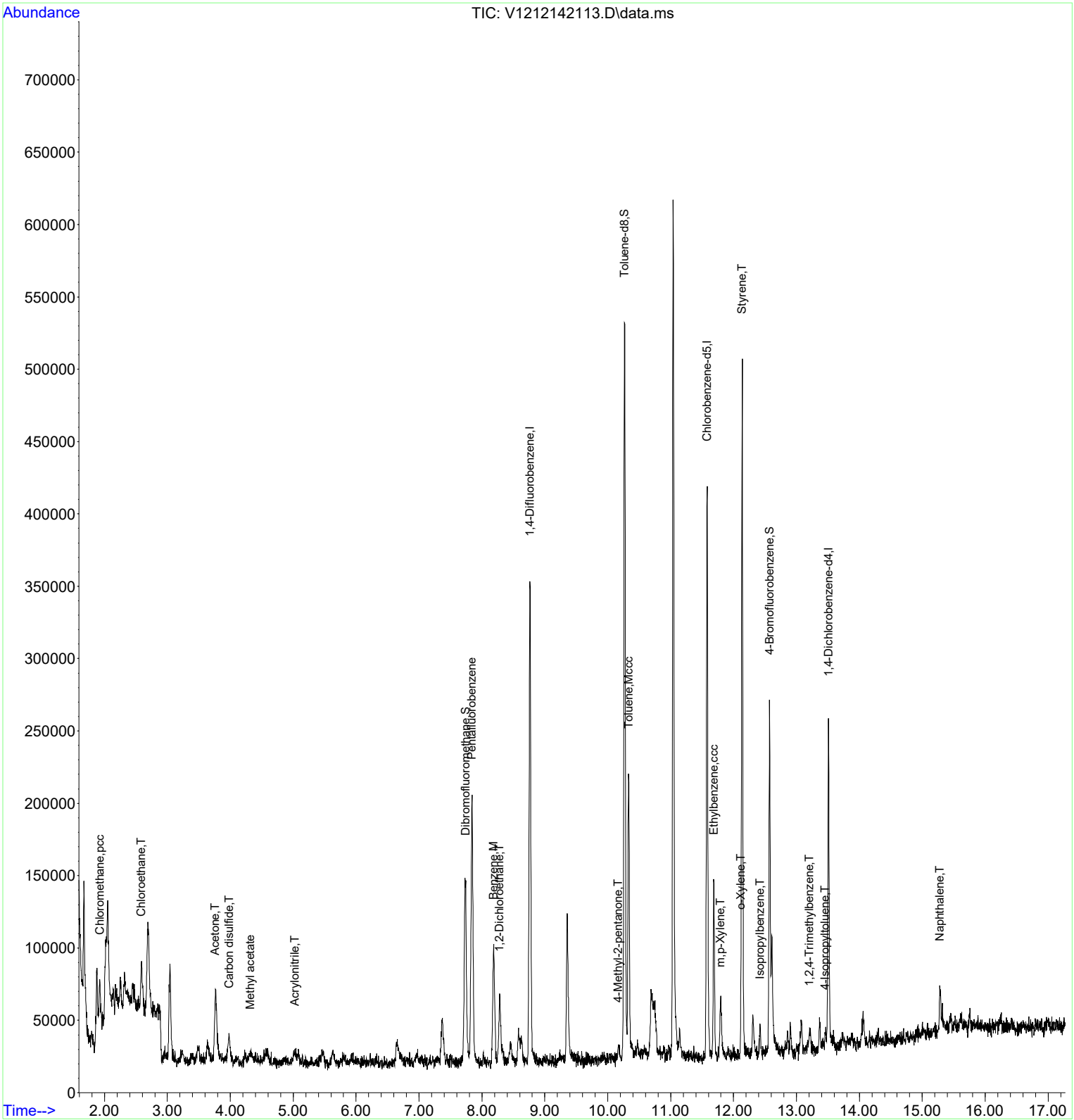
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	0.000	166	0	N.D.		
50) 1,3-Dichloropropane	0.000	76	0	N.D.		
51) Dibromochloromethane	0.000	129	0	N.D.		
52) 1,2-Dibromoethane	0.000	107	0	N.D.		
53) Chlorobenzene	0.000	112	0	N.D.		
54) 1,1,1,2-Tetrachloroethane	0.000	131	0	N.D.		
55) Ethylbenzene	11.685	91	70841	10.99	ug/kg	98
56) m,p-Xylene	11.791	91	17353	3.69	ug/kg	88
57) o-Xylene	12.118	91	9961	5.28	ug/kg	98
58) Styrene	12.138	104	207682	45.53	ug/kg#	76
59) Bromoform	0.000	173	0	N.D.		
62) Bromobenzene	0.000	156	0	N.D.		
63) 1,1,2,2-Tetrachloroethane	0.000	83	0	N.D.		
64) 1,2,3-Trichloropropane	0.000	75	0	N.D. d		
65) Isopropylbenzene	12.423	105	8681	2.99	ug/kg#	48
66) n-Propylbenzene	0.000	91	0	N.D.		
67) trans-1,4-Dichloro-2-butene	0.000	124	0	N.D.		
68) 2-Chlorotoluene	0.000	91	0	N.D. d		
69) 4-Chlorotoluene	0.000	91	0	N.D. d		
70) 1,3,5-Trimethylbenzene	0.000	105	0	N.D. d		
71) tert-Butylbenzene	0.000	119	0	N.D. d		
72) 1,2,4-Trimethylbenzene	13.206	105	8445	3.59	ug/kg	92
73) sec-Butylbenzene	0.000	105	0	N.D. d		
74) 1,3-Dichlorobenzene	0.000	146	0	N.D.		
75) 4-Isopropyltoluene	13.457	119	5621	5.76	ug/kg#	50
76) 1,4-Dichlorobenzene	0.000	146	0	N.D.		
77) 1,2-Dichlorobenzene	0.000	146	0	N.D.		
78) n-Butylbenzene	0.000	91	0	N.D.		
79) 1,2-Dibromo-3-chloropropane	0.000	75	0	N.D.		
80) 1,2,4-Trichlorobenzene	0.000	180	0	N.D.		
81) Hexachlorobutadiene	0.000	225	0	N.D.		
82) Naphthalene	15.279	128	19623	8.12	ug/kg	100
83) 1,2,3-Trichlorobenzene	0.000	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142113.D
Acq On : 14 Dec 2021 1:50 pm
Operator : RAC
Sample : 2112G62-005A 4.10 1/3
Misc : SAMP 8260_TCL4.2_S
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 14 14:44:23 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration



Injection Log

Directory: C:\MS-12\New\Raw Data\211214

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	V1212142101.D	1.	MB	BLANK	14 Dec 2021 08:22
2	2	V1212142102.D	1.	CCV 8260 050 S	CCV 8260B_S	14 Dec 2021 08:47
3	3	V1212142103.D	1.	LCS-327330	LCS1 8260_TCL4.2_S	14 Dec 2021 09:26
4	4	V1212142104.D	1.	CCV 8260 005 S	CCV 8260B_S	14 Dec 2021 10:07
5	5	V1212142105.D	1.	MB-327330	MBLK 8260_TCL4.2_S	14 Dec 2021 10:32
6	6	V1212142106.D	1.	2112F69-001AMS 7.61 2/3	MS 8260_TCL4.2_S	14 Dec 2021 10:56
7	7	V1212142107.D	1.	2112F69-002ADUP 7.02 2/3	DUP 8260_TCL4.2_S	14 Dec 2021 11:21
8	8	V1212142108.D	1.	2112A10-019A 7.45 1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 11:46
9	9	V1212142109.D	1.	2112A10-020A 8.41 1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 12:11
10	10	V1212142110.D	1.	2112A10-021A 7.54 1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 12:36
11	11	V1212142111.D	1.	2112A10-022A 8.47 1/6	SAMP 8260_TCL4.2_S	14 Dec 2021 13:01
12	12	V1212142112.D	1.	2112G62-004A 3.54 1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 13:26
13	13	V1212142113.D	1.	2112G62-005A 4.10 1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 13:50
14	14	V1212142114.D	1.	2112H10-011A 7.25 1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 14:15
15	15	V1212142115.D	1.	2112H10-012A 7.62 1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 14:40
16	16	V1212142116.D	1.	2112A10-023A 7.34 1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 15:04
17	17	V1212142117.D	1.	2112A10-024A 8.29 1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 15:29
18	18	V1212142118.D	1.	2112A10-025A 7.43 1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 15:54
19	19	V1212142119.D	1.	MB	BLANK	14 Dec 2021 16:19
20	20	V1212142120.D	1.	LCS-327386	LCS 8260_TCL4.2_S	14 Dec 2021 16:44
21	21	V1212142121.D	1.	CCV 8260 005 S	CCV 8260B_S	14 Dec 2021 17:22
22	22	V1212142122.D	1.	MB-327386	MBLK 8260_TCL4.2_S	14 Dec 2021 17:47
23	23	V1212142123.D	1.	2112C29-012A 6.83 1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 18:11
24	24	V1212142124.D	1.	2112G62-006A 6.35	SAMP 8260_TCL4.2_S	14 Dec 2021 18:36
25	25	V1212142125.D	1.	2112G62-006AMS 3.55	MS1 8260_TCL4.2_S	14 Dec 2021 19:00
26	26	V1212142126.D	1.	2112G62-006AMSD 4.33	MSD1 8260_TCL4.2_S	14 Dec 2021 19:25
27	27	V1212142127.D	1.	2112G62-006A 3.67	SAMP 8260_TCL4.2_S	14 Dec 2021 19:50
28	28	V1212142128.D	1.	2112G62-005A 3.43 RR	SAMP 8260_TCL4.2_S	14 Dec 2021 20:14
29	29	V1212142129.D	1.	2112G62-007A 4.42	SAMP 8260_TCL4.2_S	14 Dec 2021 20:39
30	30	V1212142130.D	1.	2112G62-008A 2.36	SAMP 8260_TCL4.2_S	14 Dec 2021 21:04
31	31	V1212142131.D	1.	2112G62-009A 4.99	SAMP 8260_TCL4.2_S	14 Dec 2021 21:28

Injection Log

Directory: C:\MS-12\New\Raw Data\211214

Line	Vial	FileName	Multiplier	SampleName			Misc Info	Injected
32	32	V1212142132.D	1.	2112C29-013A	8.54	1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 21:53
33	33	V1212142133.D	1.	2112C29-014A	7.29	1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 22:18
34	34	V1212142134.D	1.	2112C29-015A	7.43	1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 22:43
35	35	V1212142135.D	1.	2112C29-016A	7.12	1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 23:08
36	36	V1212142136.D	1.	2112F13-002A	7.90	1/3	SAMP 8260_SC_S	14 Dec 2021 23:33
37	37	V1212142137.D	1.	2112F13-004A	7.16	1/3	SAMP 8260_SC_S	14 Dec 2021 23:57
38	38	V1212142138.D	1.	2112F13-006A	6.60	1/3	SAMP 8260_SC_S	15 Dec 2021 00:22
39	39	V1212142139.D	1.	2112F13-008A	5.70	1/3	SAMP 8260_SC_S	15 Dec 2021 00:47
40		V1212142140.D	1.					

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Injection Log

Directory: C:\MS-12\New\Raw Data\211214

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	V1212142101.D	1.	MB	BLANK	14 Dec 2021 08:22
2	2	V1212142102.D	1.	CCV 8260 050 S	CCV 8260B_S	14 Dec 2021 08:47
3	3	V1212142103.D	1.	LCS-327330	LCS1 8260_TCL4.2_S	14 Dec 2021 09:26
4	4	V1212142104.D	1.	CCV 8260 005 S	CCV 8260B_S	14 Dec 2021 10:07
5	5	V1212142105.D	1.	MB-327330	MBLK 8260_TCL4.2_S	14 Dec 2021 10:32
6	6	V1212142106.D	1.	2112F69-001AMS 7.61 2/3	MS 8260_TCL4.2_S	14 Dec 2021 10:56
7	7	V1212142107.D	1.	2112F69-002ADUP 7.02 2/3	DUP 8260_TCL4.2_S	14 Dec 2021 11:21
8	8	V1212142108.D	1.	2112A10-019A 7.45 1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 11:46
9	9	V1212142109.D	1.	2112A10-020A 8.41 1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 12:11
10	10	V1212142110.D	1.	2112A10-021A 7.54 1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 12:36
11	11	V1212142111.D	1.	2112A10-022A 8.47 1/6	SAMP 8260_TCL4.2_S	14 Dec 2021 13:01
12	12	V1212142112.D	1.	2112G62-004A 3.54 1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 13:26
13	13	V1212142113.D	1.	2112G62-005A 4.10 1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 13:50
14	14	V1212142114.D	1.	2112H10-011A 7.25 1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 14:15
15	15	V1212142115.D	1.	2112H10-012A 7.62 1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 14:40
16	16	V1212142116.D	1.	2112A10-023A 7.34 1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 15:04
17	17	V1212142117.D	1.	2112A10-024A 8.29 1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 15:29
18	18	V1212142118.D	1.	2112A10-025A 7.43 1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 15:54
19	19	V1212142119.D	1.	MB	BLANK	14 Dec 2021 16:19
20	20	V1212142120.D	1.	LCS-327386	LCS 8260_TCL4.2_S	14 Dec 2021 16:44
21	21	V1212142121.D	1.	CCV 8260 005 S	CCV 8260B_S	14 Dec 2021 17:22
22	22	V1212142122.D	1.	MB-327386	MBLK 8260_TCL4.2_S	14 Dec 2021 17:47
23	23	V1212142123.D	1.	2112C29-012A 6.83 1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 18:11
24	24	V1212142124.D	1.	2112G62-006A 6.35	SAMP 8260_TCL4.2_S	14 Dec 2021 18:36
25	25	V1212142125.D	1.	2112G62-006AMS 3.55	MS1 8260_TCL4.2_S	14 Dec 2021 19:00
26	26	V1212142126.D	1.	2112G62-006AMSD 4.33	MSD1 8260_TCL4.2_S	14 Dec 2021 19:25
27	27	V1212142127.D	1.	2112G62-006A 3.67	SAMP 8260_TCL4.2_S	14 Dec 2021 19:50
28	28	V1212142128.D	1.	2112G62-005A 3.43 RR	SAMP 8260_TCL4.2_S	14 Dec 2021 20:14
29	29	V1212142129.D	1.	2112G62-007A 4.42	SAMP 8260_TCL4.2_S	14 Dec 2021 20:39
30	30	V1212142130.D	1.	2112G62-008A 2.36	SAMP 8260_TCL4.2_S	14 Dec 2021 21:04
31	31	V1212142131.D	1.	2112G62-009A 4.99	SAMP 8260_TCL4.2_S	14 Dec 2021 21:28

Injection Log

Directory: C:\MS-12\New\Raw Data\211214

Line	Vial	FileName	Multiplier	SampleName			Misc Info	Injected
32	32	V1212142132.D	1.	2112C29-013A	8.54	1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 21:53
33	33	V1212142133.D	1.	2112C29-014A	7.29	1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 22:18
34	34	V1212142134.D	1.	2112C29-015A	7.43	1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 22:43
35	35	V1212142135.D	1.	2112C29-016A	7.12	1/3	SAMP 8260_TCL4.2_S	14 Dec 2021 23:08
36	36	V1212142136.D	1.	2112F13-002A	7.90	1/3	SAMP 8260_SC_S	14 Dec 2021 23:33
37	37	V1212142137.D	1.	2112F13-004A	7.16	1/3	SAMP 8260_SC_S	14 Dec 2021 23:57
38	38	V1212142138.D	1.	2112F13-006A	6.60	1/3	SAMP 8260_SC_S	15 Dec 2021 00:22
39	39	V1212142139.D	1.	2112F13-008A	5.70	1/3	SAMP 8260_SC_S	15 Dec 2021 00:47
40		V1212142140.D	1.					

pH<2 HCl

Loaded by AA

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142120.D
Acq On : 14 Dec 2021 4:44 pm
Operator : RAC
Sample : CCV 8260 050 S
Misc : CCV 8260B_S
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 15 09:02:10 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	98	0.00
2	T	Dichlorodifluoromethane	50.000	64.958	-29.9#	120	0.00
3	pcc	Chloromethane	50.000	52.686	-5.4	97	0.00
4	ccc	Vinyl chloride	50.000	47.742	4.5	85	0.00
5	T	Bromomethane	50.000	53.928	-7.9	92	0.02
6	T	Chloroethane	50.000	39.221	21.6#	78	0.02
7	T	Trichlorofluoromethane	50.000	47.488	5.0	80	0.02
8	T	Acrolein	50.000	45.078	9.8	97	0.00
9	Mccc	1,1-Dichloroethene	50.000	55.673	-11.3	106	0.01
10		Freon-113	50.000	54.310	-8.6	104	0.00
11	T	Acetone	100.000	107.872	-7.9	102	0.00
12	T	Iodomethane	100.000	111.778	-11.8	112	0.00
13	T	Carbon disulfide	100.000	116.199	-16.2	115	0.01
14		Methyl acetate	50.000	50.741	-1.5	102	0.00
15	T	Vinyl acetate	100.000	109.338	-9.3	102	0.00
16	T	Methylene chloride	50.000	55.219	-10.4	108	0.00
17	T	Acrylonitrile	50.000	52.147	-4.3	100	0.02
18		Methyl tert-butyl ether	50.000	59.700	-19.4	111	0.00
19	T	trans-1,2-Dichloroethene	50.000	56.412	-12.8	110	0.00
20	pcc	1,1-Dichloroethane	50.000	53.413	-6.8	103	0.00
21	T	2,2-Dichloropropane	50.000	54.292	-8.6	107	0.00
22	T	cis-1,2-Dichloroethene	50.000	55.889	-11.8	106	0.00
23	T	2-Butanone	100.000	100.500	-0.5	100	0.00
24	T	Bromochloromethane	50.000	53.581	-7.2	103	0.00
25	ccc	Chloroform	50.000	51.744	-3.5	99	0.00
26		Cyclohexane	50.000	55.510	-11.0	103	0.00
27	T	1,1,1-Trichloroethane	50.000	52.665	-5.3	98	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	99	0.00
29	S	Dibromofluoromethane	50.000	49.897	0.2	101	0.00
30	T	1,1-Dichloropropene	50.000	53.207	-6.4	104	0.00
31	T	Carbon tetrachloride	50.000	52.748	-5.5	102	0.00
32	M	Benzene	50.000	53.851	-7.7	106	0.00
33	T	1,2-Dichloroethane	50.000	50.075	-0.2	94	0.00
34	M	Trichloroethene	50.000	50.040	-0.1	101	0.00
35		Methylcyclohexane	50.000	53.395	-6.8	103	0.00
36	ccc	1,2-Dichloropropane	50.000	52.197	-4.4	100	0.00
37	T	Dibromomethane	50.000	53.268	-6.5	101	0.00
38		1,4-Dioxane	500.000	482.927	3.4	97	0.00
39	T	Bromodichloromethane	50.000	53.761	-7.5	101	0.00
40	T	2-Chloroethyl vinyl ether	100.000	100.370	-0.4	101	0.00
41	T	cis-1,3-Dichloropropene	50.000	54.536	-9.1	100	0.00
42	T	4-Methyl-2-pentanone	100.000	99.068	0.9	98	0.00
43	S	Toluene-d8	50.000	51.098	-2.2	100	0.00
44	Mccc	Toluene	50.000	54.446	-8.9	102	0.00
45	T	trans-1,3-Dichloropropene	50.000	54.513	-9.0	100	0.00
46	T	1,1,2-Trichloroethane	50.000	51.668	-3.3	101	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	101	0.00
48	T	2-Hexanone	100.000	108.864	-8.9	105	0.00
49	T	Tetrachloroethene	50.000	49.058	1.9	103	0.00
50	T	1,3-Dichloropropane	50.000	52.928	-5.9	103	0.00
51	T	Dibromochloromethane	50.000	52.680	-5.4	102	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142120.D
Acq On : 14 Dec 2021 4:44 pm
Operator : RAC
Sample : CCV 8260 050 S
Misc : CCV 8260B_S
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 15 09:02:10 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	50.000	53.153	-6.3	100	0.00
53	pcc	Chlorobenzene	50.000	53.543	-7.1	104	0.00
54	T	1,1,1,2-Tetrachloroethane	50.000	52.060	-4.1	103	0.00
55	ccc	Ethylbenzene	50.000	52.683	-5.4	101	0.00
56	T	m,p-Xylene	100.000	110.502	-10.5	104	0.00
57	T	o-Xylene	50.000	48.843	2.3	103	0.00
58	T	Styrene	50.000	47.475	5.0	101	0.00
59	pcc	Bromoform	50.000	54.024	-8.0	100	0.00
60	S	4-Bromofluorobenzene	50.000	51.982	-4.0	103	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	105	0.00
62	T	Bromobenzene	50.000	49.548	0.9	104	0.00
63	pcc	1,1,2,2-Tetrachloroethane	50.000	49.425	1.2	105	0.00
64	T	1,2,3-Trichloropropane	50.000	49.279	1.4	107	0.00
65	T	Isopropylbenzene	50.000	50.818	-1.6	104	0.00
66	T	n-Propylbenzene	50.000	51.533	-3.1	104	0.00
67	T	trans-1,4-Dichloro-2-butene	100.000	108.229	-8.2	113	0.00
68	T	2-Chlorotoluene	50.000	50.814	-1.6	105	0.00
69	T	4-Chlorotoluene	50.000	51.728	-3.5	102	0.00
70	T	1,3,5-Trimethylbenzene	50.000	49.904	0.2	102	0.00
71	T	tert-Butylbenzene	50.000	50.472	-0.9	100	0.00
72	T	1,2,4-Trimethylbenzene	50.000	50.378	-0.8	101	0.00
73	T	sec-Butylbenzene	50.000	51.152	-2.3	102	0.00
74	T	1,3-Dichlorobenzene	50.000	49.641	0.7	105	0.00
75	T	4-Isopropyltoluene	50.000	44.600	10.8	102	0.00
76	T	1,4-Dichlorobenzene	50.000	51.213	-2.4	105	0.00
77	T	1,2-Dichlorobenzene	50.000	50.952	-1.9	103	0.00
78	T	n-Butylbenzene	50.000	50.492	-1.0	99	0.00
79	T	1,2-Dibromo-3-chloropropane	50.000	43.353	13.3	94	0.00
80	T	1,2,4-Trichlorobenzene	50.000	46.637	6.7	96	0.00
81	T	Hexachlorobutadiene	50.000	45.342	9.3	95	0.00
82	T	Naphthalene	50.000	49.147	1.7	97	0.00
83	T	1,2,3-Trichlorobenzene	50.000	47.700	4.6	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

GC/MS QA-QC Check Report

Tune File : C:\MS-12\New\Raw Data\211214\V1212142120.D
Tune Time : 14 Dec 2021 4:44 pm

Daily Calibration File : C:\MS-12\New\Raw Data\211214\V1212142120.D

174702 311210 333978

206342

File	Sample	Surrogate Recovery %			Internal Standard Responses		
V1212142122.D							
	MB	99	95	90	173565	319439	320418
				143462			
V1212142123.D							
	2112C29-01	98	95	92	164498	317423	311612
				141255			
V1212142124.D							
	2112G62-00	99	93	85	159951	300464	285876
				105294			
V1212142125.D							
	2112G62-00	102	100	96	163152	291834	294574
				130901			
V1212142126.D							
	2112G62-00	100	96	88	181378	328620	312116
				124117			
V1212142127.D							
	2112G62-00	104	87	61*	147443	271155	191977
				46356*			
V1212142128.D							
	2112G62-00	104	87	69	144617	265127	195426
				50944*			
V1212142129.D							
	2112G62-00	102	92	80	159042	300906	269044
				81009*			
V1212142130.D							
	2112G62-00	99	89	75	130125	220727	154939*
				47821*			
V1212142131.D							
	2112G62-00	97	92	78	150749	274160	233623
				75590*			
V1212142132.D							
	2112C29-01	100	97	92	169507	321070	331870
				160338			
V1212142133.D							
	2112C29-01	96	98	91	171080	321047	329852
				161206			
V1212142134.D							
	2112C29-01	97	95	87	178546	323033	318803
				138070			
V1212142135.D							
	2112C29-01	97	98	93	169747	319708	327443
				155796			

```
---------------------------------------------------------------------------
V1212142136.D
         2112F13-00   99   97   93          155412     294232     298251
                              139228
---------------------------------------------------------------------------
V1212142137.D
         2112F13-00  102   98   86          157349     301469     314939
                              141468
---------------------------------------------------------------------------
V1212142138.D
         2112F13-00  100   97   87          157087     291056     300812
                              134431
---------------------------------------------------------------------------
V1212142139.D
         2112F13-00  100   97   89          154946     297686     303990
                              146214
---------------------------------------------------------------------------
(fails) - fails 12hr time check   * - fails criteria

    Created: Wed Dec 15 09:20:36 2021  MS-12
```

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142120.D
Acq On : 14 Dec 2021 4:44 pm
Operator : RAC
Sample : LCS-327386
Misc : LCS 8260_TCL4.2_S
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 15 09:02:10 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	...	7.838	168	174702	50.00	ug/kg	0.00
28) 1,4-Difluorobenzene	...	8.762	114	311210	50.00	ug/kg	0.00
47) Chlorobenzene-d5	...	11.580	117	333978	50.00	ug/kg	0.00
61) 1,4-Dichlorobenzene-d4	...	13.508	152	206342	50.00	ug/kg	0.00
System Monitoring Compounds							
29) Dibromofluoromethane	...	7.732	113	102068	49.90	ug/kg	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 99.80%				
43) Toluene-d8	...	10.267	98	399557	51.10	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 102.20%				
60) 4-Bromofluorobenzene	...	12.575	95	139499	51.98	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 103.96%				
Target Compounds						Qvalue	
2) Dichlorodifluoromethane	...	1.716	85	113840	64.96	ug/kg	99
3) Chloromethane	...	1.928	50	235419	52.69	ug/kg	99
4) Vinyl chloride	...	2.063	62	236265	47.74	ug/kg	98
5) Bromomethane	...	2.448	94	376348	53.93	ug/kg	98
6) Chloroethane	...	2.586	64	186844	39.22	ug/kg	97
7) Trichlorofluoromethane	...	2.919	101	161181	47.49	ug/kg#	98
8) Acrolein	...	3.535	56	10233	45.08	ug/kg#	57
9) 1,1-Dichloroethene	...	3.670	96	97870	55.67	ug/kg	74
10) Freon-113	...	3.709	101	97390	54.31	ug/kg	98
11) Acetone	...	3.766	58	26588	107.87	ug/kg	75
12) Iodomethane	...	3.875	142	355813	111.78	ug/kg	96
13) Carbon disulfide	...	3.981	76	622119	116.20	ug/kg	100
14) Methyl acetate	...	4.318	43	96724	50.74	ug/kg	93
15) Vinyl acetate	...	5.990	43	492189	109.34	ug/kg	96
16) Methylene chloride	...	4.543	84	114913	55.22	ug/kg	82
17) Acrylonitrile	...	5.027	53	45849	52.15	ug/kg	92
18) Methyl tert-butyl ether	...	5.085	73	268930	59.70	ug/kg	99
19) trans-1,2-Dichloroethene	...	5.066	96	115140	56.41	ug/kg	78
20) 1,1-Dichloroethane	...	5.910	63	185862	53.41	ug/kg	96
21) 2,2-Dichloropropane	...	6.911	77	131060	54.29	ug/kg	88
22) cis-1,2-Dichloroethene	...	6.927	96	119685	55.89	ug/kg	80
23) 2-Butanone	...	6.953	72	32447	100.50	ug/kg	87
24) Bromochloromethane	...	7.306	128	59210	53.58	ug/kg	82
25) Chloroform	...	7.505	83	168671	51.74	ug/kg	99
26) Cyclohexane	...	7.774	56	174513	55.51	ug/kg	91
27) 1,1,1-Trichloroethane	...	7.697	97	148532	52.66	ug/kg	94
30) 1,1-Dichloropropene	...	7.938	110	54567	53.21	ug/kg	80
31) Carbon tetrachloride	...	7.909	119	139608	52.75	ug/kg	97
32) Benzene	...	8.185	78	441558	53.85	ug/kg	98
33) 1,2-Dichloroethane	...	8.284	62	111206	50.08	ug/kg#	84
34) Trichloroethene	...	9.010	130	113636	50.04	ug/kg	95
35) Methylcyclohexane	...	9.244	55	135127	53.39	ug/kg#	78
36) 1,2-Dichloropropane	...	9.292	63	113193	52.20	ug/kg	97
37) Dibromomethane	...	9.385	93	71308	53.27	ug/kg	96
38) 1,4-Dioxane	...	9.391	88	16125	482.93	ug/kg#	81
39) Bromodichloromethane	...	9.584	83	132505	53.76	ug/kg	94
40) 2-Chloroethyl vinyl ether	...	10.332	63	36023	100.37	ug/kg#	99
41) cis-1,3-Dichloropropene	...	10.024	75	163051	54.54	ug/kg	95
42) 4-Methyl-2-pentanone	...	10.168	43	318668	99.07	ug/kg	98
44) Toluene	...	10.332	92	277216	54.45	ug/kg	99
45) trans-1,3-Dichloropropene	...	10.569	75	149014	54.51	ug/kg	95
46) 1,1,2-Trichloroethane	...	10.746	83	86125	51.67	ug/kg	97
48) 2-Hexanone	...	10.938	43	235343	108.86	ug/kg	98

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142120.D
Acq On : 14 Dec 2021 4:44 pm
Operator : RAC
Sample : LCS-327386
Misc : LCS 8260_TCL4.2_S
ALS Vial : 20 Sample Multiplier: 1

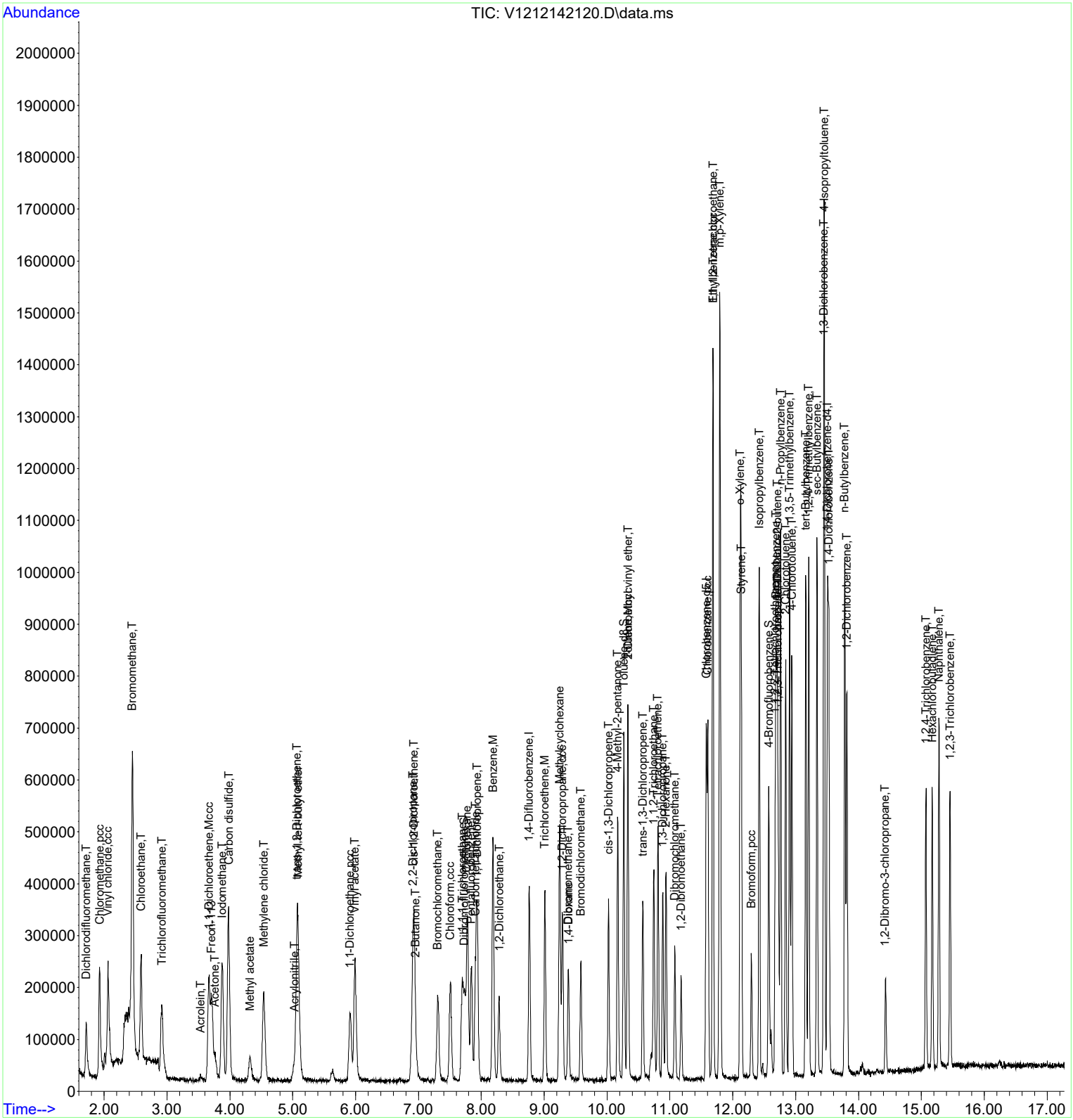
Quant Time: Dec 15 09:02:10 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	10.810	166	117850	49.06	ug/kg	99
50) 1,3-Dichloropropane	10.887	76	173585	52.93	ug/kg	99
51) Dibromochloromethane	11.079	129	116161	52.68	ug/kg	98
52) 1,2-Dibromoethane	11.179	107	109244	53.15	ug/kg	100
53) Chlorobenzene	11.602	112	324564	53.54	ug/kg	91
54) 1,1,1,2-Tetrachloroethane	11.686	131	123669	52.06	ug/kg	98
55) Ethylbenzene	11.686	91	545467	52.68	ug/kg	96
56) m,p-Xylene	11.795	91	833805	110.50	ug/kg	92
57) o-Xylene	12.119	91	421674	48.84	ug/kg	93
58) Styrene	12.138	104	349438	47.47	ug/kg	88
59) Bromoform	12.295	173	86630	54.02	ug/kg	98
62) Bromobenzene	12.690	156	145503	49.55	ug/kg	90
63) 1,1,2,2-Tetrachloroethane	12.677	83	176051	49.43	ug/kg	97
64) 1,2,3-Trichloropropane	12.716	75	126256m	49.28	ug/kg	
65) Isopropylbenzene	12.424	105	560487	50.82	ug/kg	98
66) n-Propylbenzene	12.761	91	687846	51.53	ug/kg	98
67) trans-1,4-Dichloro-2-butene	12.709	124	28735	108.23	ug/kg#	62
68) 2-Chlorotoluene	12.841	91	368211	50.81	ug/kg	90
69) 4-Chlorotoluene	12.937	91	420143	51.73	ug/kg	94
70) 1,3,5-Trimethylbenzene	12.905	105	440560	49.90	ug/kg	93
71) tert-Butylbenzene	13.162	119	409511	50.47	ug/kg	90
72) 1,2,4-Trimethylbenzene	13.207	105	450228	50.38	ug/kg	92
73) sec-Butylbenzene	13.341	105	629389	51.15	ug/kg	98
74) 1,3-Dichlorobenzene	13.447	146	288086	49.64	ug/kg	96
75) 4-Isopropyltoluene	13.457	119	538463	44.60	ug/kg	95
76) 1,4-Dichlorobenzene	13.528	146	292785	51.21	ug/kg	95
77) 1,2-Dichlorobenzene	13.813	146	271874	50.95	ug/kg	96
78) n-Butylbenzene	13.781	91	459107	50.49	ug/kg	99
79) 1,2-Dibromo-3-chloropropane	14.426	75	29656	43.35	ug/kg#	70
80) 1,2,4-Trichlorobenzene	15.074	180	145776	46.64	ug/kg	97
81) Hexachlorobutadiene	15.174	225	78851	45.34	ug/kg	99
82) Naphthalene	15.283	128	451411	49.15	ug/kg	100
83) 1,2,3-Trichlorobenzene	15.459	180	143203	47.70	ug/kg	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142120.D
Acq On : 14 Dec 2021 4:44 pm
Operator : RAC
Sample : LCS-327386
Misc : LCS 8260_TCL4.2_S
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 15 09:02:10 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142121.D
Acq On : 14 Dec 2021 5:22 pm
Operator : RAC
Sample : CCV 8260 005 S
Misc : CCV 8260B_S
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 15 09:03:09 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	...	7.844	168	183350	50.00	ug/kg	0.00
28) 1,4-Difluorobenzene	...	8.765	114	334102	50.00	ug/kg	0.00
47) Chlorobenzene-d5	...	11.579	117	349170	50.00	ug/kg	0.00
61) 1,4-Dichlorobenzene-d4	...	13.507	152	168198	50.00	ug/kg	0.00
System Monitoring Compounds							
29) Dibromofluoromethane	...	7.738	113	108723	49.51	ug/kg	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 99.02%				
43) Toluene-d8	...	10.266	98	413441	49.25	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 98.50%				
60) 4-Bromofluorobenzene	...	12.573	95	131027	46.70	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 93.40%				
Target Compounds						Qvalue	
2) Dichlorodifluoromethane	...	1.718	85	15691	8.53	ug/kg	83
3) Chloromethane	...	1.927	50	32158	6.86	ug/kg#	77
4) Vinyl chloride	...	2.058	62	27149	5.23	ug/kg	99
5) Bromomethane	...	2.459	94	26700	3.65	ug/kg	92
6) Chloroethane	...	2.594	64	19919	3.98	ug/kg	93
7) Trichlorofluoromethane	...	2.925	101	17118	4.81	ug/kg#	93
8) Acrolein	...	3.550	56	1803	7.57	ug/kg#	17
9) 1,1-Dichloroethene	...	3.666	96	10367	5.62	ug/kg	79
10) Freon-113	...	3.701	101	7576	4.03	ug/kg#	80
11) Acetone	...	3.785	58	5970	23.08	ug/kg	71
12) Iodomethane	...	3.878	142	36203	10.84	ug/kg	98
13) Carbon disulfide	...	3.980	76	69578	12.38	ug/kg	100
14) Methyl acetate	...	4.320	43	11605	5.80	ug/kg#	59
15) Vinyl acetate	...	5.995	43	41779	8.84	ug/kg#	93
16) Methylene chloride	...	4.545	84	12823	5.87	ug/kg	81
17) Acrylonitrile	...	0.000	53	0	N.D.		
18) Methyl tert-butyl ether	...	5.094	73	24769	5.24	ug/kg#	83
19) trans-1,2-Dichloroethene	...	5.074	96	12020	5.61	ug/kg	88
20) 1,1-Dichloroethane	...	5.912	63	20809	5.70	ug/kg#	90
21) 2,2-Dichloropropane	...	6.903	77	15321	6.05	ug/kg#	85
22) cis-1,2-Dichloroethene	...	6.929	96	13249	5.90	ug/kg	80
23) 2-Butanone	...	6.958	72	3532	10.42	ug/kg	55
24) Bromochloromethane	...	7.321	128	6672	5.75	ug/kg	82
25) Chloroform	...	7.507	83	17973	5.25	ug/kg	96
26) Cyclohexane	...	7.783	56	17288	5.24	ug/kg	92
27) 1,1,1-Trichloroethane	...	7.702	97	16123	5.45	ug/kg	89
30) 1,1-Dichloropropene	...	7.927	110	6671	6.06	ug/kg	71
31) Carbon tetrachloride	...	7.921	119	14747	5.19	ug/kg	96
32) Benzene	...	8.187	78	44825	5.09	ug/kg	96
33) 1,2-Dichloroethane	...	8.286	62	11438	4.80	ug/kg#	77
34) Trichloroethene	...	9.015	130	11991	4.92	ug/kg	89
35) Methylcyclohexane	...	9.246	55	13088	4.82	ug/kg#	78
36) 1,2-Dichloropropane	...	9.288	63	11704	5.03	ug/kg#	89
37) Dibromomethane	...	9.384	93	6987	4.86	ug/kg	95
38) 1,4-Dioxane	...	0.000	88	0	N.D.		
39) Bromodichloromethane	...	9.583	83	13072	4.94	ug/kg#	93
40) 2-Chloroethyl vinyl ether	...	10.337	63	4239	11.00	ug/kg#	100
41) cis-1,3-Dichloropropene	...	10.016	75	14163	4.41	ug/kg#	78
42) 4-Methyl-2-pentanone	...	10.170	43	23064	10.37	ug/kg	99
44) Toluene	...	10.334	92	31843	5.83	ug/kg	94
45) trans-1,3-Dichloropropene	...	10.571	75	13244	4.51	ug/kg#	91
46) 1,1,2-Trichloroethane	...	10.748	83	9288	5.19	ug/kg	97
48) 2-Hexanone	...	10.943	43	17728	7.84	ug/kg#	89

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142121.D
Acq On : 14 Dec 2021 5:22 pm
Operator : RAC
Sample : CCV 8260 005 S
Misc : CCV 8260B_S
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 15 09:03:09 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

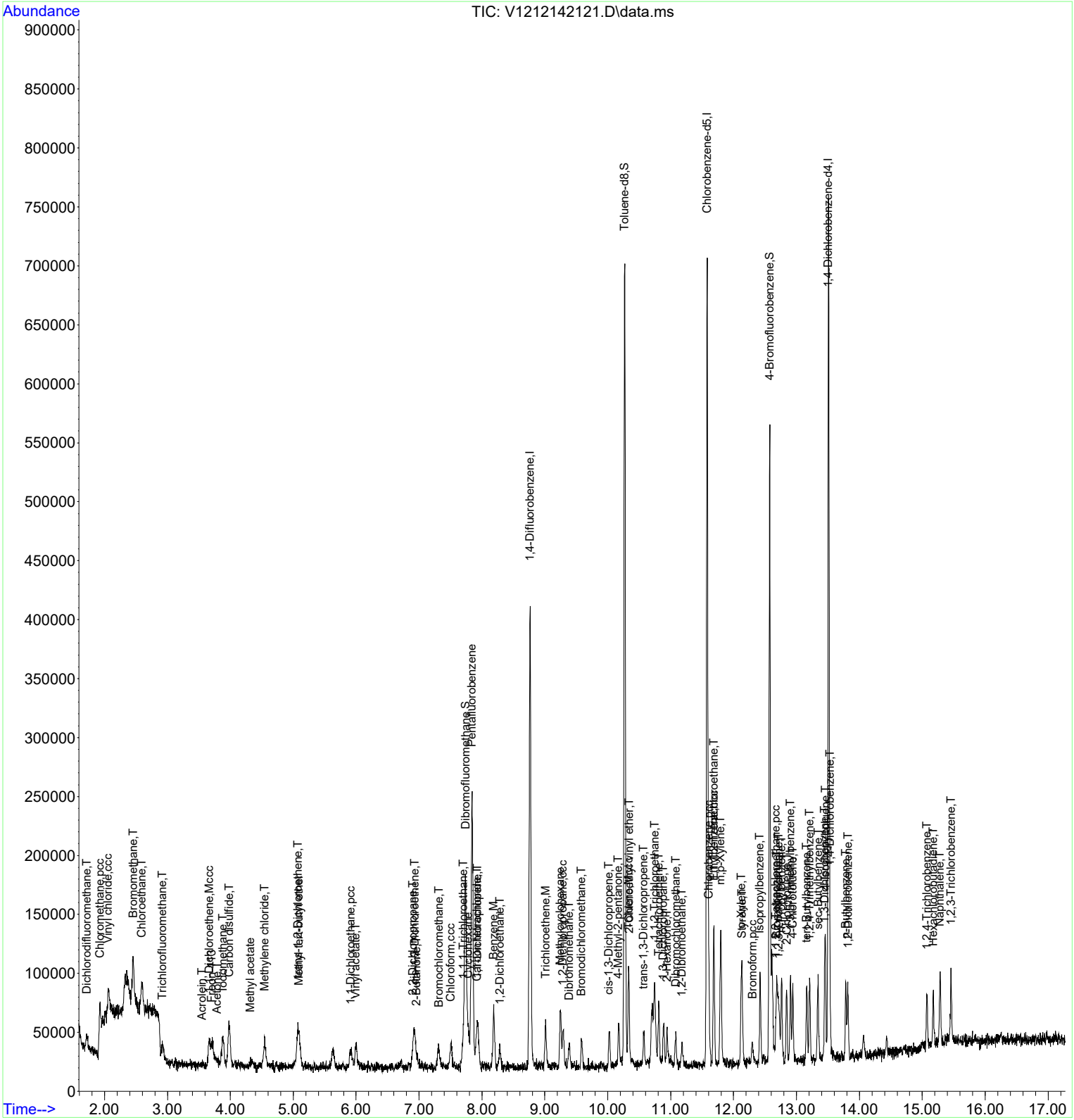
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	10.812	166	12996	5.17	ug/kg	96
50) 1,3-Dichloropropane	10.886	76	17333	5.06	ug/kg	92
51) Dibromochloromethane	11.081	129	10486	4.55	ug/kg	88
52) 1,2-Dibromoethane	11.178	107	10204	4.75	ug/kg#	93
53) Chlorobenzene	11.604	112	32439	5.12	ug/kg	95
54) 1,1,1,2-Tetrachloroethane	11.688	131	11167	4.50	ug/kg	88
55) Ethylbenzene	11.688	91	45382	4.19	ug/kg	95
56) m,p-Xylene	11.794	91	68318	8.66	ug/kg	96
57) o-Xylene	12.124	91	33738	7.03	ug/kg	100
58) Styrene	12.137	104	24545	7.27	ug/kg	93
59) Bromoform	12.301	173	7138	4.26	ug/kg#	87
62) Bromobenzene	12.689	156	11588	4.84	ug/kg	87
63) 1,1,2,2-Tetrachloroethane	12.676	83	15439	5.32	ug/kg#	90
64) 1,2,3-Trichloropropane	12.715	75	9404	4.50	ug/kg#	59
65) Isopropylbenzene	12.419	105	39251	4.37	ug/kg	95
66) n-Propylbenzene	12.763	91	50149	4.61	ug/kg	100
67) trans-1,4-Dichloro-2-butene	0.000	124	0	N.D.		
68) 2-Chlorotoluene	12.843	91	29599	5.01	ug/kg	88
69) 4-Chlorotoluene	12.939	91	28852	4.36	ug/kg	93
70) 1,3,5-Trimethylbenzene	12.904	105	30357	4.22	ug/kg	81
71) tert-Butylbenzene	13.164	119	26989	4.08	ug/kg	91
72) 1,2,4-Trimethylbenzene	13.212	105	30050	4.12	ug/kg	92
73) sec-Butylbenzene	13.344	105	41542	4.14	ug/kg	95
74) 1,3-Dichlorobenzene	13.446	146	21111	4.46	ug/kg	99
75) 4-Isopropyltoluene	13.459	119	31545	7.06	ug/kg	97
76) 1,4-Dichlorobenzene	13.530	146	22501	4.83	ug/kg	87
77) 1,2-Dichlorobenzene	13.818	146	20943	4.82	ug/kg	94
78) n-Butylbenzene	13.786	91	31338	4.23	ug/kg	92
79) 1,2-Dibromo-3-chloropropane	0.000	75	0	N.D.		
80) 1,2,4-Trichlorobenzene	15.073	180	12300	4.83	ug/kg#	93
81) Hexachlorobutadiene	15.173	225	6277	4.43	ug/kg	88
82) Naphthalene	15.282	128	43662	5.83	ug/kg	100
83) 1,2,3-Trichlorobenzene	15.458	180	14307	5.85	ug/kg	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142121.D
Acq On : 14 Dec 2021 5:22 pm
Operator : RAC
Sample : CCV 8260 005 S
Misc : CCV 8260B_S
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 15 09:03:09 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142122.D
Acq On : 14 Dec 2021 5:47 pm
Operator : RAC
Sample : MB-327386
Misc : MBLK 8260_TCL4.2_S
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 15 09:05:13 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	...	7.842	168	173565	50.00	ug/kg	0.00
28) 1,4-Difluorobenzene	...	8.763	114	319439	50.00	ug/kg	0.00
47) Chlorobenzene-d5	...	11.583	117	320418	50.00	ug/kg	0.00
61) 1,4-Dichlorobenzene-d4	...	13.509	152	143462	50.00	ug/kg	0.00
System Monitoring Compounds							
29) Dibromofluoromethane	...	7.739	113	103716	49.40	ug/kg	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 98.80%				
43) Toluene-d8	...	10.268	98	379930	47.34	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 94.68%				
60) 4-Bromofluorobenzene	...	12.572	95	116216	45.14	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 90.28%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	...	0.000	85	0			N.D.
3) Chloromethane	...	0.000	50	0			N.D.
4) Vinyl chloride	...	0.000	62	0			N.D.
5) Bromomethane	...	0.000	94	0			N.D.
6) Chloroethane	...	0.000	64	0			N.D.
7) Trichlorofluoromethane	...	0.000	101	0			N.D.
8) Acrolein	...	0.000	56	0			N.D. d
9) 1,1-Dichloroethene	...	0.000	96	0			N.D.
10) Freon-113	...	0.000	101	0			N.D.
11) Acetone	...	0.000	58	0			N.D.
12) Iodomethane	...	0.000	142	0			N.D.
13) Carbon disulfide	...	0.000	76	0			N.D.
14) Methyl acetate	...	0.000	43	0			N.D.
15) Vinyl acetate	...	0.000	43	0			N.D. d
16) Methylene chloride	...	0.000	84	0			N.D.
17) Acrylonitrile	...	0.000	53	0			N.D.
18) Methyl tert-butyl ether	...	0.000	73	0			N.D.
19) trans-1,2-Dichloroethene	...	0.000	96	0			N.D.
20) 1,1-Dichloroethane	...	0.000	63	0			N.D.
21) 2,2-Dichloropropane	...	0.000	77	0			N.D.
22) cis-1,2-Dichloroethene	...	0.000	96	0			N.D.
23) 2-Butanone	...	0.000	72	0			N.D.
24) Bromochloromethane	...	0.000	128	0			N.D.
25) Chloroform	...	0.000	83	0			N.D.
26) Cyclohexane	...	0.000	56	0			N.D. d
27) 1,1,1-Trichloroethane	...	0.000	97	0			N.D.
30) 1,1-Dichloropropene	...	0.000	110	0			N.D.
31) Carbon tetrachloride	...	0.000	119	0			N.D.
32) Benzene	...	0.000	78	0			N.D.
33) 1,2-Dichloroethane	...	0.000	62	0			N.D.
34) Trichloroethene	...	0.000	130	0			N.D.
35) Methylcyclohexane	...	0.000	55	0			N.D.
36) 1,2-Dichloropropane	...	0.000	63	0			N.D.
37) Dibromomethane	...	0.000	93	0			N.D.
38) 1,4-Dioxane	...	0.000	88	0			N.D.
39) Bromodichloromethane	...	0.000	83	0			N.D.
40) 2-Chloroethyl vinyl ether	...	0.000	63	0			N.D.
41) cis-1,3-Dichloropropene	...	0.000	75	0			N.D.
42) 4-Methyl-2-pentanone	...	0.000	43	0			N.D.
44) Toluene	...	10.338	92	4009	0.77	ug/kg	99
45) trans-1,3-Dichloropropene	...	0.000	75	0			N.D.
46) 1,1,2-Trichloroethane	...	0.000	83	0			N.D.
48) 2-Hexanone	...	0.000	43	0			N.D.

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142122.D
Acq On : 14 Dec 2021 5:47 pm
Operator : RAC
Sample : MB-327386
Misc : MBLK 8260_TCL4.2_S
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 15 09:05:13 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

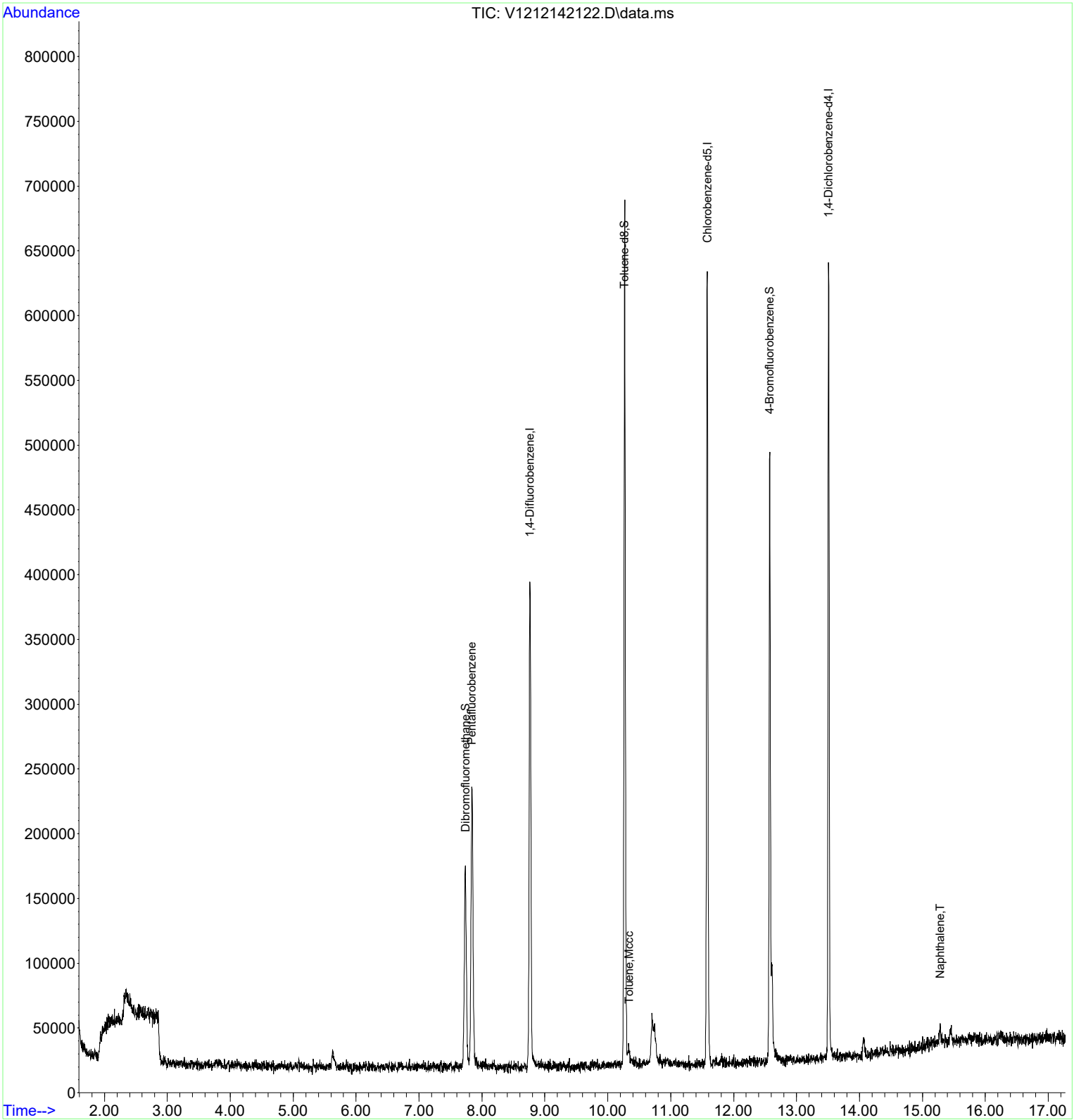
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	...	0.000	166	0		N.D.
50) 1,3-Dichloropropane	...	0.000	76	0		N.D.
51) Dibromochloromethane	...	0.000	129	0		N.D.
52) 1,2-Dibromoethane	...	0.000	107	0		N.D.
53) Chlorobenzene	...	0.000	112	0		N.D.
54) 1,1,1,2-Tetrachloroethane	...	0.000	131	0		N.D.
55) Ethylbenzene	...	0.000	91	0		N.D.
56) m,p-Xylene	...	0.000	91	0		N.D.
57) o-Xylene	...	0.000	91	0		N.D.
58) Styrene	...	0.000	104	0		N.D.
59) Bromoform	...	0.000	173	0		N.D.
62) Bromobenzene	...	0.000	156	0		N.D.
63) 1,1,2,2-Tetrachloroethane	...	0.000	83	0		N.D.
64) 1,2,3-Trichloropropane	...	0.000	75	0		N.D. d
65) Isopropylbenzene	...	0.000	105	0		N.D.
66) n-Propylbenzene	...	0.000	91	0		N.D.
67) trans-1,4-Dichloro-2-butene	...	0.000	124	0		N.D.
68) 2-Chlorotoluene	...	0.000	91	0		N.D.
69) 4-Chlorotoluene	...	0.000	91	0		N.D.
70) 1,3,5-Trimethylbenzene	...	0.000	105	0		N.D.
71) tert-Butylbenzene	...	0.000	119	0		N.D.
72) 1,2,4-Trimethylbenzene	...	0.000	105	0		N.D.
73) sec-Butylbenzene	...	0.000	105	0		N.D.
74) 1,3-Dichlorobenzene	...	0.000	146	0		N.D.
75) 4-Isopropyltoluene	...	0.000	119	0		N.D.
76) 1,4-Dichlorobenzene	...	0.000	146	0		N.D.
77) 1,2-Dichlorobenzene	...	0.000	146	0		N.D.
78) n-Butylbenzene	...	0.000	91	0		N.D.
79) 1,2-Dibromo-3-chloropropane	...	0.000	75	0		N.D.
80) 1,2,4-Trichlorobenzene	...	0.000	180	0		N.D.
81) Hexachlorobutadiene	...	0.000	225	0		N.D.
82) Naphthalene	...	15.283	128	7506	1.18 ug/kg	100
83) 1,2,3-Trichlorobenzene	...	0.000	180	0		N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142122.D
Acq On : 14 Dec 2021 5:47 pm
Operator : RAC
Sample : MB-327386
Misc : MBLK 8260_TCL4.2_S
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 15 09:05:13 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142124.D
Acq On : 14 Dec 2021 6:36 pm
Operator : RAC
Sample : 2112G62-006A 6.35
Misc : SAMP 8260_TCL4.2_S
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 15 09:06:00 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	...	7.848	168	159951	50.00	ug/kg	0.00
28) 1,4-Difluorobenzene	...	8.762	114	300464	50.00	ug/kg	0.00
47) Chlorobenzene-d5	...	11.579	117	285876	50.00	ug/kg	0.00
61) 1,4-Dichlorobenzene-d4	...	13.511	152	105294	50.00	ug/kg	0.00
System Monitoring Compounds							
29) Dibromofluoromethane	...	7.735	113	98000	49.62	ug/kg	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 99.24%				
43) Toluene-d8	...	10.267	98	352095	46.64	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 93.28%				
60) 4-Bromofluorobenzene	...	12.574	95	97513	42.45	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 84.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	...	0.000	85	0			N.D.
3) Chloromethane	...	0.000	50	0			N.D.
4) Vinyl chloride	...	0.000	62	0			N.D.
5) Bromomethane	...	0.000	94	0			N.D.
6) Chloroethane	...	0.000	64	0			N.D.
7) Trichlorofluoromethane	...	0.000	101	0			N.D.
8) Acrolein	...	0.000	56	0			N.D. d
9) 1,1-Dichloroethene	...	0.000	96	0			N.D.
10) Freon-113	...	0.000	101	0			N.D.
11) Acetone	...	0.000	58	0			N.D.
12) Iodomethane	...	0.000	142	0			N.D.
13) Carbon disulfide	...	0.000	76	0			N.D.
14) Methyl acetate	...	0.000	43	0			N.D.
15) Vinyl acetate	...	0.000	43	0			N.D. d
16) Methylene chloride	...	0.000	84	0			N.D.
17) Acrylonitrile	...	0.000	53	0			N.D.
18) Methyl tert-butyl ether	...	0.000	73	0			N.D.
19) trans-1,2-Dichloroethene	...	0.000	96	0			N.D.
20) 1,1-Dichloroethane	...	0.000	63	0			N.D.
21) 2,2-Dichloropropane	...	0.000	77	0			N.D.
22) cis-1,2-Dichloroethene	...	0.000	96	0			N.D.
23) 2-Butanone	...	0.000	72	0			N.D.
24) Bromochloromethane	...	0.000	128	0			N.D.
25) Chloroform	...	0.000	83	0			N.D.
26) Cyclohexane	...	0.000	56	0			N.D. d
27) 1,1,1-Trichloroethane	...	0.000	97	0			N.D.
30) 1,1-Dichloropropene	...	0.000	110	0			N.D.
31) Carbon tetrachloride	...	0.000	119	0			N.D.
32) Benzene	...	0.000	78	0			N.D.
33) 1,2-Dichloroethane	...	0.000	62	0			N.D.
34) Trichloroethene	...	0.000	130	0			N.D.
35) Methylcyclohexane	...	0.000	55	0			N.D.
36) 1,2-Dichloropropane	...	0.000	63	0			N.D.
37) Dibromomethane	...	0.000	93	0			N.D.
38) 1,4-Dioxane	...	0.000	88	0			N.D.
39) Bromodichloromethane	...	0.000	83	0			N.D.
40) 2-Chloroethyl vinyl ether	...	0.000	63	0			N.D.
41) cis-1,3-Dichloropropene	...	0.000	75	0			N.D.
42) 4-Methyl-2-pentanone	...	0.000	43	0			N.D.
44) Toluene	...	0.000	92	0			N.D.
45) trans-1,3-Dichloropropene	...	0.000	75	0			N.D.
46) 1,1,2-Trichloroethane	...	0.000	83	0			N.D.
48) 2-Hexanone	...	0.000	43	0			N.D.

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142124.D
Acq On : 14 Dec 2021 6:36 pm
Operator : RAC
Sample : 2112G62-006A 6.35
Misc : SAMP 8260_TCL4.2_S
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 15 09:06:00 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

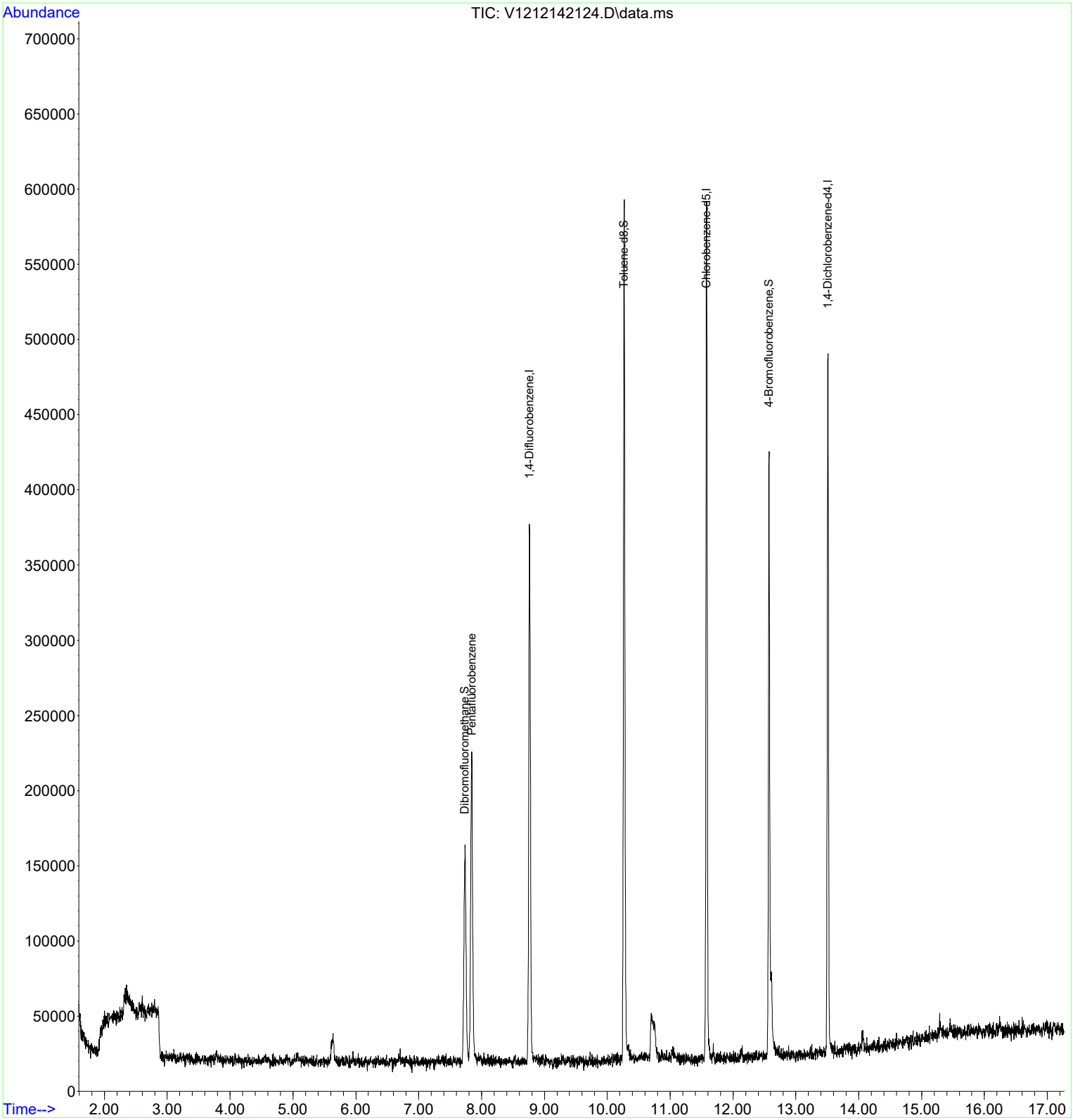
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	...	0.000	166	0		N.D.
50) 1,3-Dichloropropane	...	0.000	76	0		N.D.
51) Dibromochloromethane	...	0.000	129	0		N.D.
52) 1,2-Dibromoethane	...	0.000	107	0		N.D.
53) Chlorobenzene	...	0.000	112	0		N.D.
54) 1,1,1,2-Tetrachloroethane	...	0.000	131	0		N.D.
55) Ethylbenzene	...	0.000	91	0		N.D.
56) m,p-Xylene	...	0.000	91	0		N.D.
57) o-Xylene	...	0.000	91	0		N.D.
58) Styrene	...	0.000	104	0		N.D.
59) Bromoform	...	0.000	173	0		N.D.
62) Bromobenzene	...	0.000	156	0		N.D.
63) 1,1,2,2-Tetrachloroethane	...	0.000	83	0		N.D.
64) 1,2,3-Trichloropropane	...	0.000	75	0		N.D. d
65) Isopropylbenzene	...	0.000	105	0		N.D.
66) n-Propylbenzene	...	0.000	91	0		N.D.
67) trans-1,4-Dichloro-2-butene	...	0.000	124	0		N.D.
68) 2-Chlorotoluene	...	0.000	91	0		N.D.
69) 4-Chlorotoluene	...	0.000	91	0		N.D.
70) 1,3,5-Trimethylbenzene	...	0.000	105	0		N.D.
71) tert-Butylbenzene	...	0.000	119	0		N.D.
72) 1,2,4-Trimethylbenzene	...	0.000	105	0		N.D.
73) sec-Butylbenzene	...	0.000	105	0		N.D.
74) 1,3-Dichlorobenzene	...	0.000	146	0		N.D.
75) 4-Isopropyltoluene	...	0.000	119	0		N.D.
76) 1,4-Dichlorobenzene	...	0.000	146	0		N.D.
77) 1,2-Dichlorobenzene	...	0.000	146	0		N.D.
78) n-Butylbenzene	...	0.000	91	0		N.D.
79) 1,2-Dibromo-3-chloropropane	...	0.000	75	0		N.D.
80) 1,2,4-Trichlorobenzene	...	0.000	180	0		N.D.
81) Hexachlorobutadiene	...	0.000	225	0		N.D.
82) Naphthalene	...	0.000	128	0		N.D.
83) 1,2,3-Trichlorobenzene	...	0.000	180	0		N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142124.D
Acq On : 14 Dec 2021 6:36 pm
Operator : RAC
Sample : 2112G62-006A 6.35
Misc : SAMP 8260_TCL4.2_S
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 15 09:06:00 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142125.D
Acq On : 14 Dec 2021 7:00 pm
Operator : RAC
Sample : 2112G62-006AMS 3.55
Misc : MS1 8260_TCL4.2_S
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 15 09:06:33 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	...	7.838	168	163152	50.00	ug/kg	0.00
28) 1,4-Difluorobenzene	...	8.765	114	291834	50.00	ug/kg	0.00
47) Chlorobenzene-d5	...	11.579	117	294574	50.00	ug/kg	0.00
61) 1,4-Dichlorobenzene-d4	...	13.511	152	130901	50.00	ug/kg	0.00
System Monitoring Compounds							
29) Dibromofluoromethane	...	7.735	113	98145	51.17	ug/kg	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 102.34%				
43) Toluene-d8	...	10.270	98	368410	50.24	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.48%				
60) 4-Bromofluorobenzene	...	12.571	95	113051	47.76	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 95.52%				
Target Compounds						Qvalue	
2) Dichlorodifluoromethane	...	1.712	85	102735	62.77	ug/kg	97
3) Chloromethane	...	1.924	50	206330	49.44	ug/kg	99
4) Vinyl chloride	...	2.059	62	212016	45.88	ug/kg	100
5) Bromomethane	...	2.453	94	321427	49.32	ug/kg	98
6) Chloroethane	...	2.585	64	170600	38.35	ug/kg	93
7) Trichlorofluoromethane	...	2.909	101	208114	65.66	ug/kg#	99
8) Acrolein	...	3.541	56	10613	50.06	ug/kg	99
9) 1,1-Dichloroethene	...	3.666	96	79400	48.36	ug/kg	76
10) Freon-113	...	3.695	101	74118	44.26	ug/kg	97
11) Acetone	...	3.769	58	23141	100.53	ug/kg	90
12) Iodomethane	...	3.878	142	305471	102.76	ug/kg	95
13) Carbon disulfide	...	3.981	76	492460	98.49	ug/kg	100
14) Methyl acetate	...	4.321	43	84737	47.60	ug/kg	96
15) Vinyl acetate	...	5.993	43	411704	97.93	ug/kg	96
16) Methylene chloride	...	4.542	84	98951	50.91	ug/kg	84
17) Acrylonitrile	...	5.027	53	35898	43.72	ug/kg	93
18) Methyl tert-butyl ether	...	5.081	73	245647	58.39	ug/kg	99
19) trans-1,2-Dichloroethene	...	5.068	96	90597	47.53	ug/kg	80
20) 1,1-Dichloroethane	...	5.919	63	160533	49.40	ug/kg	97
21) 2,2-Dichloropropane	...	6.910	77	108104	47.95	ug/kg	87
22) cis-1,2-Dichloroethene	...	6.930	96	96909	48.46	ug/kg	79
23) 2-Butanone	...	6.955	72	29159	96.71	ug/kg	87
24) Bromochloromethane	...	7.315	128	52952	51.31	ug/kg	78
25) Chloroform	...	7.510	83	144604	47.50	ug/kg	94
26) Cyclohexane	...	7.780	56	111237	37.89	ug/kg	92
27) 1,1,1-Trichloroethane	...	7.696	97	113862	43.23	ug/kg	95
30) 1,1-Dichloropropene	...	7.934	110	40364	41.97	ug/kg	83
31) Carbon tetrachloride	...	7.905	119	97944	39.46	ug/kg	97
32) Benzene	...	8.187	78	360749	46.92	ug/kg	99
33) 1,2-Dichloroethane	...	8.284	62	98618	47.36	ug/kg#	89
34) Trichloroethene	...	9.012	130	85833	40.31	ug/kg	92
35) Methylcyclohexane	...	9.249	55	61823	26.05	ug/kg#	74
36) 1,2-Dichloropropane	...	9.291	63	89056	43.79	ug/kg	98
37) Dibromomethane	...	9.387	93	60572	48.25	ug/kg	95
38) 1,4-Dioxane	...	9.394	88	12241	390.95	ug/kg	94
39) Bromodichloromethane	...	9.586	83	104017	45.00	ug/kg	98
40) 2-Chloroethyl vinyl ether	...	10.331	63	28070	83.40	ug/kg#	98
41) cis-1,3-Dichloropropene	...	10.023	75	129881	46.33	ug/kg	92
42) 4-Methyl-2-pentanone	...	10.170	43	276368	91.92	ug/kg	96
44) Toluene	...	10.331	92	214829	44.99	ug/kg	99
45) trans-1,3-Dichloropropene	...	10.571	75	119506	46.62	ug/kg	96
46) 1,1,2-Trichloroethane	...	10.742	83	69686	44.58	ug/kg	96
48) 2-Hexanone	...	10.934	43	189871	99.58	ug/kg	97

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142125.D
Acq On : 14 Dec 2021 7:00 pm
Operator : RAC
Sample : 2112G62-006AMS 3.55
Misc : MS1 8260_TCL4.2_S
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 15 09:06:33 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

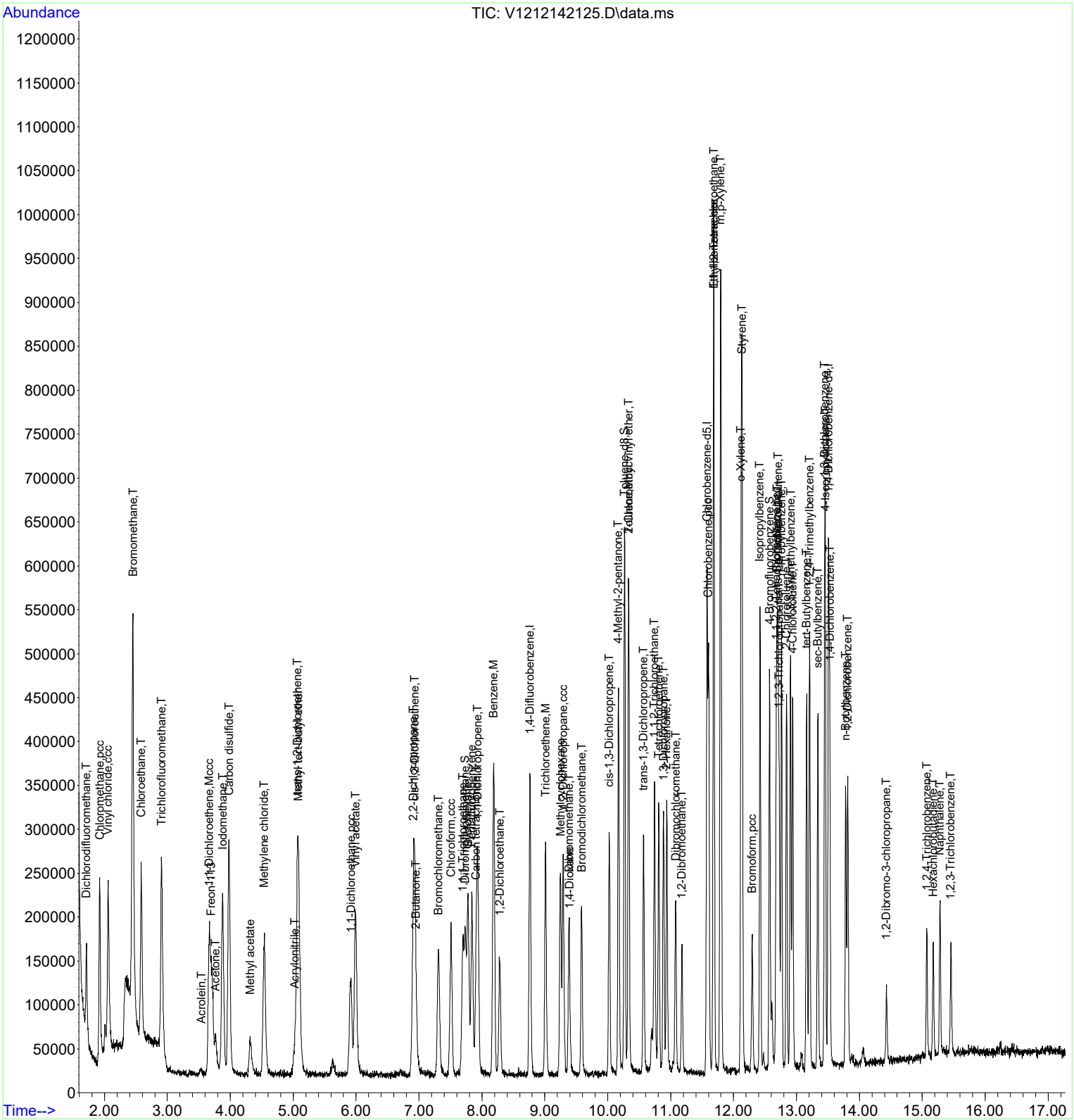
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
49) Tetrachloroethene	10.812	166	73089	34.49 ug/kg	99
50) 1,3-Dichloropropane	10.889	76	138627	47.92 ug/kg	98
51) Dibromochloromethane	11.082	129	85468	43.95 ug/kg	97
52) 1,2-Dibromoethane	11.178	107	83496	46.06 ug/kg#	98
53) Chlorobenzene	11.602	112	216752	40.54 ug/kg	92
54) 1,1,1,2-Tetrachloroethane	11.685	131	85677	40.89 ug/kg	98
55) Ethylbenzene	11.685	91	368286	40.33 ug/kg	96
56) m,p-Xylene	11.794	91	517358	77.74 ug/kg	92
57) o-Xylene	12.118	91	261103	35.35 ug/kg	91
58) Styrene	12.137	104	303644	46.84 ug/kg	83
59) Bromoform	12.295	173	59285	41.92 ug/kg	99
62) Bromobenzene	12.693	156	90019	48.32 ug/kg	93
63) 1,1,2,2-Tetrachloroethane	12.680	83	111417	49.31 ug/kg	98
64) 1,2,3-Trichloropropane	12.721	75	74953m	46.12 ug/kg	
65) Isopropylbenzene	12.420	105	305443	43.65 ug/kg	98
66) n-Propylbenzene	12.763	91	336621	39.75 ug/kg	99
67) trans-1,4-Dichloro-2-butene	12.709	124	17759	105.44 ug/kg#	61
68) 2-Chlorotoluene	12.840	91	194985	42.42 ug/kg	88
69) 4-Chlorotoluene	12.936	91	221871	43.06 ug/kg	95
70) 1,3,5-Trimethylbenzene	12.907	105	210407	37.57 ug/kg	91
71) tert-Butylbenzene	13.161	119	182054	35.37 ug/kg	91
72) 1,2,4-Trimethylbenzene	13.209	105	223711	39.46 ug/kg	93
73) sec-Butylbenzene	13.341	105	241261	30.91 ug/kg	97
74) 1,3-Dichlorobenzene	13.450	146	136635	37.11 ug/kg	94
75) 4-Isopropyltoluene	13.459	119	198724	27.68 ug/kg	96
76) 1,4-Dichlorobenzene	13.530	146	139117	38.36 ug/kg	95
77) 1,2-Dichlorobenzene	13.816	146	122304	36.13 ug/kg	95
78) n-Butylbenzene	13.784	91	147170	25.51 ug/kg	97
79) 1,2-Dibromo-3-chloropropane	14.428	75	15706	35.39 ug/kg	86
80) 1,2,4-Trichlorobenzene	15.073	180	38800	19.57 ug/kg	95
81) Hexachlorobutadiene	15.176	225	20182	18.29 ug/kg	98
82) Naphthalene	15.282	128	120036	20.60 ug/kg	100
83) 1,2,3-Trichlorobenzene	15.455	180	33245	17.46 ug/kg	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142125.D
Acq On : 14 Dec 2021 7:00 pm
Operator : RAC
Sample : 2112G62-006AMS 3.55
Misc : MS1 8260_TCL4.2_S
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 15 09:06:33 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142126.D
Acq On : 14 Dec 2021 7:25 pm
Operator : RAC
Sample : 2112G62-006AMSD 4.33
Misc : MSD1 8260_TCL4.2_S
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 15 09:07:30 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	...	7.840	168	181378	50.00	ug/kg	0.00
28) 1,4-Difluorobenzene	...	8.761	114	328620	50.00	ug/kg	0.00
47) Chlorobenzene-d5	...	11.578	117	312116	50.00	ug/kg	0.00
61) 1,4-Dichlorobenzene-d4	...	13.510	152	124117	50.00	ug/kg	0.00
System Monitoring Compounds							
29) Dibromofluoromethane	...	7.731	113	108130	50.06	ug/kg	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 100.12%				
43) Toluene-d8	...	10.266	98	395833	47.94	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 95.88%				
60) 4-Bromofluorobenzene	...	12.573	95	110025	43.87	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 87.74%				
Target Compounds						Qvalue	
2) Dichlorodifluoromethane	...	1.711	85	120729	66.35	ug/kg	96
3) Chloromethane	...	1.920	50	246562	53.15	ug/kg	99
4) Vinyl chloride	...	2.058	62	236446	46.02	ug/kg	100
5) Bromomethane	...	2.446	94	324752	44.82	ug/kg	99
6) Chloroethane	...	2.584	64	182845	36.97	ug/kg	96
7) Trichlorofluoromethane	...	2.908	101	168749	47.89	ug/kg#	100
8) Acrolein	...	3.531	56	9957	42.25	ug/kg#	75
9) 1,1-Dichloroethene	...	3.662	96	85453	46.82	ug/kg	78
10) Freon-113	...	3.707	101	81055	43.54	ug/kg	99
11) Acetone	...	3.765	58	26016	101.67	ug/kg	85
12) Iodomethane	...	3.874	142	326403	98.76	ug/kg	95
13) Carbon disulfide	...	3.977	76	529672	95.29	ug/kg	100
14) Methyl acetate	...	4.317	43	87211	44.07	ug/kg	95
15) Vinyl acetate	...	5.988	43	406346	86.95	ug/kg	95
16) Methylene chloride	...	4.535	84	110018	50.92	ug/kg	84
17) Acrylonitrile	...	5.013	53	34719	38.03	ug/kg	95
18) Methyl tert-butyl ether	...	5.084	73	264998	56.66	ug/kg	99
19) trans-1,2-Dichloroethene	...	5.071	96	96125	45.36	ug/kg	83
20) 1,1-Dichloroethane	...	5.915	63	167880	46.47	ug/kg	98
21) 2,2-Dichloropropane	...	6.906	77	118282	47.19	ug/kg	89
22) cis-1,2-Dichloroethene	...	6.925	96	104282	46.90	ug/kg	82
23) 2-Butanone	...	6.954	72	33394	99.63	ug/kg	74
24) Bromochloromethane	...	7.314	128	56597	49.33	ug/kg	77
25) Chloroform	...	7.509	83	150116	44.36	ug/kg	99
26) Cyclohexane	...	7.776	56	123458	37.82	ug/kg	92
27) 1,1,1-Trichloroethane	...	7.696	97	125097	42.72	ug/kg	94
30) 1,1-Dichloropropene	...	7.936	110	45901	42.39	ug/kg	80
31) Carbon tetrachloride	...	7.911	119	113066	40.46	ug/kg	98
32) Benzene	...	8.183	78	388200	44.84	ug/kg	100
33) 1,2-Dichloroethane	...	8.283	62	105294	44.90	ug/kg#	88
34) Trichloroethene	...	9.011	130	93923	39.17	ug/kg	93
35) Methylcyclohexane	...	9.249	55	69331	25.94	ug/kg#	76
36) 1,2-Dichloropropane	...	9.294	63	103468	45.18	ug/kg	97
37) Dibromomethane	...	9.387	93	63667	45.04	ug/kg	97
38) 1,4-Dioxane	...	9.390	88	14030	397.92	ug/kg#	88
39) Bromodichloromethane	...	9.586	83	112116	43.08	ug/kg	97
40) 2-Chloroethyl vinyl ether	...	10.330	63	29818	78.68	ug/kg#	97
41) cis-1,3-Dichloropropene	...	10.022	75	137793	43.65	ug/kg	93
42) 4-Methyl-2-pentanone	...	10.170	43	296852	87.86	ug/kg	97
44) Toluene	...	10.333	92	229490	42.68	ug/kg	99
45) trans-1,3-Dichloropropene	...	10.567	75	125837	43.60	ug/kg	93
46) 1,1,2-Trichloroethane	...	10.747	83	71673	40.72	ug/kg	99
48) 2-Hexanone	...	10.936	43	204660	101.30	ug/kg	96

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142126.D
Acq On : 14 Dec 2021 7:25 pm
Operator : RAC
Sample : 2112G62-006AMSD 4.33
Misc : MSD1 8260_TCL4.2_S
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 15 09:07:30 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

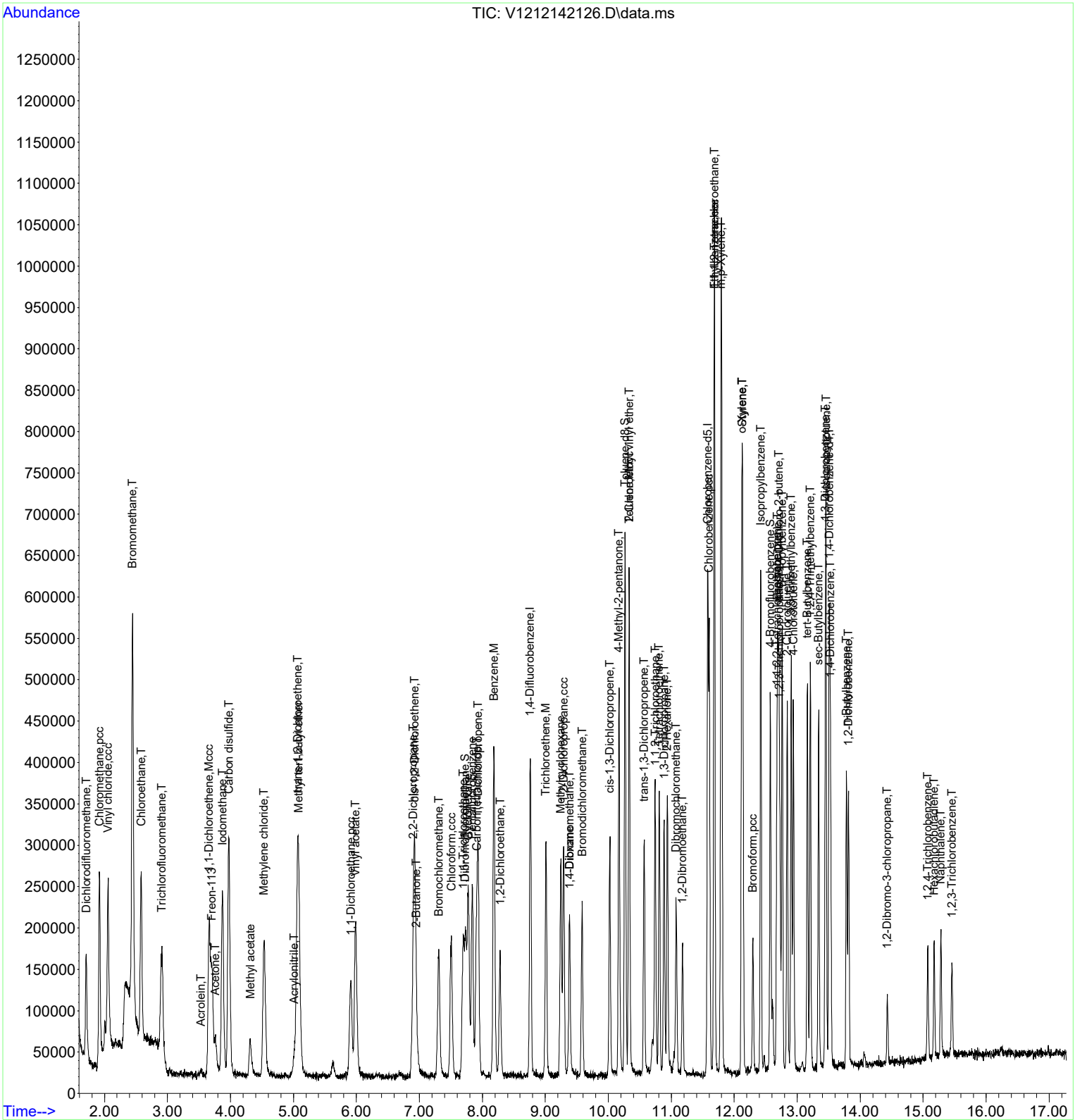
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	10.808	166	82941	36.94	ug/kg	99
50) 1,3-Dichloropropane	10.888	76	151816	49.53	ug/kg	99
51) Dibromochloromethane	11.078	129	95223	46.21	ug/kg	99
52) 1,2-Dibromoethane	11.177	107	89056	46.37	ug/kg	99
53) Chlorobenzene	11.604	112	241602	42.65	ug/kg	92
54) 1,1,1,2-Tetrachloroethane	11.684	131	95551	43.04	ug/kg	100
55) Ethylbenzene	11.687	91	398647	41.20	ug/kg	96
56) m,p-Xylene	11.796	91	578925	82.10	ug/kg	93
57) o-Xylene	12.120	91	290502	36.94	ug/kg	94
58) Styrene	12.133	104	248216	37.13	ug/kg	84
59) Bromoform	12.297	173	58684	39.16	ug/kg	98
62) Bromobenzene	12.692	156	93192	52.76	ug/kg	93
63) 1,1,2,2-Tetrachloroethane	12.679	83	111573	52.07	ug/kg	97
64) 1,2,3-Trichloropropane	12.717	75	74389m	48.27	ug/kg	
65) Isopropylbenzene	12.422	105	328889	49.57	ug/kg	99
66) n-Propylbenzene	12.759	91	356168	44.36	ug/kg	96
67) trans-1,4-Dichloro-2-butene	12.708	124	18646	116.75	ug/kg#	58
68) 2-Chlorotoluene	12.842	91	205482	47.14	ug/kg	90
69) 4-Chlorotoluene	12.939	91	232740	47.64	ug/kg	94
70) 1,3,5-Trimethylbenzene	12.907	105	217275	40.92	ug/kg	88
71) tert-Butylbenzene	13.163	119	192628	39.47	ug/kg	90
72) 1,2,4-Trimethylbenzene	13.208	105	225851	42.01	ug/kg	93
73) sec-Butylbenzene	13.340	105	256727	34.69	ug/kg	97
74) 1,3-Dichlorobenzene	13.449	146	134494	38.53	ug/kg	96
75) 4-Isopropyltoluene	13.459	119	212090	30.64	ug/kg	94
76) 1,4-Dichlorobenzene	13.529	146	136057	39.56	ug/kg	98
77) 1,2-Dichlorobenzene	13.815	146	120008	37.39	ug/kg	93
78) n-Butylbenzene	13.783	91	164646	30.10	ug/kg	97
79) 1,2-Dibromo-3-chloropropane	14.431	75	13473	31.55	ug/kg#	70
80) 1,2,4-Trichlorobenzene	15.076	180	37899	20.16	ug/kg	99
81) Hexachlorobutadiene	15.175	225	21878	20.92	ug/kg	98
82) Naphthalene	15.281	128	104599	18.93	ug/kg	100
83) 1,2,3-Trichlorobenzene	15.458	180	28878	15.99	ug/kg	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142126.D
Acq On : 14 Dec 2021 7:25 pm
Operator : RAC
Sample : 2112G62-006AMSD 4.33
Misc : MSD1 8260_TCL4.2_S
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 15 09:07:30 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142129.D
Acq On : 14 Dec 2021 8:39 pm
Operator : RAC
Sample : 2112G62-007A 4.42
Misc : SAMP 8260_TCL4.2_S
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Dec 15 09:11:52 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	...	7.840	168	159042	50.00	ug/kg	0.00
28) 1,4-Difluorobenzene	...	8.765	114	300906	50.00	ug/kg	0.00
47) Chlorobenzene-d5	...	11.579	117	269044	50.00	ug/kg	0.00
61) 1,4-Dichlorobenzene-d4	...	13.507	152	81009	50.00	ug/kg	0.00
System Monitoring Compounds							
29) Dibromofluoromethane	...	7.731	113	101174	51.15	ug/kg	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 102.30%				
43) Toluene-d8	...	10.266	98	347842	46.01	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 92.02%				
60) 4-Bromofluorobenzene	...	12.573	95	86078	39.82	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 79.64%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	...	0.000	85	0	N.D.		
3) Chloromethane	...	0.000	50	0	N.D.		
4) Vinyl chloride	...	0.000	62	0	N.D.		
5) Bromomethane	...	0.000	94	0	N.D.		
6) Chloroethane	...	0.000	64	0	N.D. d		
7) Trichlorofluoromethane	...	0.000	101	0	N.D.		
8) Acrolein	...	0.000	56	0	N.D. d		
9) 1,1-Dichloroethene	...	0.000	96	0	N.D.		
10) Freon-113	...	0.000	101	0	N.D.		
11) Acetone	...	3.759	58	35361	157.59	ug/kg	87
12) Iodomethane	...	0.000	142	0	N.D.		
13) Carbon disulfide	...	0.000	76	0	N.D.		
14) Methyl acetate	...	0.000	43	0	N.D.		
15) Vinyl acetate	...	0.000	43	0	N.D. d		
16) Methylene chloride	...	0.000	84	0	N.D.		
17) Acrylonitrile	...	0.000	53	0	N.D.		
18) Methyl tert-butyl ether	...	5.087	73	42777	10.43	ug/kg#	63
19) trans-1,2-Dichloroethene	...	0.000	96	0	N.D.		
20) 1,1-Dichloroethane	...	0.000	63	0	N.D.		
21) 2,2-Dichloropropane	...	0.000	77	0	N.D.		
22) cis-1,2-Dichloroethene	...	0.000	96	0	N.D.		
23) 2-Butanone	...	6.958	72	5041	17.15	ug/kg	47
24) Bromochloromethane	...	0.000	128	0	N.D.		
25) Chloroform	...	0.000	83	0	N.D.		
26) Cyclohexane	...	0.000	56	0	N.D.		
27) 1,1,1-Trichloroethane	...	0.000	97	0	N.D.		
30) 1,1-Dichloropropene	...	0.000	110	0	N.D.		
31) Carbon tetrachloride	...	0.000	119	0	N.D.		
32) Benzene	...	8.190	78	4592	0.58	ug/kg#	51
33) 1,2-Dichloroethane	...	0.000	62	0	N.D.		
34) Trichloroethene	...	0.000	130	0	N.D.		
35) Methylcyclohexane	...	0.000	55	0	N.D.		
36) 1,2-Dichloropropane	...	0.000	63	0	N.D.		
37) Dibromomethane	...	0.000	93	0	N.D.		
38) 1,4-Dioxane	...	0.000	88	0	N.D.		
39) Bromodichloromethane	...	0.000	83	0	N.D.		
40) 2-Chloroethyl vinyl ether	...	0.000	63	0	N.D.		
41) cis-1,3-Dichloropropene	...	0.000	75	0	N.D.		
42) 4-Methyl-2-pentanone	...	10.170	43	3699	5.10	ug/kg#	50
44) Toluene	...	10.330	92	14800	3.01	ug/kg	95
45) trans-1,3-Dichloropropene	...	0.000	75	0	N.D.		
46) 1,1,2-Trichloroethane	...	0.000	83	0	N.D.		
48) 2-Hexanone	...	10.940	43	3599	2.07	ug/kg#	34

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142129.D
Acq On : 14 Dec 2021 8:39 pm
Operator : RAC
Sample : 2112G62-007A 4.42
Misc : SAMP 8260_TCL4.2_S
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Dec 15 09:11:52 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	0.000	166	0	N.D.		
50) 1,3-Dichloropropane	0.000	76	0	N.D.		
51) Dibromochloromethane	0.000	129	0	N.D.		
52) 1,2-Dibromoethane	0.000	107	0	N.D.		
53) Chlorobenzene	0.000	112	0	N.D.		
54) 1,1,1,2-Tetrachloroethane	0.000	131	0	N.D.		
55) Ethylbenzene	11.688	91	42690	5.12	ug/kg	93
56) m,p-Xylene	11.794	91	4778	0.79	ug/kg#	27
57) o-Xylene	12.121	91	4537	4.17	ug/kg#	67
58) Styrene	12.137	104	354483	58.65	ug/kg#	75
59) Bromoform	0.000	173	0	N.D.		
62) Bromobenzene	0.000	156	0	N.D.		
63) 1,1,2,2-Tetrachloroethane	0.000	83	0	N.D.		
64) 1,2,3-Trichloropropane	0.000	75	0	N.D. d		
65) Isopropylbenzene	12.419	105	4147	0.96	ug/kg#	48
66) n-Propylbenzene	0.000	91	0	N.D. d		
67) trans-1,4-Dichloro-2-butene	0.000	124	0	N.D.		
68) 2-Chlorotoluene	0.000	91	0	N.D. d		
69) 4-Chlorotoluene	0.000	91	0	N.D. d		
70) 1,3,5-Trimethylbenzene	0.000	105	0	N.D. d		
71) tert-Butylbenzene	0.000	119	0	N.D.		
72) 1,2,4-Trimethylbenzene	0.000	105	0	N.D. d		
73) sec-Butylbenzene	0.000	105	0	N.D. d		
74) 1,3-Dichlorobenzene	0.000	146	0	N.D.		
75) 4-Isopropyltoluene	0.000	119	0	N.D.		
76) 1,4-Dichlorobenzene	0.000	146	0	N.D.		
77) 1,2-Dichlorobenzene	0.000	146	0	N.D.		
78) n-Butylbenzene	0.000	91	0	N.D.		
79) 1,2-Dibromo-3-chloropropane	0.000	75	0	N.D.		
80) 1,2,4-Trichlorobenzene	0.000	180	0	N.D.		
81) Hexachlorobutadiene	0.000	225	0	N.D.		
82) Naphthalene	15.278	128	34652	9.61	ug/kg	100
83) 1,2,3-Trichlorobenzene	0.000	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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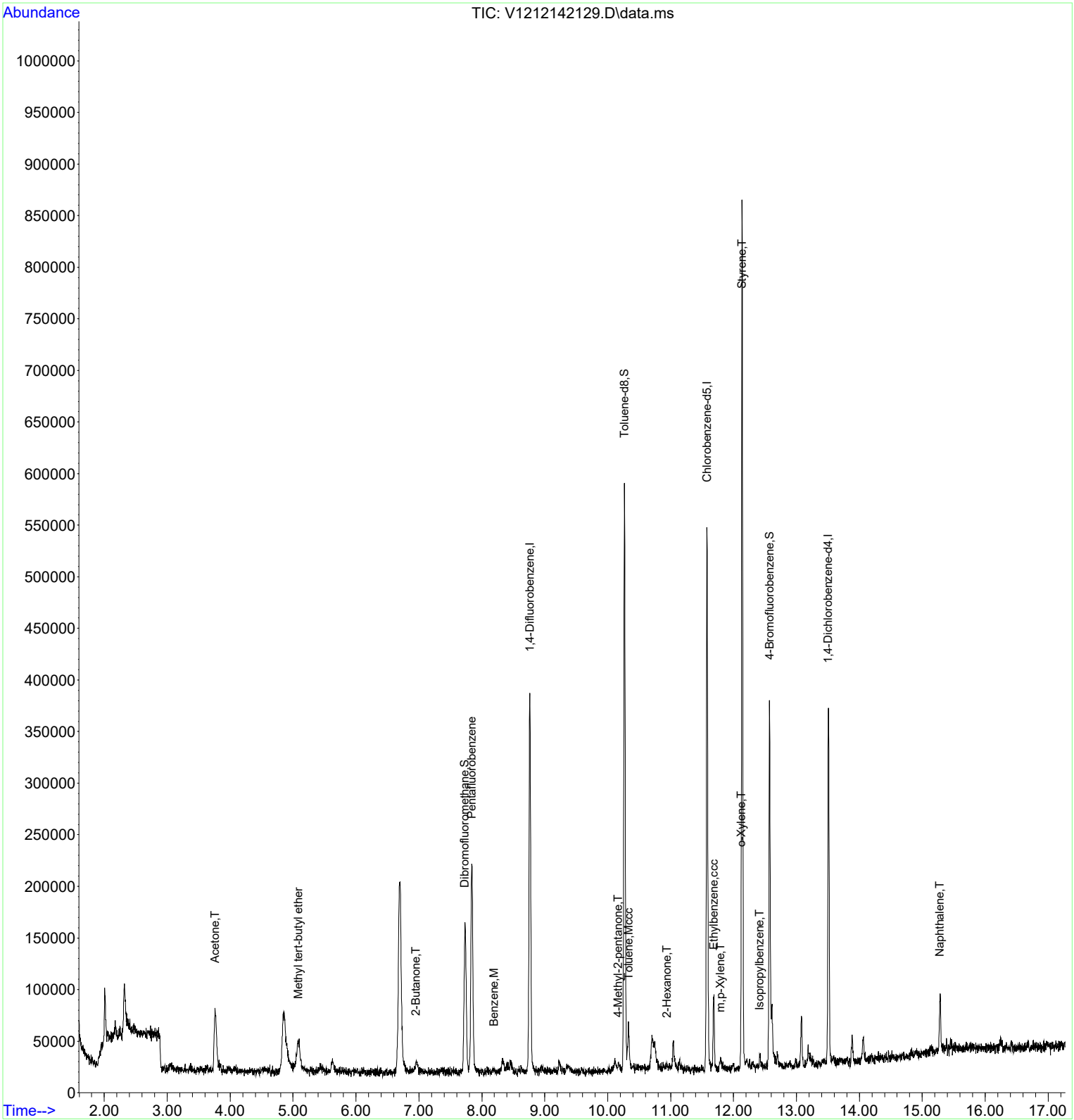
Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142129.D
Acq On : 14 Dec 2021 8:39 pm
Operator : RAC
Sample : 2112G62-007A 4.42
Misc : SAMP 8260_TCL4.2_S
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Dec 15 09:11:52 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142130.D
Acq On : 14 Dec 2021 9:04 pm
Operator : RAC
Sample : 2112G62-008A 2.36
Misc : SAMP 8260_TCL4.2_S
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Dec 15 09:13:08 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	...	7.844	168	130125	50.00	ug/kg	0.00
28) 1,4-Difluorobenzene	...	8.765	114	220727	50.00	ug/kg	0.00
47) Chlorobenzene-d5	...	11.579	117	154939	50.00	ug/kg	0.00
61) 1,4-Dichlorobenzene-d4	...	13.510	152	47821	50.00	ug/kg	0.00
System Monitoring Compounds							
29) Dibromofluoromethane	...	7.735	113	72172	49.75	ug/kg	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery =	99.50%			
43) Toluene-d8	...	10.270	98	245935	44.35	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery =	88.70%			
60) 4-Bromofluorobenzene	...	12.570	95	46563	37.40	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery =	74.80%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	...	0.000	85	0	N.D.		
3) Chloromethane	...	0.000	50	0	N.D.		
4) Vinyl chloride	...	0.000	62	0	N.D.		
5) Bromomethane	...	0.000	94	0	N.D.		
6) Chloroethane	...	0.000	64	0	N.D.		
7) Trichlorofluoromethane	...	0.000	101	0	N.D.		
8) Acrolein	...	0.000	56	0	N.D.	d	
9) 1,1-Dichloroethene	...	0.000	96	0	N.D.		
10) Freon-113	...	0.000	101	0	N.D.		
11) Acetone	...	3.759	58	61464	334.80	ug/kg	83
12) Iodomethane	...	0.000	142	0	N.D.		
13) Carbon disulfide	...	0.000	76	0	N.D.		
14) Methyl acetate	...	0.000	43	0	N.D.		
15) Vinyl acetate	...	0.000	43	0	N.D.	d	
16) Methylene chloride	...	0.000	84	0	N.D.		
17) Acrylonitrile	...	0.000	53	0	N.D.		
18) Methyl tert-butyl ether	...	0.000	73	0	N.D.		
19) trans-1,2-Dichloroethene	...	0.000	96	0	N.D.		
20) 1,1-Dichloroethane	...	0.000	63	0	N.D.		
21) 2,2-Dichloropropane	...	0.000	77	0	N.D.		
22) cis-1,2-Dichloroethene	...	0.000	96	0	N.D.		
23) 2-Butanone	...	0.000	72	0	N.D.		
24) Bromochloromethane	...	0.000	128	0	N.D.		
25) Chloroform	...	0.000	83	0	N.D.		
26) Cyclohexane	...	0.000	56	0	N.D.		
27) 1,1,1-Trichloroethane	...	0.000	97	0	N.D.		
30) 1,1-Dichloropropene	...	0.000	110	0	N.D.		
31) Carbon tetrachloride	...	0.000	119	0	N.D.		
32) Benzene	...	0.000	78	0	N.D.		
33) 1,2-Dichloroethane	...	0.000	62	0	N.D.		
34) Trichloroethene	...	0.000	130	0	N.D.		
35) Methylcyclohexane	...	0.000	55	0	N.D.		
36) 1,2-Dichloropropane	...	0.000	63	0	N.D.		
37) Dibromomethane	...	0.000	93	0	N.D.		
38) 1,4-Dioxane	...	0.000	88	0	N.D.		
39) Bromodichloromethane	...	0.000	83	0	N.D.		
40) 2-Chloroethyl vinyl ether	...	0.000	63	0	N.D.		
41) cis-1,3-Dichloropropene	...	0.000	75	0	N.D.		
42) 4-Methyl-2-pentanone	...	0.000	43	0	N.D.	d	
44) Toluene	...	10.331	92	6919	1.92	ug/kg	97
45) trans-1,3-Dichloropropene	...	0.000	75	0	N.D.		
46) 1,1,2-Trichloroethane	...	0.000	83	0	N.D.		
48) 2-Hexanone	...	0.000	43	0	N.D.	d	

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142130.D
Acq On : 14 Dec 2021 9:04 pm
Operator : RAC
Sample : 2112G62-008A 2.36
Misc : SAMP 8260_TCL4.2_S
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Dec 15 09:13:08 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

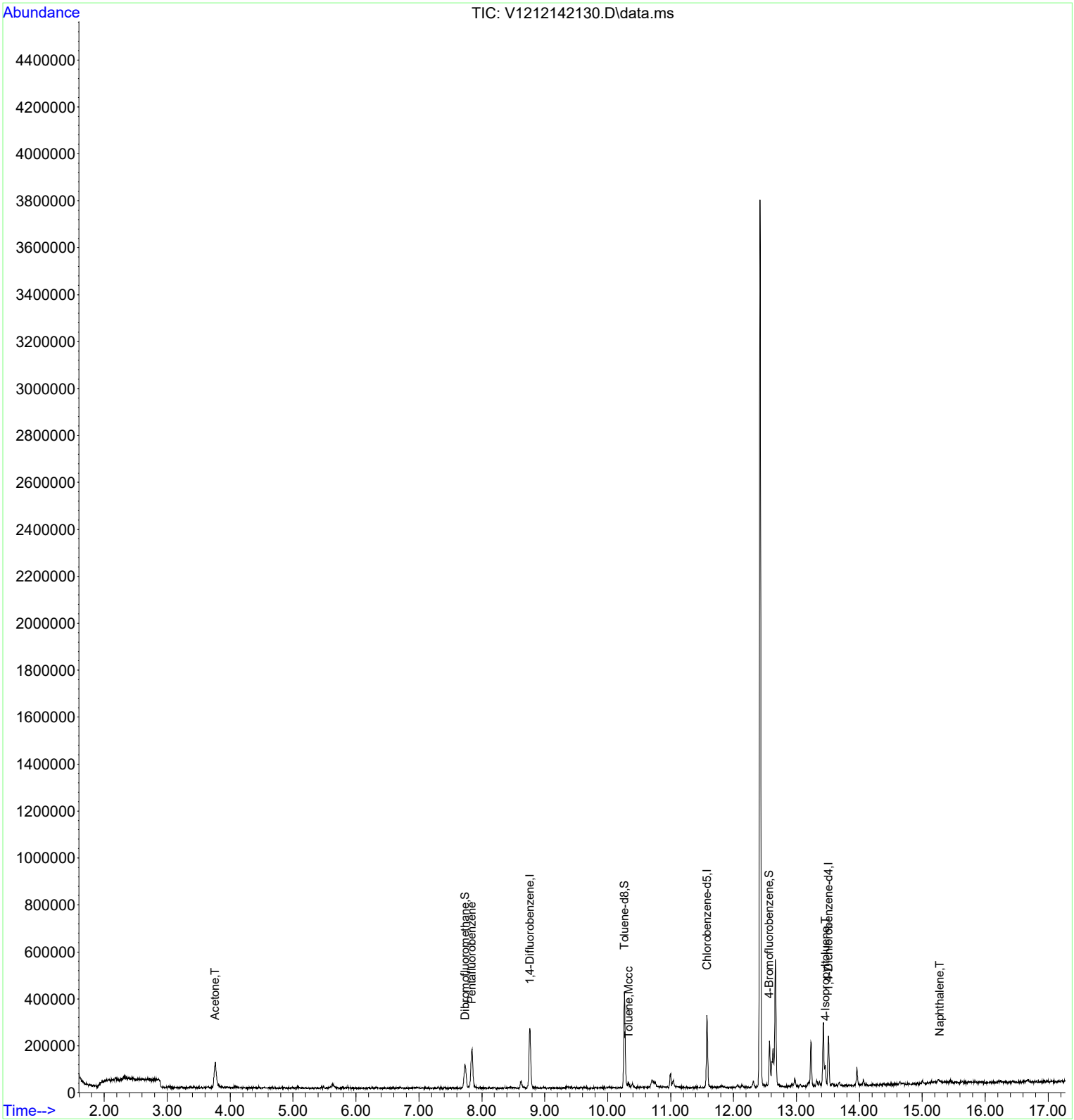
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	0.000	166	0	N.D.		
50) 1,3-Dichloropropane	0.000	76	0	N.D.		
51) Dibromochloromethane	0.000	129	0	N.D.		
52) 1,2-Dibromoethane	0.000	107	0	N.D.		
53) Chlorobenzene	0.000	112	0	N.D.		
54) 1,1,1,2-Tetrachloroethane	0.000	131	0	N.D.		
55) Ethylbenzene	0.000	91	0	N.D.		
56) m,p-Xylene	0.000	91	0	N.D.		
57) o-Xylene	0.000	91	0	N.D. d		
58) Styrene	0.000	104	0	N.D. d		
59) Bromoform	0.000	173	0	N.D.		
62) Bromobenzene	0.000	156	0	N.D.		
63) 1,1,2,2-Tetrachloroethane	0.000	83	0	N.D.		
64) 1,2,3-Trichloropropane	0.000	75	0	N.D. d		
65) Isopropylbenzene	0.000	105	0	N.D. d		
66) n-Propylbenzene	0.000	91	0	N.D. d		
67) trans-1,4-Dichloro-2-butene	0.000	124	0	N.D.		
68) 2-Chlorotoluene	0.000	91	0	N.D. d		
69) 4-Chlorotoluene	0.000	91	0	N.D. d		
70) 1,3,5-Trimethylbenzene	0.000	105	0	N.D. d		
71) tert-Butylbenzene	0.000	119	0	N.D. d		
72) 1,2,4-Trimethylbenzene	0.000	105	0	N.D. d		
73) sec-Butylbenzene	0.000	105	0	N.D. d		
74) 1,3-Dichlorobenzene	0.000	146	0	N.D.		
75) 4-Isopropyltoluene	13.459	119	43873	18.37	ug/kg#	84
76) 1,4-Dichlorobenzene	0.000	146	0	N.D.		
77) 1,2-Dichlorobenzene	0.000	146	0	N.D.		
78) n-Butylbenzene	0.000	91	0	N.D. d		
79) 1,2-Dibromo-3-chloropropane	0.000	75	0	N.D.		
80) 1,2,4-Trichlorobenzene	0.000	180	0	N.D.		
81) Hexachlorobutadiene	0.000	225	0	N.D.		
82) Naphthalene	15.282	128	5071	2.38	ug/kg	100
83) 1,2,3-Trichlorobenzene	0.000	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142130.D
Acq On : 14 Dec 2021 9:04 pm
Operator : RAC
Sample : 2112G62-008A 2.36
Misc : SAMP 8260_TCL4.2_S
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Dec 15 09:13:08 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142131.D
Acq On : 14 Dec 2021 9:28 pm
Operator : RAC
Sample : 2112G62-009A 4.99
Misc : SAMP 8260_TCL4.2_S
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Dec 15 09:54:06 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	...	7.838	168	150749	50.00	ug/kg	0.00
28) 1,4-Difluorobenzene	...	8.763	114	274160	50.00	ug/kg	0.00
47) Chlorobenzene-d5	...	11.580	117	233623	50.00	ug/kg	0.00
61) 1,4-Dichlorobenzene-d4	...	13.508	152	75590	50.00	ug/kg	0.00
System Monitoring Compounds							
29) Dibromofluoromethane	...	7.733	113	87490	48.55	ug/kg	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 97.10%				
43) Toluene-d8	...	10.271	98	318500	46.24	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 92.48%				
60) 4-Bromofluorobenzene	...	12.571	95	73640	39.23	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 78.46%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	...	0.000	85	0	N.D.		
3) Chloromethane	...	0.000	50	0	N.D.		
4) Vinyl chloride	...	0.000	62	0	N.D.		
5) Bromomethane	...	0.000	94	0	N.D.		
6) Chloroethane	...	0.000	64	0	N.D. d		
7) Trichlorofluoromethane	...	0.000	101	0	N.D.		
8) Acrolein	...	0.000	56	0	N.D. d		
9) 1,1-Dichloroethene	...	0.000	96	0	N.D.		
10) Freon-113	...	0.000	101	0	N.D.		
11) Acetone	...	3.779	58	10490	49.32	ug/kg	84
12) Iodomethane	...	0.000	142	0	N.D.		
13) Carbon disulfide	...	0.000	76	0	N.D.		
14) Methyl acetate	...	0.000	43	0	N.D. d		
15) Vinyl acetate	...	0.000	43	0	N.D. d		
16) Methylene chloride	...	0.000	84	0	N.D.		
17) Acrylonitrile	...	0.000	53	0	N.D.		
18) Methyl tert-butyl ether	...	0.000	73	0	N.D.		
19) trans-1,2-Dichloroethene	...	0.000	96	0	N.D.		
20) 1,1-Dichloroethane	...	0.000	63	0	N.D.		
21) 2,2-Dichloropropane	...	0.000	77	0	N.D.		
22) cis-1,2-Dichloroethene	...	0.000	96	0	N.D.		
23) 2-Butanone	...	0.000	72	0	N.D.		
24) Bromochloromethane	...	0.000	128	0	N.D.		
25) Chloroform	...	0.000	83	0	N.D.		
26) Cyclohexane	...	0.000	56	0	N.D. d		
27) 1,1,1-Trichloroethane	...	0.000	97	0	N.D.		
30) 1,1-Dichloropropene	...	0.000	110	0	N.D.		
31) Carbon tetrachloride	...	0.000	119	0	N.D.		
32) Benzene	...	0.000	78	0	N.D.		
33) 1,2-Dichloroethane	...	0.000	62	0	N.D.		
34) Trichloroethene	...	0.000	130	0	N.D.		
35) Methylcyclohexane	...	0.000	55	0	N.D.		
36) 1,2-Dichloropropane	...	0.000	63	0	N.D.		
37) Dibromomethane	...	0.000	93	0	N.D.		
38) 1,4-Dioxane	...	0.000	88	0	N.D.		
39) Bromodichloromethane	...	0.000	83	0	N.D.		
40) 2-Chloroethyl vinyl ether	...	0.000	63	0	N.D.		
41) cis-1,3-Dichloropropene	...	0.000	75	0	N.D.		
42) 4-Methyl-2-pentanone	...	0.000	43	0	N.D. d		
44) Toluene	...	10.332	92	3119	0.70	ug/kg	95
45) trans-1,3-Dichloropropene	...	0.000	75	0	N.D.		
46) 1,1,2-Trichloroethane	...	0.000	83	0	N.D.		
48) 2-Hexanone	...	0.000	43	0	N.D. d		

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142131.D
Acq On : 14 Dec 2021 9:28 pm
Operator : RAC
Sample : 2112G62-009A 4.99
Misc : SAMP 8260_TCL4.2_S
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Dec 15 09:54:06 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration

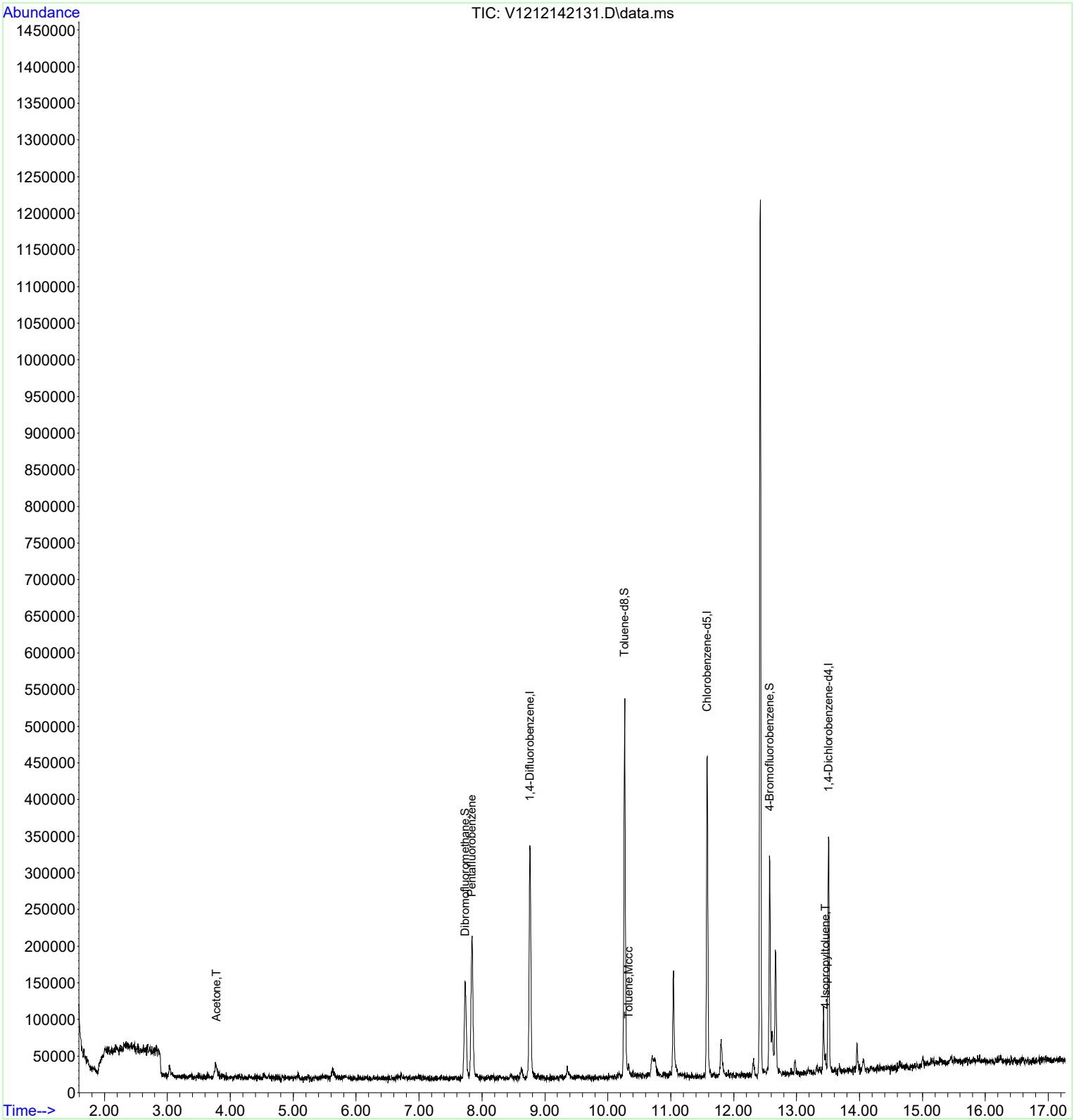
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	0.000	166	0	N.D.		
50) 1,3-Dichloropropane	0.000	76	0	N.D.		
51) Dibromochloromethane	0.000	129	0	N.D.		
52) 1,2-Dibromoethane	0.000	107	0	N.D.		
53) Chlorobenzene	0.000	112	0	N.D.		
54) 1,1,1,2-Tetrachloroethane	0.000	131	0	N.D.		
55) Ethylbenzene	0.000	91	0	N.D.		
56) m,p-Xylene	0.000	91	0	N.D.		
57) o-Xylene	0.000	91	0	N.D.	d	
58) Styrene	0.000	104	0	N.D.	d	
59) Bromoform	0.000	173	0	N.D.		
62) Bromobenzene	0.000	156	0	N.D.		
63) 1,1,2,2-Tetrachloroethane	0.000	83	0	N.D.		
64) 1,2,3-Trichloropropane	0.000	75	0	N.D.	d	
65) Isopropylbenzene	0.000	105	0	N.D.	d	
66) n-Propylbenzene	0.000	91	0	N.D.	d	
67) trans-1,4-Dichloro-2-butene	0.000	124	0	N.D.		
68) 2-Chlorotoluene	0.000	91	0	N.D.	d	
69) 4-Chlorotoluene	0.000	91	0	N.D.	d	
70) 1,3,5-Trimethylbenzene	0.000	105	0	N.D.	d	
71) tert-Butylbenzene	0.000	119	0	N.D.	d	
72) 1,2,4-Trimethylbenzene	0.000	105	0	N.D.		
73) sec-Butylbenzene	0.000	105	0	N.D.		
74) 1,3-Dichlorobenzene	0.000	146	0	N.D.		
75) 4-Isopropyltoluene	13.460	119	11512	6.51	ug/kg#	59
76) 1,4-Dichlorobenzene	0.000	146	0	N.D.		
77) 1,2-Dichlorobenzene	0.000	146	0	N.D.		
78) n-Butylbenzene	0.000	91	0	N.D.	d	
79) 1,2-Dibromo-3-chloropropane	0.000	75	0	N.D.		
80) 1,2,4-Trichlorobenzene	0.000	180	0	N.D.		
81) Hexachlorobutadiene	0.000	225	0	N.D.		
82) Naphthalene	0.000	128	0	N.D.		
83) 1,2,3-Trichlorobenzene	0.000	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211214\
Data File : V1212142131.D
Acq On : 14 Dec 2021 9:28 pm
Operator : RAC
Sample : 2112G62-009A 4.99
Misc : SAMP 8260_TCL4.2_S
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Dec 15 09:54:06 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Fri Dec 03 14:02:51 2021
Response via : Initial Calibration



Injection Log

Directory: C:\MS-12\New\Raw Data\211201

Line	Vial	FileName	Multiplier	SampleName			Misc Info	Injected
1	1	V1212012101.D	1.	MB			BLANK	1 Dec 2021 07:54
2	2	V1212012102.D	1.	MB			BLANK	1 Dec 2021 08:18
3	3	V1212012103.D	1.	MB			BLANK	1 Dec 2021 08:43
4	4	V1212012104.D	1.	MB			BLANK	1 Dec 2021 09:08
5	5	V1212012105.D	1.	ICAL 8260 001 S			BLANK	1 Dec 2021 09:32
6	6	V1212012106.D	1.	ICAL 8260 005 S			BLANK	1 Dec 2021 09:57
7	7	V1212012107.D	1.	ICAL 8260 010 S			BLANK	1 Dec 2021 10:22
8	8	V1212012108.D	1.	ICAL 8260 020 S			BLANK	1 Dec 2021 10:47
9	9	V1212012109.D	1.	ICAL 8260 050 S			BLANK	1 Dec 2021 11:12
10	10	V1212012110.D	1.	ICAL 8260 100 S			BLANK	1 Dec 2021 11:37
11	11	V1212012111.D	1.	ICAL 8260 150 S			BLANK	1 Dec 2021 12:01
12	12	V1212012112.D	1.	ICAL 8260 200 S			BLANK	1 Dec 2021 12:26
13	13	V1212012113.D	1.	MB			BLANK	1 Dec 2021 12:51
14	14	V1212012114.D	1.	MB			BLANK	1 Dec 2021 13:15
15	15	V1212012115.D	1.	MB			BLANK	1 Dec 2021 13:40
16	16	V1212012116.D	1.	ICV 8260 050 S			BLANK	1 Dec 2021 14:05
17	17	V1212012117.D	1.	MB			BLANK	1 Dec 2021 14:44
18	18	V1212012118.D	1.	CCV 8260 050 S			CCV 8260B_S	1 Dec 2021 15:09
19	19	V1212012119.D	1.	MB			BLANK	1 Dec 2021 15:33
20	20	V1212012120.D	1.	MB			MBLK 8260B_S	1 Dec 2021 15:58
21	21	V1212012121.D	1.	2111S75-001AMS	5.58	2/3	MS 8260B_S	1 Dec 2021 16:23
22	22	V1212012122.D	1.	2111S75-002ADUP	4.73	2/3	DUP 8260B_S	1 Dec 2021 16:48
23	23	V1212012123.D	1.	2111R44-006A	6.04	2/3	SAMP 8260B_S	1 Dec 2021 17:13
24	24	V1212012124.D	1.	2111R44-007A	4.10	1/3	SAMP 8260B_S	1 Dec 2021 17:38
25	25	V1212012125.D	1.	2111R44-008A	2.73	1/3	SAMP 8260B_S	1 Dec 2021 18:02
26	26	V1212012126.D	1.	2111R44-009A	4.05	1/3	SAMP 8260B_S	1 Dec 2021 18:27
27	27	V1212012127.D	1.	2111T35-003A	9.22	1/3	SAMP 8260_SC_TCL4.2_S	1 Dec 2021 18:52
28	28	V1212012128.D	1.	2111T35-004A	11.43	1/3	SAMP 8260_SC_TCL4.2_S	1 Dec 2021 19:16
29	29	V1212012129.D	1.	2111T35-005A	10.27	1/3	SAMP 8260_SC_TCL4.2_S	1 Dec 2021 19:41
30	30	V1212012130.D	1.	2111T35-006A	10.50	1/3	SAMP 8260_SC_TCL4.2_S	1 Dec 2021 20:06
31	31	V1212012131.D	1.	2111T35-007A	9.94	1/3	SAMP 8260_SC_TCL4.2_S	1 Dec 2021 20:30
32	32	V1212012132.D	1.	2111T94-005A	8.50	1/3	SAMP 8260_TCL4.2_S	1 Dec 2021 20:55
33	33	V1212012133.D	1.	2111T94-006A	6.18	1/3	SAMP 8260_TCL4.2_S	1 Dec 2021 21:20
34	34	V1212012134.D	1.	2111T95-001A	5.23	1/3	SAMP 8260B_S	1 Dec 2021 21:45
35	35	V1212012135.D	1.	2111T95-002A	1.89	1/3	SAMP 8260B_S	1 Dec 2021 22:10
36	36	V1212012136.D	1.	2111T95-003A	4.27	1/3	SAMP 8260B_S	1 Dec 2021 22:35
37	37	V1212012137.D	1.	2111T95-004A	2.21	1/3	SAMP 8260B_S	1 Dec 2021 23:00
38	38	V1212012138.D	1.	2111T95-005A	2.49	1/3	SAMP 8260B_S	1 Dec 2021 23:25
39	39	V1212012139.D	1.	2111T95-006A	4.22	1/3	SAMP 8260B_S	1 Dec 2021 23:50
40		V1212012140.D	1.					

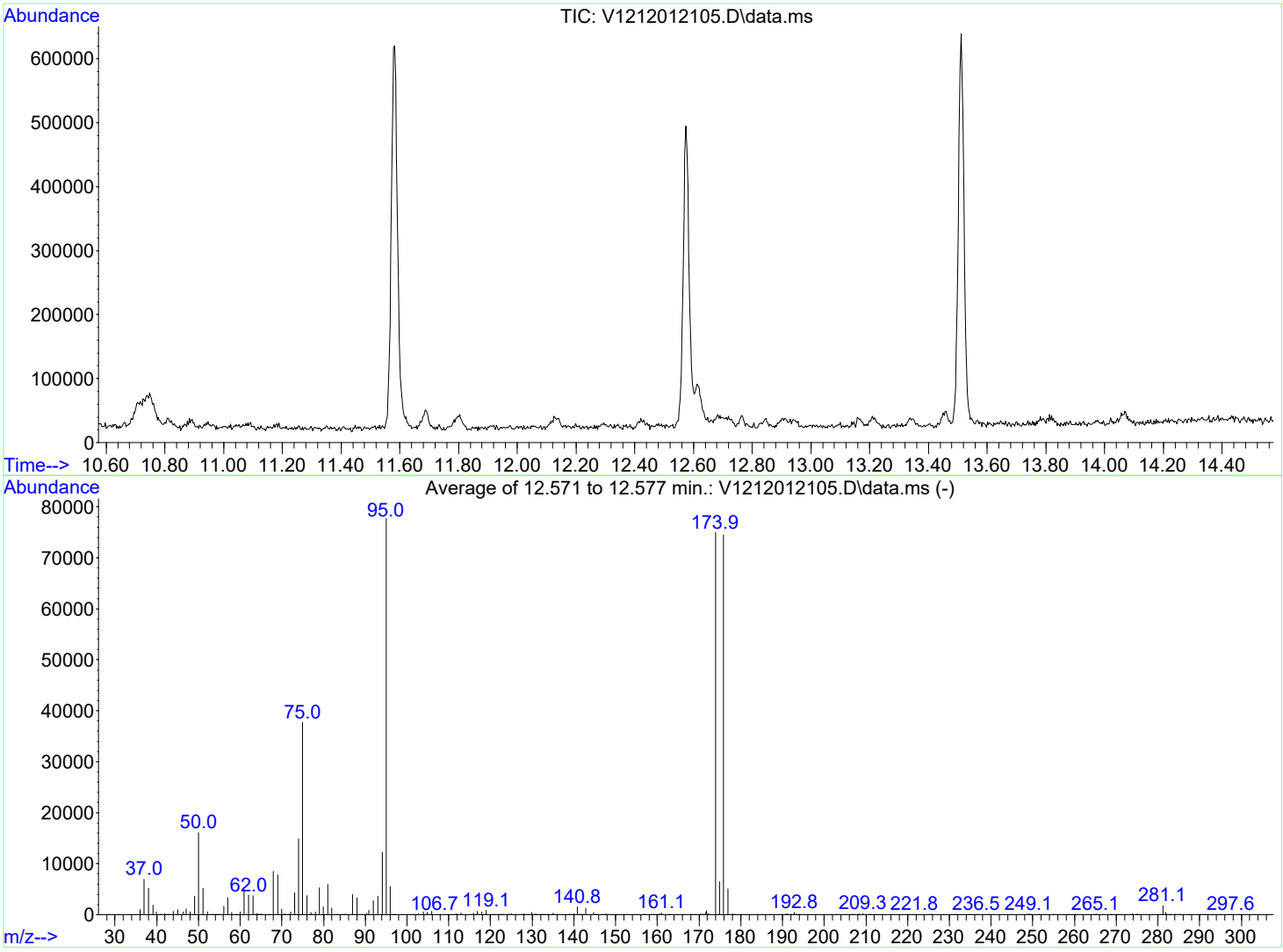
pH/Cl2

Loaded by RB

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012105.D
Acq On : 1 Dec 2021 9:32 am
Operator : RAC
Sample : ICAL 8260 001 S
Misc : BLANK
ALS Vial : 5 Sample Multiplier: 1

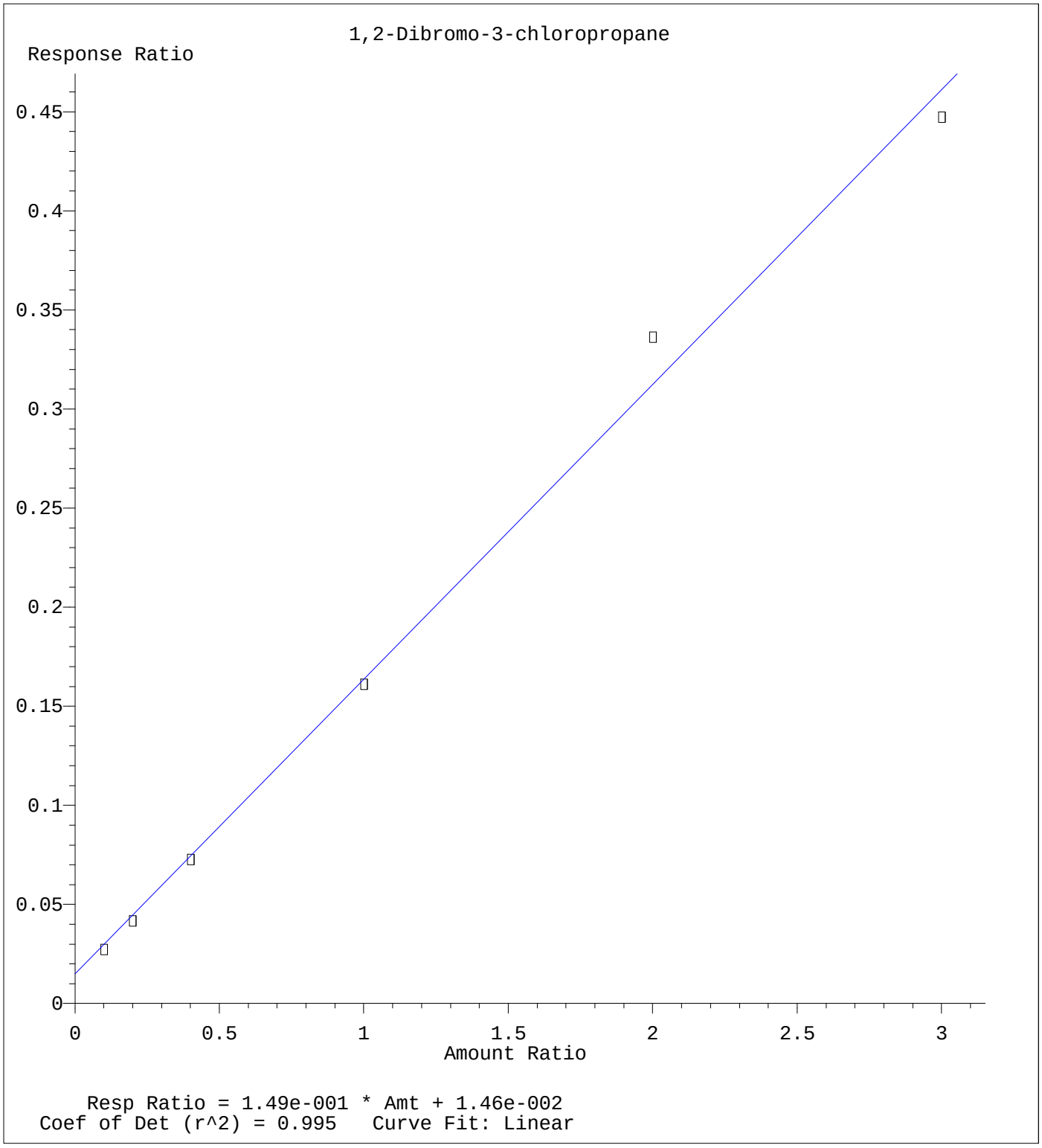
Integration File: rteint.p

Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Title : 8260/624 Purgeable organics calibration.
Last Update : Fri Nov 26 14:55:47 2021

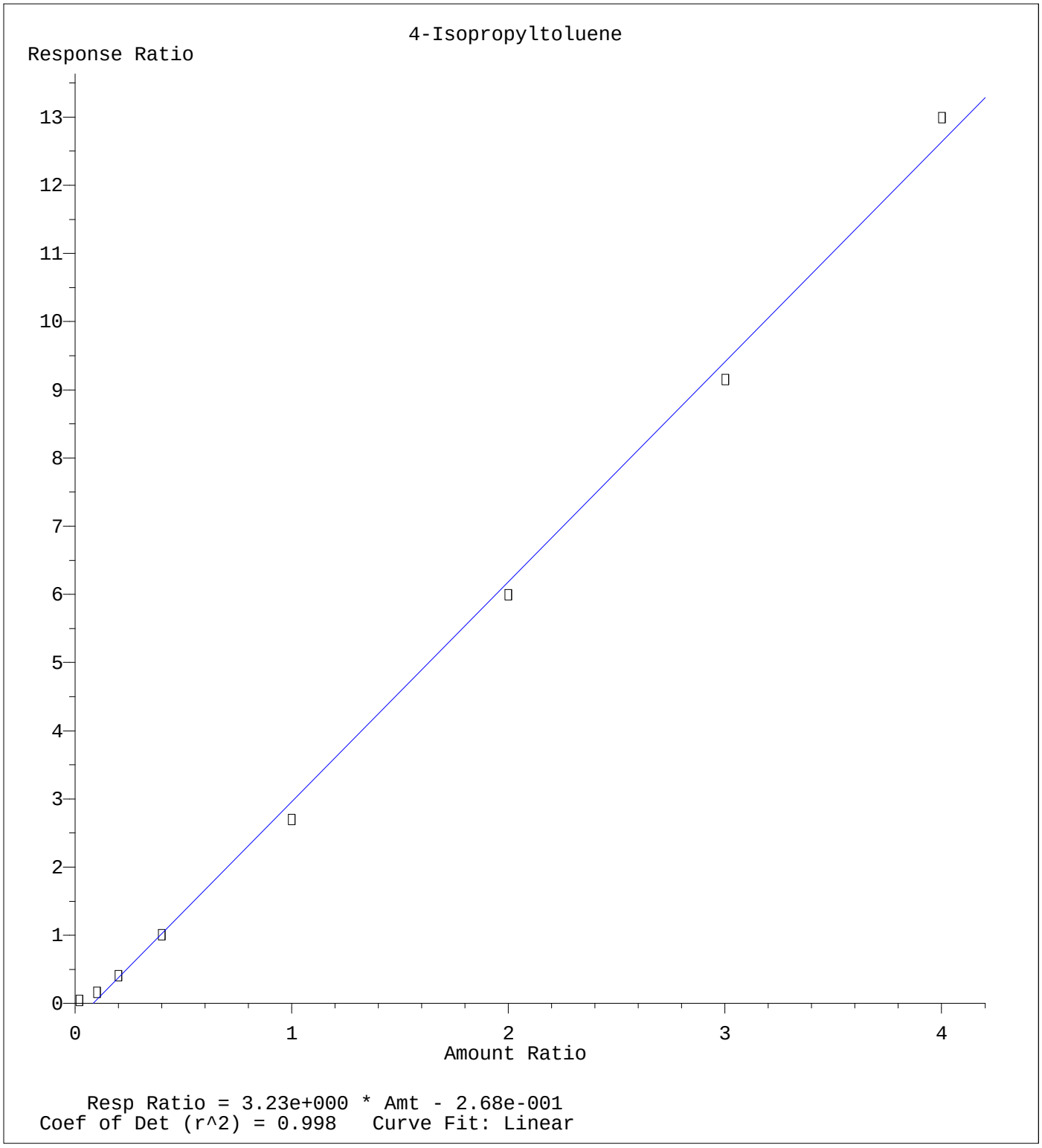


AutoFind: Scans 3422, 3423, 3424; Background Corrected with Scan 3410

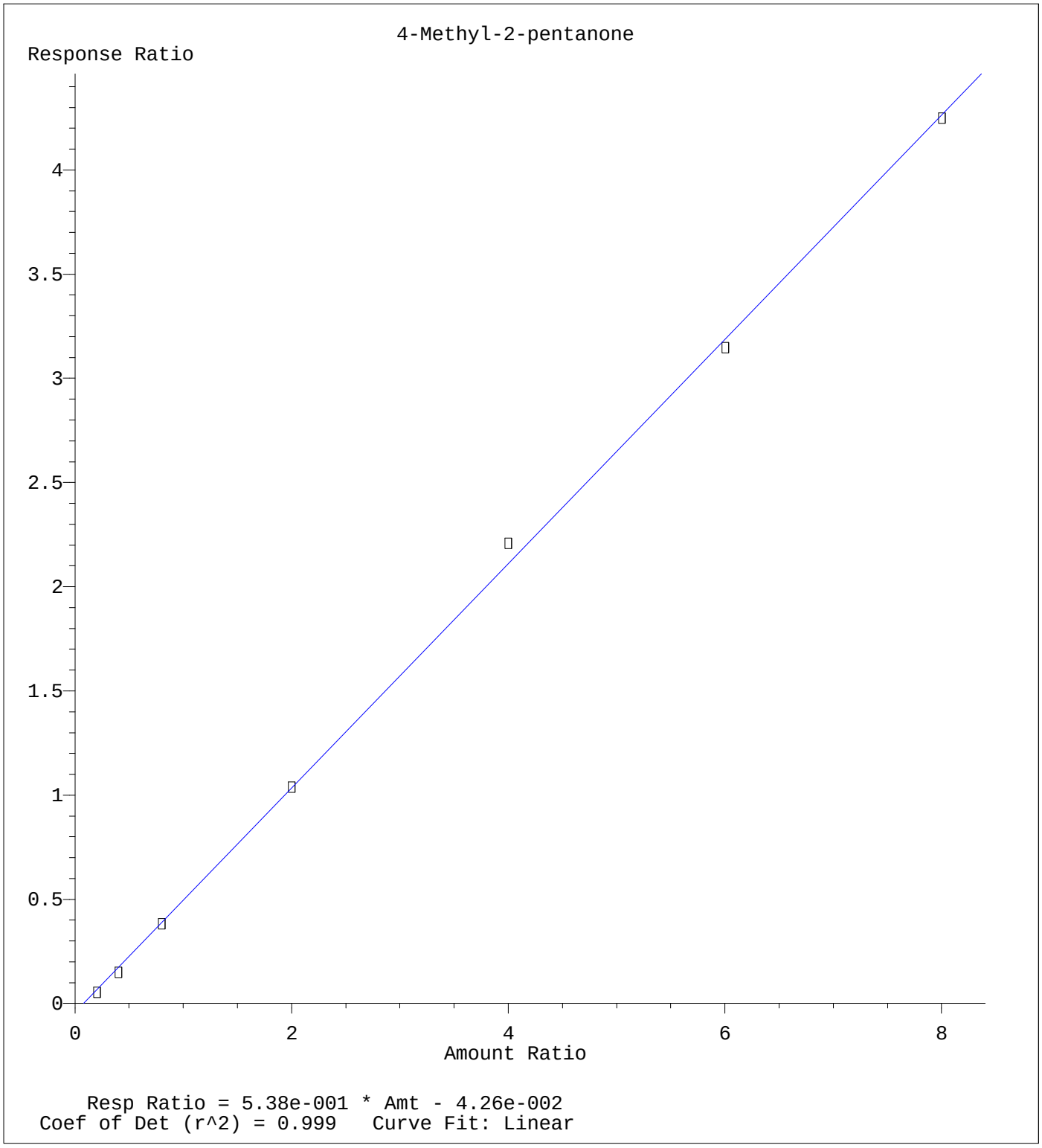
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.8	16155	PASS
75	95	30	60	48.6	37725	PASS
95	95	100	100	100.0	77690	PASS
96	95	5	9	7.2	5563	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	96.5	74957	PASS
175	174	5	9	8.6	6468	PASS
176	174	95	101	99.4	74525	PASS
177	176	5	9	6.8	5035	PASS



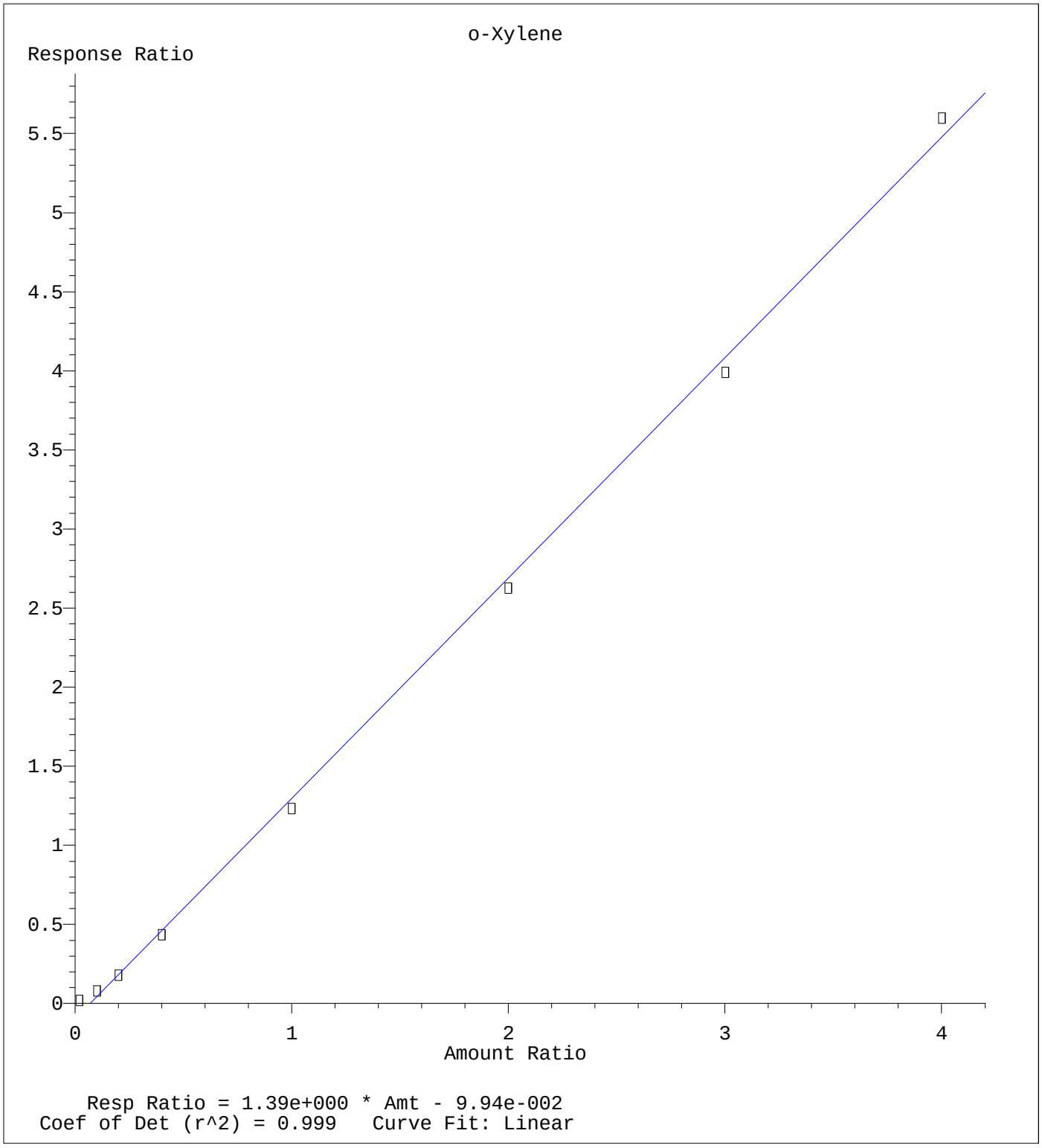
Method Name: C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Calibration Table Last Updated: Thu Dec 02 08:37:36 2021



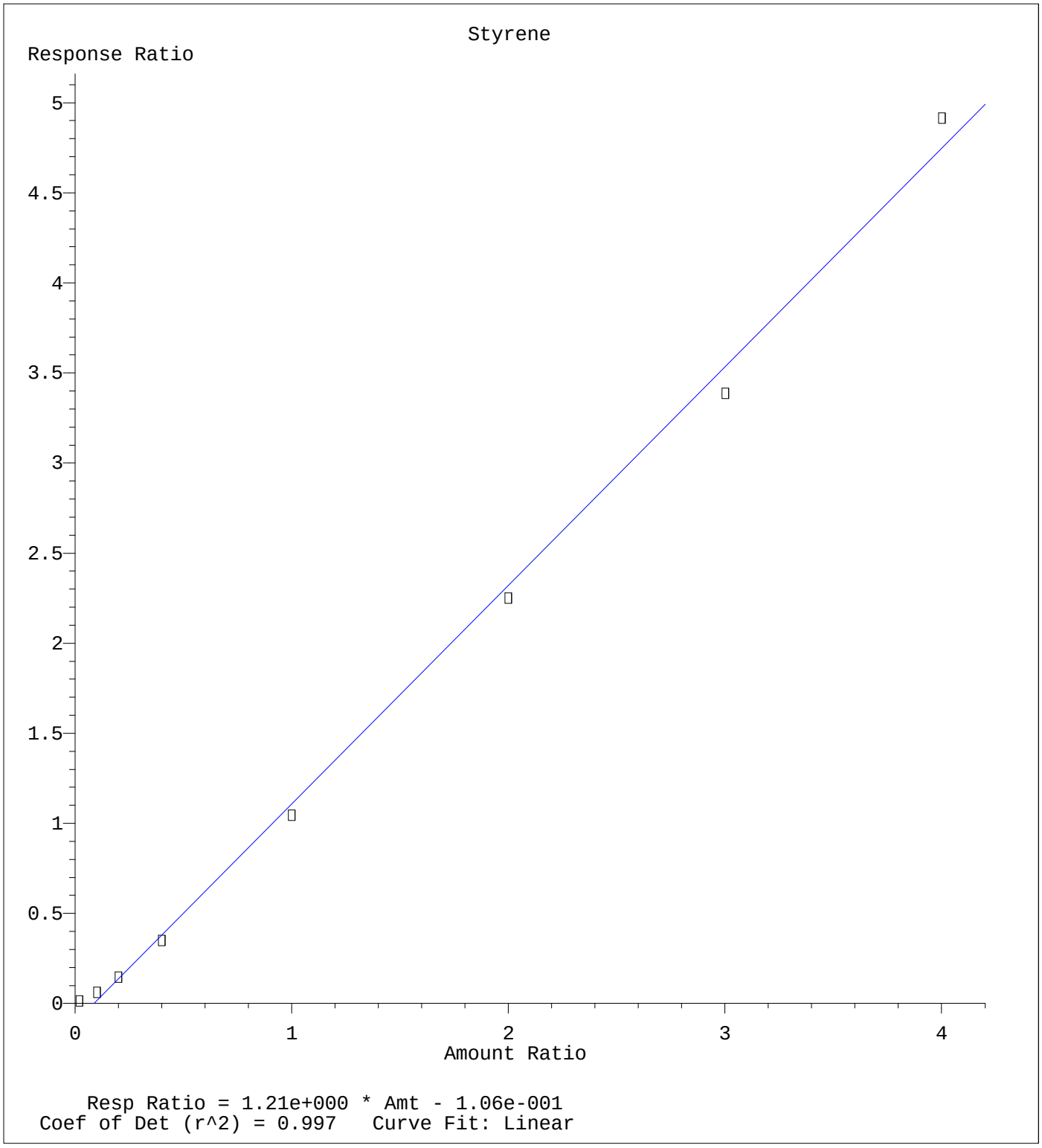
Method Name: C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Calibration Table Last Updated: Thu Dec 02 08:37:36 2021



Method Name: C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Calibration Table Last Updated: Thu Dec 02 08:37:36 2021



Method Name: C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Calibration Table Last Updated: Thu Dec 02 08:37:36 2021



Method Name: C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Calibration Table Last Updated: Thu Dec 02 08:37:36 2021

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012105.D
Acq On : 1 Dec 2021 9:32 am
Operator : RAC
Sample : ICAL 8260 001 S
Misc : BLANK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 08:18:03 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	-1.000	1.574	0.0	100	0.00
3	pcc	Chloromethane	-1.000	1.842	0.0	100	0.00
4	ccc	Vinyl chloride	-1.000	1.301	0.0	100	0.00
5	T	Bromomethane	1.000	1.263	-26.3	111	0.03
6	T	Chloroethane	-1.000	1.702	0.0	91	0.02
7	T	Trichlorofluoromethane	-1.000	1.466	0.0	100	0.00
8	T	Acrolein	-1.000	2.122	0.0	100	-0.04
9	Mccc	1,1-Dichloroethene	1.000	0.952	4.8	100	0.00
10		Freon-113	-1.000	1.095	0.0	100	0.00
11	T	Acetone	-1.000	15.742	0.0	96	0.00
12	T	Iodomethane	2.000	2.389	-19.4	101	0.00
13	T	Carbon disulfide	2.000	2.317	-15.9	100	0.00
14		Methyl acetate	-1.000	0.757	0.0	175	-0.46
15	T	Vinyl acetate	-1.000	1.793	0.0	100	0.02
16	T	Methylene chloride	-1.000	1.770	0.0	100	0.00
17	T	Acrylonitrile	-1.000	0.762	0.0	129	0.00
18		Methyl tert-butyl ether	-1.000	1.105	0.0	148	0.00
19	T	trans-1,2-Dichloroethene	-1.000	1.506	0.0	100	0.00
20	pcc	1,1-Dichloroethane	-1.000	1.584	0.0	127	0.00
21	T	2,2-Dichloropropane	-1.000	1.128	0.0	100	0.00
22	T	cis-1,2-Dichloroethene	-1.000	1.377	0.0	100	0.00
23	T	2-Butanone	-1.000	1.280	0.0	161	0.01
24	T	Bromochloromethane	-1.000	1.725	0.0	98	0.00
25	ccc	Chloroform	-1.000	1.394	0.0	100	0.00
26		Cyclohexane	-1.000	0.837	0.0	100	0.00
27	T	1,1,1-Trichloroethane	-1.000	1.367	0.0	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	48.671	2.7	100	0.00
30	T	1,1-Dichloropropene	-1.000	0.849	0.0	100	0.00
31	T	Carbon tetrachloride	-1.000	0.075	0.0	111	0.10
32	M	Benzene	1.000	1.125	-12.5	100	0.00
33	T	1,2-Dichloroethane	-1.000	1.535	0.0	100	0.00
34	M	Trichloroethene	1.000	1.313	-31.3	100	0.00
35		Methylcyclohexane	1.000	1.162	-16.2	100	0.00
36	ccc	1,2-Dichloropropane	-1.000	1.536	0.0	99	0.00
37	T	Dibromomethane	-1.000	1.922	0.0	100	0.00
38		1,4-Dioxane	-1.000	3.159	0.0	71	0.00
39	T	Bromodichloromethane	-1.000	1.534	0.0	100	0.00
40	T	2-Chloroethyl vinyl ether	-1.000	3.239	0.0	105	0.00
41	T	cis-1,3-Dichloropropene	-1.000	1.246	0.0	100	0.00
42	T	4-Methyl-2-pentanone	-1.000	5.766	0.0	100	0.00
43	S	Toluene-d8	50.000	48.448	3.1	100	0.00
44	Mccc	Toluene	1.000	0.952	4.8	90	0.00
45	T	trans-1,3-Dichloropropene	1.000	1.015	-1.5	96	0.00
46	T	1,1,2-Trichloroethane	-1.000	1.673	0.0	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	-1.000	1.602	0.0	71	0.00
49	T	Tetrachloroethene	1.000	1.374	-37.4	100	0.00
50	T	1,3-Dichloropropane	-1.000	1.403	0.0	100	0.00
51	T	Dibromochloromethane	-1.000	1.632	0.0	108	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012105.D
Acq On : 1 Dec 2021 9:32 am
Operator : RAC
Sample : ICAL 8260 001 S
Misc : BLANK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 08:18:03 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	-1.000	1.394	0.0	100	0.00
53	pcc	Chlorobenzene	-1.000	1.231	0.0	100	0.00
54	T	1,1,1,2-Tetrachloroethane	-1.000	1.341	0.0	100	0.00
55	ccc	Ethylbenzene	1.000	0.967	3.3	100	0.00
56	T	m,p-Xylene	2.000	1.674	16.3	100	0.00
57	T	o-Xylene	1.000	4.194	-319.4#	100	0.00
58	T	Styrene	1.000	4.965	-396.5#	100	0.00
59	pcc	Bromoform	-1.000	1.437	0.0	100	0.00
60	S	4-Bromofluorobenzene	50.000	46.740	6.5	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	-1.000	1.390	0.0	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	-1.000	1.584	0.0	102	0.00
64	T	1,2,3-Trichloropropane	-1.000	0.736	0.0	100	0.00
65	T	Isopropylbenzene	-1.000	0.890	0.0	100	0.00
66	T	n-Propylbenzene	-1.000	0.985	0.0	100	0.00
67	T	trans-1,4-Dichloro-2-butene	-1.000	3.422	0.0	100	0.00
68	T	2-Chlorotoluene	-1.000	1.046	0.0	100	0.00
69	T	4-Chlorotoluene	-1.000	1.135	0.0	100	0.00
70	T	1,3,5-Trimethylbenzene	-1.000	1.018	0.0	100	0.00
71	T	tert-Butylbenzene	1.000	0.964	3.6	94	0.00
72	T	1,2,4-Trimethylbenzene	-1.000	0.924	0.0	100	0.00
73	T	sec-Butylbenzene	-1.000	0.787	0.0	100	0.00
74	T	1,3-Dichlorobenzene	-1.000	1.091	0.0	100	0.00
75	T	4-Isopropyltoluene	1.000	4.784	-378.4#	100	0.00
76	T	1,4-Dichlorobenzene	-1.000	1.335	0.0	100	0.00
77	T	1,2-Dichlorobenzene	-1.000	1.056	0.0	100	0.00
78	T	n-Butylbenzene	-1.000	0.751	0.0	100	0.00
79	T	1,2-Dibromo-3-chloropropane	-1.000	-3.263	0.0	156	0.02
80	T	1,2,4-Trichlorobenzene	-1.000	1.240	0.0	100	0.00
81	T	Hexachlorobutadiene	-1.000	1.585	0.0	100	0.00
82	T	Naphthalene	1.000	0.884	11.6	100	0.00
83	T	1,2,3-Trichlorobenzene	-1.000	1.075	0.0	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012106.D
Acq On : 1 Dec 2021 9:57 am
Operator : RAC
Sample : ICAL 8260 005 S
Misc : BLANK
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 02 08:24:59 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	5.000	4.874	2.5	100	0.00
3	pcc	Chloromethane	5.000	4.639	7.2	100	0.00
4	ccc	Vinyl chloride	5.000	3.907	21.9	100	0.00
5	T	Bromomethane	5.000	3.928	21.4	100	0.02
6	T	Chloroethane	5.000	4.169	16.6	100	0.02
7	T	Trichlorofluoromethane	5.000	5.075	-1.5	100	0.00
8	T	Acrolein	-1.000	2.831	0.0	100	0.00
9	Mccc	1,1-Dichloroethene	5.000	4.564	8.7	100	0.00
10		Freon-113	5.000	4.391	12.2	100	0.00
11	T	Acetone	-1.000	18.736	0.0	100	0.02
12	T	Iodomethane	10.000	8.269	17.3	100	0.00
13	T	Carbon disulfide	10.000	8.930	10.7	100	0.00
14		Methyl acetate	5.000	4.447	11.1	94	0.00
15	T	Vinyl acetate	10.000	7.323	26.8	100	0.00
16	T	Methylene chloride	5.000	5.561	-11.2	100	0.00
17	T	Acrylonitrile	-1.000	5.551	0.0	91	0.02
18		Methyl tert-butyl ether	5.000	4.036	19.3	100	0.00
19	T	trans-1,2-Dichloroethene	5.000	4.691	6.2	100	0.01
20	pcc	1,1-Dichloroethane	5.000	4.853	2.9	100	0.00
21	T	2,2-Dichloropropane	5.000	5.177	-3.5	100	0.00
22	T	cis-1,2-Dichloroethene	5.000	4.379	12.4	100	0.00
23	T	2-Butanone	-1.000	1.863	0.0	100	0.00
24	T	Bromochloromethane	5.000	4.794	4.1	100	0.00
25	ccc	Chloroform	5.000	4.728	5.4	100	0.00
26		Cyclohexane	5.000	4.001	20.0	100	0.00
27	T	1,1,1-Trichloroethane	5.000	4.585	8.3	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	51.534	-3.1	100	0.00
30	T	1,1-Dichloropropene	5.000	4.253	14.9	100	0.00
31	T	Carbon tetrachloride	5.000	4.374	12.5	100	0.00
32	M	Benzene	5.000	4.369	12.6	100	0.00
33	T	1,2-Dichloroethane	5.000	4.974	0.5	100	0.00
34	M	Trichloroethene	5.000	4.350	13.0	100	0.00
35		Methylcyclohexane	5.000	3.631	27.4	100	0.00
36	ccc	1,2-Dichloropropane	5.000	4.641	7.2	100	0.00
37	T	Dibromomethane	5.000	4.509	9.8	100	0.00
38		1,4-Dioxane	-1.000	32.466	0.0	100	0.03
39	T	Bromodichloromethane	5.000	4.557	8.9	100	0.00
40	T	2-Chloroethyl vinyl ether	10.000	10.084	-0.8	100	0.00
41	T	cis-1,3-Dichloropropene	5.000	3.947	21.1	100	0.00
42	T	4-Methyl-2-pentanone	10.000	8.757	12.4	100	0.00
43	S	Toluene-d8	50.000	49.986	0.0	100	0.00
44	Mccc	Toluene	5.000	4.033	19.3	100	0.00
45	T	trans-1,3-Dichloropropene	5.000	4.082	18.4	100	0.00
46	T	1,1,2-Trichloroethane	5.000	4.883	2.3	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	10.000	7.221	27.8	113	0.00
49	T	Tetrachloroethene	5.000	4.199	16.0	100	0.00
50	T	1,3-Dichloropropane	5.000	4.364	12.7	100	0.00
51	T	Dibromochloromethane	5.000	4.376	12.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012106.D
Acq On : 1 Dec 2021 9:57 am
Operator : RAC
Sample : ICAL 8260 005 S
Misc : BLANK
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 02 08:24:59 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	5.000	4.395	12.1	100	0.00
53	pcc	Chlorobenzene	5.000	4.262	14.8	100	0.00
54	T	1,1,1,2-Tetrachloroethane	5.000	3.911	21.8	100	0.00
55	ccc	Ethylbenzene	5.000	3.612	27.8#	100	0.00
56	T	m,p-Xylene	10.000	7.225	27.8	100	0.00
57	T	o-Xylene	5.000	6.408	-28.2	100	0.00
58	T	Styrene	5.000	6.876	-37.5	100	0.00
59	pcc	Bromoform	5.000	3.876	22.5	100	0.00
60	S	4-Bromofluorobenzene	50.000	47.897	4.2	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	5.000	4.308	13.8	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	5.000	4.854	2.9	100	0.00
64	T	1,2,3-Trichloropropane	5.000	4.714	5.7	104	0.00
65	T	Isopropylbenzene	5.000	3.887	22.3	100	0.00
66	T	n-Propylbenzene	5.000	4.151	17.0	100	0.00
67	T	trans-1,4-Dichloro-2-butene	10.000	7.941	20.6	100	0.00
68	T	2-Chlorotoluene	5.000	4.082	18.4	100	0.00
69	T	4-Chlorotoluene	5.000	3.635	27.3	100	0.00
70	T	1,3,5-Trimethylbenzene	5.000	3.660	26.8	100	0.00
71	T	tert-Butylbenzene	5.000	3.747	25.1	100	0.00
72	T	1,2,4-Trimethylbenzene	5.000	3.627	27.5	100	0.00
73	T	sec-Butylbenzene	5.000	3.790	24.2	100	0.00
74	T	1,3-Dichlorobenzene	5.000	4.011	19.8	100	0.00
75	T	4-Isopropyltoluene	5.000	6.674	-33.5	100	0.00
76	T	1,4-Dichlorobenzene	5.000	4.374	12.5	100	0.00
77	T	1,2-Dichlorobenzene	5.000	4.204	15.9	100	0.00
78	T	n-Butylbenzene	5.000	3.319	33.6	100	0.00
79	T	1,2-Dibromo-3-chloropropane	5.000	4.232	15.4	100	0.00
80	T	1,2,4-Trichlorobenzene	5.000	3.696	26.1	100	0.00
81	T	Hexachlorobutadiene	5.000	3.861	22.8	100	0.00
82	T	Naphthalene	5.000	3.283	34.3	100	0.00
83	T	1,2,3-Trichlorobenzene	5.000	3.706	25.9	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012107.D
Acq On : 1 Dec 2021 10:22 am
Operator : RAC
Sample : ICAL 8260 010 S
Misc : BLANK
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 02 08:26:53 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	10.000	9.877	1.2	100	0.00
3	pcc	Chloromethane	10.000	10.391	-3.9	100	0.00
4	ccc	Vinyl chloride	10.000	8.022	19.8	100	0.00
5	T	Bromomethane	10.000	8.922	10.8	100	0.03
6	T	Chloroethane	10.000	9.447	5.5	100	0.03
7	T	Trichlorofluoromethane	10.000	9.415	5.9	100	0.02
8	T	Acrolein	-1.000	4.473	0.0	100	0.00
9	Mccc	1,1-Dichloroethene	10.000	9.908	0.9	100	0.00
10		Freon-113	10.000	9.194	8.1	100	0.01
11	T	Acetone	-1.000	22.574	0.0	100	0.00
12	T	Iodomethane	20.000	18.339	8.3	100	0.00
13	T	Carbon disulfide	20.000	18.644	6.8	100	0.01
14		Methyl acetate	10.000	10.280	-2.8	100	0.00
15	T	Vinyl acetate	20.000	16.919	15.4	100	0.00
16	T	Methylene chloride	10.000	9.719	2.8	100	0.00
17	T	Acrylonitrile	10.000	9.935	0.6	99	0.03
18		Methyl tert-butyl ether	10.000	8.311	16.9	100	0.00
19	T	trans-1,2-Dichloroethene	10.000	9.485	5.2	100	0.00
20	pcc	1,1-Dichloroethane	10.000	9.935	0.6	100	0.00
21	T	2,2-Dichloropropane	10.000	10.218	-2.2	100	0.00
22	T	cis-1,2-Dichloroethene	10.000	9.132	8.7	100	0.00
23	T	2-Butanone	20.000	18.669	6.7	100	0.02
24	T	Bromochloromethane	10.000	10.465	-4.6	100	0.00
25	ccc	Chloroform	10.000	10.017	-0.2	100	0.00
26		Cyclohexane	10.000	8.551	14.5	100	0.00
27	T	1,1,1-Trichloroethane	10.000	9.423	5.8	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	48.955	2.1	100	0.00
30	T	1,1-Dichloropropene	10.000	9.488	5.1	100	0.00
31	T	Carbon tetrachloride	10.000	9.896	1.0	100	0.00
32	M	Benzene	10.000	9.078	9.2	100	0.00
33	T	1,2-Dichloroethane	10.000	9.581	4.2	100	0.00
34	M	Trichloroethene	10.000	8.758	12.4	100	0.00
35		Methylcyclohexane	10.000	8.475	15.3	100	0.00
36	ccc	1,2-Dichloropropane	10.000	9.416	5.8	100	0.00
37	T	Dibromomethane	10.000	9.878	1.2	100	0.00
38		1,4-Dioxane	100.000	99.395	0.6	102	0.00
39	T	Bromodichloromethane	10.000	9.548	4.5	100	0.00
40	T	2-Chloroethyl vinyl ether	20.000	18.929	5.4	100	0.00
41	T	cis-1,3-Dichloropropene	10.000	8.372	16.3	100	0.00
42	T	4-Methyl-2-pentanone	20.000	17.809	11.0	100	0.00
43	S	Toluene-d8	50.000	50.059	-0.1	100	0.00
44	Mccc	Toluene	10.000	8.963	10.4	100	0.00
45	T	trans-1,3-Dichloropropene	10.000	8.227	17.7	100	0.00
46	T	1,1,2-Trichloroethane	10.000	10.024	-0.2	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	20.000	16.804	16.0	100	0.00
49	T	Tetrachloroethene	10.000	9.089	9.1	100	0.00
50	T	1,3-Dichloropropane	10.000	9.863	1.4	100	0.00
51	T	Dibromochloromethane	10.000	9.125	8.8	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012107.D
Acq On : 1 Dec 2021 10:22 am
Operator : RAC
Sample : ICAL 8260 010 S
Misc : BLANK
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 02 08:26:53 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	10.000	9.598	4.0	100	0.00
53	pcc	Chlorobenzene	10.000	9.046	9.5	100	0.00
54	T	1,1,1,2-Tetrachloroethane	10.000	8.960	10.4	100	0.00
55	ccc	Ethylbenzene	10.000	8.481	15.2	100	0.00
56	T	m,p-Xylene	20.000	16.583	17.1	100	0.00
57	T	o-Xylene	10.000	9.978	0.2	100	0.00
58	T	Styrene	10.000	10.388	-3.9	100	0.00
59	pcc	Bromoform	10.000	8.051	19.5	100	0.00
60	S	4-Bromofluorobenzene	50.000	47.842	4.3	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	10.000	8.996	10.0	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	10.000	9.614	3.9	100	0.00
64	T	1,2,3-Trichloropropane	10.000	10.223	-2.2	100	0.00
65	T	Isopropylbenzene	10.000	8.762	12.4	100	0.00
66	T	n-Propylbenzene	10.000	8.793	12.1	100	0.00
67	T	trans-1,4-Dichloro-2-butene	20.000	15.108	24.5	100	0.00
68	T	2-Chlorotoluene	10.000	9.329	6.7	100	0.00
69	T	4-Chlorotoluene	10.000	9.384	6.2	100	0.00
70	T	1,3,5-Trimethylbenzene	10.000	8.524	14.8	100	0.00
71	T	tert-Butylbenzene	10.000	8.270	17.3	100	0.00
72	T	1,2,4-Trimethylbenzene	10.000	8.683	13.2	100	0.00
73	T	sec-Butylbenzene	10.000	8.187	18.1	100	0.00
74	T	1,3-Dichlorobenzene	10.000	8.765	12.3	100	0.00
75	T	4-Isopropyltoluene	10.000	10.395	-3.9	100	0.00
76	T	1,4-Dichlorobenzene	10.000	9.041	9.6	100	0.00
77	T	1,2-Dichlorobenzene	10.000	8.967	10.3	100	0.00
78	T	n-Butylbenzene	10.000	7.972	20.3	100	0.00
79	T	1,2-Dibromo-3-chloropropane	10.000	9.093	9.1	100	0.00
80	T	1,2,4-Trichlorobenzene	10.000	8.254	17.5	100	0.00
81	T	Hexachlorobutadiene	10.000	8.719	12.8	100	0.00
82	T	Naphthalene	10.000	8.570	14.3	100	0.00
83	T	1,2,3-Trichlorobenzene	10.000	8.216	17.8	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012108.D
Acq On : 1 Dec 2021 10:47 am
Operator : RAC
Sample : ICAL 8260 020 S
Misc : BLANK
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 02 08:28:45 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	20.000	19.261	3.7	100	0.00
3	pcc	Chloromethane	20.000	21.054	-5.3	100	0.00
4	ccc	Vinyl chloride	20.000	20.663	-3.3	100	0.00
5	T	Bromomethane	20.000	20.191	-1.0	100	0.03
6	T	Chloroethane	20.000	20.475	-2.4	100	0.03
7	T	Trichlorofluoromethane	20.000	17.153	14.2	100	0.01
8	T	Acrolein	20.000	19.752	1.2	105	0.00
9	Mccc	1,1-Dichloroethene	20.000	19.904	0.5	100	0.01
10		Freon-113	20.000	20.136	-0.7	100	0.00
11	T	Acetone	40.000	46.821	-17.1	100	0.01
12	T	Iodomethane	40.000	37.909	5.2	100	0.00
13	T	Carbon disulfide	40.000	38.158	4.6	100	0.00
14		Methyl acetate	20.000	20.039	-0.2	100	0.00
15	T	Vinyl acetate	40.000	38.016	5.0	100	0.00
16	T	Methylene chloride	20.000	19.763	1.2	100	0.00
17	T	Acrylonitrile	20.000	18.783	6.1	100	0.02
18		Methyl tert-butyl ether	20.000	19.147	4.3	100	0.02
19	T	trans-1,2-Dichloroethene	20.000	19.669	1.7	100	0.00
20	pcc	1,1-Dichloroethane	20.000	20.163	-0.8	100	0.00
21	T	2,2-Dichloropropane	20.000	19.648	1.8	100	0.00
22	T	cis-1,2-Dichloroethene	20.000	20.115	-0.6	100	0.00
23	T	2-Butanone	40.000	41.008	-2.5	100	0.00
24	T	Bromochloromethane	20.000	20.105	-0.5	100	0.00
25	ccc	Chloroform	20.000	20.484	-2.4	100	0.00
26		Cyclohexane	20.000	19.933	0.3	100	0.00
27	T	1,1,1-Trichloroethane	20.000	20.314	-1.6	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	50.749	-1.5	100	0.00
30	T	1,1-Dichloropropene	20.000	20.186	-0.9	100	0.00
31	T	Carbon tetrachloride	20.000	19.648	1.8	100	0.00
32	M	Benzene	20.000	20.082	-0.4	100	0.00
33	T	1,2-Dichloroethane	20.000	20.865	-4.3	100	0.00
34	M	Trichloroethene	20.000	19.619	1.9	100	0.00
35		Methylcyclohexane	20.000	19.626	1.9	100	0.00
36	ccc	1,2-Dichloropropane	20.000	20.335	-1.7	100	0.00
37	T	Dibromomethane	20.000	20.966	-4.8	100	0.00
38		1,4-Dioxane	200.000	198.691	0.7	100	0.01
39	T	Bromodichloromethane	20.000	20.309	-1.5	100	0.00
40	T	2-Chloroethyl vinyl ether	40.000	38.159	4.6	100	0.00
41	T	cis-1,3-Dichloropropene	20.000	19.125	4.4	100	0.00
42	T	4-Methyl-2-pentanone	40.000	39.486	1.3	100	0.00
43	S	Toluene-d8	50.000	49.870	0.3	100	0.00
44	Mccc	Toluene	20.000	19.726	1.4	100	0.00
45	T	trans-1,3-Dichloropropene	20.000	18.879	5.6	100	0.00
46	T	1,1,2-Trichloroethane	20.000	20.520	-2.6	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	40.000	40.523	-1.3	100	0.00
49	T	Tetrachloroethene	20.000	19.305	3.5	100	0.00
50	T	1,3-Dichloropropane	20.000	20.609	-3.0	100	0.00
51	T	Dibromochloromethane	20.000	21.055	-5.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012108.D
Acq On : 1 Dec 2021 10:47 am
Operator : RAC
Sample : ICAL 8260 020 S
Misc : BLANK
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 02 08:28:45 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

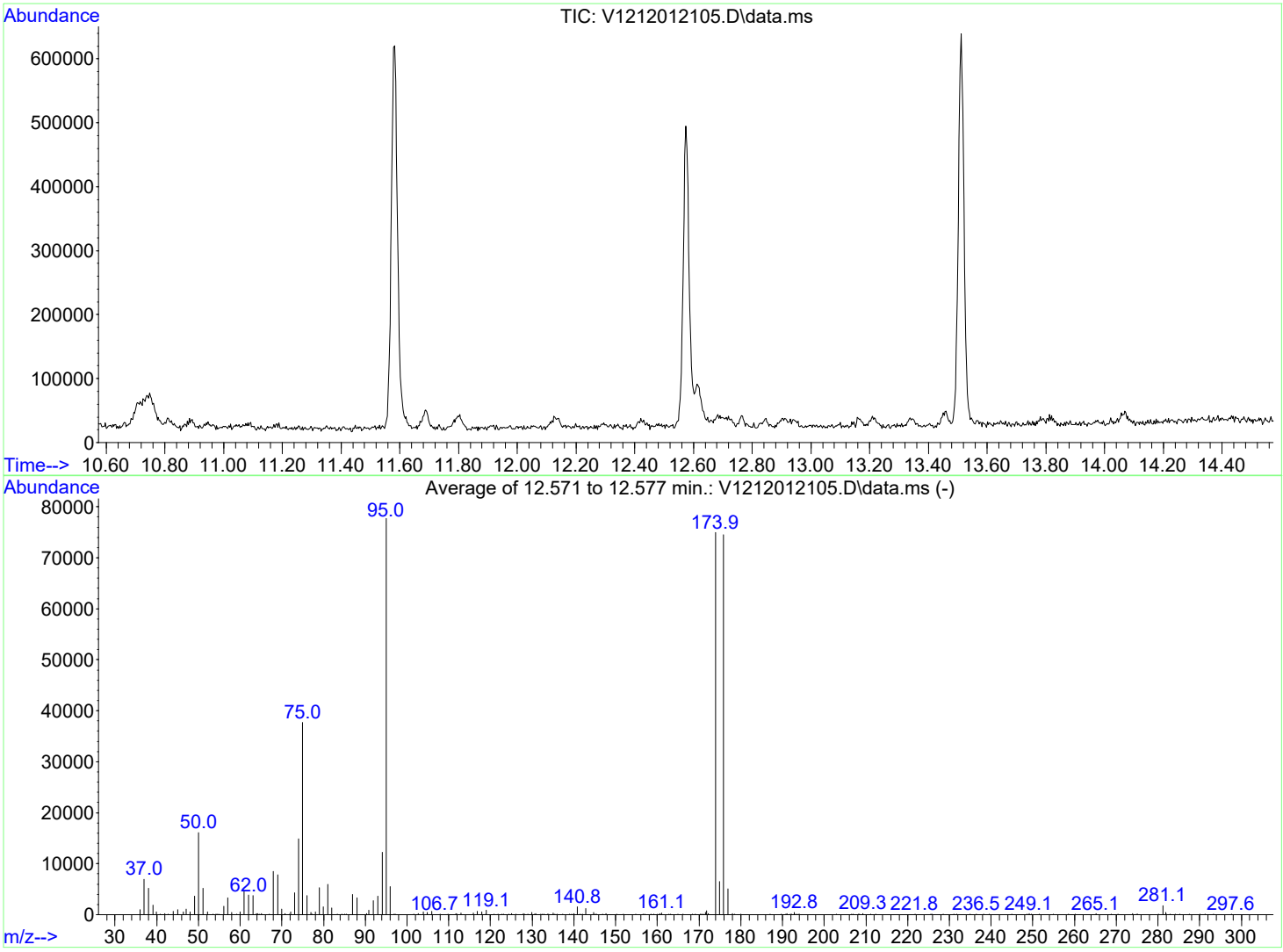
		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	20.000	19.685	1.6	100	0.00
53	pcc	Chlorobenzene	20.000	20.470	-2.3	100	0.00
54	T	1,1,1,2-Tetrachloroethane	20.000	18.975	5.1	100	0.00
55	ccc	Ethylbenzene	20.000	18.294	8.5	100	0.00
56	T	m,p-Xylene	40.000	38.525	3.7	100	0.00
57	T	o-Xylene	20.000	19.085	4.6	100	0.00
58	T	Styrene	20.000	18.716	6.4	100	0.00
59	pcc	Bromoform	20.000	20.109	-0.5	100	0.00
60	S	4-Bromofluorobenzene	50.000	50.125	-0.3	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	20.000	19.393	3.0	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	20.000	20.137	-0.7	100	0.00
64	T	1,2,3-Trichloropropane	20.000	21.066	-5.3	105	0.00
65	T	Isopropylbenzene	20.000	19.817	0.9	100	0.00
66	T	n-Propylbenzene	20.000	19.749	1.3	100	0.00
67	T	trans-1,4-Dichloro-2-butene	40.000	37.599	6.0	100	0.00
68	T	2-Chlorotoluene	20.000	20.127	-0.6	100	0.00
69	T	4-Chlorotoluene	20.000	20.739	-3.7	100	0.00
70	T	1,3,5-Trimethylbenzene	20.000	20.386	-1.9	100	0.00
71	T	tert-Butylbenzene	20.000	20.032	-0.2	100	0.00
72	T	1,2,4-Trimethylbenzene	20.000	19.800	1.0	100	0.00
73	T	sec-Butylbenzene	20.000	19.717	1.4	100	0.00
74	T	1,3-Dichlorobenzene	20.000	18.715	6.4	100	0.00
75	T	4-Isopropyltoluene	20.000	19.726	1.4	100	0.00
76	T	1,4-Dichlorobenzene	20.000	20.260	-1.3	100	0.00
77	T	1,2-Dichlorobenzene	20.000	20.320	-1.6	100	0.00
78	T	n-Butylbenzene	20.000	19.715	1.4	100	0.00
79	T	1,2-Dibromo-3-chloropropane	20.000	19.464	2.7	100	0.00
80	T	1,2,4-Trichlorobenzene	20.000	19.444	2.8	100	0.00
81	T	Hexachlorobutadiene	20.000	21.008	-5.0	100	0.00
82	T	Naphthalene	20.000	19.418	2.9	100	0.00
83	T	1,2,3-Trichlorobenzene	20.000	19.585	2.1	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012105.D
Acq On : 1 Dec 2021 9:32 am
Operator : RAC
Sample : ICAL 8260 001 S
Misc : BLANK
ALS Vial : 5 Sample Multiplier: 1

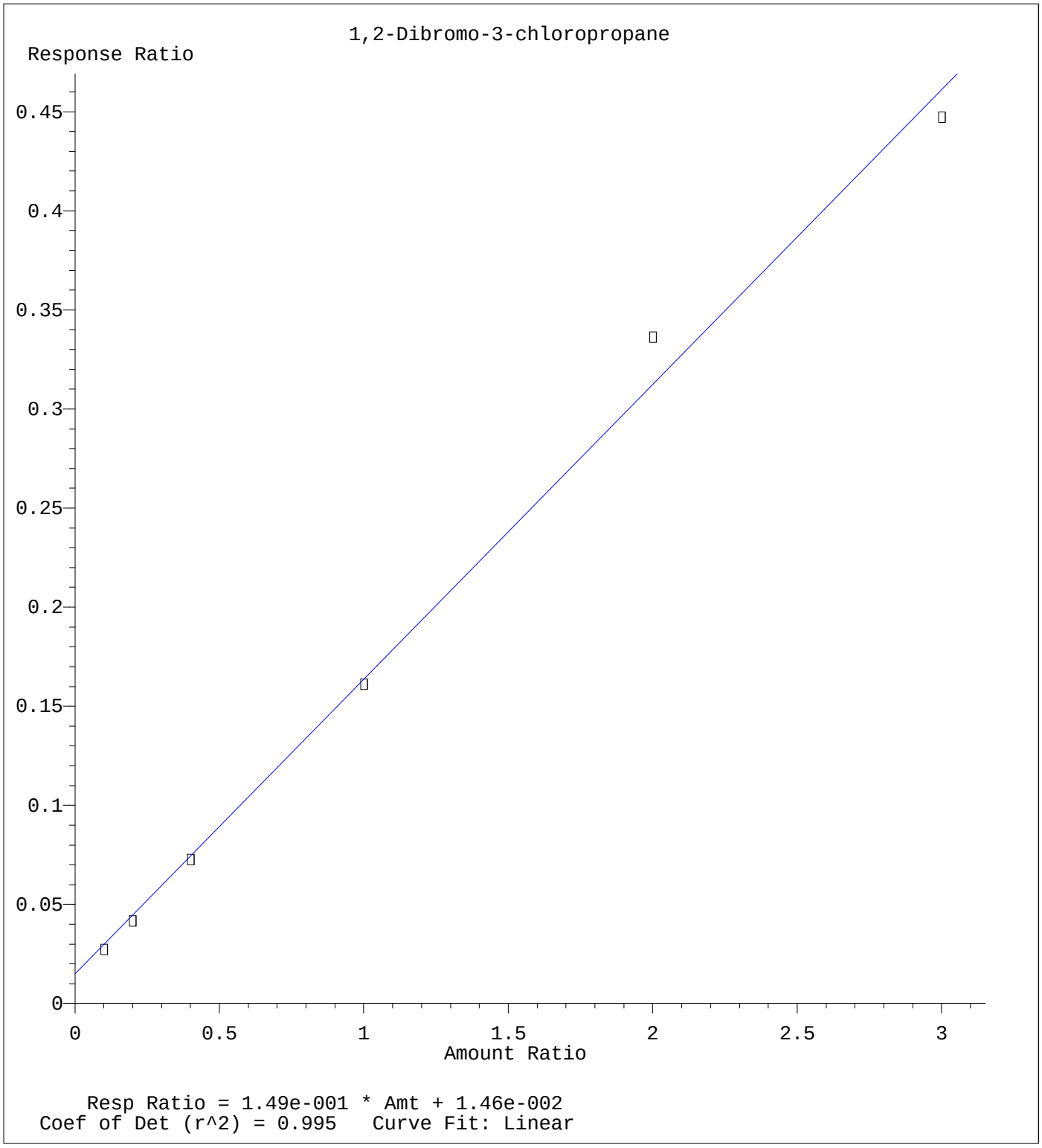
Integration File: rteint.p

Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Title : 8260/624 Purgeable organics calibration.
Last Update : Fri Nov 26 14:55:47 2021

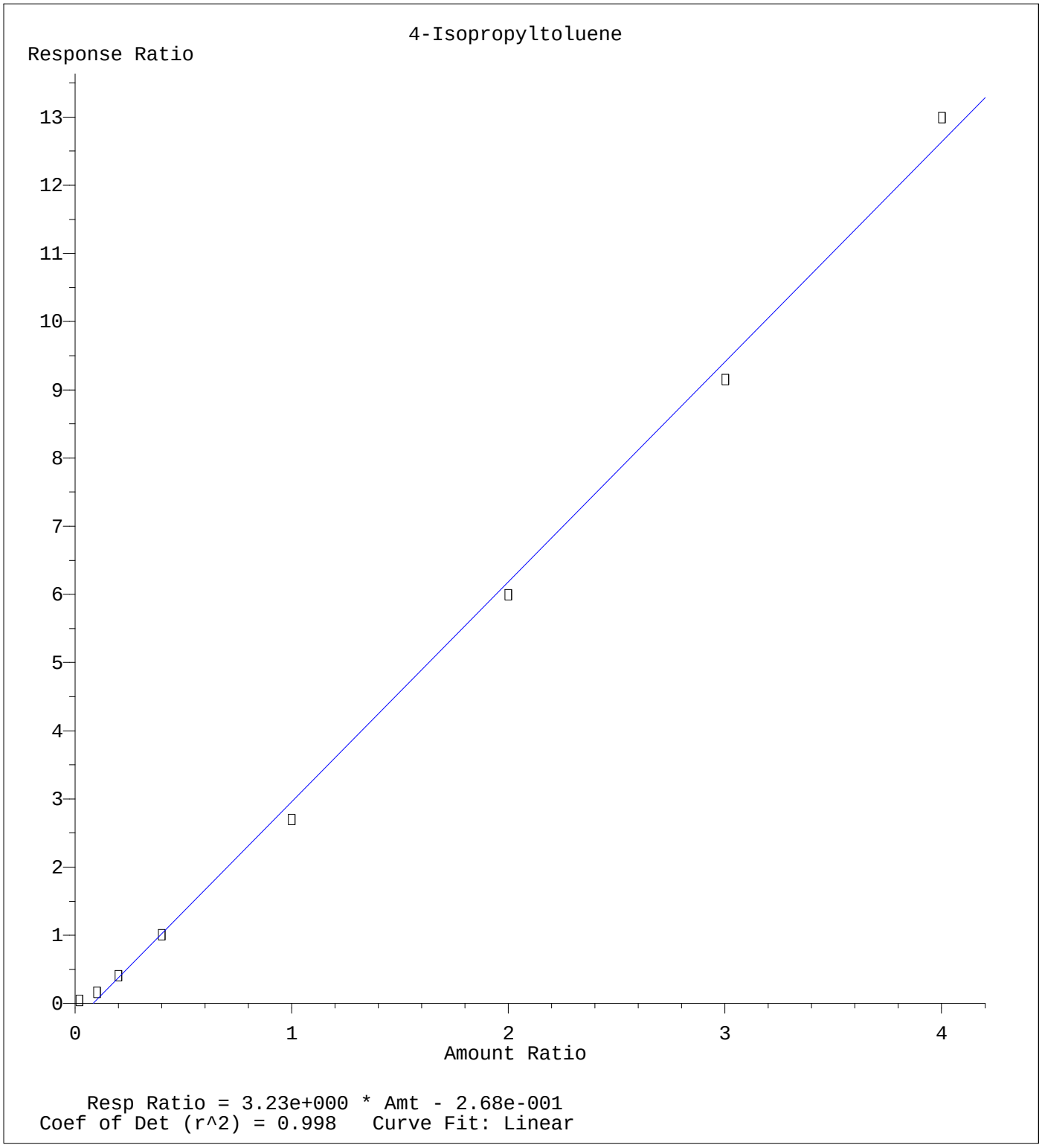


AutoFind: Scans 3422, 3423, 3424; Background Corrected with Scan 3410

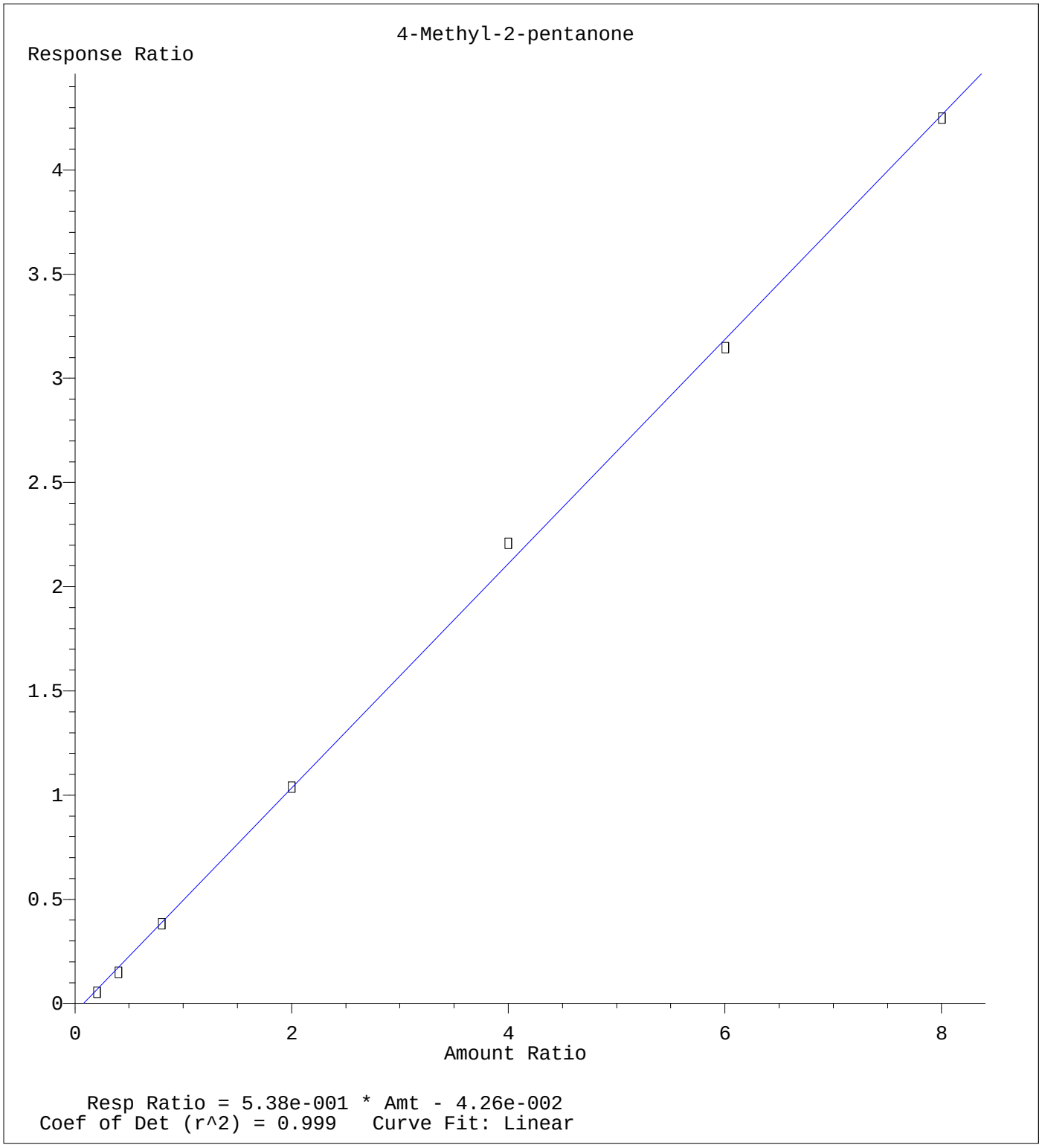
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.8	16155	PASS
75	95	30	60	48.6	37725	PASS
95	95	100	100	100.0	77690	PASS
96	95	5	9	7.2	5563	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	96.5	74957	PASS
175	174	5	9	8.6	6468	PASS
176	174	95	101	99.4	74525	PASS
177	176	5	9	6.8	5035	PASS



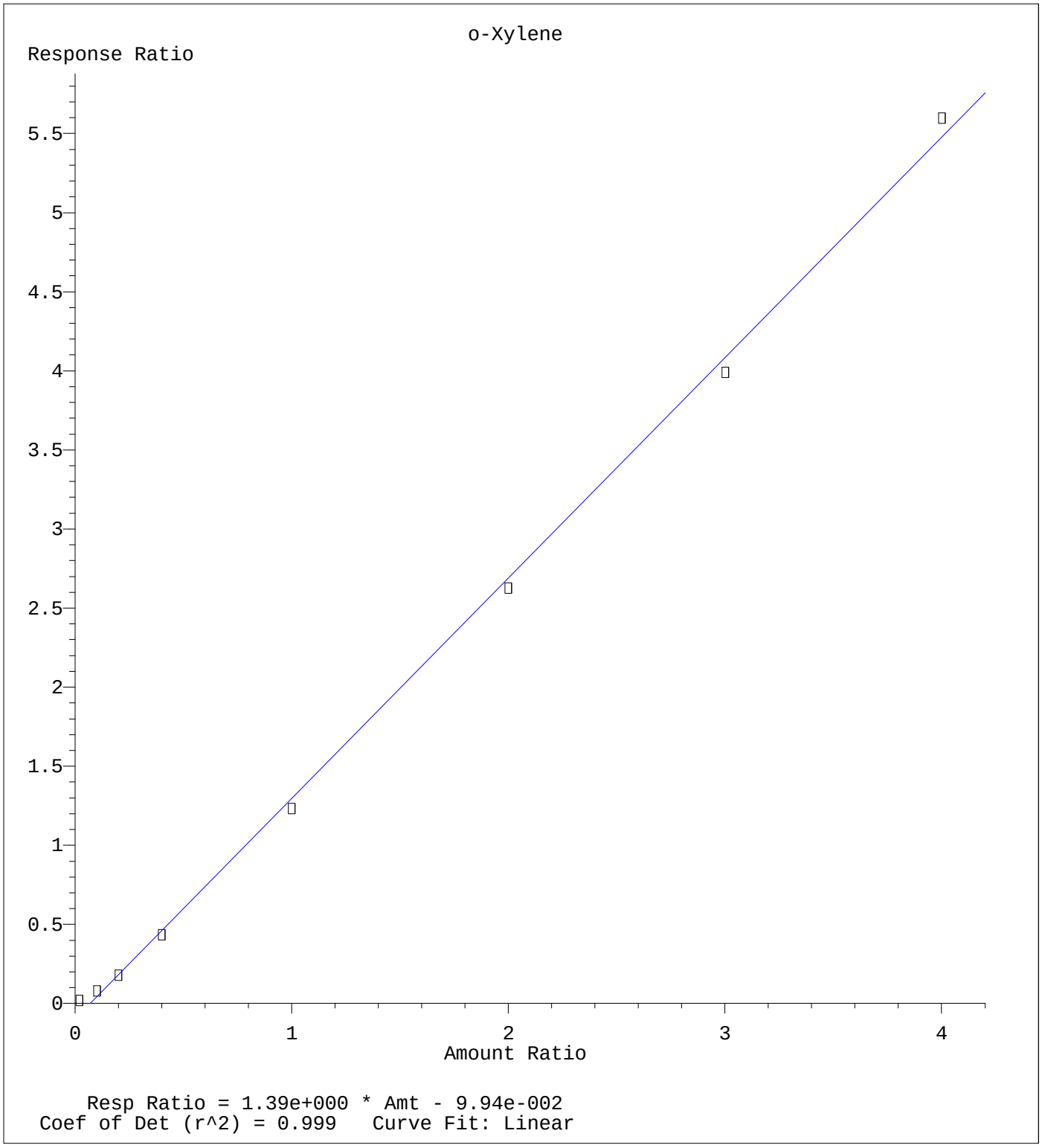
Method Name: C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Calibration Table Last Updated: Thu Dec 02 08:37:36 2021



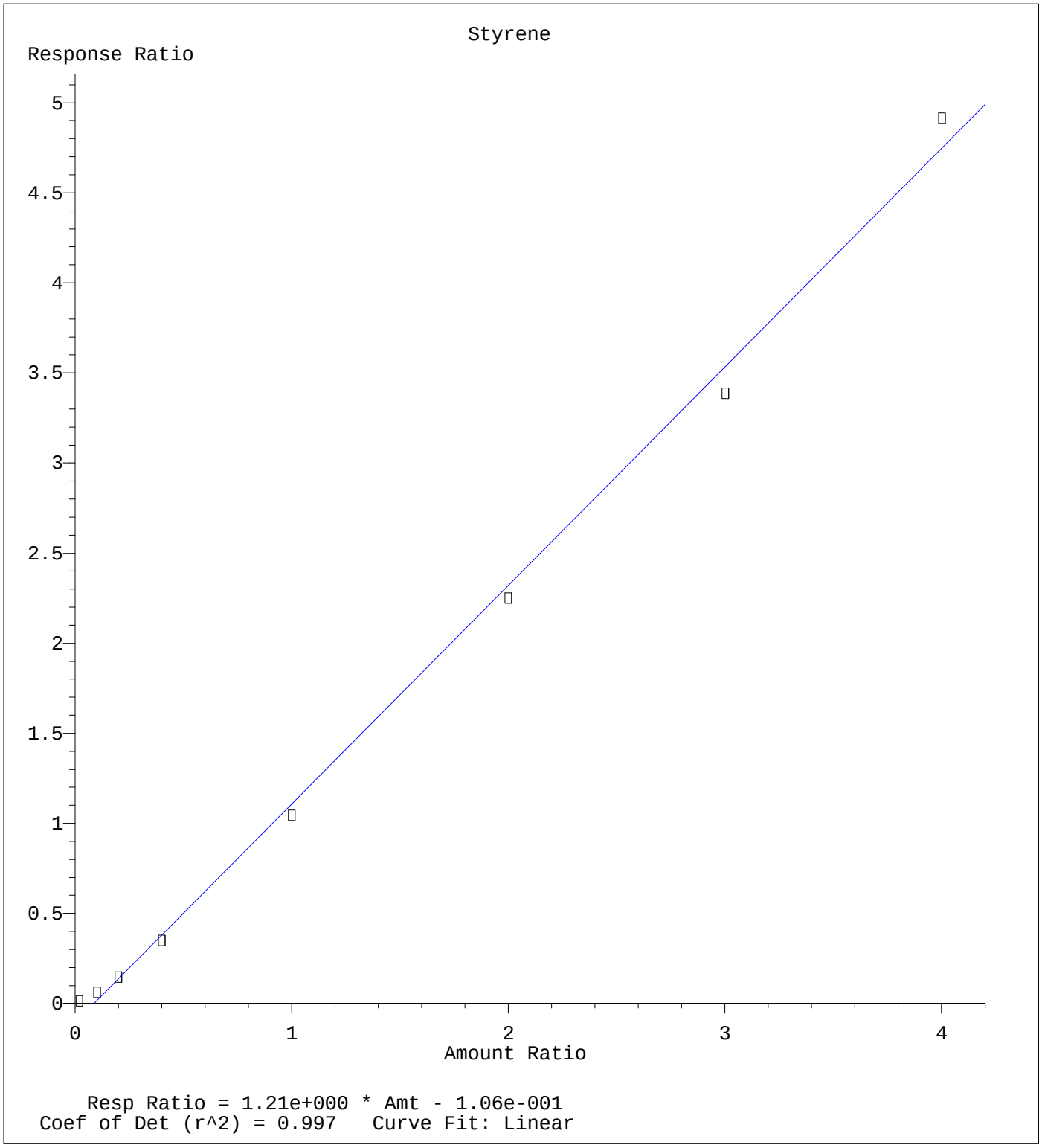
Method Name: C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Calibration Table Last Updated: Thu Dec 02 08:37:36 2021



Method Name: C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Calibration Table Last Updated: Thu Dec 02 08:37:36 2021



Method Name: C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Calibration Table Last Updated: Thu Dec 02 08:37:36 2021



Method Name: C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Calibration Table Last Updated: Thu Dec 02 08:37:36 2021

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012105.D
Acq On : 1 Dec 2021 9:32 am
Operator : RAC
Sample : ICAL 8260 001 S
Misc : BLANK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 08:18:03 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	-1.000	1.574	0.0	100	0.00
3	pcc	Chloromethane	-1.000	1.842	0.0	100	0.00
4	ccc	Vinyl chloride	-1.000	1.301	0.0	100	0.00
5	T	Bromomethane	1.000	1.263	-26.3	111	0.03
6	T	Chloroethane	-1.000	1.702	0.0	91	0.02
7	T	Trichlorofluoromethane	-1.000	1.466	0.0	100	0.00
8	T	Acrolein	-1.000	2.122	0.0	100	-0.04
9	Mccc	1,1-Dichloroethene	1.000	0.952	4.8	100	0.00
10		Freon-113	-1.000	1.095	0.0	100	0.00
11	T	Acetone	-1.000	15.742	0.0	96	0.00
12	T	Iodomethane	2.000	2.389	-19.4	101	0.00
13	T	Carbon disulfide	2.000	2.317	-15.9	100	0.00
14		Methyl acetate	-1.000	0.757	0.0	175	-0.46
15	T	Vinyl acetate	-1.000	1.793	0.0	100	0.02
16	T	Methylene chloride	-1.000	1.770	0.0	100	0.00
17	T	Acrylonitrile	-1.000	0.762	0.0	129	0.00
18		Methyl tert-butyl ether	-1.000	1.105	0.0	148	0.00
19	T	trans-1,2-Dichloroethene	-1.000	1.506	0.0	100	0.00
20	pcc	1,1-Dichloroethane	-1.000	1.584	0.0	127	0.00
21	T	2,2-Dichloropropane	-1.000	1.128	0.0	100	0.00
22	T	cis-1,2-Dichloroethene	-1.000	1.377	0.0	100	0.00
23	T	2-Butanone	-1.000	1.280	0.0	161	0.01
24	T	Bromochloromethane	-1.000	1.725	0.0	98	0.00
25	ccc	Chloroform	-1.000	1.394	0.0	100	0.00
26		Cyclohexane	-1.000	0.837	0.0	100	0.00
27	T	1,1,1-Trichloroethane	-1.000	1.367	0.0	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	48.671	2.7	100	0.00
30	T	1,1-Dichloropropene	-1.000	0.849	0.0	100	0.00
31	T	Carbon tetrachloride	-1.000	0.075	0.0	111	0.10
32	M	Benzene	1.000	1.125	-12.5	100	0.00
33	T	1,2-Dichloroethane	-1.000	1.535	0.0	100	0.00
34	M	Trichloroethene	1.000	1.313	-31.3	100	0.00
35		Methylcyclohexane	1.000	1.162	-16.2	100	0.00
36	ccc	1,2-Dichloropropane	-1.000	1.536	0.0	99	0.00
37	T	Dibromomethane	-1.000	1.922	0.0	100	0.00
38		1,4-Dioxane	-1.000	3.159	0.0	71	0.00
39	T	Bromodichloromethane	-1.000	1.534	0.0	100	0.00
40	T	2-Chloroethyl vinyl ether	-1.000	3.239	0.0	105	0.00
41	T	cis-1,3-Dichloropropene	-1.000	1.246	0.0	100	0.00
42	T	4-Methyl-2-pentanone	-1.000	5.766	0.0	100	0.00
43	S	Toluene-d8	50.000	48.448	3.1	100	0.00
44	Mccc	Toluene	1.000	0.952	4.8	90	0.00
45	T	trans-1,3-Dichloropropene	1.000	1.015	-1.5	96	0.00
46	T	1,1,2-Trichloroethane	-1.000	1.673	0.0	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	-1.000	1.602	0.0	71	0.00
49	T	Tetrachloroethene	1.000	1.374	-37.4	100	0.00
50	T	1,3-Dichloropropane	-1.000	1.403	0.0	100	0.00
51	T	Dibromochloromethane	-1.000	1.632	0.0	108	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012105.D
Acq On : 1 Dec 2021 9:32 am
Operator : RAC
Sample : ICAL 8260 001 S
Misc : BLANK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 08:18:03 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	-1.000	1.394	0.0	100	0.00
53	pcc	Chlorobenzene	-1.000	1.231	0.0	100	0.00
54	T	1,1,1,2-Tetrachloroethane	-1.000	1.341	0.0	100	0.00
55	ccc	Ethylbenzene	1.000	0.967	3.3	100	0.00
56	T	m,p-Xylene	2.000	1.674	16.3	100	0.00
57	T	o-Xylene	1.000	4.194	-319.4#	100	0.00
58	T	Styrene	1.000	4.965	-396.5#	100	0.00
59	pcc	Bromoform	-1.000	1.437	0.0	100	0.00
60	S	4-Bromofluorobenzene	50.000	46.740	6.5	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	-1.000	1.390	0.0	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	-1.000	1.584	0.0	102	0.00
64	T	1,2,3-Trichloropropane	-1.000	0.736	0.0	100	0.00
65	T	Isopropylbenzene	-1.000	0.890	0.0	100	0.00
66	T	n-Propylbenzene	-1.000	0.985	0.0	100	0.00
67	T	trans-1,4-Dichloro-2-butene	-1.000	3.422	0.0	100	0.00
68	T	2-Chlorotoluene	-1.000	1.046	0.0	100	0.00
69	T	4-Chlorotoluene	-1.000	1.135	0.0	100	0.00
70	T	1,3,5-Trimethylbenzene	-1.000	1.018	0.0	100	0.00
71	T	tert-Butylbenzene	1.000	0.964	3.6	94	0.00
72	T	1,2,4-Trimethylbenzene	-1.000	0.924	0.0	100	0.00
73	T	sec-Butylbenzene	-1.000	0.787	0.0	100	0.00
74	T	1,3-Dichlorobenzene	-1.000	1.091	0.0	100	0.00
75	T	4-Isopropyltoluene	1.000	4.784	-378.4#	100	0.00
76	T	1,4-Dichlorobenzene	-1.000	1.335	0.0	100	0.00
77	T	1,2-Dichlorobenzene	-1.000	1.056	0.0	100	0.00
78	T	n-Butylbenzene	-1.000	0.751	0.0	100	0.00
79	T	1,2-Dibromo-3-chloropropane	-1.000	-3.263	0.0	156	0.02
80	T	1,2,4-Trichlorobenzene	-1.000	1.240	0.0	100	0.00
81	T	Hexachlorobutadiene	-1.000	1.585	0.0	100	0.00
82	T	Naphthalene	1.000	0.884	11.6	100	0.00
83	T	1,2,3-Trichlorobenzene	-1.000	1.075	0.0	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012106.D
Acq On : 1 Dec 2021 9:57 am
Operator : RAC
Sample : ICAL 8260 005 S
Misc : BLANK
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 02 08:24:59 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	5.000	4.874	2.5	100	0.00
3	pcc	Chloromethane	5.000	4.639	7.2	100	0.00
4	ccc	Vinyl chloride	5.000	3.907	21.9	100	0.00
5	T	Bromomethane	5.000	3.928	21.4	100	0.02
6	T	Chloroethane	5.000	4.169	16.6	100	0.02
7	T	Trichlorofluoromethane	5.000	5.075	-1.5	100	0.00
8	T	Acrolein	-1.000	2.831	0.0	100	0.00
9	Mccc	1,1-Dichloroethene	5.000	4.564	8.7	100	0.00
10		Freon-113	5.000	4.391	12.2	100	0.00
11	T	Acetone	-1.000	18.736	0.0	100	0.02
12	T	Iodomethane	10.000	8.269	17.3	100	0.00
13	T	Carbon disulfide	10.000	8.930	10.7	100	0.00
14		Methyl acetate	5.000	4.447	11.1	94	0.00
15	T	Vinyl acetate	10.000	7.323	26.8	100	0.00
16	T	Methylene chloride	5.000	5.561	-11.2	100	0.00
17	T	Acrylonitrile	-1.000	5.551	0.0	91	0.02
18		Methyl tert-butyl ether	5.000	4.036	19.3	100	0.00
19	T	trans-1,2-Dichloroethene	5.000	4.691	6.2	100	0.01
20	pcc	1,1-Dichloroethane	5.000	4.853	2.9	100	0.00
21	T	2,2-Dichloropropane	5.000	5.177	-3.5	100	0.00
22	T	cis-1,2-Dichloroethene	5.000	4.379	12.4	100	0.00
23	T	2-Butanone	-1.000	1.863	0.0	100	0.00
24	T	Bromochloromethane	5.000	4.794	4.1	100	0.00
25	ccc	Chloroform	5.000	4.728	5.4	100	0.00
26		Cyclohexane	5.000	4.001	20.0	100	0.00
27	T	1,1,1-Trichloroethane	5.000	4.585	8.3	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	51.534	-3.1	100	0.00
30	T	1,1-Dichloropropene	5.000	4.253	14.9	100	0.00
31	T	Carbon tetrachloride	5.000	4.374	12.5	100	0.00
32	M	Benzene	5.000	4.369	12.6	100	0.00
33	T	1,2-Dichloroethane	5.000	4.974	0.5	100	0.00
34	M	Trichloroethene	5.000	4.350	13.0	100	0.00
35		Methylcyclohexane	5.000	3.631	27.4	100	0.00
36	ccc	1,2-Dichloropropane	5.000	4.641	7.2	100	0.00
37	T	Dibromomethane	5.000	4.509	9.8	100	0.00
38		1,4-Dioxane	-1.000	32.466	0.0	100	0.03
39	T	Bromodichloromethane	5.000	4.557	8.9	100	0.00
40	T	2-Chloroethyl vinyl ether	10.000	10.084	-0.8	100	0.00
41	T	cis-1,3-Dichloropropene	5.000	3.947	21.1	100	0.00
42	T	4-Methyl-2-pentanone	10.000	8.757	12.4	100	0.00
43	S	Toluene-d8	50.000	49.986	0.0	100	0.00
44	Mccc	Toluene	5.000	4.033	19.3	100	0.00
45	T	trans-1,3-Dichloropropene	5.000	4.082	18.4	100	0.00
46	T	1,1,2-Trichloroethane	5.000	4.883	2.3	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	10.000	7.221	27.8	113	0.00
49	T	Tetrachloroethene	5.000	4.199	16.0	100	0.00
50	T	1,3-Dichloropropane	5.000	4.364	12.7	100	0.00
51	T	Dibromochloromethane	5.000	4.376	12.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012106.D
Acq On : 1 Dec 2021 9:57 am
Operator : RAC
Sample : ICAL 8260 005 S
Misc : BLANK
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 02 08:24:59 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	5.000	4.395	12.1	100	0.00
53	pcc	Chlorobenzene	5.000	4.262	14.8	100	0.00
54	T	1,1,1,2-Tetrachloroethane	5.000	3.911	21.8	100	0.00
55	ccc	Ethylbenzene	5.000	3.612	27.8#	100	0.00
56	T	m,p-Xylene	10.000	7.225	27.8	100	0.00
57	T	o-Xylene	5.000	6.408	-28.2	100	0.00
58	T	Styrene	5.000	6.876	-37.5	100	0.00
59	pcc	Bromoform	5.000	3.876	22.5	100	0.00
60	S	4-Bromofluorobenzene	50.000	47.897	4.2	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	5.000	4.308	13.8	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	5.000	4.854	2.9	100	0.00
64	T	1,2,3-Trichloropropane	5.000	4.714	5.7	104	0.00
65	T	Isopropylbenzene	5.000	3.887	22.3	100	0.00
66	T	n-Propylbenzene	5.000	4.151	17.0	100	0.00
67	T	trans-1,4-Dichloro-2-butene	10.000	7.941	20.6	100	0.00
68	T	2-Chlorotoluene	5.000	4.082	18.4	100	0.00
69	T	4-Chlorotoluene	5.000	3.635	27.3	100	0.00
70	T	1,3,5-Trimethylbenzene	5.000	3.660	26.8	100	0.00
71	T	tert-Butylbenzene	5.000	3.747	25.1	100	0.00
72	T	1,2,4-Trimethylbenzene	5.000	3.627	27.5	100	0.00
73	T	sec-Butylbenzene	5.000	3.790	24.2	100	0.00
74	T	1,3-Dichlorobenzene	5.000	4.011	19.8	100	0.00
75	T	4-Isopropyltoluene	5.000	6.674	-33.5	100	0.00
76	T	1,4-Dichlorobenzene	5.000	4.374	12.5	100	0.00
77	T	1,2-Dichlorobenzene	5.000	4.204	15.9	100	0.00
78	T	n-Butylbenzene	5.000	3.319	33.6	100	0.00
79	T	1,2-Dibromo-3-chloropropane	5.000	4.232	15.4	100	0.00
80	T	1,2,4-Trichlorobenzene	5.000	3.696	26.1	100	0.00
81	T	Hexachlorobutadiene	5.000	3.861	22.8	100	0.00
82	T	Naphthalene	5.000	3.283	34.3	100	0.00
83	T	1,2,3-Trichlorobenzene	5.000	3.706	25.9	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012107.D
Acq On : 1 Dec 2021 10:22 am
Operator : RAC
Sample : ICAL 8260 010 S
Misc : BLANK
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 02 08:26:53 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	10.000	9.877	1.2	100	0.00
3	pcc	Chloromethane	10.000	10.391	-3.9	100	0.00
4	ccc	Vinyl chloride	10.000	8.022	19.8	100	0.00
5	T	Bromomethane	10.000	8.922	10.8	100	0.03
6	T	Chloroethane	10.000	9.447	5.5	100	0.03
7	T	Trichlorofluoromethane	10.000	9.415	5.9	100	0.02
8	T	Acrolein	-1.000	4.473	0.0	100	0.00
9	Mccc	1,1-Dichloroethene	10.000	9.908	0.9	100	0.00
10		Freon-113	10.000	9.194	8.1	100	0.01
11	T	Acetone	-1.000	22.574	0.0	100	0.00
12	T	Iodomethane	20.000	18.339	8.3	100	0.00
13	T	Carbon disulfide	20.000	18.644	6.8	100	0.01
14		Methyl acetate	10.000	10.280	-2.8	100	0.00
15	T	Vinyl acetate	20.000	16.919	15.4	100	0.00
16	T	Methylene chloride	10.000	9.719	2.8	100	0.00
17	T	Acrylonitrile	10.000	9.935	0.6	99	0.03
18		Methyl tert-butyl ether	10.000	8.311	16.9	100	0.00
19	T	trans-1,2-Dichloroethene	10.000	9.485	5.2	100	0.00
20	pcc	1,1-Dichloroethane	10.000	9.935	0.6	100	0.00
21	T	2,2-Dichloropropane	10.000	10.218	-2.2	100	0.00
22	T	cis-1,2-Dichloroethene	10.000	9.132	8.7	100	0.00
23	T	2-Butanone	20.000	18.669	6.7	100	0.02
24	T	Bromochloromethane	10.000	10.465	-4.6	100	0.00
25	ccc	Chloroform	10.000	10.017	-0.2	100	0.00
26		Cyclohexane	10.000	8.551	14.5	100	0.00
27	T	1,1,1-Trichloroethane	10.000	9.423	5.8	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	48.955	2.1	100	0.00
30	T	1,1-Dichloropropene	10.000	9.488	5.1	100	0.00
31	T	Carbon tetrachloride	10.000	9.896	1.0	100	0.00
32	M	Benzene	10.000	9.078	9.2	100	0.00
33	T	1,2-Dichloroethane	10.000	9.581	4.2	100	0.00
34	M	Trichloroethene	10.000	8.758	12.4	100	0.00
35		Methylcyclohexane	10.000	8.475	15.3	100	0.00
36	ccc	1,2-Dichloropropane	10.000	9.416	5.8	100	0.00
37	T	Dibromomethane	10.000	9.878	1.2	100	0.00
38		1,4-Dioxane	100.000	99.395	0.6	102	0.00
39	T	Bromodichloromethane	10.000	9.548	4.5	100	0.00
40	T	2-Chloroethyl vinyl ether	20.000	18.929	5.4	100	0.00
41	T	cis-1,3-Dichloropropene	10.000	8.372	16.3	100	0.00
42	T	4-Methyl-2-pentanone	20.000	17.809	11.0	100	0.00
43	S	Toluene-d8	50.000	50.059	-0.1	100	0.00
44	Mccc	Toluene	10.000	8.963	10.4	100	0.00
45	T	trans-1,3-Dichloropropene	10.000	8.227	17.7	100	0.00
46	T	1,1,2-Trichloroethane	10.000	10.024	-0.2	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	20.000	16.804	16.0	100	0.00
49	T	Tetrachloroethene	10.000	9.089	9.1	100	0.00
50	T	1,3-Dichloropropane	10.000	9.863	1.4	100	0.00
51	T	Dibromochloromethane	10.000	9.125	8.8	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012107.D
Acq On : 1 Dec 2021 10:22 am
Operator : RAC
Sample : ICAL 8260 010 S
Misc : BLANK
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 02 08:26:53 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	10.000	9.598	4.0	100	0.00
53	pcc	Chlorobenzene	10.000	9.046	9.5	100	0.00
54	T	1,1,1,2-Tetrachloroethane	10.000	8.960	10.4	100	0.00
55	ccc	Ethylbenzene	10.000	8.481	15.2	100	0.00
56	T	m,p-Xylene	20.000	16.583	17.1	100	0.00
57	T	o-Xylene	10.000	9.978	0.2	100	0.00
58	T	Styrene	10.000	10.388	-3.9	100	0.00
59	pcc	Bromoform	10.000	8.051	19.5	100	0.00
60	S	4-Bromofluorobenzene	50.000	47.842	4.3	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	10.000	8.996	10.0	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	10.000	9.614	3.9	100	0.00
64	T	1,2,3-Trichloropropane	10.000	10.223	-2.2	100	0.00
65	T	Isopropylbenzene	10.000	8.762	12.4	100	0.00
66	T	n-Propylbenzene	10.000	8.793	12.1	100	0.00
67	T	trans-1,4-Dichloro-2-butene	20.000	15.108	24.5	100	0.00
68	T	2-Chlorotoluene	10.000	9.329	6.7	100	0.00
69	T	4-Chlorotoluene	10.000	9.384	6.2	100	0.00
70	T	1,3,5-Trimethylbenzene	10.000	8.524	14.8	100	0.00
71	T	tert-Butylbenzene	10.000	8.270	17.3	100	0.00
72	T	1,2,4-Trimethylbenzene	10.000	8.683	13.2	100	0.00
73	T	sec-Butylbenzene	10.000	8.187	18.1	100	0.00
74	T	1,3-Dichlorobenzene	10.000	8.765	12.3	100	0.00
75	T	4-Isopropyltoluene	10.000	10.395	-3.9	100	0.00
76	T	1,4-Dichlorobenzene	10.000	9.041	9.6	100	0.00
77	T	1,2-Dichlorobenzene	10.000	8.967	10.3	100	0.00
78	T	n-Butylbenzene	10.000	7.972	20.3	100	0.00
79	T	1,2-Dibromo-3-chloropropane	10.000	9.093	9.1	100	0.00
80	T	1,2,4-Trichlorobenzene	10.000	8.254	17.5	100	0.00
81	T	Hexachlorobutadiene	10.000	8.719	12.8	100	0.00
82	T	Naphthalene	10.000	8.570	14.3	100	0.00
83	T	1,2,3-Trichlorobenzene	10.000	8.216	17.8	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012108.D
Acq On : 1 Dec 2021 10:47 am
Operator : RAC
Sample : ICAL 8260 020 S
Misc : BLANK
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 02 08:28:45 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	20.000	19.261	3.7	100	0.00
3	pcc	Chloromethane	20.000	21.054	-5.3	100	0.00
4	ccc	Vinyl chloride	20.000	20.663	-3.3	100	0.00
5	T	Bromomethane	20.000	20.191	-1.0	100	0.03
6	T	Chloroethane	20.000	20.475	-2.4	100	0.03
7	T	Trichlorofluoromethane	20.000	17.153	14.2	100	0.01
8	T	Acrolein	20.000	19.752	1.2	105	0.00
9	Mccc	1,1-Dichloroethene	20.000	19.904	0.5	100	0.01
10		Freon-113	20.000	20.136	-0.7	100	0.00
11	T	Acetone	40.000	46.821	-17.1	100	0.01
12	T	Iodomethane	40.000	37.909	5.2	100	0.00
13	T	Carbon disulfide	40.000	38.158	4.6	100	0.00
14		Methyl acetate	20.000	20.039	-0.2	100	0.00
15	T	Vinyl acetate	40.000	38.016	5.0	100	0.00
16	T	Methylene chloride	20.000	19.763	1.2	100	0.00
17	T	Acrylonitrile	20.000	18.783	6.1	100	0.02
18		Methyl tert-butyl ether	20.000	19.147	4.3	100	0.02
19	T	trans-1,2-Dichloroethene	20.000	19.669	1.7	100	0.00
20	pcc	1,1-Dichloroethane	20.000	20.163	-0.8	100	0.00
21	T	2,2-Dichloropropane	20.000	19.648	1.8	100	0.00
22	T	cis-1,2-Dichloroethene	20.000	20.115	-0.6	100	0.00
23	T	2-Butanone	40.000	41.008	-2.5	100	0.00
24	T	Bromochloromethane	20.000	20.105	-0.5	100	0.00
25	ccc	Chloroform	20.000	20.484	-2.4	100	0.00
26		Cyclohexane	20.000	19.933	0.3	100	0.00
27	T	1,1,1-Trichloroethane	20.000	20.314	-1.6	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	50.749	-1.5	100	0.00
30	T	1,1-Dichloropropene	20.000	20.186	-0.9	100	0.00
31	T	Carbon tetrachloride	20.000	19.648	1.8	100	0.00
32	M	Benzene	20.000	20.082	-0.4	100	0.00
33	T	1,2-Dichloroethane	20.000	20.865	-4.3	100	0.00
34	M	Trichloroethene	20.000	19.619	1.9	100	0.00
35		Methylcyclohexane	20.000	19.626	1.9	100	0.00
36	ccc	1,2-Dichloropropane	20.000	20.335	-1.7	100	0.00
37	T	Dibromomethane	20.000	20.966	-4.8	100	0.00
38		1,4-Dioxane	200.000	198.691	0.7	100	0.01
39	T	Bromodichloromethane	20.000	20.309	-1.5	100	0.00
40	T	2-Chloroethyl vinyl ether	40.000	38.159	4.6	100	0.00
41	T	cis-1,3-Dichloropropene	20.000	19.125	4.4	100	0.00
42	T	4-Methyl-2-pentanone	40.000	39.486	1.3	100	0.00
43	S	Toluene-d8	50.000	49.870	0.3	100	0.00
44	Mccc	Toluene	20.000	19.726	1.4	100	0.00
45	T	trans-1,3-Dichloropropene	20.000	18.879	5.6	100	0.00
46	T	1,1,2-Trichloroethane	20.000	20.520	-2.6	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	40.000	40.523	-1.3	100	0.00
49	T	Tetrachloroethene	20.000	19.305	3.5	100	0.00
50	T	1,3-Dichloropropane	20.000	20.609	-3.0	100	0.00
51	T	Dibromochloromethane	20.000	21.055	-5.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012108.D
Acq On : 1 Dec 2021 10:47 am
Operator : RAC
Sample : ICAL 8260 020 S
Misc : BLANK
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 02 08:28:45 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	20.000	19.685	1.6	100	0.00
53	pcc	Chlorobenzene	20.000	20.470	-2.3	100	0.00
54	T	1,1,1,2-Tetrachloroethane	20.000	18.975	5.1	100	0.00
55	ccc	Ethylbenzene	20.000	18.294	8.5	100	0.00
56	T	m,p-Xylene	40.000	38.525	3.7	100	0.00
57	T	o-Xylene	20.000	19.085	4.6	100	0.00
58	T	Styrene	20.000	18.716	6.4	100	0.00
59	pcc	Bromoform	20.000	20.109	-0.5	100	0.00
60	S	4-Bromofluorobenzene	50.000	50.125	-0.3	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	20.000	19.393	3.0	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	20.000	20.137	-0.7	100	0.00
64	T	1,2,3-Trichloropropane	20.000	21.066	-5.3	105	0.00
65	T	Isopropylbenzene	20.000	19.817	0.9	100	0.00
66	T	n-Propylbenzene	20.000	19.749	1.3	100	0.00
67	T	trans-1,4-Dichloro-2-butene	40.000	37.599	6.0	100	0.00
68	T	2-Chlorotoluene	20.000	20.127	-0.6	100	0.00
69	T	4-Chlorotoluene	20.000	20.739	-3.7	100	0.00
70	T	1,3,5-Trimethylbenzene	20.000	20.386	-1.9	100	0.00
71	T	tert-Butylbenzene	20.000	20.032	-0.2	100	0.00
72	T	1,2,4-Trimethylbenzene	20.000	19.800	1.0	100	0.00
73	T	sec-Butylbenzene	20.000	19.717	1.4	100	0.00
74	T	1,3-Dichlorobenzene	20.000	18.715	6.4	100	0.00
75	T	4-Isopropyltoluene	20.000	19.726	1.4	100	0.00
76	T	1,4-Dichlorobenzene	20.000	20.260	-1.3	100	0.00
77	T	1,2-Dichlorobenzene	20.000	20.320	-1.6	100	0.00
78	T	n-Butylbenzene	20.000	19.715	1.4	100	0.00
79	T	1,2-Dibromo-3-chloropropane	20.000	19.464	2.7	100	0.00
80	T	1,2,4-Trichlorobenzene	20.000	19.444	2.8	100	0.00
81	T	Hexachlorobutadiene	20.000	21.008	-5.0	100	0.00
82	T	Naphthalene	20.000	19.418	2.9	100	0.00
83	T	1,2,3-Trichlorobenzene	20.000	19.585	2.1	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012109.D
Acq On : 1 Dec 2021 11:12 am
Operator : RAC
Sample : ICAL 8260 050 S
Misc : BLANK
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 02 08:31:35 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	50.000	53.014	-6.0	100	0.00
3	pcc	Chloromethane	50.000	52.914	-5.8	100	0.00
4	ccc	Vinyl chloride	50.000	54.820	-9.6	100	0.00
5	T	Bromomethane	50.000	58.504	-17.0	100	0.02
6	T	Chloroethane	50.000	49.324	1.4	100	0.01
7	T	Trichlorofluoromethane	50.000	57.668	-15.3	100	0.00
8	T	Acrolein	50.000	46.025	8.0	100	0.00
9	Mccc	1,1-Dichloroethene	50.000	51.336	-2.7	100	0.00
10		Freon-113	50.000	50.891	-1.8	100	0.00
11	T	Acetone	100.000	102.898	-2.9	100	0.00
12	T	Iodomethane	100.000	97.941	2.1	100	0.00
13	T	Carbon disulfide	100.000	98.442	1.6	100	0.00
14		Methyl acetate	50.000	48.335	3.3	100	0.00
15	T	Vinyl acetate	100.000	104.183	-4.2	100	0.00
16	T	Methylene chloride	50.000	50.136	-0.3	100	0.00
17	T	Acrylonitrile	50.000	50.609	-1.2	99	0.02
18		Methyl tert-butyl ether	50.000	52.432	-4.9	100	0.00
19	T	trans-1,2-Dichloroethene	50.000	49.982	0.0	100	0.00
20	pcc	1,1-Dichloroethane	50.000	50.490	-1.0	100	0.00
21	T	2,2-Dichloropropane	50.000	49.322	1.4	100	0.00
22	T	cis-1,2-Dichloroethene	50.000	51.510	-3.0	100	0.00
23	T	2-Butanone	100.000	98.307	1.7	100	0.00
24	T	Bromochloromethane	50.000	50.983	-2.0	100	0.00
25	ccc	Chloroform	50.000	51.009	-2.0	100	0.00
26		Cyclohexane	50.000	52.485	-5.0	100	0.00
27	T	1,1,1-Trichloroethane	50.000	52.429	-4.9	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	48.946	2.1	100	0.00
30	T	1,1-Dichloropropene	50.000	50.851	-1.7	100	0.00
31	T	Carbon tetrachloride	50.000	51.637	-3.3	100	0.00
32	M	Benzene	50.000	50.428	-0.9	100	0.00
33	T	1,2-Dichloroethane	50.000	53.167	-6.3	100	0.00
34	M	Trichloroethene	50.000	49.278	1.4	100	0.00
35		Methylcyclohexane	50.000	51.413	-2.8	100	0.00
36	ccc	1,2-Dichloropropane	50.000	52.068	-4.1	100	0.00
37	T	Dibromomethane	50.000	52.384	-4.8	100	0.00
38		1,4-Dioxane	500.000	482.500	3.5	100	0.00
39	T	Bromodichloromethane	50.000	52.730	-5.5	100	0.00
40	T	2-Chloroethyl vinyl ether	100.000	98.337	1.7	100	0.00
41	T	cis-1,3-Dichloropropene	50.000	54.335	-8.7	100	0.00
42	T	4-Methyl-2-pentanone	100.000	100.315	-0.3	100	0.00
43	S	Toluene-d8	50.000	50.532	-1.1	100	0.00
44	Mccc	Toluene	50.000	52.505	-5.0	100	0.00
45	T	trans-1,3-Dichloropropene	50.000	53.665	-7.3	100	0.00
46	T	1,1,2-Trichloroethane	50.000	50.660	-1.3	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	100.000	106.057	-6.1	101	0.00
49	T	Tetrachloroethene	50.000	47.729	4.5	100	0.00
50	T	1,3-Dichloropropane	50.000	51.704	-3.4	100	0.00
51	T	Dibromochloromethane	50.000	52.062	-4.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012109.D
Acq On : 1 Dec 2021 11:12 am
Operator : RAC
Sample : ICAL 8260 050 S
Misc : BLANK
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 02 08:31:35 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	50.000	53.014	-6.0	100	0.00
3	pcc	Chloromethane	50.000	52.914	-5.8	100	0.00
4	ccc	Vinyl chloride	50.000	54.820	-9.6	100	0.00
5	T	Bromomethane	50.000	58.504	-17.0	100	0.02
6	T	Chloroethane	50.000	49.324	1.4	100	0.01
7	T	Trichlorofluoromethane	50.000	57.668	-15.3	100	0.00
8	T	Acrolein	50.000	46.025	8.0	100	0.00
9	Mccc	1,1-Dichloroethene	50.000	51.336	-2.7	100	0.00
10		Freon-113	50.000	50.891	-1.8	100	0.00
11	T	Acetone	100.000	102.898	-2.9	100	0.00
12	T	Iodomethane	100.000	97.941	2.1	100	0.00
13	T	Carbon disulfide	100.000	98.442	1.6	100	0.00
14		Methyl acetate	50.000	48.335	3.3	100	0.00
15	T	Vinyl acetate	100.000	104.183	-4.2	100	0.00
16	T	Methylene chloride	50.000	50.136	-0.3	100	0.00
17	T	Acrylonitrile	50.000	50.609	-1.2	99	0.02
18		Methyl tert-butyl ether	50.000	52.432	-4.9	100	0.00
19	T	trans-1,2-Dichloroethene	50.000	49.982	0.0	100	0.00
20	pcc	1,1-Dichloroethane	50.000	50.490	-1.0	100	0.00
21	T	2,2-Dichloropropane	50.000	49.322	1.4	100	0.00
22	T	cis-1,2-Dichloroethene	50.000	51.510	-3.0	100	0.00
23	T	2-Butanone	100.000	98.307	1.7	100	0.00
24	T	Bromochloromethane	50.000	50.983	-2.0	100	0.00
25	ccc	Chloroform	50.000	51.009	-2.0	100	0.00
26		Cyclohexane	50.000	52.485	-5.0	100	0.00
27	T	1,1,1-Trichloroethane	50.000	52.429	-4.9	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	48.946	2.1	100	0.00
30	T	1,1-Dichloropropene	50.000	50.851	-1.7	100	0.00
31	T	Carbon tetrachloride	50.000	51.637	-3.3	100	0.00
32	M	Benzene	50.000	50.428	-0.9	100	0.00
33	T	1,2-Dichloroethane	50.000	53.167	-6.3	100	0.00
34	M	Trichloroethene	50.000	49.278	1.4	100	0.00
35		Methylcyclohexane	50.000	51.413	-2.8	100	0.00
36	ccc	1,2-Dichloropropane	50.000	52.068	-4.1	100	0.00
37	T	Dibromomethane	50.000	52.384	-4.8	100	0.00
38		1,4-Dioxane	500.000	482.500	3.5	100	0.00
39	T	Bromodichloromethane	50.000	52.730	-5.5	100	0.00
40	T	2-Chloroethyl vinyl ether	100.000	98.337	1.7	100	0.00
41	T	cis-1,3-Dichloropropene	50.000	54.335	-8.7	100	0.00
42	T	4-Methyl-2-pentanone	100.000	100.315	-0.3	100	0.00
43	S	Toluene-d8	50.000	50.532	-1.1	100	0.00
44	Mccc	Toluene	50.000	52.505	-5.0	100	0.00
45	T	trans-1,3-Dichloropropene	50.000	53.665	-7.3	100	0.00
46	T	1,1,2-Trichloroethane	50.000	50.660	-1.3	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	100.000	106.057	-6.1	101	0.00
49	T	Tetrachloroethene	50.000	47.729	4.5	100	0.00
50	T	1,3-Dichloropropane	50.000	51.704	-3.4	100	0.00
51	T	Dibromochloromethane	50.000	52.062	-4.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012109.D
Acq On : 1 Dec 2021 11:12 am
Operator : RAC
Sample : ICAL 8260 050 S
Misc : BLANK
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 02 08:31:35 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	50.000	53.663	-7.3	100	0.00
53	pcc	Chlorobenzene	50.000	51.847	-3.7	100	0.00
54	T	1,1,1,2-Tetrachloroethane	50.000	50.724	-1.4	100	0.00
55	ccc	Ethylbenzene	50.000	52.478	-5.0	100	0.00
56	T	m,p-Xylene	100.000	106.595	-6.6	100	0.00
57	T	o-Xylene	50.000	47.694	4.6	100	0.00
58	T	Styrene	50.000	47.400	5.2	100	0.00
59	pcc	Bromoform	50.000	54.312	-8.6	100	0.00
60	S	4-Bromofluorobenzene	50.000	50.616	-1.2	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	50.000	50.131	-0.3	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	50.000	49.456	1.1	100	0.00
64	T	1,2,3-Trichloropropane	50.000	49.276	1.4	99	0.00
65	T	Isopropylbenzene	50.000	51.389	-2.8	100	0.00
66	T	n-Propylbenzene	50.000	51.986	-4.0	100	0.00
67	T	trans-1,4-Dichloro-2-butene	100.000	100.972	-1.0	100	0.00
68	T	2-Chlorotoluene	50.000	50.965	-1.9	100	0.00
69	T	4-Chlorotoluene	50.000	53.354	-6.7	100	0.00
70	T	1,3,5-Trimethylbenzene	50.000	51.541	-3.1	100	0.00
71	T	tert-Butylbenzene	50.000	52.530	-5.1	100	0.00
72	T	1,2,4-Trimethylbenzene	50.000	52.653	-5.3	100	0.00
73	T	sec-Butylbenzene	50.000	52.787	-5.6	100	0.00
74	T	1,3-Dichlorobenzene	50.000	49.890	0.2	100	0.00
75	T	4-Isopropyltoluene	50.000	45.971	8.1	100	0.00
76	T	1,4-Dichlorobenzene	50.000	51.292	-2.6	100	0.00
77	T	1,2-Dichlorobenzene	50.000	51.741	-3.5	100	0.00
78	T	n-Butylbenzene	50.000	53.349	-6.7	100	0.00
79	T	1,2-Dibromo-3-chloropropane	50.000	49.121	1.8	100	0.00
80	T	1,2,4-Trichlorobenzene	50.000	51.048	-2.1	100	0.00
81	T	Hexachlorobutadiene	50.000	50.422	-0.8	100	0.00
82	T	Naphthalene	50.000	53.452	-6.9	100	0.00
83	T	1,2,3-Trichlorobenzene	50.000	51.600	-3.2	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012110.D
Acq On : 1 Dec 2021 11:37 am
Operator : RAC
Sample : ICAL 8260 100 S
Misc : BLANK
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 02 08:32:49 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	100.000	104.575	-4.6	100	0.00
3	pcc	Chloromethane	100.000	101.023	-1.0	100	0.00
4	ccc	Vinyl chloride	100.000	110.362	-10.4	100	0.00
5	T	Bromomethane	-1.000	60.656	0.0	0	0.00
6	T	Chloroethane	100.000	107.062	-7.1	100	0.00
7	T	Trichlorofluoromethane	100.000	91.307	8.7	100	0.00
8	T	Acrolein	100.000	101.493	-1.5	100	0.00
9	Mccc	1,1-Dichloroethene	100.000	100.624	-0.6	100	0.00
10		Freon-113	100.000	105.070	-5.1	100	0.00
11	T	Acetone	200.000	193.173	3.4	100	0.00
12	T	Iodomethane	200.000	198.811	0.6	100	0.00
13	T	Carbon disulfide	200.000	196.833	1.6	100	0.00
14		Methyl acetate	100.000	106.055	-6.1	100	0.00
15	T	Vinyl acetate	200.000	224.792	-12.4	100	0.00
16	T	Methylene chloride	100.000	95.663	4.3	100	0.00
17	T	Acrylonitrile	100.000	101.500	-1.5	100	0.00
18		Methyl tert-butyl ether	100.000	106.273	-6.3	100	0.00
19	T	trans-1,2-Dichloroethene	100.000	100.911	-0.9	100	0.00
20	pcc	1,1-Dichloroethane	100.000	97.033	3.0	100	0.00
21	T	2,2-Dichloropropane	100.000	93.835	6.2	100	0.00
22	T	cis-1,2-Dichloroethene	100.000	101.577	-1.6	100	0.00
23	T	2-Butanone	200.000	210.068	-5.0	100	0.00
24	T	Bromochloromethane	100.000	98.138	1.9	100	0.00
25	ccc	Chloroform	100.000	97.944	2.1	100	0.00
26		Cyclohexane	100.000	105.437	-5.4	100	0.00
27	T	1,1,1-Trichloroethane	100.000	101.209	-1.2	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	50.474	-0.9	100	0.00
30	T	1,1-Dichloropropene	100.000	105.517	-5.5	100	0.00
31	T	Carbon tetrachloride	100.000	104.455	-4.5	100	0.00
32	M	Benzene	100.000	102.177	-2.2	100	0.00
33	T	1,2-Dichloroethane	100.000	100.925	-0.9	100	0.00
34	M	Trichloroethene	100.000	98.345	1.7	100	0.00
35		Methylcyclohexane	100.000	105.852	-5.9	100	0.00
36	ccc	1,2-Dichloropropane	100.000	100.562	-0.6	100	0.00
37	T	Dibromomethane	100.000	102.086	-2.1	100	0.00
38		1,4-Dioxane	1000.000	1104.926	-10.5	100	0.00
39	T	Bromodichloromethane	100.000	103.678	-3.7	100	0.00
40	T	2-Chloroethyl vinyl ether	200.000	210.902	-5.5	100	0.00
41	T	cis-1,3-Dichloropropene	100.000	109.791	-9.8	100	0.00
42	T	4-Methyl-2-pentanone	200.000	208.989	-4.5	100	0.00
43	S	Toluene-d8	50.000	51.134	-2.3	100	0.00
44	Mccc	Toluene	100.000	106.752	-6.8	100	0.00
45	T	trans-1,3-Dichloropropene	100.000	109.482	-9.5	100	0.00
46	T	1,1,2-Trichloroethane	100.000	102.271	-2.3	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	200.000	236.181	-18.1	100	0.00
49	T	Tetrachloroethene	100.000	96.869	3.1	100	0.00
50	T	1,3-Dichloropropane	100.000	103.778	-3.8	100	0.00
51	T	Dibromochloromethane	100.000	104.781	-4.8	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012110.D
Acq On : 1 Dec 2021 11:37 am
Operator : RAC
Sample : ICAL 8260 100 S
Misc : BLANK
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 02 08:32:49 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	100.000	105.462	-5.5	100	0.00
53	pcc	Chlorobenzene	100.000	106.022	-6.0	100	0.00
54	T	1,1,1,2-Tetrachloroethane	100.000	106.272	-6.3	100	0.00
55	ccc	Ethylbenzene	100.000	112.903	-12.9	100	0.00
56	T	m,p-Xylene	200.000	231.352	-15.7	100	0.00
57	T	o-Xylene	100.000	97.724	2.3	100	0.00
58	T	Styrene	100.000	96.993	3.0	100	0.00
59	pcc	Bromoform	100.000	114.108	-14.1	100	0.00
60	S	4-Bromofluorobenzene	50.000	52.470	-4.9	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	100.000	106.433	-6.4	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	100.000	104.105	-4.1	100	0.00
64	T	1,2,3-Trichloropropane	100.000	110.684	-10.7	102	0.00
65	T	Isopropylbenzene	100.000	109.410	-9.4	100	0.00
66	T	n-Propylbenzene	100.000	109.377	-9.4	100	0.00
67	T	trans-1,4-Dichloro-2-butene	200.000	237.803	-18.9	100	0.00
68	T	2-Chlorotoluene	100.000	107.275	-7.3	100	0.00
69	T	4-Chlorotoluene	100.000	111.998	-12.0	100	0.00
70	T	1,3,5-Trimethylbenzene	100.000	111.619	-11.6	100	0.00
71	T	tert-Butylbenzene	100.000	110.477	-10.5	100	0.00
72	T	1,2,4-Trimethylbenzene	100.000	111.602	-11.6	100	0.00
73	T	sec-Butylbenzene	100.000	111.779	-11.8	100	0.00
74	T	1,3-Dichlorobenzene	100.000	108.261	-8.3	100	0.00
75	T	4-Isopropyltoluene	100.000	97.032	3.0	100	0.00
76	T	1,4-Dichlorobenzene	100.000	105.937	-5.9	100	0.00
77	T	1,2-Dichlorobenzene	100.000	107.060	-7.1	100	0.00
78	T	n-Butylbenzene	100.000	115.574	-15.6	100	0.00
79	T	1,2-Dibromo-3-chloropropane	100.000	107.920	-7.9	100	0.00
80	T	1,2,4-Trichlorobenzene	100.000	111.548	-11.5	100	0.00
81	T	Hexachlorobutadiene	100.000	105.403	-5.4	100	0.00
82	T	Naphthalene	100.000	117.127	-17.1	100	0.00
83	T	1,2,3-Trichlorobenzene	100.000	111.522	-11.5	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012111.D
Acq On : 1 Dec 2021 12:01 pm
Operator : RAC
Sample : ICAL 8260 150 S
Misc : BLANK
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 02 08:33:53 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	150.000	147.794	1.5	100	0.00
3	pcc	Chloromethane	150.000	143.751	4.2	100	0.00
4	ccc	Vinyl chloride	150.000	163.728	-9.2	100	0.00
5	T	Bromomethane	-1.000	76.280	0.0	0	0.00
6	T	Chloroethane	150.000	162.724	-8.5	100	0.00
7	T	Trichlorofluoromethane	150.000	172.987	-15.3	100	0.00
8	T	Acrolein	150.000	147.089	1.9	100	0.00
9	Mccc	1,1-Dichloroethene	150.000	153.593	-2.4	100	0.00
10		Freon-113	150.000	155.749	-3.8	100	0.00
11	T	Acetone	300.000	284.003	5.3	100	0.00
12	T	Iodomethane	300.000	311.230	-3.7	100	0.00
13	T	Carbon disulfide	300.000	305.990	-2.0	100	0.00
14		Methyl acetate	150.000	150.034	-0.0	100	0.00
15	T	Vinyl acetate	300.000	341.444	-13.8	100	0.00
16	T	Methylene chloride	150.000	143.405	4.4	100	0.00
17	T	Acrylonitrile	150.000	147.338	1.8	100	0.00
18		Methyl tert-butyl ether	150.000	165.999	-10.7	100	0.00
19	T	trans-1,2-Dichloroethene	150.000	154.239	-2.8	100	0.00
20	pcc	1,1-Dichloroethane	150.000	150.216	-0.1	100	0.00
21	T	2,2-Dichloropropane	150.000	146.252	2.5	100	0.00
22	T	cis-1,2-Dichloroethene	150.000	157.253	-4.8	100	0.00
23	T	2-Butanone	300.000	303.718	-1.2	100	0.01
24	T	Bromochloromethane	150.000	147.182	1.9	100	0.00
25	ccc	Chloroform	150.000	149.375	0.4	100	0.00
26		Cyclohexane	150.000	166.394	-10.9	100	0.00
27	T	1,1,1-Trichloroethane	150.000	153.339	-2.2	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	50.216	-0.4	100	0.00
30	T	1,1-Dichloropropene	150.000	154.267	-2.8	100	0.00
31	T	Carbon tetrachloride	150.000	152.376	-1.6	100	0.00
32	M	Benzene	150.000	151.407	-0.9	100	0.00
33	T	1,2-Dichloroethane	150.000	142.298	5.1	100	0.00
34	M	Trichloroethene	150.000	146.886	2.1	100	0.00
35		Methylcyclohexane	150.000	162.043	-8.0	100	0.00
36	ccc	1,2-Dichloropropane	150.000	152.555	-1.7	100	0.00
37	T	Dibromomethane	150.000	147.384	1.7	100	0.00
38		1,4-Dioxane	1500.000	1438.612	4.1	100	0.00
39	T	Bromodichloromethane	150.000	150.990	-0.7	100	0.00
40	T	2-Chloroethyl vinyl ether	300.000	305.290	-1.8	100	0.00
41	T	cis-1,3-Dichloropropene	150.000	164.692	-9.8	100	0.00
42	T	4-Methyl-2-pentanone	300.000	296.101	1.3	100	0.00
43	S	Toluene-d8	50.000	49.705	0.6	100	0.00
44	Mccc	Toluene	150.000	157.256	-4.8	100	0.00
45	T	trans-1,3-Dichloropropene	150.000	162.771	-8.5	100	0.00
46	T	1,1,2-Trichloroethane	150.000	146.511	2.3	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	300.000	337.964	-12.7	100	0.00
49	T	Tetrachloroethene	150.000	148.739	0.8	100	0.00
50	T	1,3-Dichloropropane	150.000	149.646	0.2	100	0.00
51	T	Dibromochloromethane	150.000	153.591	-2.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012111.D
Acq On : 1 Dec 2021 12:01 pm
Operator : RAC
Sample : ICAL 8260 150 S
Misc : BLANK
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 02 08:33:53 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	150.000	151.190	-0.8	100	0.00
53	pcc	Chlorobenzene	150.000	154.889	-3.3	100	0.00
54	T	1,1,1,2-Tetrachloroethane	150.000	164.401	-9.6	100	0.00
55	ccc	Ethylbenzene	150.000	172.337	-14.9	100	0.00
56	T	m,p-Xylene	300.000	355.372	-18.5	100	0.00
57	T	o-Xylene	150.000	146.643	2.2	100	0.00
58	T	Styrene	150.000	143.867	4.1	100	0.00
59	pcc	Bromoform	150.000	162.069	-8.0	100	0.00
60	S	4-Bromofluorobenzene	50.000	52.359	-4.7	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	150.000	158.712	-5.8	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	150.000	147.918	1.4	100	0.00
64	T	1,2,3-Trichloropropane	150.000	153.609	-2.4	99	0.00
65	T	Isopropylbenzene	150.000	164.487	-9.7	100	0.00
66	T	n-Propylbenzene	150.000	160.067	-6.7	100	0.00
67	T	trans-1,4-Dichloro-2-butene	300.000	336.014	-12.0	100	0.00
68	T	2-Chlorotoluene	150.000	158.518	-5.7	100	0.00
69	T	4-Chlorotoluene	150.000	164.560	-9.7	100	0.00
70	T	1,3,5-Trimethylbenzene	150.000	164.929	-10.0	100	0.00
71	T	tert-Butylbenzene	150.000	165.138	-10.1	100	0.00
72	T	1,2,4-Trimethylbenzene	150.000	164.753	-9.8	100	0.00
73	T	sec-Butylbenzene	150.000	167.553	-11.7	100	0.00
74	T	1,3-Dichlorobenzene	150.000	166.601	-11.1	100	0.00
75	T	4-Isopropyltoluene	150.000	145.916	2.7	100	0.00
76	T	1,4-Dichlorobenzene	150.000	156.733	-4.5	100	0.00
77	T	1,2-Dichlorobenzene	150.000	156.860	-4.6	100	0.00
78	T	n-Butylbenzene	150.000	171.699	-14.5	100	0.00
79	T	1,2-Dibromo-3-chloropropane	150.000	145.171	3.2	100	0.00
80	T	1,2,4-Trichlorobenzene	150.000	169.283	-12.9	100	0.00
81	T	Hexachlorobutadiene	150.000	163.198	-8.8	100	0.00
82	T	Naphthalene	150.000	176.010	-17.3	100	0.00
83	T	1,2,3-Trichlorobenzene	150.000	166.720	-11.1	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012112.D
Acq On : 1 Dec 2021 12:26 pm
Operator : RAC
Sample : ICAL 8260 200 S
Misc : BLANK
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 02 08:35:03 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	200.000	196.602	1.7	100	0.00
3	pcc	Chloromethane	200.000	190.730	4.6	100	0.00
4	ccc	Vinyl chloride	200.000	218.326	-9.2	100	0.00
5	T	Bromomethane	-1.000	79.968	0.0	100	0.00
6	T	Chloroethane	200.000	211.154	-5.6	100	0.00
7	T	Trichlorofluoromethane	200.000	193.244	3.4	100	0.00
8	T	Acrolein	200.000	229.061	-14.5	100	0.00
9	Mccc	1,1-Dichloroethene	200.000	218.457	-9.2	100	0.00
10		Freon-113	200.000	217.768	-8.9	100	0.00
11	T	Acetone	400.000	355.178	11.2	100	0.00
12	T	Iodomethane	400.000	448.010	-12.0	100	0.00
13	T	Carbon disulfide	400.000	429.392	-7.3	100	0.00
14		Methyl acetate	200.000	200.069	-0.0	100	0.00
15	T	Vinyl acetate	400.000	466.941	-16.7	100	0.00
16	T	Methylene chloride	200.000	202.444	-1.2	100	0.00
17	T	Acrylonitrile	200.000	206.529	-3.3	100	0.00
18		Methyl tert-butyl ether	200.000	237.257	-18.6	100	0.00
19	T	trans-1,2-Dichloroethene	200.000	218.566	-9.3	100	0.00
20	pcc	1,1-Dichloroethane	200.000	209.243	-4.6	100	0.00
21	T	2,2-Dichloropropane	200.000	212.104	-6.1	100	0.00
22	T	cis-1,2-Dichloroethene	200.000	222.187	-11.1	100	0.00
23	T	2-Butanone	400.000	398.226	0.4	100	0.00
24	T	Bromochloromethane	200.000	201.439	-0.7	100	0.00
25	ccc	Chloroform	200.000	206.621	-3.3	100	0.00
26		Cyclohexane	200.000	226.961	-13.5	100	0.00
27	T	1,1,1-Trichloroethane	200.000	208.402	-4.2	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	50.456	-0.9	100	0.00
30	T	1,1-Dichloropropene	200.000	218.128	-9.1	100	0.00
31	T	Carbon tetrachloride	200.000	211.996	-6.0	100	0.00
32	M	Benzene	200.000	209.845	-4.9	100	0.00
33	T	1,2-Dichloroethane	200.000	196.519	1.7	100	0.00
34	M	Trichloroethene	200.000	202.357	-1.2	100	0.00
35		Methylcyclohexane	200.000	223.222	-11.6	100	0.00
36	ccc	1,2-Dichloropropane	200.000	209.901	-5.0	100	0.00
37	T	Dibromomethane	200.000	202.192	-1.1	100	0.00
38		1,4-Dioxane	2000.000	1684.310	15.8	100	0.00
39	T	Bromodichloromethane	200.000	204.056	-2.0	100	0.00
40	T	2-Chloroethyl vinyl ether	400.000	414.266	-3.6	100	0.00
41	T	cis-1,3-Dichloropropene	200.000	226.927	-13.5	100	0.00
42	T	4-Methyl-2-pentanone	400.000	398.543	0.4	100	0.00
43	S	Toluene-d8	50.000	50.038	-0.1	100	0.00
44	Mccc	Toluene	200.000	217.261	-8.6	100	0.00
45	T	trans-1,3-Dichloropropene	200.000	222.076	-11.0	100	0.00
46	T	1,1,2-Trichloroethane	200.000	196.447	1.8	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	400.000	458.488	-14.6	100	0.00
49	T	Tetrachloroethene	200.000	199.543	0.2	100	0.00
50	T	1,3-Dichloropropane	200.000	208.182	-4.1	100	0.00
51	T	Dibromochloromethane	200.000	209.308	-4.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012112.D
Acq On : 1 Dec 2021 12:26 pm
Operator : RAC
Sample : ICAL 8260 200 S
Misc : BLANK
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 02 08:35:03 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	200.000	208.204	-4.1	100	0.00
53	pcc	Chlorobenzene	200.000	217.969	-9.0	100	0.00
54	T	1,1,1,2-Tetrachloroethane	200.000	239.979	-20.0	100	0.00
55	ccc	Ethylbenzene	200.000	244.172	-22.1#	100	0.00
56	T	m,p-Xylene	400.000	496.074	-24.0	100	0.00
57	T	o-Xylene	200.000	204.274	-2.1	100	0.00
58	T	Styrene	200.000	206.796	-3.4	100	0.00
59	pcc	Bromoform	200.000	221.298	-10.6	100	0.00
60	S	4-Bromofluorobenzene	50.000	51.975	-4.0	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	200.000	228.800	-14.4	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	200.000	208.931	-4.5	100	0.00
64	T	1,2,3-Trichloropropane	200.000	195.639	2.2	100	0.00
65	T	Isopropylbenzene	200.000	227.432	-13.7	100	0.00
66	T	n-Propylbenzene	200.000	220.478	-10.2	100	0.00
67	T	trans-1,4-Dichloro-2-butene	400.000	476.722	-19.2	100	0.00
68	T	2-Chlorotoluene	200.000	219.119	-9.6	100	0.00
69	T	4-Chlorotoluene	200.000	202.708	-1.4	100	0.00
70	T	1,3,5-Trimethylbenzene	200.000	229.943	-15.0	100	0.00
71	T	tert-Butylbenzene	200.000	228.201	-14.1	100	0.00
72	T	1,2,4-Trimethylbenzene	200.000	229.766	-14.9	100	0.00
73	T	sec-Butylbenzene	200.000	229.386	-14.7	100	0.00
74	T	1,3-Dichlorobenzene	200.000	238.868	-19.4	100	0.00
75	T	4-Isopropyltoluene	200.000	205.501	-2.8	100	0.00
76	T	1,4-Dichlorobenzene	200.000	215.615	-7.8	100	0.00
77	T	1,2-Dichlorobenzene	200.000	219.080	-9.5	100	0.00
78	T	n-Butylbenzene	200.000	237.145	-18.6	100	0.00
79	T	1,2-Dibromo-3-chloropropane	-1.000	196.674	0.0	100	0.00
80	T	1,2,4-Trichlorobenzene	200.000	239.636	-19.8	100	0.00
81	T	Hexachlorobutadiene	200.000	231.016	-15.5	100	0.00
82	T	Naphthalene	200.000	243.468	-21.7	100	0.00
83	T	1,2,3-Trichlorobenzene	200.000	239.857	-19.9	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012116.D
Acq On : 1 Dec 2021 2:05 pm
Operator : RAC
Sample : ICV 8260 050 S
Misc : BLANK
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 02 08:42:58 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:37:36 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	127	0.00
2	T	Dichlorodifluoromethane	50.000	46.865	6.3	112	0.00
3	pcc	Chloromethane	50.000	51.003	-2.0	123	0.00
4	ccc	Vinyl chloride	50.000	53.840	-7.7	125	0.00
5	T	Bromomethane	50.000	49.743	0.5	111	0.02
6	T	Chloroethane	50.000	51.224	-2.4	132	0.02
7	T	Trichlorofluoromethane	50.000	45.990	8.0	101	0.01
8	T	Acrolein	50.000	53.036	-6.1	148	0.00
9	Mccc	1,1-Dichloroethene	50.000	54.840	-9.7	136	0.00
10		Freon-113	50.000	53.540	-7.1	134	0.00
11	T	Acetone	100.000	105.360	-5.4	130	0.01
12	T	Iodomethane	100.000	111.685	-11.7	145	0.00
13	T	Carbon disulfide	100.000	121.823	-21.8	157	0.01
14		Methyl acetate	50.000	53.958	-7.9	141	0.00
15	T	Vinyl acetate	100.000	104.512	-4.5	128	0.00
16	T	Methylene chloride	50.000	52.984	-6.0	134	0.00
17	T	Acrylonitrile	50.000	48.518	3.0	121	0.01
18		Methyl tert-butyl ether	50.000	53.173	-6.3	129	0.02
19	T	trans-1,2-Dichloroethene	50.000	53.086	-6.2	135	0.00
20	pcc	1,1-Dichloroethane	50.000	52.052	-4.1	131	0.00
21	T	2,2-Dichloropropane	50.000	50.655	-1.3	131	0.00
22	T	cis-1,2-Dichloroethene	50.000	53.006	-6.0	131	0.00
23	T	2-Butanone	100.000	107.722	-7.7	139	0.00
24	T	Bromochloromethane	50.000	52.691	-5.4	132	0.00
25	ccc	Chloroform	50.000	53.711	-7.4	134	0.00
26		Cyclohexane	50.000	59.432	-18.9	144	0.00
27	T	1,1,1-Trichloroethane	50.000	52.619	-5.2	128	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	128	0.00
29	S	Dibromofluoromethane	50.000	48.313	3.4	126	0.00
30	T	1,1-Dichloropropene	50.000	54.287	-8.6	136	0.00
31	T	Carbon tetrachloride	50.000	53.567	-7.1	133	0.00
32	M	Benzene	50.000	53.266	-6.5	135	0.00
33	T	1,2-Dichloroethane	50.000	53.317	-6.6	128	0.00
34	M	Trichloroethene	50.000	51.377	-2.8	133	0.00
35		Methylcyclohexane	50.000	52.092	-4.2	130	0.00
36	ccc	1,2-Dichloropropane	50.000	54.489	-9.0	134	0.00
37	T	Dibromomethane	50.000	54.374	-8.7	133	0.00
38		1,4-Dioxane	500.000	498.176	0.4	132	0.00
39	T	Bromodichloromethane	50.000	53.341	-6.7	129	0.00
40	T	2-Chloroethyl vinyl ether	100.000	103.738	-3.7	135	0.00
41	T	cis-1,3-Dichloropropene	50.000	58.602	-17.2	138	0.00
42	T	4-Methyl-2-pentanone	100.000	102.431	-2.4	131	0.00
43	S	Toluene-d8	50.000	50.248	-0.5	127	0.00
44	Mccc	Toluene	50.000	54.065	-8.1	130	0.00
45	T	trans-1,3-Dichloropropene	50.000	54.131	-8.3	128	0.00
46	T	1,1,2-Trichloroethane	50.000	52.956	-5.9	134	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	124	0.00
48	T	2-Hexanone	100.000	103.276	-3.3	123	0.00
49	T	Tetrachloroethene	50.000	52.089	-4.2	136	0.00
50	T	1,3-Dichloropropane	50.000	57.697	-15.4	139	0.00
51	T	Dibromochloromethane	50.000	57.359	-14.7	137	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012116.D
Acq On : 1 Dec 2021 2:05 pm
Operator : RAC
Sample : ICV 8260 050 S
Misc : BLANK
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 02 08:42:58 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:37:36 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	50.000	57.255	-14.5	133	0.00
53	pcc	Chlorobenzene	50.000	54.096	-8.2	130	0.00
54	T	1,1,1,2-Tetrachloroethane	50.000	53.774	-7.5	132	0.00
55	ccc	Ethylbenzene	50.000	54.063	-8.1	128	0.00
56	T	m,p-Xylene	100.000	115.964	-16.0	135	0.00
57	T	o-Xylene	50.000	49.020	2.0	128	0.00
58	T	Styrene	50.000	48.392	3.2	127	0.00
59	pcc	Bromoform	50.000	53.862	-7.7	123	0.00
60	S	4-Bromofluorobenzene	50.000	51.796	-3.6	127	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	120	0.00
62	T	Bromobenzene	50.000	53.436	-6.9	128	0.00
63	pcc	1,1,2,2-Tetrachloroethane	50.000	55.913	-11.8	136	0.00
64	T	1,2,3-Trichloropropane	50.000	44.131	11.7	109	0.00
65	T	Isopropylbenzene	50.000	54.943	-9.9	128	0.00
66	T	n-Propylbenzene	50.000	55.231	-10.5	128	0.00
67	T	trans-1,4-Dichloro-2-butene	100.000	117.826	-17.8	140	0.00
68	T	2-Chlorotoluene	50.000	54.298	-8.6	128	0.00
69	T	4-Chlorotoluene	50.000	56.611	-13.2	127	0.00
70	T	1,3,5-Trimethylbenzene	50.000	55.799	-11.6	130	0.00
71	T	tert-Butylbenzene	50.000	56.192	-12.4	128	0.00
72	T	1,2,4-Trimethylbenzene	50.000	55.942	-11.9	128	0.00
73	T	sec-Butylbenzene	50.000	53.569	-7.1	122	0.00
74	T	1,3-Dichlorobenzene	50.000	52.671	-5.3	127	0.00
75	T	4-Isopropyltoluene	50.000	47.831	4.3	125	0.00
76	T	1,4-Dichlorobenzene	50.000	53.216	-6.4	125	0.00
77	T	1,2-Dichlorobenzene	50.000	54.602	-9.2	127	0.00
78	T	n-Butylbenzene	50.000	55.733	-11.5	126	0.00
79	T	1,2-Dibromo-3-chloropropane	50.000	49.410	1.2	121	0.00
80	T	1,2,4-Trichlorobenzene	50.000	52.547	-5.1	124	0.00
81	T	Hexachlorobutadiene	50.000	50.924	-1.8	121	0.00
82	T	Naphthalene	50.000	53.028	-6.1	119	0.00
83	T	1,2,3-Trichlorobenzene	50.000	52.762	-5.5	123	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Response Factor Report MS-12

Method Path : C:\MS-12\New\Calculation Methods\
Method File : MS-12_VS120121.M
Title : 8260/624 Purgeable organics calibration.
Last Update : Thu Dec 02 08:50:14 2021
Response Via : Initial Calibration

Calibration Files
1 =V1212012105.D 5 =V1212012106.D 10 =V1212012107.D 20 =V1212012108.D 50 =V1212012109.D 100 =V1212012110.D
150 =V1212012111.D 200 =V1212012112.D

		Compound	1	5	10	20	50	100	150	200	Avg	%RSD
1)		Pentafluorobenzene	----------ISTD----------									
2)	T	Dichlorodifluo...		0.489	0.495	0.483	0.532	0.525	0.494	0.493	0.502	3.74
3)	pcc	Chloromethane		1.186	1.329	1.346	1.353	1.292	1.226	1.220	1.279	5.31
4)	ccc	Vinyl chloride		1.107	1.136	1.463	1.553	1.563	1.546	1.546	1.416	14.42
5)	T	Bromomethane	2.464	1.532	1.740	1.969	2.282				1.997	19.10
6)	T	Chloroethane		1.137	1.288	1.396	1.345	1.460	1.479	1.439	1.363	8.82
7)	T	Trichlorofluor...		0.986	0.915	0.833	1.120	0.887	1.120	0.939	0.971	11.52
8)	T	Acrolein				0.064	0.059	0.065	0.063	0.074	0.065	8.24
9)	Mccc	1,1-Dichloroet...	0.479	0.459	0.499	0.501	0.517	0.506	0.515	0.550	0.503	5.33
10)		Freon-113		0.451	0.472	0.517	0.522	0.539	0.533	0.559	0.513	7.49
11)	T	Acetone				0.083	0.073	0.068	0.067	0.063	0.071	10.78
12)	T	Iodomethane	1.086	0.752	0.834	0.862	0.890	0.904	0.943	1.018	0.911	11.54
13)	T	Carbon disulfide	1.776	1.368	1.428	1.462	1.508	1.508	1.563	1.645	1.532	8.42
14)		Methyl acetate		0.489	0.565	0.551	0.531	0.583	0.550	0.550	0.546	5.43
15)	T	Vinyl acetate		0.944	1.090	1.224	1.342	1.448	1.466	1.504	1.288	16.43
16)	T	Methylene chlo...		0.662	0.579	0.589	0.597	0.570	0.569	0.603	0.596	5.40
17)	T	Acrylonitrile			0.251	0.237	0.256	0.256	0.248	0.261	0.252	3.30
18)		Methyl tert-bu...		1.041	1.071	1.234	1.352	1.370	1.427	1.529	1.289	14.13
19)	T	trans-1,2-Dich...		0.548	0.554	0.574	0.584	0.589	0.601	0.638	0.584	5.20
20)	pcc	1,1-Dichloroet...		0.967	0.989	1.004	1.006	0.966	0.997	1.042	0.996	2.61
21)	T	2,2-Dichloropr...		0.715	0.706	0.679	0.682	0.648	0.674	0.733	0.691	4.15
22)	T	cis-1,2-Dichlo...		0.537	0.560	0.616	0.631	0.623	0.643	0.681	0.613	8.04
23)	T	2-Butanone			0.086	0.095	0.091	0.097	0.094	0.092	0.092	4.01
24)	T	Bromochloromet...		0.303	0.331	0.318	0.322	0.310	0.310	0.319	0.316	2.90
25)	ccc	Chloroform		0.882	0.935	0.955	0.952	0.914	0.929	0.964	0.933	3.03
26)		Cyclohexane		0.720	0.769	0.897	0.944	0.949	0.998	1.021	0.900	12.68
27)	T	1,1,1-Trichlor...		0.740	0.761	0.820	0.846	0.817	0.825	0.841	0.807	5.04
28)	I	1,4-Difluorobenzene	----------ISTD----------									
29)	S	Dibromofluorom...	0.320	0.339	0.322	0.334	0.322	0.332	0.330	0.332	0.329	2.05
30)	T	1,1-Dichloropr...		0.140	0.156	0.166	0.168	0.174	0.169	0.180	0.165	7.89
31)	T	Carbon tetrach...		0.372	0.421	0.418	0.439	0.444	0.432	0.451	0.425	6.19
32)	M	Benzene	1.482	1.151	1.196	1.323	1.329	1.346	1.330	1.382	1.317	7.85
33)	T	1,2-Dichloroet...		0.355	0.342	0.372	0.379	0.360	0.338	0.351	0.357	4.22
34)	M	Trichloroethene	0.479	0.317	0.320	0.358	0.360	0.359	0.357	0.369	0.365	13.72
35)		Methylcyclohexane	0.472	0.295	0.345	0.399	0.418	0.430	0.439	0.454	0.407	14.59
36)	ccc	1,2-Dichloropr...		0.323	0.328	0.354	0.363	0.350	0.354	0.366	0.348	4.72
37)	T	Dibromomethane		0.194	0.212	0.225	0.225	0.220	0.211	0.217	0.215	5.04
38)		1,4-Dioxane			0.005	0.005	0.005	0.006	0.005	0.005	0.005	8.64
39)	T	Bromodichlorom...		0.361	0.378	0.402	0.418	0.411	0.399	0.404	0.396	4.98
40)	T	2-Chloroethyl ...		0.058	0.055	0.055	0.057	0.061	0.059	0.060	0.058	4.06
41)	T	cis-1,3-Dichlo...		0.379	0.402	0.459	0.522	0.527	0.527	0.545	0.480	14.00

Method Path : C:\MS-12\New\Calculation Methods\
Method File : MS-12_VS120121.M
Title : 8260/624 Purgeable organics calibration.

42)	T	4-Methyl-2-pen...		0.258	0.373	0.478	0.519	0.552	0.524	0.531	0.462	23.31
43)	S	Toluene-d8	1.218	1.257	1.258	1.254	1.270	1.286	1.250	1.258	1.256	1.53
44)	Mccc	Toluene	0.789	0.669	0.743	0.818	0.871	0.885	0.869	0.901	0.818	9.85
45)	T	trans-1,3-Dich...	0.448	0.360	0.363	0.417	0.474	0.483	0.479	0.490	0.439	12.14
46)	T	1,1,2-Trichlor...		0.262	0.268	0.275	0.271	0.274	0.262	0.263	0.268	2.15
47)	I	Chlorobenzene-d5	----------ISTD----------									
48)	T	2-Hexanone		0.231	0.268	0.324	0.339	0.377	0.360	0.366	0.324	16.89
49)	T	Tetrachloroethene	0.494	0.302	0.327	0.347	0.343	0.348	0.357	0.359	0.360	15.95
50)	T	1,3-Dichloropr...		0.429	0.484	0.506	0.508	0.510	0.490	0.511	0.491	6.00
51)	T	Dibromochlorom...		0.289	0.301	0.348	0.344	0.346	0.338	0.345	0.330	7.39
52)	T	1,2-Dibromoethane		0.270	0.295	0.303	0.330	0.325	0.310	0.320	0.308	6.66
53)	pcc	Chlorobenzene		0.773	0.821	0.929	0.941	0.962	0.937	0.989	0.908	8.72
54)	T	1,1,1,2-Tetrac...		0.278	0.319	0.337	0.361	0.378	0.390	0.427	0.356	13.80
55)	ccc	Ethylbenzene	1.499	1.120	1.315	1.418	1.627	1.750	1.781	1.892	1.550	16.84#
56)	T	m,p-Xylene	0.946	0.816	0.937	1.088	1.204	1.307	1.338	1.401	1.130	19.08
57)	T	o-Xylene	0.880	0.793	0.894	1.082	1.231	1.313	1.330	1.399	1.115	21.11
58)	T	Styrene	0.720	0.608	0.730	0.870	1.044	1.124	1.129	1.228	0.932	24.71
59)	pcc	Bromoform		0.186	0.193	0.241	0.261	0.274	0.259	0.266	0.240	14.93
60)	S	4-Bromofluorob...	0.376	0.385	0.384	0.403	0.407	0.422	0.421	0.418	0.402	4.51
61)	I	1,4-Dichlorobenzen...	----------ISTD----------									
62)	T	Bromobenzene		0.613	0.640	0.690	0.713	0.757	0.753	0.814	0.712	9.86
63)	pcc	1,1,2,2-Tetrac...		0.838	0.830	0.869	0.854	0.899	0.851	0.902	0.863	3.26
64)	T	1,2,3-Trichlor...		0.576	0.625	0.644	0.602	0.676	0.626	0.598	0.621	5.31
65)	T	Isopropylbenzene		2.078	2.342	2.648	2.747	2.924	2.931	3.039	2.673	13.09
66)	T	n-Propylbenzene		2.685	2.844	3.194	3.363	3.538	3.451	3.565	3.234	10.72
67)	T	trans-1,4-Dich...		0.051	0.049	0.060	0.065	0.076	0.072	0.077	0.064	17.93
68)	T	2-Chlorotoluene		1.433	1.638	1.767	1.790	1.884	1.856	1.924	1.756	9.69
69)	T	4-Chlorotoluene		1.431	1.847	2.041	2.100	2.204	2.159	1.995	1.968	13.43
70)	T	1,3,5-Trimethy...		1.566	1.823	2.180	2.205	2.388	2.352	2.459	2.139	15.31
71)	T	tert-Butylbenzene	1.910	1.484	1.638	1.984	2.081	2.189	2.181	2.260	1.966	14.11
72)	T	1,2,4-Trimethy...		1.571	1.880	2.144	2.281	2.417	2.379	2.488	2.166	15.33
73)	T	sec-Butylbenzene		2.260	2.441	2.939	3.148	3.333	3.330	3.420	2.982	15.49
74)	T	1,3-Dichlorobe...		1.128	1.233	1.316	1.403	1.522	1.562	1.680	1.406	13.86
75)	T	4-Isopropyltol...	2.038	1.627	2.014	2.512	2.698	2.996	3.049	3.248	2.523	22.99
76)	T	1,4-Dichlorobe...		1.212	1.252	1.403	1.421	1.468	1.448	1.493	1.385	7.89
77)	T	1,2-Dichlorobe...		1.087	1.159	1.314	1.338	1.384	1.352	1.416	1.293	9.46
78)	T	n-Butylbenzene		1.463	1.757	2.172	2.351	2.546	2.522	2.613	2.203	19.94
79)	T	1,2-Dibromo-3-...		0.272	0.208	0.181	0.161	0.168	0.149		0.190	23.65
80)	T	1,2,4-Trichlor...		0.560	0.625	0.736	0.773	0.845	0.855	0.908	0.757	16.77
81)	T	Hexachlorobuta...		0.325	0.367	0.443	0.425	0.444	0.458	0.487	0.421	13.27
82)	T	Naphthalene	1.968	1.461	1.907	2.161	2.379	2.607	2.612	2.709	2.226	19.42
83)	T	1,2,3-Trichlor...		0.539	0.598	0.712	0.751	0.811	0.809	0.872	0.727	16.62

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012105.D
Acq On : 1 Dec 2021 9:32 am
Operator : RAC
Sample : ICAL 8260 001 S
Misc : BLANK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 08:18:03 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	...	7.848	168	161512	50.00	ug/kg	0.00
28) 1,4-Difluorobenzene	...	8.769	114	302484	50.00	ug/kg	0.00
47) Chlorobenzene-d5	...	11.583	117	296175	50.00	ug/kg	0.00
61) 1,4-Dichlorobenzene-d4	...	13.514	152	136505	50.00	ug/kg	0.00
System Monitoring Compounds							
29) Dibromofluoromethane	...	7.735	113	96768	48.67	ug/kg	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 97.34%				
43) Toluene-d8	...	10.270	98	368424	48.45	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 96.90%				
60) 4-Bromofluorobenzene	...	12.574	95	111226	46.74	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 93.48%				
Target Compounds						Qvalue	
2) Dichlorodifluoromethane	...	1.712	85	2551	1.57	ug/kg#	82
3) Chloromethane	...	1.924	50	7611	1.84	ug/kg#	69
4) Vinyl chloride	...	2.053	62	5954	1.30	ug/kg#	75
5) Bromomethane	...	2.454	94	7959	1.26	ug/kg	97
6) Chloroethane	...	2.585	64	7496	1.70	ug/kg#	77
7) Trichlorofluoromethane	...	2.913	101	4599	1.47	ug/kg#	62
8) Acrolein	...	3.497	56	441	2.12	ug/kg	76
9) 1,1-Dichloroethene	...	3.663	96	1547	0.95	ug/kg#	85
10) Freon-113	...	3.708	101	1816	1.10	ug/kg	90
11) Acetone	...	3.766	58	3587	15.74	ug/kg#	1
12) Iodomethane	...	3.872	142	7016	2.39	ug/kg	88
13) Carbon disulfide	...	3.978	76	11471	2.32	ug/kg	100
14) Methyl acetate	...	3.859	43	1345	0.76	ug/kg	97
15) Vinyl acetate	...	6.012	43	7461	1.79	ug/kg#	92
16) Methylene chloride	...	4.546	84	3406	1.77	ug/kg#	61
17) Acrylonitrile	...	5.001	53	622	0.76	ug/kg#	15
18) Methyl tert-butyl ether	...	5.085	73	4603	1.11	ug/kg#	84
19) trans-1,2-Dichloroethene	...	5.072	96	2842	1.51	ug/kg#	70
20) 1,1-Dichloroethane	...	5.910	63	5095	1.58	ug/kg#	78
21) 2,2-Dichloropropane	...	6.914	77	2518	1.13	ug/kg#	86
22) cis-1,2-Dichloroethene	...	6.930	96	2727	1.38	ug/kg#	52
23) 2-Butanone	...	6.959	72	382	1.28	ug/kg	58
24) Bromochloromethane	...	7.312	128	1762	1.72	ug/kg#	36
25) Chloroform	...	7.511	83	4201	1.39	ug/kg	94
26) Cyclohexane	...	7.777	56	2434	0.84	ug/kg#	79
27) 1,1,1-Trichloroethane	...	7.707	97	3565	1.37	ug/kg#	68
30) 1,1-Dichloropropene	...	7.944	110	846	0.85	ug/kg#	55
31) Carbon tetrachloride	...	8.008	119	194	0.08	ug/kg	85
32) Benzene	...	8.197	78	8968	1.13	ug/kg#	83
33) 1,2-Dichloroethane	...	8.281	62	3313	1.53	ug/kg#	93
34) Trichloroethene	...	9.019	130	2898	1.31	ug/kg	90
35) Methylcyclohexane	...	9.250	55	2858	1.16	ug/kg#	19
36) 1,2-Dichloropropane	...	9.288	63	3237	1.54	ug/kg#	70
37) Dibromomethane	...	9.394	93	2501	1.92	ug/kg	80
38) 1,4-Dioxane	...	9.391	88	105	3.16	ug/kg#	1
39) Bromodichloromethane	...	9.584	83	3676	1.53	ug/kg	92
40) 2-Chloroethyl vinyl ether	...	10.338	63	1130	3.24	ug/kg#	93
41) cis-1,3-Dichloropropene	...	10.023	75	3622	1.25	ug/kg#	93
42) 4-Methyl-2-pentanone	...	10.174	43	5885	5.77	ug/kg#	89
44) Toluene	...	10.338	92	4775	0.95	ug/kg	77
45) trans-1,3-Dichloropropene	...	10.572	75	2709	1.01	ug/kg#	67
46) 1,1,2-Trichloroethane	...	10.745	83	2710	1.67	ug/kg#	61
48) 2-Hexanone	...	10.947	43	3032	1.60	ug/kg#	70

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012105.D
Acq On : 1 Dec 2021 9:32 am
Operator : RAC
Sample : ICAL 8260 001 S
Misc : BLANK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 08:18:03 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

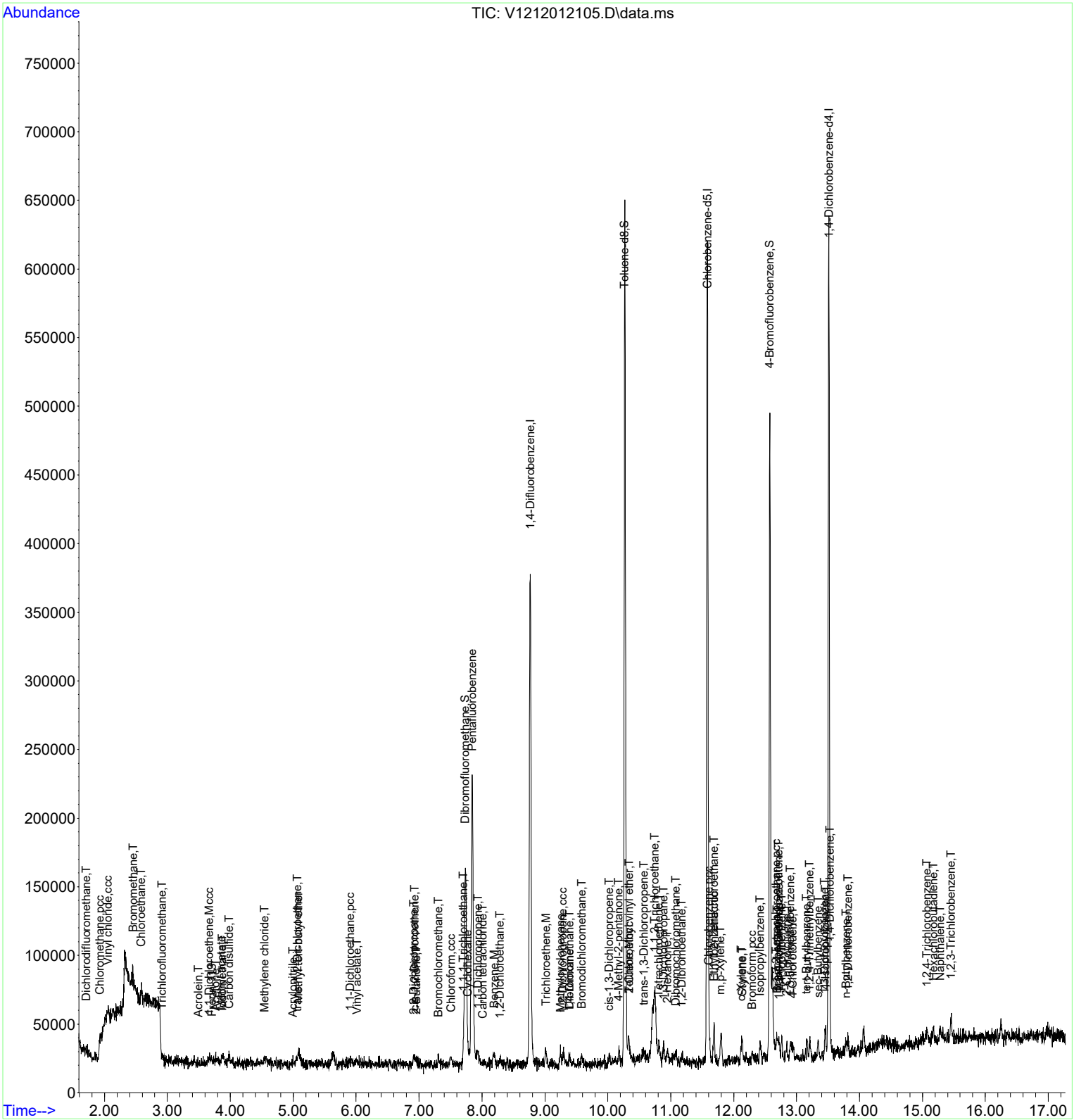
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	10.813	166	2927	1.37	ug/kg	86
50) 1,3-Dichloropropane	10.890	76	4081	1.40	ug/kg#	59
51) Dibromochloromethane	11.082	129	3192	1.63	ug/kg	91
52) 1,2-Dibromoethane	11.178	107	2541	1.39	ug/kg#	93
53) Chlorobenzene	11.608	112	6618	1.23	ug/kg#	59
54) 1,1,1,2-Tetrachloroethane	11.689	131	2826	1.34	ug/kg	95
55) Ethylbenzene	11.692	91	8877	0.97	ug/kg	97
56) m,p-Xylene	11.795	91	11202	1.67	ug/kg	82
57) o-Xylene	12.119	91	5211	4.19	ug/kg	81
58) Styrene	12.141	104	4262	4.96	ug/kg	91
59) Bromoform	12.292	173	2044	1.44	ug/kg#	93
62) Bromobenzene	12.696	156	2700	1.39	ug/kg	91
63) 1,1,2,2-Tetrachloroethane	12.680	83	3733	1.58	ug/kg#	93
64) 1,2,3-Trichloropropane	12.725	75	1228	0.74	ug/kg#	1
65) Isopropylbenzene	12.420	105	6491	0.89	ug/kg#	81
66) n-Propylbenzene	12.764	91	8702	0.99	ug/kg	90
67) trans-1,4-Dichloro-2-butene	12.719	124	601	3.42	ug/kg#	40
68) 2-Chlorotoluene	12.847	91	5013	1.05	ug/kg#	82
69) 4-Chlorotoluene	12.940	91	6099	1.14	ug/kg	86
70) 1,3,5-Trimethylbenzene	12.902	105	5947	1.02	ug/kg#	76
71) tert-Butylbenzene	13.158	119	5215	0.96	ug/kg	95
72) 1,2,4-Trimethylbenzene	13.210	105	5462	0.92	ug/kg#	77
73) sec-Butylbenzene	13.344	105	6406	0.79	ug/kg	95
74) 1,3-Dichlorobenzene	13.447	146	4189	1.09	ug/kg	94
75) 4-Isopropyltoluene	13.463	119	5564	4.78	ug/kg#	82
76) 1,4-Dichlorobenzene	13.534	146	5050	1.34	ug/kg#	66
77) 1,2-Dichlorobenzene	13.819	146	3728	1.06	ug/kg	92
78) n-Butylbenzene	13.787	91	4518	0.75	ug/kg#	85
79) 1,2-Dibromo-3-chloropropane	14.455	75	660	Below Cal	#	57
80) 1,2,4-Trichlorobenzene	15.074	180	2564	1.24	ug/kg#	92
81) Hexachlorobutadiene	15.180	225	1823	1.58	ug/kg	96
82) Naphthalene	15.282	128	5374	0.88	ug/kg	100
83) 1,2,3-Trichlorobenzene	15.456	180	2136	1.08	ug/kg	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012105.D
Acq On : 1 Dec 2021 9:32 am
Operator : RAC
Sample : ICAL 8260 001 S
Misc : BLANK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 08:18:03 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012106.D
Acq On : 1 Dec 2021 9:57 am
Operator : RAC
Sample : ICAL 8260 005 S
Misc : BLANK
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 02 08:24:59 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	...	7.848	168	159188	50.00	ug/kg	0.00
28) 1,4-Difluorobenzene	...	8.769	114	283676	50.00	ug/kg	0.00
47) Chlorobenzene-d5	...	11.583	117	288474	50.00	ug/kg	0.00
61) 1,4-Dichlorobenzene-d4	...	13.511	152	140842	50.00	ug/kg	0.00
System Monitoring Compounds							
29) Dibromofluoromethane	...	7.742	113	96089	51.53	ug/kg	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 103.06%				
43) Toluene-d8	...	10.270	98	356482	49.99	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.98%				
60) 4-Bromofluorobenzene	...	12.571	95	111017	47.90	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 95.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	...	1.712	85	7784	4.87	ug/kg	97
3) Chloromethane	...	1.921	50	18886	4.64	ug/kg#	82
4) Vinyl chloride	...	2.056	62	17619	3.91	ug/kg#	70
5) Bromomethane	...	2.447	94	24387	3.93	ug/kg	94
6) Chloroethane	...	2.585	64	18099	4.17	ug/kg	92
7) Trichlorofluoromethane	...	2.906	101	15695	5.07	ug/kg#	97
8) Acrolein	...	3.541	56	580	2.83	ug/kg	90
9) 1,1-Dichloroethene	...	3.667	96	7311	4.56	ug/kg#	75
10) Freon-113	...	3.708	101	7174	4.39	ug/kg#	92
11) Acetone	...	3.782	58	4208	18.74	ug/kg	85
12) Iodomethane	...	3.878	142	23934	8.27	ug/kg	98
13) Carbon disulfide	...	3.981	76	43564	8.93	ug/kg	100
14) Methyl acetate	...	4.328	43	7783m	4.45	ug/kg	
15) Vinyl acetate	...	5.996	43	30039	7.32	ug/kg#	87
16) Methylene chloride	...	4.539	84	10546	5.56	ug/kg	78
17) Acrylonitrile	...	5.027	53	4466m	5.55	ug/kg	
18) Methyl tert-butyl ether	...	5.091	73	16568	4.04	ug/kg	93
19) trans-1,2-Dichloroethene	...	5.082	96	8724	4.69	ug/kg	76
20) 1,1-Dichloroethane	...	5.903	63	15386	4.85	ug/kg	91
21) 2,2-Dichloropropane	...	6.914	77	11388	5.18	ug/kg#	74
22) cis-1,2-Dichloroethene	...	6.927	96	8545	4.38	ug/kg	85
23) 2-Butanone	...	6.939	72	548	1.86	ug/kg#	1
24) Bromochloromethane	...	7.309	128	4827	4.79	ug/kg	89
25) Chloroform	...	7.507	83	14043	4.73	ug/kg	97
26) Cyclohexane	...	7.787	56	11460	4.00	ug/kg#	85
27) 1,1,1-Trichloroethane	...	7.694	97	11784	4.59	ug/kg	90
30) 1,1-Dichloropropene	...	7.937	110	3976	4.25	ug/kg	99
31) Carbon tetrachloride	...	7.915	119	10553	4.37	ug/kg	83
32) Benzene	...	8.184	78	32657	4.37	ug/kg	97
33) 1,2-Dichloroethane	...	8.284	62	10069	4.97	ug/kg#	76
34) Trichloroethene	...	9.019	130	9004	4.35	ug/kg	93
35) Methylcyclohexane	...	9.247	55	8375	3.63	ug/kg#	75
36) 1,2-Dichloropropane	...	9.288	63	9173	4.64	ug/kg#	90
37) Dibromomethane	...	9.385	93	5502	4.51	ug/kg	97
38) 1,4-Dioxane	...	9.413	88	1012	32.47	ug/kg#	1
39) Bromodichloromethane	...	9.590	83	10239	4.56	ug/kg#	94
40) 2-Chloroethyl vinyl ether	...	10.331	63	3299	10.08	ug/kg#	89
41) cis-1,3-Dichloropropene	...	10.030	75	10757	3.95	ug/kg#	87
42) 4-Methyl-2-pentanone	...	10.180	43	14655	8.76	ug/kg#	90
44) Toluene	...	10.331	92	18970	4.03	ug/kg	95
45) trans-1,3-Dichloropropene	...	10.569	75	10221	4.08	ug/kg	93
46) 1,1,2-Trichloroethane	...	10.745	83	7420	4.88	ug/kg	89
48) 2-Hexanone	...	10.938	43	13313m	7.22	ug/kg	

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012106.D
Acq On : 1 Dec 2021 9:57 am
Operator : RAC
Sample : ICAL 8260 005 S
Misc : BLANK
ALS Vial : 6 Sample Multiplier: 1

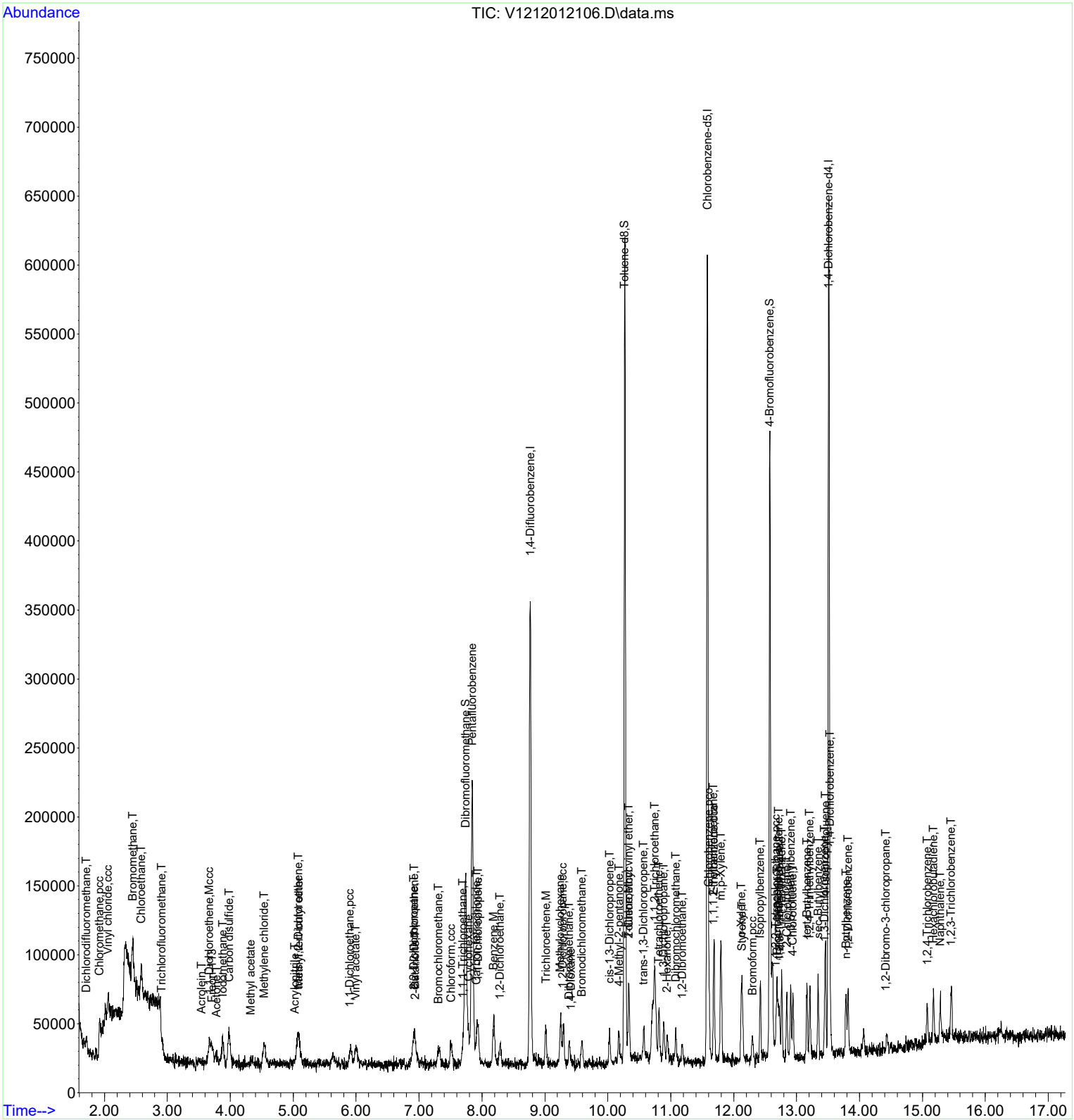
Quant Time: Dec 02 08:24:59 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	10.813	166	8713	4.20	ug/kg	98
50) 1,3-Dichloropropane	10.890	76	12362	4.36	ug/kg	92
51) Dibromochloromethane	11.082	129	8335	4.38	ug/kg	89
52) 1,2-Dibromoethane	11.185	107	7803	4.40	ug/kg#	97
53) Chlorobenzene	11.605	112	22313	4.26	ug/kg	91
54) 1,1,1,2-Tetrachloroethane	11.679	131	8024	3.91	ug/kg	91
55) Ethylbenzene	11.685	91	32302	3.61	ug/kg	98
56) m,p-Xylene	11.801	91	47096	7.23	ug/kg	92
57) o-Xylene	12.122	91	22881	6.41	ug/kg	98
58) Styrene	12.138	104	17533	6.88	ug/kg	98
59) Bromoform	12.301	173	5368	3.88	ug/kg#	89
62) Bromobenzene	12.696	156	8636	4.31	ug/kg	81
63) 1,1,2,2-Tetrachloroethane	12.674	83	11801	4.85	ug/kg	96
64) 1,2,3-Trichloropropane	12.728	75	8112m	4.71	ug/kg	
65) Isopropylbenzene	12.423	105	29261	3.89	ug/kg	97
66) n-Propylbenzene	12.763	91	37820	4.15	ug/kg	99
67) trans-1,4-Dichloro-2-butene	12.712	124	1439	7.94	ug/kg#	54
68) 2-Chlorotoluene	12.847	91	20188	4.08	ug/kg	86
69) 4-Chlorotoluene	12.940	91	20152	3.63	ug/kg#	81
70) 1,3,5-Trimethylbenzene	12.908	105	22057	3.66	ug/kg	85
71) tert-Butylbenzene	13.165	119	20907	3.75	ug/kg	95
72) 1,2,4-Trimethylbenzene	13.213	105	22127	3.63	ug/kg	89
73) sec-Butylbenzene	13.344	105	31831	3.79	ug/kg	99
74) 1,3-Dichlorobenzene	13.447	146	15890	4.01	ug/kg	93
75) 4-Isopropyltoluene	13.460	119	22912	6.67	ug/kg	96
76) 1,4-Dichlorobenzene	13.530	146	17067	4.37	ug/kg	91
77) 1,2-Dichlorobenzene	13.816	146	15311	4.20	ug/kg	91
78) n-Butylbenzene	13.790	91	20602	3.32	ug/kg	97
79) 1,2-Dibromo-3-chloropropane	14.422	75	3826	4.23	ug/kg#	68
80) 1,2,4-Trichlorobenzene	15.077	180	7886	3.70	ug/kg	94
81) Hexachlorobutadiene	15.176	225	4583	3.86	ug/kg	89
82) Naphthalene	15.286	128	20583	3.28	ug/kg	100
83) 1,2,3-Trichlorobenzene	15.459	180	7594	3.71	ug/kg#	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012106.D
Acq On : 1 Dec 2021 9:57 am
Operator : RAC
Sample : ICAL 8260 005 S
Misc : BLANK
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 02 08:24:59 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012107.D
Acq On : 1 Dec 2021 10:22 am
Operator : RAC
Sample : ICAL 8260 010 S
Misc : BLANK
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 02 08:26:53 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	...	7.844	168	156896	50.00	ug/kg	0.00
28) 1,4-Difluorobenzene	...	8.768	114	288417	50.00	ug/kg	0.00
47) Chlorobenzene-d5	...	11.579	117	289100	50.00	ug/kg	0.00
61) 1,4-Dichlorobenzene-d4	...	13.511	152	148668	50.00	ug/kg	0.00
System Monitoring Compounds							
29) Dibromofluoromethane	...	7.732	113	92807	48.96	ug/kg	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 97.92%				
43) Toluene-d8	...	10.270	98	362970	50.06	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.12%				
60) 4-Bromofluorobenzene	...	12.577	95	111130	47.84	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 95.68%				
Target Compounds						Qvalue	
2) Dichlorodifluoromethane	...	1.719	85	15546	9.88	ug/kg	94
3) Chloromethane	...	1.927	50	41698	10.39	ug/kg	99
4) Vinyl chloride	...	2.059	62	35654	8.02	ug/kg	97
5) Bromomethane	...	2.453	94	54600	8.92	ug/kg	97
6) Chloroethane	...	2.595	64	40416	9.45	ug/kg	99
7) Trichlorofluoromethane	...	2.922	101	28698	9.41	ug/kg#	96
8) Acrolein	...	3.531	56	903	4.47	ug/kg	83
9) 1,1-Dichloroethene	...	3.660	96	15643	9.91	ug/kg	82
10) Freon-113	...	3.714	101	14807	9.19	ug/kg#	90
11) Acetone	...	3.769	58	4997	22.57	ug/kg	86
12) Iodomethane	...	3.868	142	52315	18.34	ug/kg	98
13) Carbon disulfide	...	3.984	76	89645	18.64	ug/kg	100
14) Methyl acetate	...	4.324	43	17733	10.28	ug/kg	92
15) Vinyl acetate	...	5.996	43	68400	16.92	ug/kg	94
16) Methylene chloride	...	4.536	84	18165	9.72	ug/kg	93
17) Acrylonitrile	...	5.040	53	7878m	9.93	ug/kg	
18) Methyl tert-butyl ether	...	5.088	73	33622	8.31	ug/kg	87
19) trans-1,2-Dichloroethene	...	5.072	96	17387	9.49	ug/kg	77
20) 1,1-Dichloroethane	...	5.912	63	31049	9.94	ug/kg#	93
21) 2,2-Dichloropropane	...	6.914	77	22153	10.22	ug/kg	89
22) cis-1,2-Dichloroethene	...	6.926	96	17562	9.13	ug/kg	87
23) 2-Butanone	...	6.965	72	5413	18.67	ug/kg	70
24) Bromochloromethane	...	7.315	128	10386	10.47	ug/kg	79
25) Chloroform	...	7.514	83	29324	10.02	ug/kg	99
26) Cyclohexane	...	7.783	56	24143	8.55	ug/kg#	85
27) 1,1,1-Trichloroethane	...	7.697	97	23867	9.42	ug/kg	90
30) 1,1-Dichloropropene	...	7.937	110	9018	9.49	ug/kg	81
31) Carbon tetrachloride	...	7.918	119	24274	9.90	ug/kg	93
32) Benzene	...	8.184	78	68985	9.08	ug/kg	93
33) 1,2-Dichloroethane	...	8.290	62	19719	9.58	ug/kg#	77
34) Trichloroethene	...	9.015	130	18432	8.76	ug/kg	96
35) Methylcyclohexane	...	9.246	55	19877	8.47	ug/kg	82
36) 1,2-Dichloropropane	...	9.294	63	18924	9.42	ug/kg#	89
37) Dibromomethane	...	9.391	93	12255	9.88	ug/kg	97
38) 1,4-Dioxane	...	9.384	88	3150m	99.40	ug/kg	
39) Bromodichloromethane	...	9.586	83	21810	9.55	ug/kg	100
40) 2-Chloroethyl vinyl ether	...	10.331	63	6296	18.93	ug/kg#	94
41) cis-1,3-Dichloropropene	...	10.026	75	23196	8.37	ug/kg	90
42) 4-Methyl-2-pentanone	...	10.171	43	43007	17.81	ug/kg	97
44) Toluene	...	10.331	92	42863	8.96	ug/kg	99
45) trans-1,3-Dichloropropene	...	10.572	75	20943	8.23	ug/kg#	90
46) 1,1,2-Trichloroethane	...	10.745	83	15485	10.02	ug/kg	94
48) 2-Hexanone	...	10.941	43	31048	16.80	ug/kg	91

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012107.D
Acq On : 1 Dec 2021 10:22 am
Operator : RAC
Sample : ICAL 8260 010 S
Misc : BLANK
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 02 08:26:53 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

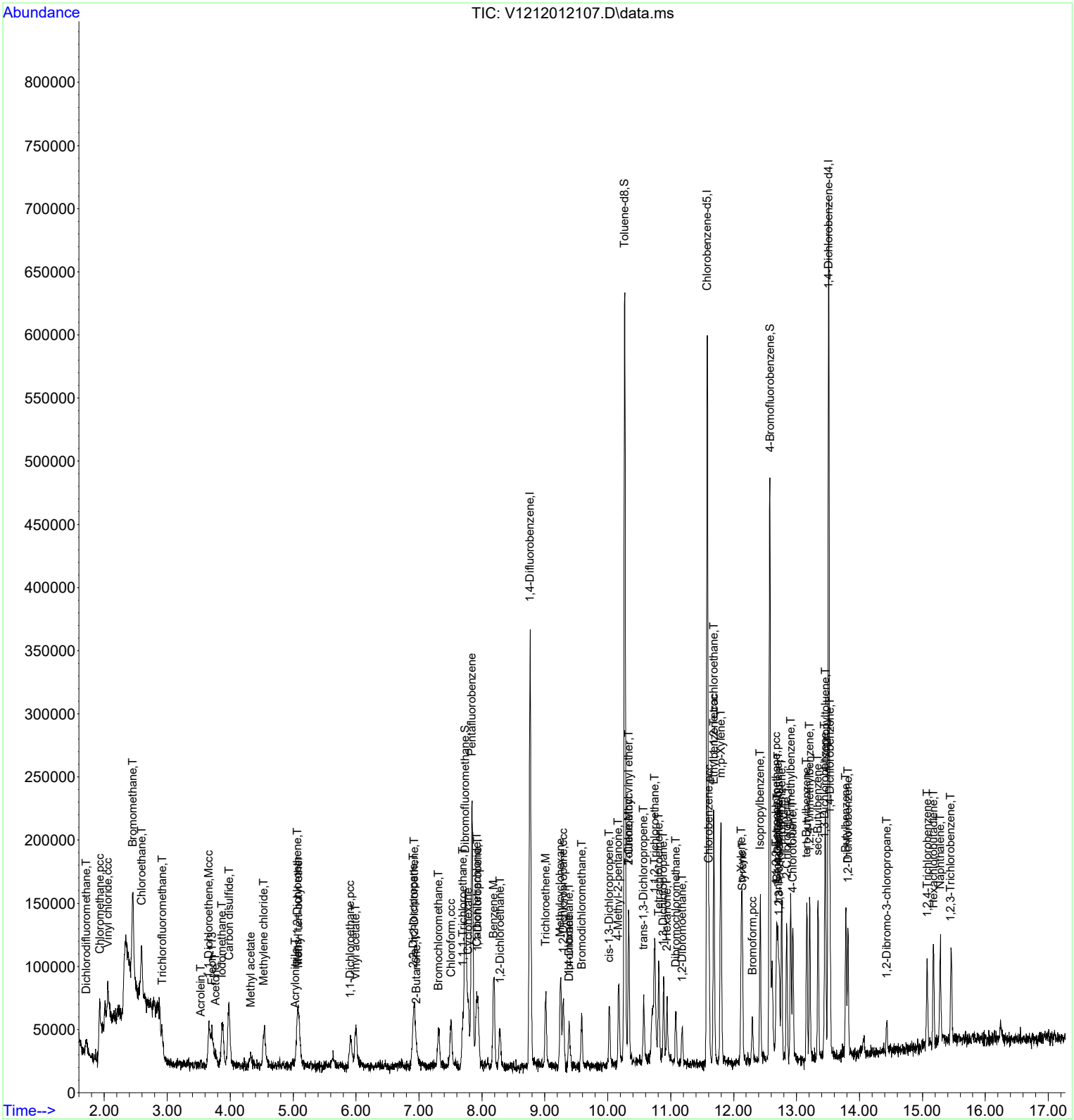
Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	...	10.812	166	18899	9.09	ug/kg	95
50) 1,3-Dichloropropane	...	10.886	76	28002	9.86	ug/kg	99
51) Dibromochloromethane	...	11.085	129	17417	9.12	ug/kg	95
52) 1,2-Dibromoethane	...	11.184	107	17076	9.60	ug/kg	94
53) Chlorobenzene	...	11.608	112	47465	9.05	ug/kg	97
54) 1,1,1,2-Tetrachloroethane	...	11.685	131	18425	8.96	ug/kg	98
55) Ethylbenzene	...	11.688	91	76005	8.48	ug/kg	98
56) m,p-Xylene	...	11.797	91	108323	16.58	ug/kg	93
57) o-Xylene	...	12.118	91	51711	9.98	ug/kg	94
58) Styrene	...	12.141	104	42219	10.39	ug/kg	94
59) Bromoform	...	12.298	173	11176	8.05	ug/kg#	98
62) Bromobenzene	...	12.693	156	19034	9.00	ug/kg	93
63) 1,1,2,2-Tetrachloroethane	...	12.680	83	24674	9.61	ug/kg	96
64) 1,2,3-Trichloropropane	...	12.722	75	18572	10.22	ug/kg#	1
65) Isopropylbenzene	...	12.423	105	69624	8.76	ug/kg	99
66) n-Propylbenzene	...	12.766	91	84562	8.79	ug/kg	99
67) trans-1,4-Dichloro-2-butene	...	12.709	124	2890	15.11	ug/kg	80
68) 2-Chlorotoluene	...	12.843	91	48706	9.33	ug/kg	91
69) 4-Chlorotoluene	...	12.936	91	54912	9.38	ug/kg	95
70) 1,3,5-Trimethylbenzene	...	12.908	105	54215	8.52	ug/kg	92
71) tert-Butylbenzene	...	13.161	119	48712	8.27	ug/kg	90
72) 1,2,4-Trimethylbenzene	...	13.209	105	55910	8.68	ug/kg	96
73) sec-Butylbenzene	...	13.341	105	72578	8.19	ug/kg	93
74) 1,3-Dichlorobenzene	...	13.447	146	36651	8.77	ug/kg	96
75) 4-Isopropyltoluene	...	13.460	119	59879	10.40	ug/kg	95
76) 1,4-Dichlorobenzene	...	13.530	146	37241	9.04	ug/kg	97
77) 1,2-Dichlorobenzene	...	13.816	146	34472	8.97	ug/kg	95
78) n-Butylbenzene	...	13.784	91	52228	7.97	ug/kg	98
79) 1,2-Dibromo-3-chloropropane	...	14.435	75	6192	9.09	ug/kg	83
80) 1,2,4-Trichlorobenzene	...	15.077	180	18588	8.25	ug/kg	100
81) Hexachlorobutadiene	...	15.176	225	10924	8.72	ug/kg	88
82) Naphthalene	...	15.285	128	56715	8.57	ug/kg	100
83) 1,2,3-Trichlorobenzene	...	15.452	180	17771	8.22	ug/kg	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012107.D
Acq On : 1 Dec 2021 10:22 am
Operator : RAC
Sample : ICAL 8260 010 S
Misc : BLANK
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 02 08:26:53 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012108.D
Acq On : 1 Dec 2021 10:47 am
Operator : RAC
Sample : ICAL 8260 020 S
Misc : BLANK
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 02 08:28:45 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	...	7.848	168	173152	50.00	ug/kg	0.00
28) 1,4-Difluorobenzene	...	8.769	114	301431	50.00	ug/kg	0.00
47) Chlorobenzene-d5	...	11.583	117	310857	50.00	ug/kg	0.00
61) 1,4-Dichlorobenzene-d4	...	13.508	152	170261	50.00	ug/kg	0.00
System Monitoring Compounds							
29) Dibromofluoromethane	...	7.736	113	100549	50.75	ug/kg	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 101.50%				
43) Toluene-d8	...	10.270	98	377912	49.87	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.74%				
60) 4-Bromofluorobenzene	...	12.574	95	125194	50.12	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 100.24%				
Target Compounds						Qvalue	
2) Dichlorodifluoromethane	...	1.719	85	33456	19.26	ug/kg	93
3) Chloromethane	...	1.924	50	93243	21.05	ug/kg	98
4) Vinyl chloride	...	2.059	62	101348	20.66	ug/kg	97
5) Bromomethane	...	2.457	94	136364	20.19	ug/kg	99
6) Chloroethane	...	2.595	64	96677	20.48	ug/kg	95
7) Trichlorofluoromethane	...	2.916	101	57704	17.15	ug/kg#	95
8) Acrolein	...	3.548	56	4401m	19.75	ug/kg	
9) 1,1-Dichloroethene	...	3.670	96	34679	19.90	ug/kg	79
10) Freon-113	...	3.708	101	35787	20.14	ug/kg	97
11) Acetone	...	3.776	58	11438	46.82	ug/kg	92
12) Iodomethane	...	3.882	142	119347	37.91	ug/kg	99
13) Carbon disulfide	...	3.978	76	202485	38.16	ug/kg	100
14) Methyl acetate	...	4.325	43	38148	20.04	ug/kg	95
15) Vinyl acetate	...	5.996	43	169613	38.02	ug/kg	98
16) Methylene chloride	...	4.536	84	40764	19.76	ug/kg	87
17) Acrylonitrile	...	5.027	53	16437	18.78	ug/kg#	85
18) Methyl tert-butyl ether	...	5.098	73	85484	19.15	ug/kg#	84
19) trans-1,2-Dichloroethene	...	5.075	96	39789	19.67	ug/kg	82
20) 1,1-Dichloroethane	...	5.913	63	69541	20.16	ug/kg#	55
21) 2,2-Dichloropropane	...	6.911	77	47009	19.65	ug/kg	90
22) cis-1,2-Dichloroethene	...	6.930	96	42694	20.12	ug/kg	84
23) 2-Butanone	...	6.956	72	13122	41.01	ug/kg	71
24) Bromochloromethane	...	7.302	128	22020	20.11	ug/kg	80
25) Chloroform	...	7.514	83	66178	20.48	ug/kg	92
26) Cyclohexane	...	7.787	56	62108	19.93	ug/kg	90
27) 1,1,1-Trichloroethane	...	7.700	97	56783	20.31	ug/kg	92
30) 1,1-Dichloropropene	...	7.938	110	20051	20.19	ug/kg	82
31) Carbon tetrachloride	...	7.909	119	50368	19.65	ug/kg	97
32) Benzene	...	8.191	78	159493	20.08	ug/kg	97
33) 1,2-Dichloroethane	...	8.281	62	44880	20.86	ug/kg#	87
34) Trichloroethene	...	9.013	130	43156	19.62	ug/kg	91
35) Methylcyclohexane	...	9.247	55	48108	19.63	ug/kg#	80
36) 1,2-Dichloropropane	...	9.295	63	42713	20.34	ug/kg#	94
37) Dibromomethane	...	9.385	93	27185	20.97	ug/kg	95
38) 1,4-Dioxane	...	9.398	88	6581	198.69	ug/kg#	62
39) Bromodichloromethane	...	9.587	83	48482	20.31	ug/kg	93
40) 2-Chloroethyl vinyl ether	...	10.338	63	13265	38.16	ug/kg#	100
41) cis-1,3-Dichloropropene	...	10.027	75	55382	19.12	ug/kg	94
42) 4-Methyl-2-pentanone	...	10.174	43	115296	39.49	ug/kg	96
44) Toluene	...	10.335	92	98595	19.73	ug/kg	98
45) trans-1,3-Dichloropropene	...	10.572	75	50227	18.88	ug/kg	92
46) 1,1,2-Trichloroethane	...	10.745	83	33130	20.52	ug/kg	96
48) 2-Hexanone	...	10.941	43	80508	40.52	ug/kg	93

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012108.D
Acq On : 1 Dec 2021 10:47 am
Operator : RAC
Sample : ICAL 8260 020 S
Misc : BLANK
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 02 08:28:45 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

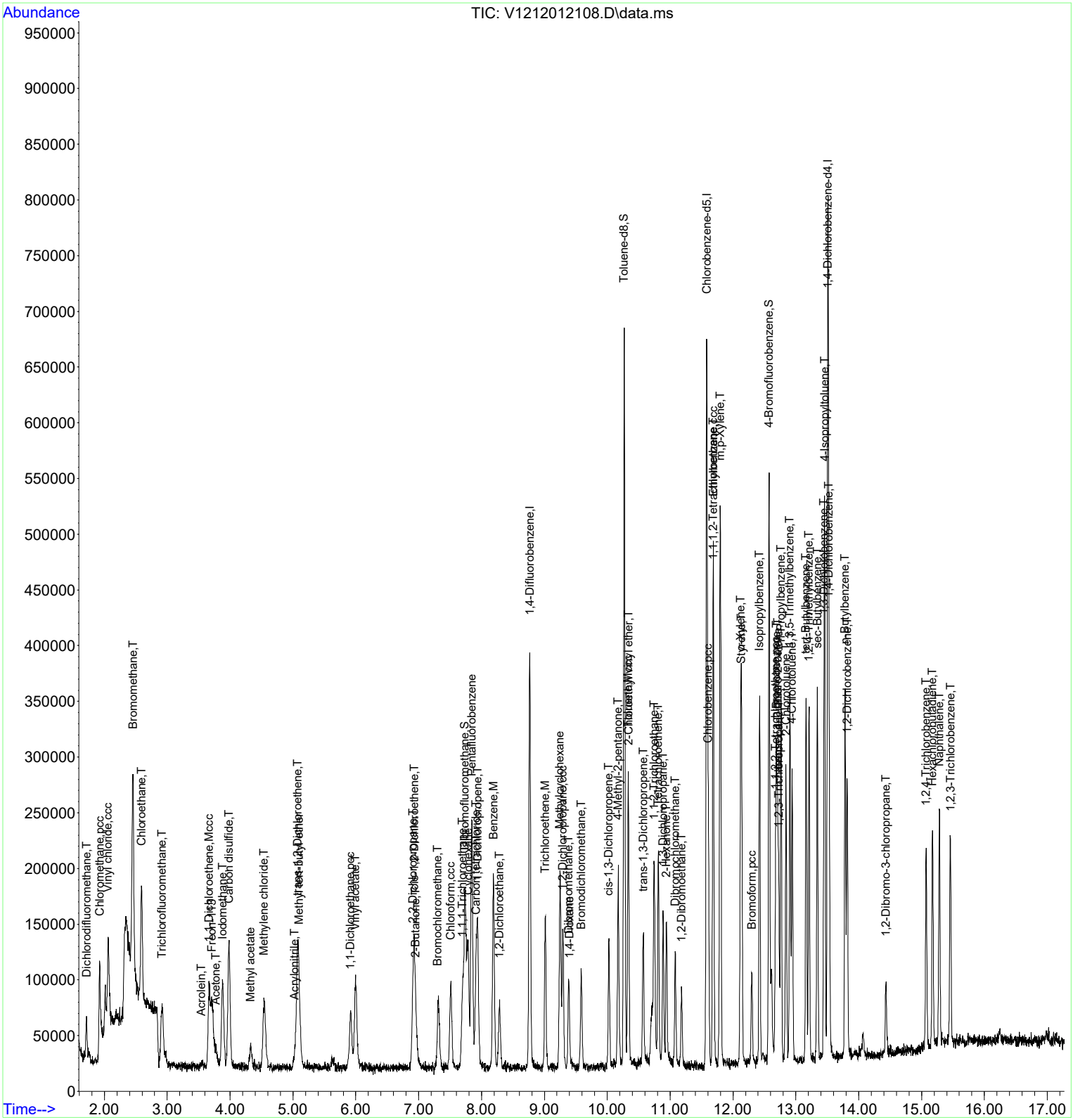
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	10.813	166	43161	19.30	ug/kg	94
50) 1,3-Dichloropropane	10.890	76	62913	20.61	ug/kg	95
51) Dibromochloromethane	11.082	129	43212	21.05	ug/kg	98
52) 1,2-Dibromoethane	11.182	107	37657	19.69	ug/kg	99
53) Chlorobenzene	11.609	112	115494	20.47	ug/kg	93
54) 1,1,1,2-Tetrachloroethane	11.682	131	41954	18.97	ug/kg	97
55) Ethylbenzene	11.689	91	176292	18.29	ug/kg	94
56) m,p-Xylene	11.798	91	270596	38.52	ug/kg	92
57) o-Xylene	12.122	91	134546	19.09	ug/kg	95
58) Styrene	12.138	104	108236	18.72	ug/kg	90
59) Bromoform	12.302	173	30014	20.11	ug/kg	97
62) Bromobenzene	12.693	156	46991	19.39	ug/kg	91
63) 1,1,2,2-Tetrachloroethane	12.677	83	59185	20.14	ug/kg	100
64) 1,2,3-Trichloropropane	12.728	75	43827m	21.07	ug/kg	
65) Isopropylbenzene	12.424	105	180350	19.82	ug/kg	100
66) n-Propylbenzene	12.764	91	217505	19.75	ug/kg	98
67) trans-1,4-Dichloro-2-butene	12.716	124	8237	37.60	ug/kg	64
68) 2-Chlorotoluene	12.847	91	120342	20.13	ug/kg	91
69) 4-Chlorotoluene	12.940	91	138994	20.74	ug/kg	100
70) 1,3,5-Trimethylbenzene	12.905	105	148499	20.39	ug/kg	92
71) tert-Butylbenzene	13.162	119	135135	20.03	ug/kg	91
72) 1,2,4-Trimethylbenzene	13.210	105	146011	19.80	ug/kg	92
73) sec-Butylbenzene	13.345	105	200180	19.72	ug/kg	97
74) 1,3-Dichlorobenzene	13.447	146	89618	18.71	ug/kg	95
75) 4-Isopropyltoluene	13.460	119	171075	19.73	ug/kg	96
76) 1,4-Dichlorobenzene	13.527	146	95571	20.26	ug/kg	96
77) 1,2-Dichlorobenzene	13.816	146	89466	20.32	ug/kg	93
78) n-Butylbenzene	13.784	91	147921	19.72	ug/kg	98
79) 1,2-Dibromo-3-chloropropane	14.436	75	12352	19.46	ug/kg	95
80) 1,2,4-Trichlorobenzene	15.071	180	50150	19.44	ug/kg	96
81) Hexachlorobutadiene	15.174	225	30145	21.01	ug/kg	99
82) Naphthalene	15.286	128	147166	19.42	ug/kg	100
83) 1,2,3-Trichlorobenzene	15.462	180	48517	19.59	ug/kg	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012108.D
Acq On : 1 Dec 2021 10:47 am
Operator : RAC
Sample : ICAL 8260 020 S
Misc : BLANK
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 02 08:28:45 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012109.D
Acq On : 1 Dec 2021 11:12 am
Operator : RAC
Sample : ICAL 8260 050 S
Misc : BLANK
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 02 08:31:35 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	...	7.844	168	178930	50.00	ug/kg	0.00
28) 1,4-Difluorobenzene	...	8.764	114	313102	50.00	ug/kg	0.00
47) Chlorobenzene-d5	...	11.582	117	331818	50.00	ug/kg	0.00
61) 1,4-Dichlorobenzene-d4	...	13.510	152	196349	50.00	ug/kg	0.00
System Monitoring Compounds							
29) Dibromofluoromethane	...	7.738	113	100730	48.95	ug/kg	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 97.90%				
43) Toluene-d8	...	10.269	98	397754	50.53	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 101.06%				
60) 4-Bromofluorobenzene	...	12.573	95	134945	50.62	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 101.24%				
Target Compounds						Qvalue	
2) Dichlorodifluoromethane	...	1.708	85	95157	53.01	ug/kg	99
3) Chloromethane	...	1.920	50	242161	52.91	ug/kg	100
4) Vinyl chloride	...	2.058	62	277858	54.82	ug/kg	97
5) Bromomethane	...	2.443	94	408307	58.50	ug/kg	99
6) Chloroethane	...	2.581	64	240662	49.32	ug/kg	96
7) Trichlorofluoromethane	...	2.905	101	200470	57.67	ug/kg#	100
8) Acrolein	...	3.544	56	10597	46.02	ug/kg	82
9) 1,1-Dichloroethene	...	3.662	96	92431	51.34	ug/kg	77
10) Freon-113	...	3.711	101	93467	50.89	ug/kg	99
11) Acetone	...	3.765	58	25976	102.90	ug/kg	89
12) Iodomethane	...	3.877	142	318631	97.94	ug/kg	98
13) Carbon disulfide	...	3.977	76	539812	98.44	ug/kg	100
14) Methyl acetate	...	4.323	43	95084	48.33	ug/kg	95
15) Vinyl acetate	...	5.992	43	480332	104.18	ug/kg	96
16) Methylene chloride	...	4.538	84	106860	50.14	ug/kg	87
17) Acrylonitrile	...	5.026	53	45767m	50.61	ug/kg	
18) Methyl tert-butyl ether	...	5.090	73	241905	52.43	ug/kg	98
19) trans-1,2-Dichloroethene	...	5.068	96	104484	49.98	ug/kg	83
20) 1,1-Dichloroethane	...	5.915	63	179943	50.49	ug/kg	98
21) 2,2-Dichloropropane	...	6.913	77	121945	49.32	ug/kg	91
22) cis-1,2-Dichloroethene	...	6.929	96	112977	51.51	ug/kg	84
23) 2-Butanone	...	6.955	72	32507	98.31	ug/kg	97
24) Bromochloromethane	...	7.317	128	57703	50.98	ug/kg	79
25) Chloroform	...	7.513	83	170298	51.01	ug/kg	98
26) Cyclohexane	...	7.783	56	168995	52.48	ug/kg	88
27) 1,1,1-Trichloroethane	...	7.702	97	151445	52.43	ug/kg	96
30) 1,1-Dichloropropene	...	7.937	110	52468	50.85	ug/kg	84
31) Carbon tetrachloride	...	7.917	119	137498	51.64	ug/kg	99
32) Benzene	...	8.190	78	416004	50.43	ug/kg	98
33) 1,2-Dichloroethane	...	8.283	62	118789	53.17	ug/kg#	90
34) Trichloroethene	...	9.012	130	112591	49.28	ug/kg	93
35) Methylcyclohexane	...	9.249	55	130903	51.41	ug/kg#	80
36) 1,2-Dichloropropane	...	9.291	63	113600	52.07	ug/kg	99
37) Dibromomethane	...	9.387	93	70551	52.38	ug/kg	97
38) 1,4-Dioxane	...	9.387	88	16600	482.50	ug/kg	78
39) Bromodichloromethane	...	9.586	83	130754	52.73	ug/kg	97
40) 2-Chloroethyl vinyl ether	...	10.330	63	35508	98.34	ug/kg#	99
41) cis-1,3-Dichloropropene	...	10.025	75	163436	54.33	ug/kg	95
42) 4-Methyl-2-pentanone	...	10.173	43	324808	100.32	ug/kg	97
44) Toluene	...	10.334	92	272587	52.51	ug/kg	96
45) trans-1,3-Dichloropropene	...	10.568	75	148303	53.66	ug/kg	97
46) 1,1,2-Trichloroethane	...	10.747	83	84958	50.66	ug/kg	98
48) 2-Hexanone	...	10.937	43	224914	106.06	ug/kg	97

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012109.D
Acq On : 1 Dec 2021 11:12 am
Operator : RAC
Sample : ICAL 8260 050 S
Misc : BLANK
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 02 08:31:35 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

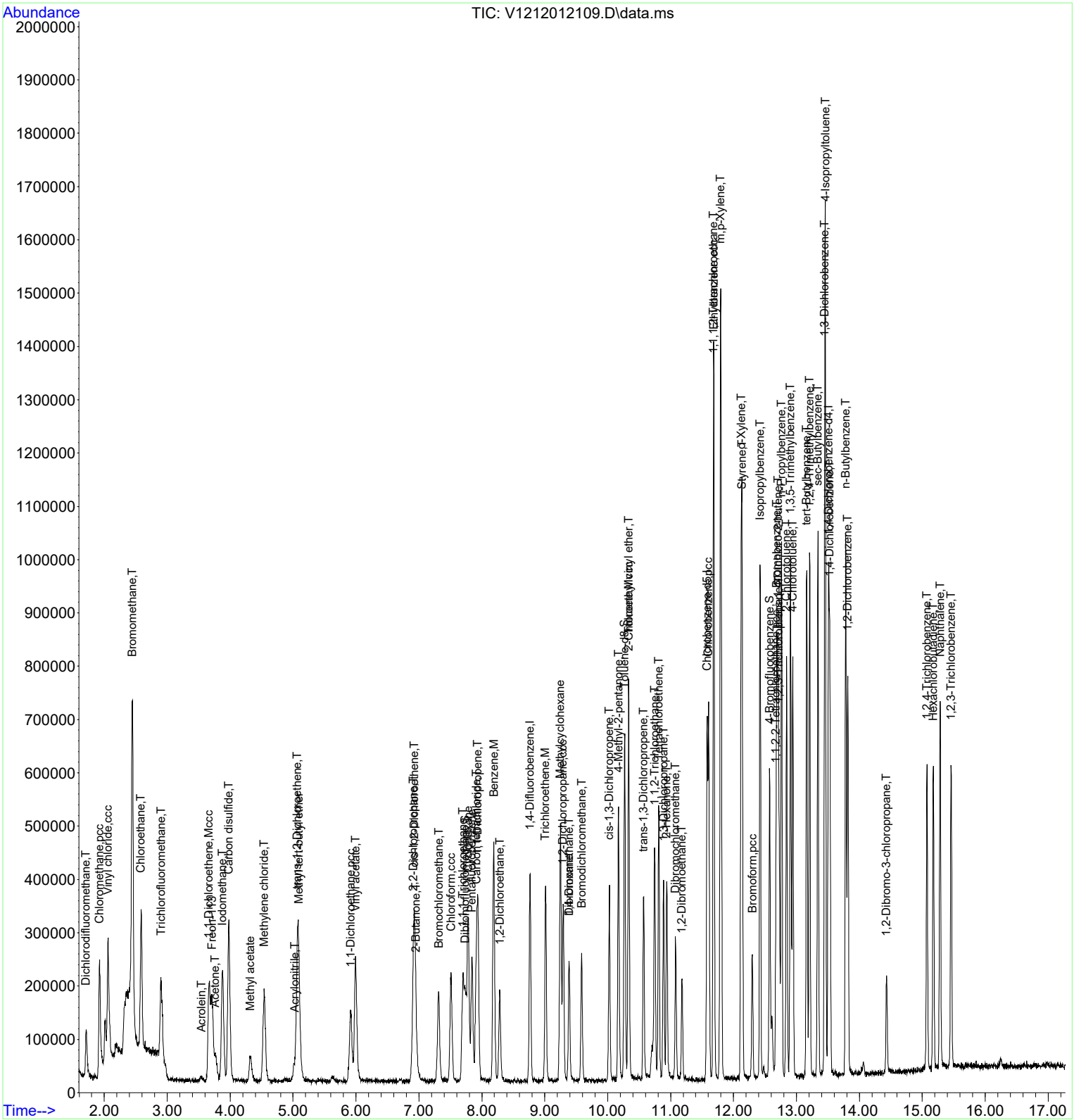
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	10.812	166	113906	47.73	ug/kg	98
50) 1,3-Dichloropropane	10.892	76	168476	51.70	ug/kg	98
51) Dibromochloromethane	11.081	129	114056	52.06	ug/kg	98
52) 1,2-Dibromoethane	11.181	107	109577	53.66	ug/kg	97
53) Chlorobenzene	11.604	112	312250	51.85	ug/kg	92
54) 1,1,1,2-Tetrachloroethane	11.681	131	119717	50.72	ug/kg	99
55) Ethylbenzene	11.688	91	539795	52.48	ug/kg	98
56) m,p-Xylene	11.797	91	799206	106.60	ug/kg	92
57) o-Xylene	12.124	91	408322	47.69	ug/kg	93
58) Styrene	12.137	104	346576	47.40	ug/kg	87
59) Bromoform	12.301	173	86528	54.31	ug/kg	97
62) Bromobenzene	12.692	156	140086	50.13	ug/kg	92
63) 1,1,2,2-Tetrachloroethane	12.676	83	167631	49.46	ug/kg	100
64) 1,2,3-Trichloropropane	12.718	75	118226m	49.28	ug/kg	
65) Isopropylbenzene	12.422	105	539336	51.39	ug/kg	98
66) n-Propylbenzene	12.763	91	660287	51.99	ug/kg	97
67) trans-1,4-Dichloro-2-butene	12.708	124	25510	100.97	ug/kg	65
68) 2-Chlorotoluene	12.843	91	351424	50.97	ug/kg	89
69) 4-Chlorotoluene	12.942	91	412364	53.35	ug/kg	97
70) 1,3,5-Trimethylbenzene	12.904	105	432975	51.54	ug/kg	91
71) tert-Butylbenzene	13.164	119	408664	52.53	ug/kg	90
72) 1,2,4-Trimethylbenzene	13.209	105	447776	52.65	ug/kg	93
73) sec-Butylbenzene	13.340	105	618055	52.79	ug/kg	97
74) 1,3-Dichlorobenzene	13.449	146	275506	49.89	ug/kg	95
75) 4-Isopropyltoluene	13.459	119	529752	45.97	ug/kg	95
76) 1,4-Dichlorobenzene	13.530	146	279033	51.29	ug/kg	95
77) 1,2-Dichlorobenzene	13.815	146	262716	51.74	ug/kg	94
78) n-Butylbenzene	13.783	91	461599	53.35	ug/kg	99
79) 1,2-Dibromo-3-chloropropane	14.431	75	31594	49.12	ug/kg	77
80) 1,2,4-Trichlorobenzene	15.073	180	151834	51.05	ug/kg	98
81) Hexachlorobutadiene	15.176	225	83439	50.42	ug/kg	98
82) Naphthalene	15.285	128	467176	53.45	ug/kg	100
83) 1,2,3-Trichlorobenzene	15.458	180	147408	51.60	ug/kg	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012109.D
Acq On : 1 Dec 2021 11:12 am
Operator : RAC
Sample : ICAL 8260 050 S
Misc : BLANK
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 02 08:31:35 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012110.D
Acq On : 1 Dec 2021 11:37 am
Operator : RAC
Sample : ICAL 8260 100 S
Misc : BLANK
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 02 08:32:49 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	...	7.843	168	212059	50.00	ug/kg	0.00
28) 1,4-Difluorobenzene	...	8.767	114	367405	50.00	ug/kg	0.00
47) Chlorobenzene-d5	...	11.581	117	391537	50.00	ug/kg	0.00
61) 1,4-Dichlorobenzene-d4	...	13.513	152	233382	50.00	ug/kg	0.00
System Monitoring Compounds							
29) Dibromofluoromethane	...	7.737	113	121890	50.47	ug/kg	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 100.94%				
43) Toluene-d8	...	10.269	98	472307	51.13	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 102.26%				
60) 4-Bromofluorobenzene	...	12.573	95	165066	52.47	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 104.94%				
Target Compounds						Qvalue	
2) Dichlorodifluoromethane	...	1.711	85	222460	104.57	ug/kg	98
3) Chloromethane	...	1.923	50	547937	101.02	ug/kg	99
4) Vinyl chloride	...	2.057	62	662937	110.36	ug/kg	99
5) Bromomethane	...	2.433	94	501712	60.66	ug/kg	98
6) Chloroethane	...	2.577	64	619097	107.06	ug/kg	99
7) Trichlorofluoromethane	...	2.908	101	376176	91.31	ug/kg#	99
8) Acrolein	...	3.540	56	27695	101.49	ug/kg	97
9) 1,1-Dichloroethene	...	3.658	96	214718	100.62	ug/kg	79
10) Freon-113	...	3.710	101	228702	105.07	ug/kg	96
11) Acetone	...	3.768	58	57794	193.17	ug/kg	99
12) Iodomethane	...	3.877	142	766544	198.81	ug/kg	97
13) Carbon disulfide	...	3.976	76	1279185	196.83	ug/kg	100
14) Methyl acetate	...	4.323	43	247260	106.06	ug/kg	97
15) Vinyl acetate	...	5.991	43	1228283	224.79	ug/kg	98
16) Methylene chloride	...	4.541	84	241649	95.66	ug/kg	87
17) Acrylonitrile	...	5.019	53	108783	101.50	ug/kg	94
18) Methyl tert-butyl ether	...	5.086	73	581093	106.27	ug/kg	98
19) trans-1,2-Dichloroethene	...	5.074	96	250005	100.91	ug/kg	82
20) 1,1-Dichloroethane	...	5.914	63	409851	97.03	ug/kg	97
21) 2,2-Dichloropropane	...	6.912	77	274954	93.83	ug/kg	90
22) cis-1,2-Dichloroethene	...	6.928	96	264039	101.58	ug/kg	84
23) 2-Butanone	...	6.951	72	82324	210.07	ug/kg	95
24) Bromochloromethane	...	7.310	128	131638	98.14	ug/kg	80
25) Chloroform	...	7.506	83	387539	97.94	ug/kg	95
26) Cyclohexane	...	7.785	56	402355	105.44	ug/kg	88
27) 1,1,1-Trichloroethane	...	7.702	97	346481	101.21	ug/kg	94
30) 1,1-Dichloropropene	...	7.936	110	127754	105.52	ug/kg	81
31) Carbon tetrachloride	...	7.913	119	326379	104.45	ug/kg	98
32) Benzene	...	8.186	78	989098	102.18	ug/kg	99
33) 1,2-Dichloroethane	...	8.286	62	264603	100.93	ug/kg#	90
34) Trichloroethene	...	9.014	130	263673	98.34	ug/kg	94
35) Methylcyclohexane	...	9.251	55	316253	105.85	ug/kg#	79
36) 1,2-Dichloropropane	...	9.296	63	257454	100.56	ug/kg	98
37) Dibromomethane	...	9.383	93	161335	102.09	ug/kg	96
38) 1,4-Dioxane	...	9.383	88	44607	1104.93	ug/kg#	59
39) Bromodichloromethane	...	9.585	83	301680	103.68	ug/kg	96
40) 2-Chloroethyl vinyl ether	...	10.333	63	89361	210.90	ug/kg#	94
41) cis-1,3-Dichloropropene	...	10.025	75	387523	109.79	ug/kg	94
42) 4-Methyl-2-pentanone	...	10.172	43	811005	208.99	ug/kg	97
44) Toluene	...	10.333	92	650336	106.75	ug/kg	97
45) trans-1,3-Dichloropropene	...	10.570	75	355026	109.48	ug/kg	96
46) 1,1,2-Trichloroethane	...	10.743	83	201255	102.27	ug/kg	97
48) 2-Hexanone	...	10.939	43	591010	236.18	ug/kg	96

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012110.D
Acq On : 1 Dec 2021 11:37 am
Operator : RAC
Sample : ICAL 8260 100 S
Misc : BLANK
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 02 08:32:49 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

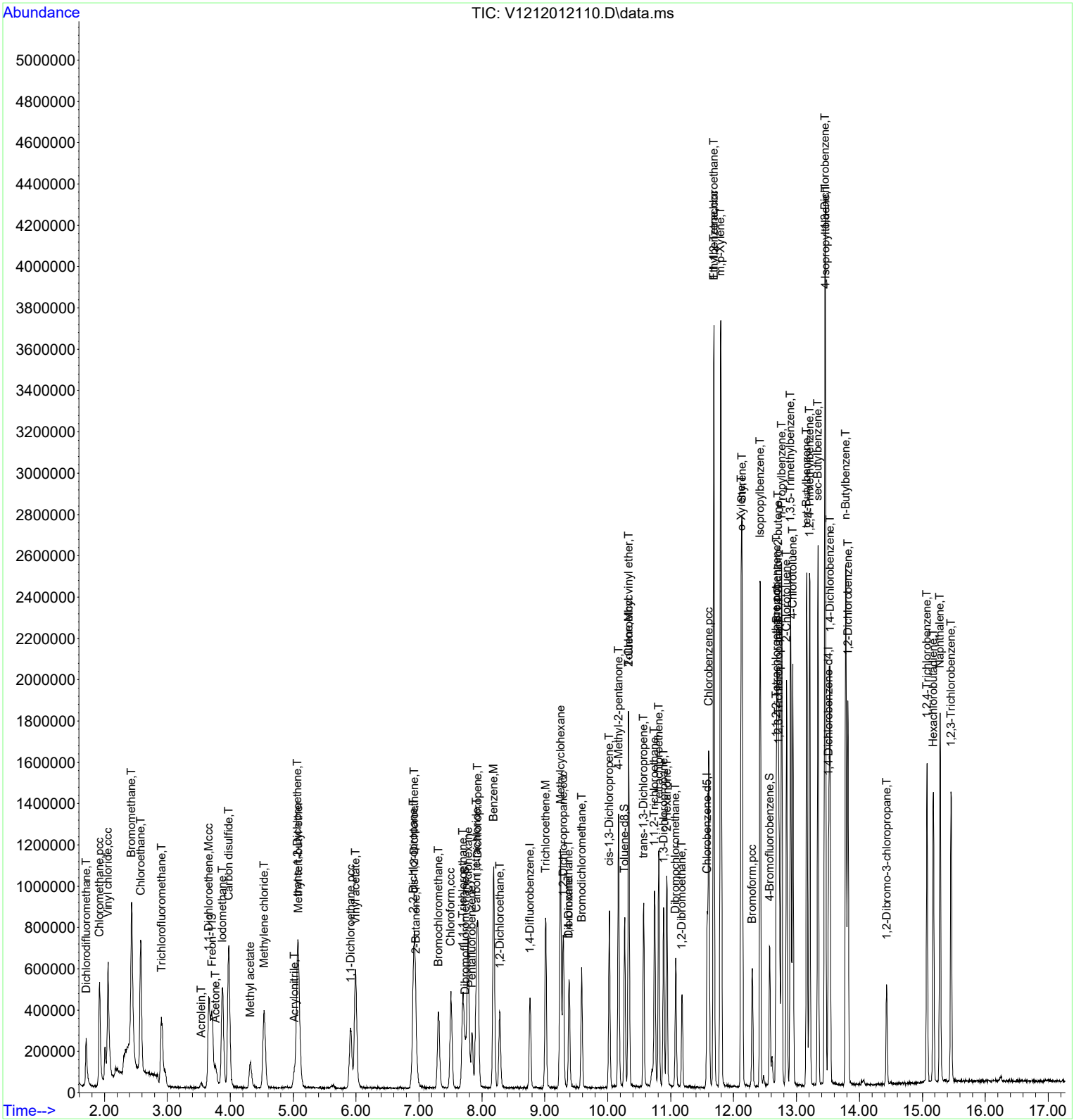
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	10.811	166	272788	96.87	ug/kg	98
50) 1,3-Dichloropropane	10.888	76	399018	103.78	ug/kg	99
51) Dibromochloromethane	11.080	129	270866	104.78	ug/kg	96
52) 1,2-Dibromoethane	11.180	107	254108	105.46	ug/kg	99
53) Chlorobenzene	11.607	112	753436	106.02	ug/kg	91
54) 1,1,1,2-Tetrachloroethane	11.687	131	295959	106.27	ug/kg	98
55) Ethylbenzene	11.687	91	1370354	112.90	ug/kg	97
56) m,p-Xylene	11.796	91	2046761	231.35	ug/kg	93
57) o-Xylene	12.120	91	1028018	97.72	ug/kg	95
58) Styrene	12.136	104	880291	96.99	ug/kg	87
59) Bromoform	12.297	173	214512	114.11	ug/kg	96
62) Bromobenzene	12.691	156	353508	106.43	ug/kg	91
63) 1,1,2,2-Tetrachloroethane	12.678	83	419415	104.11	ug/kg	98
64) 1,2,3-Trichloropropane	12.720	75	315647m	110.68	ug/kg	
65) Isopropylbenzene	12.425	105	1364849	109.41	ug/kg	98
66) n-Propylbenzene	12.765	91	1651232	109.38	ug/kg	98
67) trans-1,4-Dichloro-2-butene	12.707	124	71411	237.80	ug/kg#	54
68) 2-Chlorotoluene	12.842	91	879209	107.27	ug/kg	90
69) 4-Chlorotoluene	12.942	91	1028869	112.00	ug/kg	97
70) 1,3,5-Trimethylbenzene	12.906	105	1114513	111.62	ug/kg	93
71) tert-Butylbenzene	13.163	119	1021577	110.48	ug/kg	92
72) 1,2,4-Trimethylbenzene	13.211	105	1128097	111.60	ug/kg	94
73) sec-Butylbenzene	13.343	105	1555606	111.78	ug/kg	98
74) 1,3-Dichlorobenzene	13.452	146	710610	108.26	ug/kg	96
75) 4-Isopropyltoluene	13.458	119	1398511	97.03	ug/kg	95
76) 1,4-Dichlorobenzene	13.532	146	685006	105.94	ug/kg	95
77) 1,2-Dichlorobenzene	13.818	146	646121	107.06	ug/kg	95
78) n-Butylbenzene	13.782	91	1188593	115.57	ug/kg	98
79) 1,2-Dibromo-3-chloropropane	14.434	75	78438	107.92	ug/kg	74
80) 1,2,4-Trichlorobenzene	15.075	180	394359	111.55	ug/kg	99
81) Hexachlorobutadiene	15.175	225	207319	105.40	ug/kg	99
82) Naphthalene	15.281	128	1216792	117.13	ug/kg	100
83) 1,2,3-Trichlorobenzene	15.457	180	378682	111.52	ug/kg	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012110.D
Acq On : 1 Dec 2021 11:37 am
Operator : RAC
Sample : ICAL 8260 100 S
Misc : BLANK
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 02 08:32:49 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012111.D
Acq On : 1 Dec 2021 12:01 pm
Operator : RAC
Sample : ICAL 8260 150 S
Misc : BLANK
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 02 08:33:53 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	...	7.843	168	256106	50.00	ug/kg	0.00
28) 1,4-Difluorobenzene	...	8.764	114	457619	50.00	ug/kg	0.00
47) Chlorobenzene-d5	...	11.581	117	486202	50.00	ug/kg	0.00
61) 1,4-Dichlorobenzene-d4	...	13.510	152	288834	50.00	ug/kg	0.00
System Monitoring Compounds							
29) Dibromofluoromethane	...	7.734	113	151044	50.22	ug/kg	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 100.44%				
43) Toluene-d8	...	10.269	98	571830	49.70	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 99.40%				
60) 4-Bromofluorobenzene	...	12.576	95	204541	52.36	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 104.72%				
Target Compounds					Qvalue		
2) Dichlorodifluoromethane	...	1.711	85	379702	147.79	ug/kg	95
3) Chloromethane	...	1.923	50	941637	143.75	ug/kg	100
4) Vinyl chloride	...	2.057	62	1187788	163.73	ug/kg	99
5) Bromomethane	...	2.433	94	761999	76.28	ug/kg	99
6) Chloroethane	...	2.571	64	1136419	162.72	ug/kg	97
7) Trichlorofluoromethane	...	2.901	101	860726	172.99	ug/kg#	100
8) Acrolein	...	3.537	56	48474	147.09	ug/kg	97
9) 1,1-Dichloroethene	...	3.662	96	395822	153.59	ug/kg	79
10) Freon-113	...	3.707	101	409431	155.75	ug/kg	98
11) Acetone	...	3.768	58	102618	284.00	ug/kg	89
12) Iodomethane	...	3.873	142	1449247	311.23	ug/kg	97
13) Carbon disulfide	...	3.976	76	2401632	305.99	ug/kg	100
14) Methyl acetate	...	4.323	43	422449	150.03	ug/kg	96
15) Vinyl acetate	...	5.988	43	2253208	341.44	ug/kg	96
16) Methylene chloride	...	4.538	84	437491	143.40	ug/kg	88
17) Acrylonitrile	...	5.016	53	190710	147.34	ug/kg	99
18) Methyl tert-butyl ether	...	5.090	73	1096202	166.00	ug/kg	98
19) trans-1,2-Dichloroethene	...	5.070	96	461497	154.24	ug/kg	83
20) 1,1-Dichloroethane	...	5.914	63	766275	150.22	ug/kg	98
21) 2,2-Dichloropropane	...	6.909	77	517562	146.25	ug/kg	90
22) cis-1,2-Dichloroethene	...	6.928	96	493668	157.25	ug/kg	84
23) 2-Butanone	...	6.957	72	143747	303.72	ug/kg	91
24) Bromochloromethane	...	7.310	128	238429	147.18	ug/kg	81
25) Chloroform	...	7.509	83	713805	149.38	ug/kg	96
26) Cyclohexane	...	7.779	56	766858	166.39	ug/kg	91
27) 1,1,1-Trichloroethane	...	7.695	97	633978	153.34	ug/kg	94
30) 1,1-Dichloropropene	...	7.936	110	232640	154.27	ug/kg	84
31) Carbon tetrachloride	...	7.913	119	593021	152.38	ug/kg	98
32) Benzene	...	8.186	78	1825535	151.41	ug/kg	99
33) 1,2-Dichloroethane	...	8.282	62	464680	142.30	ug/kg#	90
34) Trichloroethene	...	9.014	130	490517	146.89	ug/kg	93
35) Methylcyclohexane	...	9.251	55	603010	162.04	ug/kg#	81
36) 1,2-Dichloropropane	...	9.293	63	486465	152.55	ug/kg	98
37) Dibromomethane	...	9.386	93	290116	147.38	ug/kg	98
38) 1,4-Dioxane	...	9.389	88	72339	1438.61	ug/kg	73
39) Bromodichloromethane	...	9.588	83	547225	150.99	ug/kg	96
40) 2-Chloroethyl vinyl ether	...	10.333	63	161116	305.29	ug/kg#	99
41) cis-1,3-Dichloropropene	...	10.025	75	724038	164.69	ug/kg	95
42) 4-Methyl-2-pentanone	...	10.172	43	1439324	296.10	ug/kg	97
44) Toluene	...	10.333	92	1193242	157.26	ug/kg	97
45) trans-1,3-Dichloropropene	...	10.570	75	657437	162.77	ug/kg	96
46) 1,1,2-Trichloroethane	...	10.747	83	359108	146.51	ug/kg	97
48) 2-Hexanone	...	10.939	43	1050180	337.96	ug/kg	97

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012111.D
Acq On : 1 Dec 2021 12:01 pm
Operator : RAC
Sample : ICAL 8260 150 S
Misc : BLANK
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 02 08:33:53 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

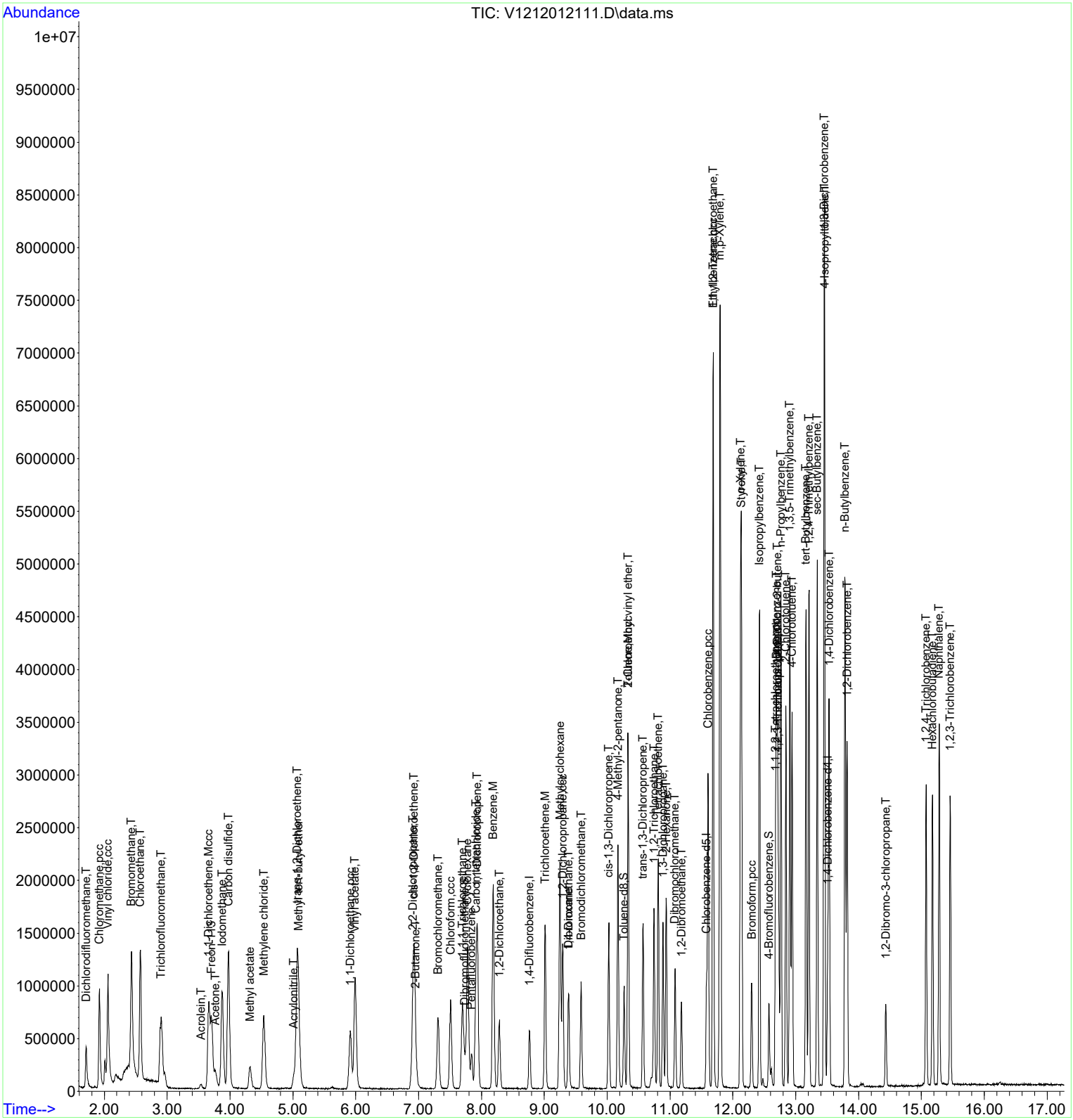
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	10.811	166	520126	148.74	ug/kg	98
50) 1,3-Dichloropropane	10.888	76	714485	149.65	ug/kg	99
51) Dibromochloromethane	11.080	129	493036	153.59	ug/kg	99
52) 1,2-Dibromoethane	11.183	107	452365	151.19	ug/kg	99
53) Chlorobenzene	11.607	112	1366834	154.89	ug/kg	92
54) 1,1,1,2-Tetrachloroethane	11.687	131	568539	164.40	ug/kg	100
55) Ethylbenzene	11.687	91	2597452	172.34	ug/kg	98
56) m,p-Xylene	11.796	91	3904102	355.37	ug/kg	93
57) o-Xylene	12.123	91	1939773	146.64	ug/kg	94
58) Styrene	12.136	104	1646337	143.87	ug/kg	88
59) Bromoform	12.300	173	378340	162.07	ug/kg	99
62) Bromobenzene	12.694	156	652400	158.71	ug/kg	91
63) 1,1,2,2-Tetrachloroethane	12.678	83	737518	147.92	ug/kg	97
64) 1,2,3-Trichloropropane	12.717	75	542143m	153.61	ug/kg	
65) Isopropylbenzene	12.425	105	2539444	164.49	ug/kg	98
66) n-Propylbenzene	12.765	91	2990639	160.07	ug/kg	98
67) trans-1,4-Dichloro-2-butene	12.711	124	124878	336.01	ug/kg#	59
68) 2-Chlorotoluene	12.842	91	1607887	158.52	ug/kg	91
69) 4-Chlorotoluene	12.942	91	1870925	164.56	ug/kg	97
70) 1,3,5-Trimethylbenzene	12.906	105	2038092	164.93	ug/kg	92
71) tert-Butylbenzene	13.163	119	1889859	165.14	ug/kg	92
72) 1,2,4-Trimethylbenzene	13.211	105	2061051	164.75	ug/kg	94
73) sec-Butylbenzene	13.343	105	2885845	167.55	ug/kg	98
74) 1,3-Dichlorobenzene	13.452	146	1353376	166.60	ug/kg	96
75) 4-Isopropyltoluene	13.458	119	2641744	145.92	ug/kg	95
76) 1,4-Dichlorobenzene	13.532	146	1254264	156.73	ug/kg	94
77) 1,2-Dichlorobenzene	13.818	146	1171603	156.86	ug/kg	96
78) n-Butylbenzene	13.782	91	2185363	171.70	ug/kg	99
79) 1,2-Dibromo-3-chloropropane	14.434	75	129131	145.17	ug/kg#	69
80) 1,2,4-Trichlorobenzene	15.075	180	740672	169.28	ug/kg	98
81) Hexachlorobutadiene	15.175	225	397264	163.20	ug/kg	99
82) Naphthalene	15.281	128	2262954	176.01	ug/kg	100
83) 1,2,3-Trichlorobenzene	15.457	180	700619	166.72	ug/kg	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012111.D
Acq On : 1 Dec 2021 12:01 pm
Operator : RAC
Sample : ICAL 8260 150 S
Misc : BLANK
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 02 08:33:53 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012112.D
Acq On : 1 Dec 2021 12:26 pm
Operator : RAC
Sample : ICAL 8260 200 S
Misc : BLANK
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 02 08:35:03 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	...	7.844	168	300009	50.00	ug/kg	0.00
28) 1,4-Difluorobenzene	...	8.762	114	532088	50.00	ug/kg	0.00
47) Chlorobenzene-d5	...	11.579	117	554599	50.00	ug/kg	0.00
61) 1,4-Dichlorobenzene-d4	...	13.511	152	327935	50.00	ug/kg	0.00
System Monitoring Compounds							
29) Dibromofluoromethane	...	7.732	113	176462	50.46	ug/kg	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 100.92%				
43) Toluene-d8	...	10.267	98	669345	50.04	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.08%				
60) 4-Bromofluorobenzene	...	12.574	95	231602	51.97	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 103.94%				
Target Compounds					Qvalue		
2) Dichlorodifluoromethane	...	1.709	85	591684	196.60	ug/kg	99
3) Chloromethane	...	1.921	50	1463544	190.73	ug/kg	100
4) Vinyl chloride	...	2.056	62	1855395	218.33	ug/kg	99
5) Bromomethane	...	2.425	94	935775	79.97	ug/kg	98
6) Chloroethane	...	2.569	64	1727434	211.15	ug/kg	96
7) Trichlorofluoromethane	...	2.903	101	1126345	193.24	ug/kg#	99
8) Acrolein	...	3.538	56	88429	229.06	ug/kg	98
9) 1,1-Dichloroethene	...	3.657	96	659491	218.46	ug/kg	77
10) Freon-113	...	3.702	101	670600	217.77	ug/kg	97
11) Acetone	...	3.763	58	150335	355.18	ug/kg	96
12) Iodomethane	...	3.875	142	2443784	448.01	ug/kg	96
13) Carbon disulfide	...	3.971	76	3947915	429.39	ug/kg	100
14) Methyl acetate	...	4.318	43	659904	200.07	ug/kg	95
15) Vinyl acetate	...	5.990	43	3609588	466.94	ug/kg	97
16) Methylene chloride	...	4.536	84	723479	202.44	ug/kg	87
17) Acrylonitrile	...	5.011	53	313151	206.53	ug/kg	97
18) Methyl tert-butyl ether	...	5.082	73	1835352	237.26	ug/kg	97
19) trans-1,2-Dichloroethene	...	5.069	96	766074	218.57	ug/kg	83
20) 1,1-Dichloroethane	...	5.913	63	1250354	209.24	ug/kg	98
21) 2,2-Dichloropropane	...	6.907	77	879272	212.10	ug/kg	91
22) cis-1,2-Dichloroethene	...	6.930	96	817086	222.19	ug/kg	83
23) 2-Butanone	...	6.946	72	220787	398.23	ug/kg	93
24) Bromochloromethane	...	7.308	128	382264	201.44	ug/kg	81
25) Chloroform	...	7.507	83	1156617	206.62	ug/kg	95
26) Cyclohexane	...	7.780	56	1225303	226.96	ug/kg	91
27) 1,1,1-Trichloroethane	...	7.700	97	1009339	208.40	ug/kg	94
30) 1,1-Dichloropropene	...	7.941	110	382475	218.13	ug/kg	83
31) Carbon tetrachloride	...	7.912	119	959312	212.00	ug/kg	97
32) Benzene	...	8.188	78	2941851	209.84	ug/kg	99
33) 1,2-Dichloroethane	...	8.281	62	746173	196.52	ug/kg#	89
34) Trichloroethene	...	9.012	130	785725	202.36	ug/kg	94
35) Methylcyclohexane	...	9.247	55	965851	223.22	ug/kg	83
36) 1,2-Dichloropropane	...	9.291	63	778250	209.90	ug/kg	98
37) Dibromomethane	...	9.388	93	462770	202.19	ug/kg	98
38) 1,4-Dioxane	...	9.385	88	98476	1684.31	ug/kg	93
39) Bromodichloromethane	...	9.587	83	859894	204.06	ug/kg	97
40) 2-Chloroethyl vinyl ether	...	10.334	63	254206	414.27	ug/kg#	99
41) cis-1,3-Dichloropropene	...	10.026	75	1159991	226.93	ug/kg	94
42) 4-Methyl-2-pentanone	...	10.174	43	2260390	398.54	ug/kg	98
44) Toluene	...	10.331	92	1916826	217.26	ug/kg	98
45) trans-1,3-Dichloropropene	...	10.572	75	1042936	222.08	ug/kg	95
46) 1,1,2-Trichloroethane	...	10.745	83	559859	196.45	ug/kg	97
48) 2-Hexanone	...	10.938	43	1625115	458.49	ug/kg	98

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012112.D
Acq On : 1 Dec 2021 12:26 pm
Operator : RAC
Sample : ICAL 8260 200 S
Misc : BLANK
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 02 08:35:03 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration

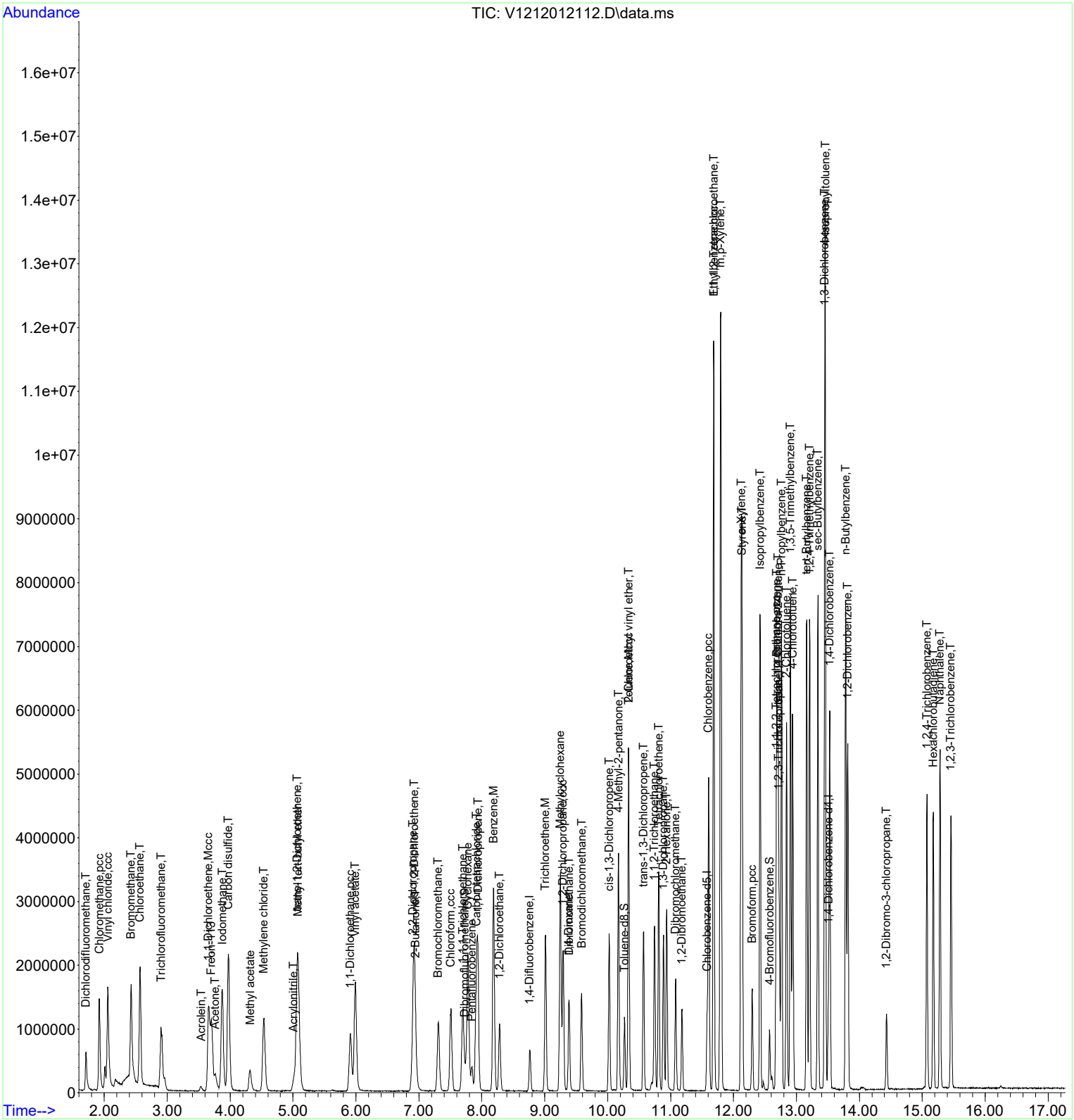
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	10.812	166	795947	199.54	ug/kg	99
50) 1,3-Dichloropropane	10.886	76	1133795	208.18	ug/kg	98
51) Dibromochloromethane	11.082	129	766410	209.31	ug/kg	97
52) 1,2-Dibromoethane	11.181	107	710586	208.20	ug/kg	98
53) Chlorobenzene	11.605	112	2194075	217.97	ug/kg	92
54) 1,1,1,2-Tetrachloroethane	11.685	131	946651	239.98	ug/kg	99
55) Ethylbenzene	11.685	91	4197865	244.17	ug/kg	97
56) m,p-Xylene	11.798	91	6216510	496.07	ug/kg	93
57) o-Xylene	12.122	91	3103891	204.27	ug/kg	93
58) Styrene	12.138	104	2725120	206.80	ug/kg	87
59) Bromoform	12.298	173	589280	221.30	ug/kg	99
62) Bromobenzene	12.693	156	1067826	228.80	ug/kg	90
63) 1,1,2,2-Tetrachloroethane	12.680	83	1182753	208.93	ug/kg	100
64) 1,2,3-Trichloropropane	12.719	75	783958m	195.64	ug/kg	
65) Isopropylbenzene	12.423	105	3986561	227.43	ug/kg	97
66) n-Propylbenzene	12.763	91	4677003	220.48	ug/kg	97
67) trans-1,4-Dichloro-2-butene	12.709	124	201156	476.72	ug/kg#	60
68) 2-Chlorotoluene	12.844	91	2523451	219.12	ug/kg	90
69) 4-Chlorotoluene	12.940	91	2616620	202.71	ug/kg	88
70) 1,3,5-Trimethylbenzene	12.905	105	3226171	229.94	ug/kg	92
71) tert-Butylbenzene	13.165	119	2965087	228.20	ug/kg	93
72) 1,2,4-Trimethylbenzene	13.209	105	3263481	229.77	ug/kg	93
73) sec-Butylbenzene	13.341	105	4485681	229.39	ug/kg	96
74) 1,3-Dichlorobenzene	13.450	146	2203116	238.87	ug/kg	96
75) 4-Isopropyltoluene	13.460	119	4260022	205.50	ug/kg	96
76) 1,4-Dichlorobenzene	13.530	146	1959051	215.61	ug/kg	96
77) 1,2-Dichlorobenzene	13.816	146	1857845	219.08	ug/kg	96
78) n-Butylbenzene	13.784	91	3426964	237.15	ug/kg	99
79) 1,2-Dibromo-3-chloropropane	14.432	75	196933	196.67	ug/kg#	71
80) 1,2,4-Trichlorobenzene	15.074	180	1190431	239.64	ug/kg	98
81) Hexachlorobutadiene	15.176	225	638479	231.02	ug/kg	98
82) Naphthalene	15.282	128	3554026	243.47	ug/kg	100
83) 1,2,3-Trichlorobenzene	15.456	180	1144418	239.86	ug/kg	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012112.D
Acq On : 1 Dec 2021 12:26 pm
Operator : RAC
Sample : ICAL 8260 200 S
Misc : BLANK
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 02 08:35:03 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:16:32 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012116.D
Acq On : 1 Dec 2021 2:05 pm
Operator : RAC
Sample : ICV 8260 050 S
Misc : BLANK
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 02 08:42:58 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:37:36 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	...	7.847	168	227674	50.00	ug/kg	0.00
28) 1,4-Difluorobenzene	...	8.768	114	400291	50.00	ug/kg	0.00
47) Chlorobenzene-d5	...	11.582	117	412642	50.00	ug/kg	0.00
61) 1,4-Dichlorobenzene-d4	...	13.511	152	235904	50.00	ug/kg	0.00
System Monitoring Compounds							
29) Dibromofluoromethane	...	7.741	113	127116	48.31	ug/kg	0.00
Spiked Amount 50.000	Range 84 - 122		Recovery = 96.62%				
43) Toluene-d8	...	10.267	98	505371	50.25	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.50%				
60) 4-Bromofluorobenzene	...	12.574	95	171737	51.80	ug/kg	0.00
Spiked Amount 50.000	Range 68 - 127		Recovery = 103.60%				
Target Compounds						Qvalue	
2) Dichlorodifluoromethane	...	1.712	85	107036	46.87	ug/kg	97
3) Chloromethane	...	1.927	50	297002	51.00	ug/kg	99
4) Vinyl chloride	...	2.059	62	347227	53.84	ug/kg	99
5) Bromomethane	...	2.447	94	452407	49.74	ug/kg	99
6) Chloroethane	...	2.591	64	318017	51.22	ug/kg	99
7) Trichlorofluoromethane	...	2.915	101	203427	45.99	ug/kg#	100
8) Acrolein	...	3.535	56	15690	53.04	ug/kg	98
9) 1,1-Dichloroethene	...	3.663	96	125636	54.84	ug/kg	81
10) Freon-113	...	3.711	101	125121	53.54	ug/kg	99
11) Acetone	...	3.775	58	33843	105.36	ug/kg	98
12) Iodomethane	...	3.884	142	463316	111.69	ug/kg	98
13) Carbon disulfide	...	3.984	76	849995	121.82	ug/kg	100
14) Methyl acetate	...	4.324	43	134045	53.96	ug/kg	96
15) Vinyl acetate	...	5.996	43	613113	104.51	ug/kg	98
16) Methylene chloride	...	4.545	84	143696	52.98	ug/kg	84
17) Acrylonitrile	...	5.024	53	55593	48.52	ug/kg	97
18) Methyl tert-butyl ether	...	5.097	73	312154	53.17	ug/kg	97
19) trans-1,2-Dichloroethene	...	5.078	96	141204	53.09	ug/kg	82
20) 1,1-Dichloroethane	...	5.922	63	236046	52.05	ug/kg	98
21) 2,2-Dichloropropane	...	6.917	77	159358	50.65	ug/kg	90
22) cis-1,2-Dichloroethene	...	6.933	96	147928	53.01	ug/kg	84
23) 2-Butanone	...	6.952	72	45324	107.72	ug/kg	85
24) Bromochloromethane	...	7.315	128	75881	52.69	ug/kg	80
25) Chloroform	...	7.514	83	228169	53.71	ug/kg	94
26) Cyclohexane	...	7.783	56	243495	59.43	ug/kg	89
27) 1,1,1-Trichloroethane	...	7.700	97	193399	52.62	ug/kg	95
30) 1,1-Dichloropropene	...	7.937	110	71611	54.29	ug/kg	81
31) Carbon tetrachloride	...	7.915	119	182357	53.57	ug/kg	99
32) Benzene	...	8.191	78	561777	53.27	ug/kg	98
33) 1,2-Dichloroethane	...	8.287	62	152298	53.32	ug/kg#	89
34) Trichloroethene	...	9.012	130	150068	51.38	ug/kg	94
35) Methylcyclohexane	...	9.250	55	169566	52.09	ug/kg#	78
36) 1,2-Dichloropropane	...	9.294	63	151986	54.49	ug/kg	98
37) Dibromomethane	...	9.388	93	93623	54.37	ug/kg	96
38) 1,4-Dioxane	...	9.391	88	21984	498.18	ug/kg	76
39) Bromodichloromethane	...	9.586	83	169104	53.34	ug/kg	95
40) 2-Chloroethyl vinyl ether	...	10.331	63	47889	103.74	ug/kg#	97
41) cis-1,3-Dichloropropene	...	10.023	75	225359	58.60	ug/kg	94
42) 4-Methyl-2-pentanone	...	10.171	43	424376	102.43	ug/kg	97
44) Toluene	...	10.334	92	354073	54.07	ug/kg	98
45) trans-1,3-Dichloropropene	...	10.572	75	190326	54.13	ug/kg	96
46) 1,1,2-Trichloroethane	...	10.748	83	113538	52.96	ug/kg	98
48) 2-Hexanone	...	10.937	43	275850	103.28	ug/kg	97

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012116.D
Acq On : 1 Dec 2021 2:05 pm
Operator : RAC
Sample : ICV 8260 050 S
Misc : BLANK
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 02 08:42:58 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:37:36 2021
Response via : Initial Calibration

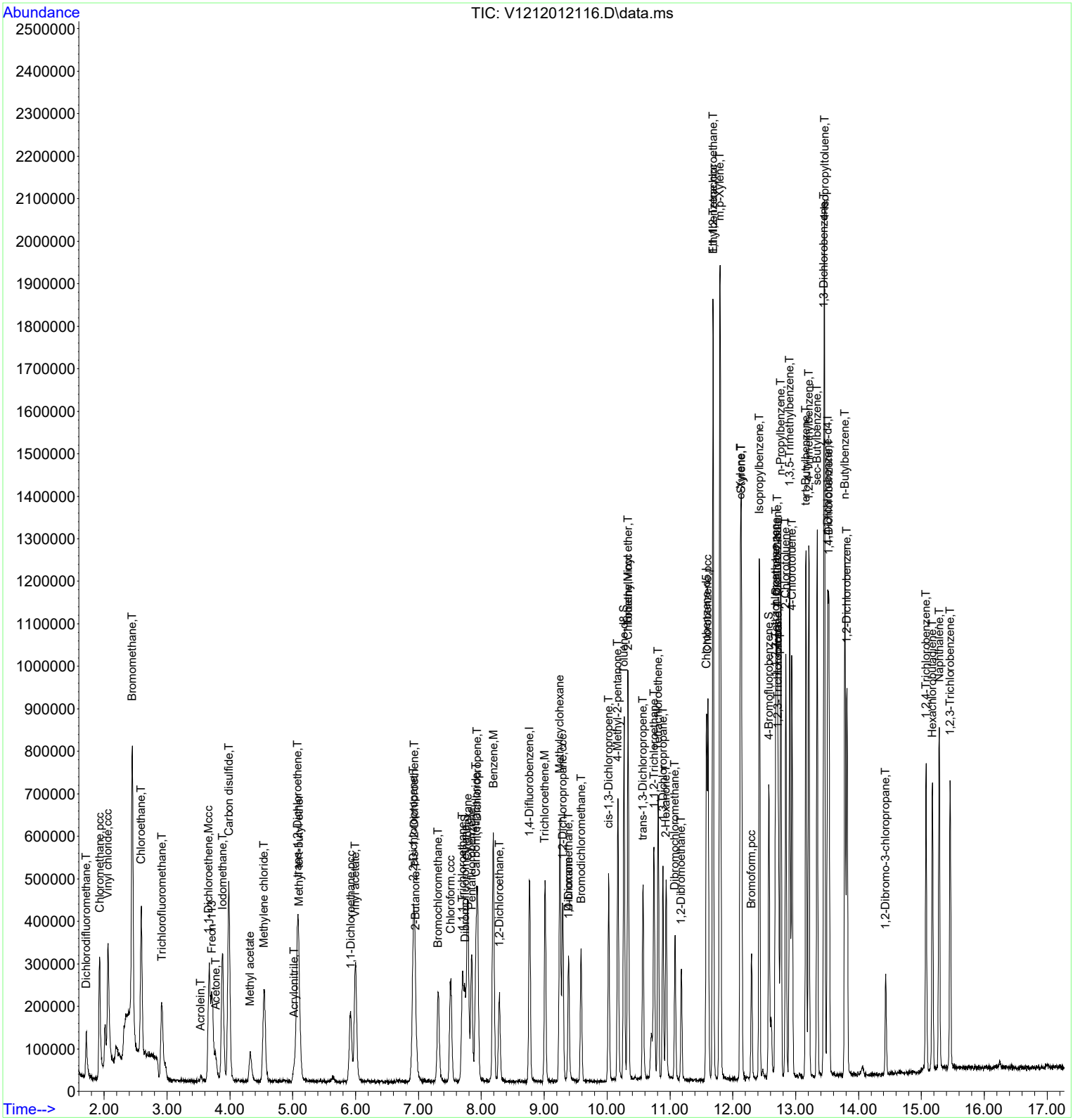
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	10.812	166	154604	52.09	ug/kg	100
50) 1,3-Dichloropropane	10.889	76	233797	57.70	ug/kg	98
51) Dibromochloromethane	11.082	129	156268	57.36	ug/kg	99
52) 1,2-Dibromoethane	11.181	107	145391	57.26	ug/kg	98
53) Chlorobenzene	11.605	112	405154	54.10	ug/kg	92
54) 1,1,1,2-Tetrachloroethane	11.685	131	157829	53.77	ug/kg	98
55) Ethylbenzene	11.685	91	691594	54.06	ug/kg	99
56) m,p-Xylene	11.797	91	1081121	115.96	ug/kg	94
57) o-Xylene	12.121	91	523028	49.02	ug/kg	93
58) Styrene	12.137	104	440930	48.39	ug/kg	87
59) Bromoform	12.298	173	106714	53.86	ug/kg	98
62) Bromobenzene	12.693	156	179401	53.44	ug/kg	95
63) 1,1,2,2-Tetrachloroethane	12.680	83	227692	55.91	ug/kg	99
64) 1,2,3-Trichloropropane	12.722	75	129265m	44.13	ug/kg	
65) Isopropylbenzene	12.423	105	692800	54.94	ug/kg	98
66) n-Propylbenzene	12.763	91	842808	55.23	ug/kg	98
67) trans-1,4-Dichloro-2-butene	12.712	124	35765	117.83	ug/kg#	58
68) 2-Chlorotoluene	12.843	91	449830	54.30	ug/kg	91
69) 4-Chlorotoluene	12.940	91	525677	56.61	ug/kg	98
70) 1,3,5-Trimethylbenzene	12.904	105	563171	55.80	ug/kg	91
71) tert-Butylbenzene	13.164	119	521236	56.19	ug/kg	91
72) 1,2,4-Trimethylbenzene	13.209	105	571587	55.94	ug/kg	95
73) sec-Butylbenzene	13.341	105	753571	53.57	ug/kg	97
74) 1,3-Dichlorobenzene	13.450	146	349460	52.67	ug/kg	95
75) 4-Isopropyltoluene	13.460	119	664783	47.83	ug/kg	96
76) 1,4-Dichlorobenzene	13.530	146	347821	53.22	ug/kg	95
77) 1,2-Dichlorobenzene	13.816	146	333092	54.60	ug/kg	94
78) n-Butylbenzene	13.784	91	579372	55.73	ug/kg	98
79) 1,2-Dibromo-3-chloropropane	14.432	75	38162	49.41	ug/kg	75
80) 1,2,4-Trichlorobenzene	15.074	180	187778	52.55	ug/kg	97
81) Hexachlorobutadiene	15.176	225	101246	50.92	ug/kg	97
82) Naphthalene	15.285	128	556844	53.03	ug/kg	100
83) 1,2,3-Trichlorobenzene	15.459	180	181092	52.76	ug/kg	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-12\New\Raw Data\211201\
Data File : V1212012116.D
Acq On : 1 Dec 2021 2:05 pm
Operator : RAC
Sample : ICV 8260 050 S
Misc : BLANK
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 02 08:42:58 2021
Quant Method : C:\MS-12\New\Calculation Methods\MS-12_VS120121.M
Quant Title : 8260/624 Purgeable organics calibration.
QLast Update : Thu Dec 02 08:37:36 2021
Response via : Initial Calibration



Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **12/14/2021 9:00:00**
Prep End Date: **12/15/2021 8:00:00**

Prep Batch **327330** Prep Code: **5035** Technician: **Regina Carthon**

Prep Factor Units: **mL / g**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2112A10-019A	Soil		7.45	0	0	5	0.671	12/14/2021	12/15/2021
2112A10-020A	Soil		8.41	0	0	5	0.595	12/14/2021	12/15/2021
2112A10-021A	Soil		7.54	0	0	5	0.663	12/14/2021	12/15/2021
2112A10-022A	Soil		8.47	0	0	5	0.590	12/14/2021	12/15/2021
2112A10-023A	Soil		7.34	0	0	5	0.681	12/14/2021	12/15/2021
2112A10-024A	Soil		8.29	0	0	5	0.603	12/14/2021	12/15/2021
2112A10-025A	Soil		7.83	0	0	5	0.639	12/14/2021	12/15/2021
2112C29-012A	Soil		6.83	0	0	5	0.732	12/14/2021	12/15/2021
2112C29-013A	Soil		8.54	0	0	5	0.585	12/14/2021	12/15/2021
2112C29-014A	Soil		7.29	0	0	5	0.686	12/14/2021	12/15/2021
2112C29-015A	Soil		7.43	0	0	5	0.673	12/14/2021	12/15/2021
2112C29-016A	Soil		7.12	0	0	5	0.702	12/14/2021	12/15/2021
2112G62-004A	Soil		3.54	0	0	5	1.412	12/14/2021	12/15/2021
2112G62-005A	Soil		4.1	0	0	5	1.220	12/14/2021	12/15/2021
2112G62-006A	Soil		6.35	0	0	5	0.787	12/14/2021	12/15/2021
2112G62-006AMS	Soil		3.55	0	0	5	1.408	12/14/2021	12/15/2021
2112G62-006AMSD	Soil		4.33	0	0	5	1.155	12/14/2021	12/15/2021
2112G62-007A	Soil		4.42	0	0	5	1.131	12/14/2021	12/15/2021
2112G62-008A	Soil		2.36	0	0	5	2.119	12/14/2021	12/15/2021
2112G62-009A	Soil		4.99	0	0	5	1.002	12/14/2021	12/15/2021
2112H10-011A	Soil		7.25	0	0	5	0.690	12/14/2021	12/15/2021
2112H10-012A	Soil		7.62	0	0	5	0.656	12/14/2021	12/15/2021

Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **12/14/2021 9:00:00**
Prep End Date: **12/15/2021 8:00:00**

Prep Batch **327330** Prep Code: **5035** Technician: **Regina Carthon**

Prep Factor Units: **mL / g**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
LCS-327330			5	0	0	5	1.000	12/14/2021	12/15/2021
MB-327330			5	0	0	5	1.000	12/14/2021	12/15/2021

End of Data Package

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

January 07, 2022

Jessica Vickers
Tetra Tech EM Inc.

1955 Evergreen Blvd.
Duluth GA 30096

RE: Lakes Parkway Lithium Battery Fire

Dear Jessica Vickers: Order No: 2112T38

Analytical Environmental Services, Inc. received 1 samples on 12/22/2021 6:09:00 PM
for the analyses presented in following report.

"No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.
AES's accreditations are as follows:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/21-06/30/22.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/22 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/23.
These results relate only to the items tested as received. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi

Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3080 Presidential Drive, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 2112T38

Date: 12/22/21 Page 1 of 1

COMPANY:	ADDRESS:
Tetra Tech	1955 Evergreen Blvd. STE 300
PHONE: 470-439-4770	FAX:
SAMPLED BY: Emily Jones	SIGNATURE: Emily Jones

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	VOC/SVOC	RCRA 8 Metals	PH	Flash Point	Reactive CN/Sulfide	% solids + TSS	% water	Chloride	Fluoride	REMARKS	No # of Containers
							NA	I	H	I	I	I	I	I	I	I		
1	LP-LB-WW-01	12/22/21	15:05		X	WW	+Cl	X	X	X	X	X	X	X	X	X		4
2	LP-LB-WW-02	12/22/21	15:05			WW	←	EJ										
3	LP-LB-WW-03	12/22/21	15:05			WW	←	EJ										
4	LP-LB-WW-04	12/22/21	15:05			WW	←	EJ										
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Emily Jones	12/22/21 1804	1:	12.22.21 18:09
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: Lakes Parkway Lithium Battery Fire
PROJECT #: 103X9032.0082.035
SITE ADDRESS: 1655 Lakes Parkway, Lawrenceville, GA
SEND REPORT TO: jessica.vickers@tetratech.com
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers

Turnaround Time Request
- ⊘ Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 7-Jan-22

Client: Tetra Tech EM Inc.
Project: Lakes Parkway Lithium Battery Fire
Lab ID: 2112T38

Case Narrative

Sample Receiving Nonconformance:

Samples for pH analysis by Method SW9045D were received and analyzed outside Method specified holding time of "immediate or 15 minutes."

Anions Analysis by Method 9056A:

Due to sample matrix, sample 2112T38-001E required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc **Date:** 7-Jan-22

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LP-LB-WW-01
Project Name:	Lakes Parkway Lithium Battery Fire	**Collection Date:**	12/22/2021 3:05:00 PM
Lab ID:	2112T38-001	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Total Mercury - Waste SW7471B					**(SW7471B)**				
Mercury	BRL		0.0214	0.0998	mg/Kg	328192	1	12/28/2021 16:51	GR
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3580A)**				
1,1´-Biphenyl	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
2,4,5-Trichlorophenol	BRL		500	500	mg/Kg	328152	1	01/05/2022 22:50	YH
2,4,6-Trichlorophenol	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
2,4-Dichlorophenol	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
2,4-Dimethylphenol	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
2,4-Dinitrophenol	BRL		500	500	mg/Kg	328152	1	01/05/2022 22:50	YH
2,4-Dinitrotoluene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
2,6-Dinitrotoluene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
2-Chloronaphthalene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
2-Chlorophenol	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
2-Methylnaphthalene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
2-Methylphenol	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
2-Nitroaniline	BRL		500	500	mg/Kg	328152	1	01/05/2022 22:50	YH
2-Nitrophenol	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
3,3´-Dichlorobenzidine	BRL		670	670	mg/Kg	328152	1	01/05/2022 22:50	YH
3-Nitroaniline	BRL		500	500	mg/Kg	328152	1	01/05/2022 22:50	YH
4,6-Dinitro-2-methylphenol	BRL		500	500	mg/Kg	328152	1	01/05/2022 22:50	YH
4-Bromophenyl phenyl ether	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
4-Chloro-3-methylphenol	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
4-Chloroaniline	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
4-Chlorophenyl phenyl ether	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
4-Methylphenol	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
4-Nitroaniline	BRL		500	500	mg/Kg	328152	1	01/05/2022 22:50	YH
4-Nitrophenol	BRL		500	500	mg/Kg	328152	1	01/05/2022 22:50	YH
Acenaphthene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Acenaphthylene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Acetophenone	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Anthracene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Atrazine	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Benz(a)anthracene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Benzaldehyde	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Benzo(a)pyrene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Benzo(b)fluoranthene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Benzo(g,h,i)perylene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Benzo(k)fluoranthene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Bis(2-chloroethoxy)methane	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Bis(2-chloroethyl)ether	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Bis(2-chloroisopropyl)ether	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Bis(2-ethylhexyl)phthalate	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Butyl benzyl phthalate	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-22

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LP-LB-WW-01
Project Name:	Lakes Parkway Lithium Battery Fire	**Collection Date:**	12/22/2021 3:05:00 PM
Lab ID:	2112T38-001	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3580A)**				
Caprolactam	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Carbazole	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Chrysene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Di-n-butyl phthalate	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Di-n-octyl phthalate	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Dibenz(a,h)anthracene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Dibenzofuran	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Diethyl phthalate	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Dimethyl phthalate	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Fluoranthene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Fluorene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Hexachlorobenzene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Hexachlorobutadiene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Hexachlorocyclopentadiene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Hexachloroethane	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Indeno(1,2,3-cd)pyrene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Isophorone	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
N-Nitrosodi-n-propylamine	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
N-Nitrosodiphenylamine	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Naphthalene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Nitrobenzene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Pentachlorophenol	BRL		500	500	mg/Kg	328152	1	01/05/2022 22:50	YH
Phenanthrene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Phenol	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Pyrene	BRL		100	100	mg/Kg	328152	1	01/05/2022 22:50	YH
Surr: 2,4,6-Tribromophenol	112		0	52.8-148	%REC	328152	1	01/05/2022 22:50	YH
Surr: 2-Fluorobiphenyl	114		0	64.7-137	%REC	328152	1	01/05/2022 22:50	YH
Surr: 2-Fluorophenol	104		0	57.4-132	%REC	328152	1	01/05/2022 22:50	YH
Surr: 4-Terphenyl-d14	112		0	62-138	%REC	328152	1	01/05/2022 22:50	YH
Surr: Nitrobenzene-d5	122		0	56.1-138	%REC	328152	1	01/05/2022 22:50	YH
Surr: Phenol-d5	104		0	49.6-133	%REC	328152	1	01/05/2022 22:50	YH
TCL VOLATILE ORGANICS SW8260D					**(SW5035)**				
1,1,1-Trichloroethane	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
1,1,2,2-Tetrachloroethane	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
1,1,2-Trichloroethane	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
1,1-Dichloroethane	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
1,1-Dichloroethene	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
1,2,4-Trichlorobenzene	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
1,2-Dibromo-3-chloropropane	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
1,2-Dibromoethane	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
1,2-Dichlorobenzene	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
1,2-Dichloroethane	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-22

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LP-LB-WW-01
Project Name:	Lakes Parkway Lithium Battery Fire	**Collection Date:**	12/22/2021 3:05:00 PM
Lab ID:	2112T38-001	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260D				**(SW5035)**					
1,2-Dichloropropane	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
1,3-Dichlorobenzene	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
1,4-Dichlorobenzene	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
2-Butanone	BRL		25000	25000	ug/Kg	328272	50	12/29/2021 12:15	CM
2-Hexanone	BRL		5000	5000	ug/Kg	328272	50	12/29/2021 12:15	CM
4-Methyl-2-pentanone	BRL		5000	5000	ug/Kg	328272	50	12/29/2021 12:15	CM
Acetone	BRL		25000	25000	ug/Kg	328272	50	12/29/2021 12:15	CM
Benzene	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
Bromodichloromethane	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
Bromoform	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
Bromomethane	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
Carbon disulfide	BRL		5000	5000	ug/Kg	328272	50	12/29/2021 12:15	CM
Carbon tetrachloride	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
Chlorobenzene	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
Chloroethane	BRL		5000	5000	ug/Kg	328272	50	12/29/2021 12:15	CM
Chloroform	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
Chloromethane	BRL		5000	5000	ug/Kg	328272	50	12/29/2021 12:15	CM
cis-1,2-Dichloroethene	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
cis-1,3-Dichloropropene	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
Cyclohexane	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
Dibromochloromethane	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
Dichlorodifluoromethane	BRL		5000	5000	ug/Kg	328272	50	12/29/2021 12:15	CM
Ethylbenzene	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
Freon-113	BRL		5000	5000	ug/Kg	328272	50	12/29/2021 12:15	CM
Isopropylbenzene	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
m,p-Xylene	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
Methyl acetate	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
Methyl tert-butyl ether	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
Methylcyclohexane	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
Methylene chloride	BRL		2500	10000	ug/Kg	328272	50	12/29/2021 12:15	CM
o-Xylene	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
Styrene	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
Tetrachloroethene	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
Toluene	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
trans-1,2-Dichloroethene	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
trans-1,3-Dichloropropene	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
Trichloroethene	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
Trichlorofluoromethane	BRL		2500	2500	ug/Kg	328272	50	12/29/2021 12:15	CM
Vinyl chloride	BRL		5000	5000	ug/Kg	328272	50	12/29/2021 12:15	CM
Surr: 4-Bromofluorobenzene	106		0	65.1-125	%REC	328272	50	12/29/2021 12:15	CM
Surr: Dibromofluoromethane	110		0	77.7-123	%REC	328272	50	12/29/2021 12:15	CM
Surr: Toluene-d8	106		0	83.2-120	%REC	328272	50	12/29/2021 12:15	CM

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
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- B Analyte detected in the associated method blank
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- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-22

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LP-LB-WW-01
Project Name:	Lakes Parkway Lithium Battery Fire	**Collection Date:**	12/22/2021 3:05:00 PM
Lab ID:	2112T38-001	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Sulfide, Reactive SW846-7.3					**(SW7.3.4.2)**				
Sulfide, Reactive	BRL		100	100	mg/Kg	328196	1	12/28/2021 10:50	SK
Laboratory Hydrogen Ion (pH) SW9045D					**(SW9045D)**				
pH	8.06	H	0.01	0.01	pH Units	328172	1	12/28/2021 10:20	GY
ION SCAN SW9056A									
Chloride	2700		450	1000	mg/L	R474295	1000	01/04/2022 17:10	KV
Fluoride	BRL		130	200	mg/L	R474295	1000	01/04/2022 17:10	KV
Ignitability / Flashpoint SW1010B									
Ignitability	180	>	0	0	°F	R473865	1	12/29/2021 00:00	NM
Fixed Residues (SM2540G)									
% Fixed Solids	93.2		0.00100	0.00100	wt%	R473863	1	12/27/2021 17:55	SK
% Total Solids	0.430		0.00100	0.00100	wt%	R473863	1	12/27/2021 17:55	SK
Cyanide, Reactive SW846-7.3					**(SW7.3.3.2)**				
Cyanide, Reactive	BRL		0.980	0.980	mg/Kg	328402	1	01/03/2021 17:16	AT
METALS, TOTAL SW6010D					**(SW3050B)**				
Arsenic	BRL		0.38	4.6	mg/Kg	328144	1	12/29/2021 12:25	KB
Barium	BRL		0.15	4.6	mg/Kg	328144	1	12/29/2021 12:25	KB
Cadmium	BRL		0.045	2.3	mg/Kg	328144	1	12/29/2021 12:25	KB
Chromium	BRL		0.72	2.3	mg/Kg	328144	1	12/29/2021 12:25	KB
Lead	BRL		0.17	4.6	mg/Kg	328144	1	12/29/2021 12:25	KB
Selenium	BRL		0.69	4.6	mg/Kg	328144	1	12/29/2021 12:25	KB
Silver	BRL		0.012	2.3	mg/Kg	328144	1	12/29/2021 12:25	KB

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **TETRA TECH. INC** AES Work Order Number: **2112T38**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ■ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	◉	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	◉	○		
5.	Custody seals intact on shipping container?	○	○	◉		
6.	Temperature blanks present?	◉	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	◉	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	◉	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	◉	○	○		
10.	Sampler name and/or signature on COC?	◉	○	○		
11.	Were all samples received within holding time?	○	◉	○		
12.	TAT marked on the COC?	◉	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 1.0 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). CH 12/23/21

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	◉	○	○		
17.	Custody seals present on sample containers?	○	◉	○		
18.	Custody seals intact on sample containers?	○	○	◉		
19.	Do sample container labels match the COC?	◉	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	◉	○	○		
21.	Were all of the samples listed on the COC received?	◉	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	◉	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	◉	○	○		
24.	Were samples received in appropriate containers?	◉	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	○	○	◉		
26.	Were trip blanks submitted?	○	◉	○	listed on COC ☐ not listed on COC ■	

27. Comments: _____

This section only applies to samples where pH can be checked at Sample Receipt.

I certify that I have completed sections 16-27 (dated initials). CH 12/23/21

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	○	○	◉		
29.	Containers meet preservation guidelines?	○	○	◉		
30.	Was pH adjusted at Sample Receipt?	○	○	◉		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.
This also excludes metals by EPA 200.7, 200.8 and 245.1 which will be verified between 16 and 24 hours after preservation.

I certify that I have completed sections 28-30 (dated initials). CH 12/23/21

Locked

Analytical Environmental Services, Inc

Date: 7-Jan-22

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Lab Order: 2112T38

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2112T38-001A	LP-LB-WW-01	12/22/2021 3:05:00PM	Waste Water	TCL VOLATILE ORGANICS		12/29/2021 7:38:00AM	12/29/2021
2112T38-001B	LP-LB-WW-01	12/22/2021 3:05:00PM	Waste Water	TOTAL METALS BY ICP		12/28/2021 12:43:00PM	12/29/2021
2112T38-001B	LP-LB-WW-01	12/22/2021 3:05:00PM	Waste Water	TCL-SEMIVOLATILE ORGANICS		12/28/2021 6:34:30AM	01/05/2022
2112T38-001C	LP-LB-WW-01	12/22/2021 3:05:00PM	Waste Water	IGNITABILITY			12/29/2021
2112T38-001C	LP-LB-WW-01	12/22/2021 3:05:00PM	Waste Water	Total Mercury - Waste		12/28/2021 2:18:00PM	12/28/2021
2112T38-001D	LP-LB-WW-01	12/22/2021 3:05:00PM	Waste Water	Cyanide, Reactive		1/3/2021 12:52:00PM	01/03/2021
2112T38-001D	LP-LB-WW-01	12/22/2021 3:05:00PM	Waste Water	Sulfide, Reactive		12/27/2021 5:15:00PM	12/28/2021
2112T38-001D	LP-LB-WW-01	12/22/2021 3:05:00PM	Waste Water	Laboratory Hydrogen Ion (pH)		12/28/2021 9:18:00AM	12/28/2021
2112T38-001D	LP-LB-WW-01	12/22/2021 3:05:00PM	Waste Water	Fixed Residues (SM2540G)			12/27/2021
2112T38-001E	LP-LB-WW-01	12/22/2021 3:05:00PM	Waste Water	ION SCAN			01/04/2022

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2112T38

ANALYTICAL QC SUMMARY REPORT

BatchID: 328144

Sample ID: **MB-328144** Client ID: Units: **mg/Kg** Prep Date: **12/28/2021** Run No: **473925**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010D** BatchID: **328144** Analysis Date: **12/29/2021** Seq No: **10923327**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	5.0									
Barium	BRL	5.0									
Cadmium	BRL	2.5									
Chromium	BRL	2.5									
Lead	BRL	5.0									
Selenium	BRL	5.0									
Silver	BRL	2.5									

Sample ID: **LCS-328144** Client ID: Units: **mg/Kg** Prep Date: **12/28/2021** Run No: **473925**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010D** BatchID: **328144** Analysis Date: **12/29/2021** Seq No: **10923328**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	47.67	5.0	50.00		95.3	80	120				
Barium	52.54	5.0	50.00		105	80	120				
Cadmium	50.71	2.5	50.00		101	80	120				
Chromium	50.57	2.5	50.00		101	80	120				
Lead	49.67	5.0	50.00		99.3	80	120				
Selenium	46.39	5.0	50.00		92.8	80	120				
Silver	4.993	2.5	5.000		99.9	80	120				

Sample ID: **2112T38-001BMS** Client ID: **LP-LB-WW-01** Units: **mg/Kg** Prep Date: **12/28/2021** Run No: **473925**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010D** BatchID: **328144** Analysis Date: **12/29/2021** Seq No: **10923330**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	42.87	4.5	45.47		94.3	75	125				
Barium	47.07	4.5	45.47		104	75	125				
Cadmium	46.02	2.3	45.47		101	75	125				
Chromium	45.30	2.3	45.47		99.6	75	125				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2112T38

ANALYTICAL QC SUMMARY REPORT

BatchID: 328144

Sample ID: **2112T38-001BMS**	Client ID: **LP-LB-WW-01**			Units: **mg/Kg**		Prep Date: **12/28/2021**		Run No: **473925**	
SampleType: **MS**	TestCode: **METALS, TOTAL** **SW6010D**			BatchID: **328144**		Analysis Date: **12/29/2021**		Seq No: **10923330**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	44.47	4.5	45.47		97.8	75	125				
Selenium	42.00	4.5	45.47		92.4	75	125				
Silver	4.478	2.3	4.547		98.5	75	125				

Sample ID: **2112T38-001BMSD**	Client ID: **LP-LB-WW-01**			Units: **mg/Kg**		Prep Date: **12/28/2021**		Run No: **473925**	
SampleType: **MSD**	TestCode: **METALS, TOTAL** **SW6010D**			BatchID: **328144**		Analysis Date: **12/29/2021**		Seq No: **10923331**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	42.95	4.5	45.50		94.4	75	125	42.87	0.193	20	
Barium	47.13	4.5	45.50		104	75	125	47.07	0.137	20	
Cadmium	46.14	2.3	45.50		101	75	125	46.02	0.258	20	
Chromium	45.44	2.3	45.50		99.9	75	125	45.30	0.297	20	
Lead	44.50	4.5	45.50		97.8	75	125	44.47	0.074	20	
Selenium	42.04	4.5	45.50		92.4	75	125	42.00	0.111	20	
Silver	4.499	2.3	4.550		98.9	75	125	4.478	0.449	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2112T38

ANALYTICAL QC SUMMARY REPORT

BatchID: 328152

Sample ID: **MB-328152**	Client ID:		Units: **mg/Kg**	Prep Date: **12/28/2021**	Run No: **474131**
SampleType: **MBLK**	TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E**		BatchID: **328152**	Analysis Date: **01/03/2022**	Seq No: **10932632**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1´-Biphenyl	BRL	100									
2,4,5-Trichlorophenol	BRL	500									
2,4,6-Trichlorophenol	BRL	100									
2,4-Dichlorophenol	BRL	100									
2,4-Dimethylphenol	BRL	100									
2,4-Dinitrophenol	BRL	500									
2,4-Dinitrotoluene	BRL	100									
2,6-Dinitrotoluene	BRL	100									
2-Chloronaphthalene	BRL	100									
2-Chlorophenol	BRL	100									
2-Methylnaphthalene	BRL	100									
2-Methylphenol	BRL	100									
2-Nitroaniline	BRL	500									
2-Nitrophenol	BRL	100									
3,3´-Dichlorobenzidine	BRL	670									
3-Nitroaniline	BRL	500									
4,6-Dinitro-2-methylphenol	BRL	500									
4-Bromophenyl phenyl ether	BRL	100									
4-Chloro-3-methylphenol	BRL	100									
4-Chloroaniline	BRL	100									
4-Chlorophenyl phenyl ether	BRL	100									
4-Methylphenol	BRL	100									
4-Nitroaniline	BRL	500									
4-Nitrophenol	BRL	500									
Acenaphthene	BRL	100									
Acenaphthylene	BRL	100									
Acetophenone	BRL	100									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2112T38

ANALYTICAL QC SUMMARY REPORT

BatchID: 328152

Sample ID: **MB-328152**	Client ID:		Units: **mg/Kg**	Prep Date: **12/28/2021**	Run No: **474131**
SampleType: **MBLK**	TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E**		BatchID: **328152**	Analysis Date: **01/03/2022**	Seq No: **10932632**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Anthracene	BRL	100									
Atrazine	BRL	100									
Benz(a)anthracene	BRL	100									
Benzaldehyde	BRL	100									
Benzo(a)pyrene	BRL	100									
Benzo(b)fluoranthene	BRL	100									
Benzo(g,h,i)perylene	BRL	100									
Benzo(k)fluoranthene	BRL	100									
Bis(2-chloroethoxy)methane	BRL	100									
Bis(2-chloroethyl)ether	BRL	100									
Bis(2-chloroisopropyl)ether	BRL	100									
Bis(2-ethylhexyl)phthalate	BRL	100									
Butyl benzyl phthalate	BRL	100									
Caprolactam	BRL	100									
Carbazole	BRL	100									
Chrysene	BRL	100									
Di-n-butyl phthalate	BRL	100									
Di-n-octyl phthalate	BRL	100									
Dibenz(a,h)anthracene	BRL	100									
Dibenzofuran	BRL	100									
Diethyl phthalate	BRL	100									
Dimethyl phthalate	BRL	100									
Fluoranthene	BRL	100									
Fluorene	BRL	100									
Hexachlorobenzene	BRL	100									
Hexachlorobutadiene	BRL	100									
Hexachlorocyclopentadiene	BRL	100									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2112T38

ANALYTICAL QC SUMMARY REPORT

BatchID: 328152

Sample ID: **MB-328152** Client ID: Units: **mg/Kg** Prep Date: **12/28/2021** Run No: **474131**
SampleType: **MBLK** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **328152** Analysis Date: **01/03/2022** Seq No: **10932632**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Hexachloroethane	BRL	100									
Indeno(1,2,3-cd)pyrene	BRL	100									
Isophorone	BRL	100									
N-Nitrosodi-n-propylamine	BRL	100									
N-Nitrosodiphenylamine	BRL	100									
Naphthalene	BRL	100									
Nitrobenzene	BRL	100									
Pentachlorophenol	BRL	500									
Phenanthrene	BRL	100									
Phenol	BRL	100									
Pyrene	BRL	100									
Surr: 2,4,6-Tribromophenol	1401	0	1000		140	52.8	148				
Surr: 2-Fluorobiphenyl	521.1	0	500.0		104	64.7	137				
Surr: 2-Fluorophenol	863.6	0	1000		86.4	57.4	132				
Surr: 4-Terphenyl-d14	545.3	0	500.0		109	62	138				
Surr: Nitrobenzene-d5	476.1	0	500.0		95.2	56.1	138				
Surr: Phenol-d5	817.3	0	1000		81.7	49.6	133				

Sample ID: **LCS-328152** Client ID: Units: **mg/Kg** Prep Date: **12/28/2021** Run No: **474131**
SampleType: **LCS** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **328152** Analysis Date: **01/03/2022** Seq No: **10932633**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4-Dinitrotoluene	875.0	100	1000		87.5	71.3	132				
2-Chlorophenol	885.3	100	1000		88.5	78.6	120				
4-Chloro-3-methylphenol	878.9	100	1000		87.9	79.1	122				
4-Nitrophenol	573.9	500	1000		57.4	52.1	120				
Acenaphthene	894.7	100	1000		89.5	77.2	127				
N-Nitrosodi-n-propylamine	827.0	100	1000		82.7	75.2	137				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2112T38

ANALYTICAL QC SUMMARY REPORT

BatchID: 328152

Sample ID: **LCS-328152** Client ID: Units: **mg/Kg** Prep Date: **12/28/2021** Run No: **474131**
SampleType: **LCS** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **328152** Analysis Date: **01/03/2022** Seq No: **10932633**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Pentachlorophenol	649.5	500	1000		65.0	45	120				
Phenol	733.7	100	1000		73.4	63.1	120				
Pyrene	812.3	100	1000		81.2	71.6	139				
Surr: 2,4,6-Tribromophenol	1470	0	1000		147	52.8	148				
Surr: 2-Fluorobiphenyl	517.7	0	500.0		104	64.7	137				
Surr: 2-Fluorophenol	895.2	0	1000		89.5	57.4	132				
Surr: 4-Terphenyl-d14	523.2	0	500.0		105	62	138				
Surr: Nitrobenzene-d5	467.1	0	500.0		93.4	56.1	138				
Surr: Phenol-d5	889.9	0	1000		89.0	49.6	133				

Sample ID: **2112P72-019BMS** Client ID: Units: **mg/Kg** Prep Date: **12/28/2021** Run No: **474131**
SampleType: **MS** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **328152** Analysis Date: **01/03/2022** Seq No: **10932635**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4-Dinitrotoluene	858.7	100	1000		85.9	46.1	120				H
2-Chlorophenol	906.6	100	1000		90.7	63.2	129				H
4-Chloro-3-methylphenol	932.6	100	1000		93.3	57.3	146				H
4-Nitrophenol	690.5	500	1000		69.0	33.5	120				H
Acenaphthene	916.3	100	1000		91.6	62.2	139				H
N-Nitrosodi-n-propylamine	842.9	100	1000		84.3	77.8	139				H
Pentachlorophenol	859.3	500	1000		85.9	33	120				H
Phenol	761.0	100	1000		76.1	60.3	121				H
Pyrene	835.3	100	1000		83.5	64.5	139				H
Surr: 2,4,6-Tribromophenol	1546	0	1000		155	52.8	148				SH
Surr: 2-Fluorobiphenyl	525.2	0	500.0		105	64.7	137				H
Surr: 2-Fluorophenol	0	0	1000		0	57.4	132				SH
Surr: 4-Terphenyl-d14	534.9	0	500.0		107	62	138				H
Surr: Nitrobenzene-d5	475.3	0	500.0		95.1	56.1	138				H

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2112T38

ANALYTICAL QC SUMMARY REPORT

BatchID: 328152

Sample ID: **2112P72-019BMS** Client ID: Units: **mg/Kg** Prep Date: **12/28/2021** Run No: **474131**
SampleType: **MS** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **328152** Analysis Date: **01/03/2022** Seq No: **10932635**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: Phenol-d5	943.4	0	1000		94.3	49.6	133				H

Sample ID: **2112P72-019BMSD** Client ID: Units: **mg/Kg** Prep Date: **12/28/2021** Run No: **474131**
SampleType: **MSD** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **328152** Analysis Date: **01/03/2022** Seq No: **10932636**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4-Dinitrotoluene	856.7	100	1000		85.7	46.1	120	858.7	0.233	26.8	H
2-Chlorophenol	900.6	100	1000		90.1	63.2	129	906.6	0.664	22.3	H
4-Chloro-3-methylphenol	925.0	100	1000		92.5	57.3	146	932.6	0.818	25.9	H
4-Nitrophenol	751.5	500	1000		75.2	33.5	120	690.5	8.46	21.3	H
Acenaphthene	916.8	100	1000		91.7	62.2	139	916.3	0.055	24	H
N-Nitrosodi-n-propylamine	843.0	100	1000		84.3	77.8	139	842.9	0.012	17.5	H
Pentachlorophenol	849.4	500	1000		84.9	33	120	859.3	1.16	21	H
Phenol	761.4	100	1000		76.1	60.3	121	761.0	0.052	21.6	H
Pyrene	846.6	100	1000		84.7	64.5	139	835.3	1.34	25.1	H
Surr: 2,4,6-Tribromophenol	1510	0	1000		151	52.8	148	1546	0	0	SH
Surr: 2-Fluorobiphenyl	510.8	0	500.0		102	64.7	137	525.2	0	0	H
Surr: 2-Fluorophenol	0	0	1000		0	57.4	132	0	0	0	SH
Surr: 4-Terphenyl-d14	538.1	0	500.0		108	62	138	534.9	0	0	H
Surr: Nitrobenzene-d5	485.9	0	500.0		97.2	56.1	138	475.3	0	0	H
Surr: Phenol-d5	939.3	0	1000		93.9	49.6	133	943.4	0	0	H

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2112T38

ANALYTICAL QC SUMMARY REPORT

BatchID: 328172

Sample ID: **LCS-328172**	Client ID:		Units: **pH Units**	Prep Date: **12/28/2021**	Run No: **473769**
SampleType: **LCS**	TestCode: **Laboratory Hydrogen Ion (pH) SW9045D**		BatchID: **328172**	Analysis Date: **12/28/2021**	Seq No: **10918164**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
pH	7.035	0.01	7.000		100	90	110				

Sample ID: **2112T38-001DDUP**	Client ID: **LP-LB-WW-01**		Units: **pH Units**	Prep Date: **12/28/2021**	Run No: **473769**
SampleType: **DUP**	TestCode: **Laboratory Hydrogen Ion (pH) SW9045D**		BatchID: **328172**	Analysis Date: **12/28/2021**	Seq No: **10918170**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
pH	8.069	0.01						0	0	20	H

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2112T38

ANALYTICAL QC SUMMARY REPORT

BatchID: 328192

Sample ID: **MB-328192**	Client ID:			Units: **mg/Kg**	Prep Date: **12/28/2021**	Run No: **473853**
SampleType: **MBLK**	TestCode: **Total Mercury - Waste**	**SW7471B**		BatchID: **328192**	Analysis Date: **12/28/2021**	Seq No: **10921087**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.100									

Sample ID: **LCS-328192**	Client ID:			Units: **mg/Kg**	Prep Date: **12/28/2021**	Run No: **473853**
SampleType: **LCS**	TestCode: **Total Mercury - Waste**	**SW7471B**		BatchID: **328192**	Analysis Date: **12/28/2021**	Seq No: **10921088**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.4199	0.100	0.4000		105	80	120				

Sample ID: **2112T38-001CMS**	Client ID: **LP-LB-WW-01**			Units: **mg/Kg**	Prep Date: **12/28/2021**	Run No: **473853**
SampleType: **MS**	TestCode: **Total Mercury - Waste**	**SW7471B**		BatchID: **328192**	Analysis Date: **12/28/2021**	Seq No: **10921090**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.4038	0.0987	0.3947		102	80	120				

Sample ID: **2112T38-001CMSD**	Client ID: **LP-LB-WW-01**			Units: **mg/Kg**	Prep Date: **12/28/2021**	Run No: **473853**
SampleType: **MSD**	TestCode: **Total Mercury - Waste**	**SW7471B**		BatchID: **328192**	Analysis Date: **12/28/2021**	Seq No: **10921091**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.3910	0.0986	0.3945		99.1	80	120	0.4038	3.21	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2112T38

ANALYTICAL QC SUMMARY REPORT

BatchID: 328196

Sample ID: **MB-328196**	Client ID:			Units: **mg/Kg**		Prep Date: **12/27/2021**		Run No: **473820**
SampleType: **MBLK**	TestCode: **Sulfide, Reactive SW846-7.3**			BatchID: **328196**		Analysis Date: **12/28/2021**		Seq No: **10919709**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide, Reactive	BRL	100									

Sample ID: **LCS-328196**	Client ID:			Units: **mg/Kg**		Prep Date: **12/27/2021**		Run No: **473820**
SampleType: **LCS**	TestCode: **Sulfide, Reactive SW846-7.3**			BatchID: **328196**		Analysis Date: **12/28/2021**		Seq No: **10919710**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide, Reactive	640.3	100	640.3		100	65.5	125				

Sample ID: **2112T38-001DMS**	Client ID: **LP-LB-WW-01**			Units: **mg/Kg**		Prep Date: **12/27/2021**		Run No: **473820**
SampleType: **MS**	TestCode: **Sulfide, Reactive SW846-7.3**			BatchID: **328196**		Analysis Date: **12/28/2021**		Seq No: **10919713**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide, Reactive	559.4	100	640.3		87.4	49.3	140				

Sample ID: **2112T38-001DMSD**	Client ID: **LP-LB-WW-01**			Units: **mg/Kg**		Prep Date: **12/27/2021**		Run No: **473820**
SampleType: **MSD**	TestCode: **Sulfide, Reactive SW846-7.3**			BatchID: **328196**		Analysis Date: **12/28/2021**		Seq No: **10919714**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide, Reactive	595.6	100	640.3		93.0	49.3	140	559.4	6.27	25.8	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2112T38

ANALYTICAL QC SUMMARY REPORT

BatchID: 328272

Sample ID: **MB-328272**	Client ID:	Units: **ug/Kg**	Prep Date: **12/29/2021**	Run No: **473916**
SampleType: **MBLK**	TestCode: **TCL VOLATILE ORGANICS SW8260D**	BatchID: **328272**	Analysis Date: **12/29/2021**	Seq No: **10922722**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	250									
1,1,2,2-Tetrachloroethane	BRL	250									
1,1,2-Trichloroethane	BRL	250									
1,1-Dichloroethane	BRL	250									
1,1-Dichloroethene	BRL	250									
1,2,4-Trichlorobenzene	BRL	250									
1,2-Dibromo-3-chloropropane	BRL	250									
1,2-Dibromoethane	BRL	250									
1,2-Dichlorobenzene	BRL	250									
1,2-Dichloroethane	BRL	250									
1,2-Dichloropropane	BRL	250									
1,3-Dichlorobenzene	BRL	250									
1,4-Dichlorobenzene	BRL	250									
2-Butanone	BRL	2500									
2-Hexanone	BRL	500									
4-Methyl-2-pentanone	BRL	500									
Acetone	BRL	2500									
Benzene	BRL	250									
Bromodichloromethane	BRL	250									
Bromoform	BRL	250									
Bromomethane	BRL	250									
Carbon disulfide	BRL	500									
Carbon tetrachloride	BRL	250									
Chlorobenzene	BRL	250									
Chloroethane	BRL	500									
Chloroform	BRL	250									
Chloromethane	BRL	500									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2112T38

ANALYTICAL QC SUMMARY REPORT

BatchID: 328272

Sample ID: **MB-328272**	Client ID:	Units: **ug/Kg**	Prep Date: **12/29/2021**	Run No: **473916**
SampleType: **MBLK**	TestCode: **TCL VOLATILE ORGANICS SW8260D**	BatchID: **328272**	Analysis Date: **12/29/2021**	Seq No: **10922722**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	250									
cis-1,3-Dichloropropene	BRL	250									
Cyclohexane	BRL	250									
Dibromochloromethane	BRL	250									
Dichlorodifluoromethane	BRL	500									
Ethylbenzene	BRL	250									
Freon-113	BRL	500									
Isopropylbenzene	BRL	250									
m,p-Xylene	BRL	250									
Methyl acetate	BRL	250									
Methyl tert-butyl ether	BRL	250									
Methylcyclohexane	BRL	250									
Methylene chloride	BRL	1000									
o-Xylene	BRL	250									
Styrene	BRL	250									
Tetrachloroethene	BRL	250									
Toluene	BRL	250									
trans-1,2-Dichloroethene	BRL	250									
trans-1,3-Dichloropropene	BRL	250									
Trichloroethene	BRL	250									
Trichlorofluoromethane	BRL	250									
Vinyl chloride	BRL	500									
Surr: 4-Bromofluorobenzene	2571	0	2500		103	65.1	125				
Surr: Dibromofluoromethane	2918	0	2500		117	77.7	123				
Surr: Toluene-d8	2728	0	2500		109	83.2	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2112T38

ANALYTICAL QC SUMMARY REPORT

BatchID: 328272

Sample ID: **LCS-328272** Client ID: Units: **ug/Kg** Prep Date: **12/29/2021** Run No: **473916**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **328272** Analysis Date: **12/29/2021** Seq No: **10922724**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	2506	250	2500		100	67.6	140				
Benzene	2288	250	2500		91.5	71.3	130				
Chlorobenzene	2278	250	2500		91.1	70.6	135				
Toluene	2226	250	2500		89.0	70.4	127				
Trichloroethene	2369	250	2500		94.8	68.6	138				
Surr: 4-Bromofluorobenzene	2805	0	2500		112	65.1	125				
Surr: Dibromofluoromethane	2812	0	2500		112	77.7	123				
Surr: Toluene-d8	2713	0	2500		109	83.2	120				

Sample ID: **2112T38-001AMS** Client ID: **LP-LB-WW-01** Units: **ug/Kg** Prep Date: **12/29/2021** Run No: **473916**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **328272** Analysis Date: **12/29/2021** Seq No: **10925651**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	8550	2500	10000		85.5	61.8	140				
Benzene	8850	2500	10000		88.5	69	131				
Chlorobenzene	8660	2500	10000		86.6	69.5	133				
Toluene	8780	2500	10000		87.8	65.9	133				
Trichloroethene	8940	2500	10000		89.4	65.9	135				
Surr: 4-Bromofluorobenzene	27130	0	25000		108	65.1	125				
Surr: Dibromofluoromethane	27150	0	25000		109	77.7	123				
Surr: Toluene-d8	27400	0	25000		110	83.2	120				

Sample ID: **2112T38-001ADUP** Client ID: **LP-LB-WW-01** Units: **ug/Kg** Prep Date: **12/29/2021** Run No: **473916**
SampleType: **DUP** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **328272** Analysis Date: **12/29/2021** Seq No: **10922730**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	2500						0	0	20	
1,1,2,2-Tetrachloroethane	BRL	2500						0	0	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2112T38

ANALYTICAL QC SUMMARY REPORT

BatchID: 328272

Sample ID: **2112T38-001ADUP** Client ID: **LP-LB-WW-01** Units: **ug/Kg** Prep Date: **12/29/2021** Run No: **473916**
SampleType: **DUP** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **328272** Analysis Date: **12/29/2021** Seq No: **10922730**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	BRL	2500						0	0	20	
1,1-Dichloroethane	BRL	2500						0	0	20	
1,1-Dichloroethene	BRL	2500						0	0	20	
1,2,4-Trichlorobenzene	BRL	2500						0	0	20	
1,2-Dibromo-3-chloropropane	BRL	2500						0	0	20	
1,2-Dibromoethane	BRL	2500						0	0	20	
1,2-Dichlorobenzene	BRL	2500						0	0	20	
1,2-Dichloroethane	BRL	2500						0	0	20	
1,2-Dichloropropane	BRL	2500						0	0	20	
1,3-Dichlorobenzene	BRL	2500						0	0	20	
1,4-Dichlorobenzene	BRL	2500						0	0	20	
2-Butanone	BRL	25000						0	0	20	
2-Hexanone	BRL	5000						0	0	20	
4-Methyl-2-pentanone	BRL	5000						0	0	20	
Acetone	BRL	25000						0	0	20	
Benzene	BRL	2500						0	0	20	
Bromodichloromethane	BRL	2500						0	0	20	
Bromoform	BRL	2500						0	0	20	
Bromomethane	BRL	2500						0	0	20	
Carbon disulfide	BRL	5000						0	0	20	
Carbon tetrachloride	BRL	2500						0	0	20	
Chlorobenzene	BRL	2500						0	0	20	
Chloroethane	BRL	5000						0	0	20	
Chloroform	BRL	2500						0	0	20	
Chloromethane	BRL	5000						0	0	20	
cis-1,2-Dichloroethene	BRL	2500						0	0	20	
cis-1,3-Dichloropropene	BRL	2500						0	0	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2112T38

ANALYTICAL QC SUMMARY REPORT

BatchID: 328272

Sample ID: **2112T38-001ADUP** Client ID: **LP-LB-WW-01** Units: **ug/Kg** Prep Date: **12/29/2021** Run No: **473916**
SampleType: **DUP** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **328272** Analysis Date: **12/29/2021** Seq No: **10922730**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyclohexane	BRL	2500						0	0	20	
Dibromochloromethane	BRL	2500						0	0	20	
Dichlorodifluoromethane	BRL	5000						0	0	20	
Ethylbenzene	BRL	2500						0	0	20	
Freon-113	BRL	5000						0	0	20	
Isopropylbenzene	BRL	2500						0	0	20	
m,p-Xylene	BRL	2500						0	0	20	
Methyl acetate	BRL	2500						0	0	20	
Methyl tert-butyl ether	BRL	2500						0	0	20	
Methylcyclohexane	BRL	2500						0	0	20	
Methylene chloride	BRL	10000						0	0	20	
o-Xylene	BRL	2500						0	0	20	
Styrene	BRL	2500						0	0	20	
Tetrachloroethene	BRL	2500						0	0	20	
Toluene	BRL	2500						0	0	20	
trans-1,2-Dichloroethene	BRL	2500						0	0	20	
trans-1,3-Dichloropropene	BRL	2500						0	0	20	
Trichloroethene	BRL	2500						0	0	20	
Trichlorofluoromethane	BRL	2500						0	0	20	
Vinyl chloride	BRL	5000						0	0	20	
Surr: 4-Bromofluorobenzene	27410	0	25000		110	65.1	125	26560	0	20	
Surr: Dibromofluoromethane	27460	0	25000		110	77.7	123	27610	0	20	
Surr: Toluene-d8	27290	0	25000		109	83.2	120	26530	0	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2112T38

ANALYTICAL QC SUMMARY REPORT

BatchID: 328402

Sample ID: **MB-328402**	Client ID:				Units: **mg/Kg**		Prep Date: **01/03/2021**		Run No: **474150**
SampleType: **MBLK**	TestCode: **Cyanide, Reactive SW846-7.3**				BatchID: **328402**		Analysis Date: **01/03/2021**		Seq No: **10931831**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Reactive	BRL	1.00									

Sample ID: **LCS-328402**	Client ID:				Units: **mg/Kg**		Prep Date: **01/03/2021**		Run No: **474150**
SampleType: **LCS**	TestCode: **Cyanide, Reactive SW846-7.3**				BatchID: **328402**		Analysis Date: **01/03/2021**		Seq No: **10931832**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Reactive	10.35	1.00	12.50		82.8	58.9	120				

Sample ID: **2112V42-001CMS**	Client ID:				Units: **mg/Kg**		Prep Date: **01/03/2021**		Run No: **474150**
SampleType: **MS**	TestCode: **Cyanide, Reactive SW846-7.3**				BatchID: **328402**		Analysis Date: **01/03/2021**		Seq No: **10931837**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Reactive	8.252	0.971	12.14		68.0	28.1	120				

Sample ID: **2112V42-001CMSD**	Client ID:				Units: **mg/Kg**		Prep Date: **01/03/2021**		Run No: **474150**
SampleType: **MSD**	TestCode: **Cyanide, Reactive SW846-7.3**				BatchID: **328402**		Analysis Date: **01/03/2021**		Seq No: **10931838**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Reactive	9.078	0.971	12.14		74.8	28.1	120	8.252	9.52	19	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2112T38

ANALYTICAL QC SUMMARY REPORT

BatchID: R473863

Sample ID: **MB-R473863**	Client ID:				Units: **wt%**		Prep Date:		Run No: **473863**	
SampleType: **MBLK**	TestCode: **Fixed Residues (SM2540G)**				BatchID: **R473863**		Analysis Date: **12/27/2021**		Seq No: **10921314**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
% Total Solids	BRL	0.00100									

Sample ID: **2112O14-002ADUP**	Client ID:				Units: **wt%**		Prep Date:		Run No: **473863**	
SampleType: **DUP**	TestCode: **Fixed Residues (SM2540G)**				BatchID: **R473863**		Analysis Date: **12/27/2021**		Seq No: **10921322**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
% Total Solids	17.28	0.00100						17.21	0.406	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2112T38

ANALYTICAL QC SUMMARY REPORT

BatchID: R473865

Sample ID: **LCS-R473865**	Client ID:			Units: **°F**	Prep Date:	Run No: **473865**
SampleType: **LCS**	TestCode: **Ignitability / Flashpoint** **SW1010B**			BatchID: **R473865**	Analysis Date: **12/29/2021**	Seq No: **10923822**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ignitability	81.00	0	81.00		100	97.5	102.47				

Sample ID: **LCSD-R473865**	Client ID:			Units: **°F**	Prep Date:	Run No: **473865**
SampleType: **LCSD**	TestCode: **Ignitability / Flashpoint** **SW1010B**			BatchID: **R473865**	Analysis Date: **12/29/2021**	Seq No: **10923823**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ignitability	81.00	0	81.00		100	97.5	102.47	81.00	0	5	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2112T38

ANALYTICAL QC SUMMARY REPORT

BatchID: R474295

Sample ID: **MB-R474295**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **474295**	
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**				BatchID: **R474295**		Analysis Date: **01/04/2022**		Seq No: **10936733**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.0									
Fluoride	BRL	0.20									

Sample ID: **LCS-R474295**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **474295**	
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**				BatchID: **R474295**		Analysis Date: **01/04/2022**		Seq No: **10936732**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.089	1.0	10.00		90.9	90	110				
Fluoride	4.818	0.20	5.000		96.4	90	110				

Sample ID: **2112O81-010DMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **474295**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R474295**		Analysis Date: **01/04/2022**		Seq No: **10936773**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.675	1.0	10.00		96.8	90	110				
Fluoride	5.176	0.20	5.000		104	90	110				

Sample ID: **2201093-002AMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **474295**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R474295**		Analysis Date: **01/04/2022**		Seq No: **10936771**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	14.49	1.0	10.00	5.451	90.4	90	110				
Fluoride	5.196	0.20	5.000		104	90	110				

Sample ID: **2201093-002AMSD**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **474295**	
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**				BatchID: **R474295**		Analysis Date: **01/04/2022**		Seq No: **10936772**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	14.42	1.0	10.00	5.451	89.7	90	110	14.49	0.483	20	S

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2112T38

ANALYTICAL QC SUMMARY REPORT

BatchID: R474295

Sample ID: **2201093-002AMSD** Client ID: Units: **mg/L** Prep Date: Run No: **474295**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R474295** Analysis Date: **01/04/2022** Seq No: **10936772**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Fluoride	5.183	0.20	5.000		104	90	110	5.196	0.252	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

End of Report

ANALYTICAL
ENVIRONMENTAL
SERVICES, INC.

Electronic Data Package

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

January 21, 2022

Jessica Vickers
Tetra Tech EM Inc.

1955 Evergreen Blvd.
Duluth GA 30096

RE: Lakes Parkway Lithium Battery Fire

Dear Jessica Vickers: Order No: 2201A78

Analytical Environmental Services, Inc. received 1 samples on 1/11/2022 4:36:00 PM for the analyses presented in following report.

"No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.
AES's accreditations are as follows:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/21-06/30/22.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/22 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/23.
These results relate only to the items tested as received. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi

Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive Atlanta GA 30340- 3906
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 2201A78

Date: 1/11/22 Page 1 of 1

COMPANY: Tetra Tech, Inc.	ADDRESS: 1955 Evergreen Blvd Bldg 200, Suite 300 Duluth, GA 30096
PHONE: 404-849-7136	FAX: 678-775-3138
SAMPLED BY: Paul Prys	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOCs	SVOCs	RCRA 8 Metals	pH	Flashpoint	Reactive Cyanide	Reactive Sulfide	TSS	% Solids	% Water	Chloride	Fluoride	REMARKS	No # of Containers
	PRESERVATION (See codes)						H	H	H_2^{+}	H	H	H	D	H	H	H	H	H		
1	LPLBF-WW-L01-011122	1/11/22	1340		✔	WW	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		8
2																				
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14																				

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	1/11/22@1636	1:	1.11.22 16:36
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:
- All waste water samples for VOC analysis are not preserved.
- Please send sample results to paul.prys@tetratech.com.

SHIPMENT METHOD
OUT 01/11/22 VIA: Drop off
IN / / VIA:
☑ CLIENT ☐ FedEx ☐ UPS ☐ MAIL ☐ COURIER
☐ GREYHOUND ☐ OTHER_____

PROJECT INFORMATION
PROJECT NAME: Lakes Parkway Lithium Battery Fire
PROJECT #: 103X90320082035.001F
SITE ADDRESS: 1665 Lakes Parkway, Lawrenceville, GA
SEND REPORT TO: jessica.vickers@tetratech.com
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers: 8

Turnaround Time Request
☑ Standard 5 Business Days
☐ 2 Business Day Rush
☑ Next Business Day Rush
☐ Same Day Rush (auth req.)
☐ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Y Fax? Y / N N
DATA PACKAGE: ☐ I ☐ II ☐ III ☑ IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED WITH STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW=Wastewater DW=Drinking Water O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc.

Date: *25-Jan-22*

CLIENT: Tetra Tech EM Inc.
Project: Lakes Parkway Lithium Battery Fire
Lab Order: 2201A78

CASE NARRATIVE

Sample Receiving Nonconformance:

Samples for pH analysis by Method SM4500 H+ B were received and analyzed outside Method specified holding time of "immediate or 15 minutes."

Mercury Analysis by Method 7470A:

Due to sample matrix, sample 2201A78-001C required dilution during preparation and/or analysis resulting in elevated reporting limits.

Volatile Organic Compounds Analysis by Method 624.1/8260D:

LCS-329202 recoveries for 1,2-Dichloroethane, o-Xylene, Styrene, and trans-1,3-Dichloropropene were outside control limits biased high. Target analyte was not detected in the analytical samples and data is reportable with high bias.

Data Package case narrative added 01/25/2022:

The QC Summary has been updated with additional QC Parameters.

Analytical Environmental Services, Inc **Date:** 21-Jan-22

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LPLBF-WW-L01-011122
Project Name:	Lakes Parkway Lithium Battery Fire	**Collection Date:**	1/11/2022 1:40:00 PM
Lab ID:	2201A78-001	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3510C)**				
1,1´-Biphenyl	9.5	J	4.1	10	ug/L	328904	1	01/14/2022 22:16	YH
2,4,5-Trichlorophenol	BRL		3.9	25	ug/L	328904	1	01/14/2022 22:16	YH
2,4,6-Trichlorophenol	BRL		3.4	10	ug/L	328904	1	01/14/2022 22:16	YH
2,4-Dichlorophenol	BRL		3.6	10	ug/L	328904	1	01/14/2022 22:16	YH
2,4-Dimethylphenol	15		3.8	10	ug/L	328904	1	01/14/2022 22:16	YH
2,4-Dinitrophenol	BRL		8.8	25	ug/L	328904	1	01/14/2022 22:16	YH
2,4-Dinitrotoluene	BRL		6.0	10	ug/L	328904	1	01/14/2022 22:16	YH
2,6-Dinitrotoluene	BRL		5.3	10	ug/L	328904	1	01/14/2022 22:16	YH
2-Chloronaphthalene	BRL		3.0	10	ug/L	328904	1	01/14/2022 22:16	YH
2-Chlorophenol	37		2.0	10	ug/L	328904	1	01/14/2022 22:16	YH
2-Methylnaphthalene	4.6	J	3.0	10	ug/L	328904	1	01/14/2022 22:16	YH
2-Methylphenol	70		3.1	10	ug/L	328904	1	01/14/2022 22:16	YH
2-Nitroaniline	BRL		3.6	25	ug/L	328904	1	01/14/2022 22:16	YH
2-Nitrophenol	BRL		2.5	10	ug/L	328904	1	01/14/2022 22:16	YH
3,3´-Dichlorobenzidine	BRL		3.7	10	ug/L	328904	1	01/14/2022 22:16	YH
3-Nitroaniline	BRL		4.3	25	ug/L	328904	1	01/14/2022 22:16	YH
4,6-Dinitro-2-methylphenol	BRL		14	25	ug/L	328904	1	01/14/2022 22:16	YH
4-Bromophenyl phenyl ether	BRL		3.9	10	ug/L	328904	1	01/14/2022 22:16	YH
4-Chloro-3-methylphenol	BRL		4.0	10	ug/L	328904	1	01/14/2022 22:16	YH
4-Chloroaniline	BRL		4.9	10	ug/L	328904	1	01/14/2022 22:16	YH
4-Chlorophenyl phenyl ether	BRL		3.0	10	ug/L	328904	1	01/14/2022 22:16	YH
4-Methylphenol	490		67	200	ug/L	328904	20	01/18/2022 13:06	YH
4-Nitroaniline	BRL		5.1	25	ug/L	328904	1	01/14/2022 22:16	YH
4-Nitrophenol	BRL		5.8	25	ug/L	328904	1	01/14/2022 22:16	YH
Acenaphthene	BRL		2.5	10	ug/L	328904	1	01/14/2022 22:16	YH
Acenaphthylene	5.9	J	2.7	10	ug/L	328904	1	01/14/2022 22:16	YH
Acetophenone	100		4.0	10	ug/L	328904	1	01/14/2022 22:16	YH
Anthracene	BRL		2.9	10	ug/L	328904	1	01/14/2022 22:16	YH
Atrazine	BRL		5.8	10	ug/L	328904	1	01/14/2022 22:16	YH
Benz(a)anthracene	BRL		2.8	10	ug/L	328904	1	01/14/2022 22:16	YH
Benzaldehyde	BRL		6.8	10	ug/L	328904	1	01/14/2022 22:16	YH
Benzo(a)pyrene	BRL		3.5	10	ug/L	328904	1	01/14/2022 22:16	YH
Benzo(b)fluoranthene	BRL		3.8	10	ug/L	328904	1	01/14/2022 22:16	YH
Benzo(g,h,i)perylene	BRL		4.2	10	ug/L	328904	1	01/14/2022 22:16	YH
Benzo(k)fluoranthene	BRL		3.6	10	ug/L	328904	1	01/14/2022 22:16	YH
Bis(2-chloroethoxy)methane	BRL		2.6	10	ug/L	328904	1	01/14/2022 22:16	YH
Bis(2-chloroethyl)ether	BRL		2.4	10	ug/L	328904	1	01/14/2022 22:16	YH
Bis(2-chloroisopropyl)ether	BRL		3.0	10	ug/L	328904	1	01/14/2022 22:16	YH
Bis(2-ethylhexyl)phthalate	11		4.4	10	ug/L	328904	1	01/14/2022 22:16	YH
Butyl benzyl phthalate	BRL		3.4	10	ug/L	328904	1	01/14/2022 22:16	YH
Caprolactam	72		5.0	10	ug/L	328904	1	01/14/2022 22:16	YH
Carbazole	BRL		3.3	10	ug/L	328904	1	01/14/2022 22:16	YH
Chrysene	BRL		2.7	10	ug/L	328904	1	01/14/2022 22:16	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 21-Jan-22

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LPLBF-WW-L01-011122
Project Name:	Lakes Parkway Lithium Battery Fire	**Collection Date:**	1/11/2022 1:40:00 PM
Lab ID:	2201A78-001	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					**(SW3510C)**				
Di-n-butyl phthalate	BRL		3.3	10	ug/L	328904	1	01/14/2022 22:16	YH
Di-n-octyl phthalate	BRL		9.3	10	ug/L	328904	1	01/14/2022 22:16	YH
Dibenz(a,h)anthracene	BRL		4.5	10	ug/L	328904	1	01/14/2022 22:16	YH
Dibenzofuran	BRL		2.7	10	ug/L	328904	1	01/14/2022 22:16	YH
Diethyl phthalate	BRL		3.3	10	ug/L	328904	1	01/14/2022 22:16	YH
Dimethyl phthalate	BRL		2.8	10	ug/L	328904	1	01/14/2022 22:16	YH
Fluoranthene	BRL		3.0	10	ug/L	328904	1	01/14/2022 22:16	YH
Fluorene	3.1	J	2.7	10	ug/L	328904	1	01/14/2022 22:16	YH
Hexachlorobenzene	BRL		3.9	10	ug/L	328904	1	01/14/2022 22:16	YH
Hexachlorobutadiene	BRL		4.2	10	ug/L	328904	1	01/14/2022 22:16	YH
Hexachlorocyclopentadiene	BRL		8.4	10	ug/L	328904	1	01/14/2022 22:16	YH
Hexachloroethane	BRL		3.1	10	ug/L	328904	1	01/14/2022 22:16	YH
Indeno(1,2,3-cd)pyrene	BRL		4.2	10	ug/L	328904	1	01/14/2022 22:16	YH
Isophorone	BRL		3.5	10	ug/L	328904	1	01/14/2022 22:16	YH
N-Nitrosodi-n-propylamine	BRL		2.5	10	ug/L	328904	1	01/14/2022 22:16	YH
N-Nitrosodiphenylamine	BRL		2.4	10	ug/L	328904	1	01/14/2022 22:16	YH
Naphthalene	41		2.1	10	ug/L	328904	1	01/14/2022 22:16	YH
Nitrobenzene	BRL		2.5	10	ug/L	328904	1	01/14/2022 22:16	YH
Pentachlorophenol	BRL		6.4	25	ug/L	328904	1	01/14/2022 22:16	YH
Phenanthrene	4.5	J	2.9	10	ug/L	328904	1	01/14/2022 22:16	YH
Phenol	3200		57	200	ug/L	328904	20	01/18/2022 13:06	YH
Pyrene	BRL		2.9	10	ug/L	328904	1	01/14/2022 22:16	YH
Surr: 2,4,6-Tribromophenol	673	S	0	46-135	%REC	328904	1	01/14/2022 22:16	YH
Surr: 2-Fluorobiphenyl	84.6		0	45-121	%REC	328904	1	01/14/2022 22:16	YH
Surr: 2-Fluorophenol	42.1		0	28.2-120	%REC	328904	1	01/14/2022 22:16	YH
Surr: 4-Terphenyl-d14	84.6		0	44-120	%REC	328904	1	01/14/2022 22:16	YH
Surr: Nitrobenzene-d5	84.6		0	41-123	%REC	328904	1	01/14/2022 22:16	YH
Surr: Phenol-d5	25		0	19.5-120	%REC	328904	1	01/14/2022 22:16	YH
TCL VOLATILE ORGANICS SW8260D					**(SW5030B)**				
1,1,1-Trichloroethane	BRL		0.26	5.0	ug/L	329202	1	01/17/2022 12:52	OM
1,1,2,2-Tetrachloroethane	BRL		0.25	5.0	ug/L	329202	1	01/17/2022 12:52	OM
1,1,2-Trichloroethane	BRL		0.23	5.0	ug/L	329202	1	01/17/2022 12:52	OM
1,1-Dichloroethane	BRL		0.29	5.0	ug/L	329202	1	01/17/2022 12:52	OM
1,1-Dichloroethene	BRL		0.32	5.0	ug/L	329202	1	01/17/2022 12:52	OM
1,2,4-Trichlorobenzene	BRL		0.68	5.0	ug/L	329202	1	01/17/2022 12:52	OM
1,2-Dibromo-3-chloropropane	BRL		0.61	5.0	ug/L	329202	1	01/17/2022 12:52	OM
1,2-Dibromoethane	2.6	J	0.20	5.0	ug/L	329202	1	01/17/2022 12:52	OM
1,2-Dichlorobenzene	BRL		0.22	5.0	ug/L	329202	1	01/17/2022 12:52	OM
1,2-Dichloroethane	BRL		0.19	5.0	ug/L	329202	1	01/17/2022 12:52	OM
1,2-Dichloropropane	BRL		0.23	5.0	ug/L	329202	1	01/17/2022 12:52	OM
1,3-Dichlorobenzene	BRL		0.23	5.0	ug/L	329202	1	01/17/2022 12:52	OM
1,4-Dichlorobenzene	BRL		0.57	5.0	ug/L	329202	1	01/17/2022 12:52	OM

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 21-Jan-22

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LPLBF-WW-L01-011122
Project Name:	Lakes Parkway Lithium Battery Fire	**Collection Date:**	1/11/2022 1:40:00 PM
Lab ID:	2201A78-001	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260D				**(SW5030B)**					
2-Butanone	95		5.0	50	ug/L	329202	1	01/17/2022 12:52	OM
2-Hexanone	4.3	J	2.7	10	ug/L	329202	1	01/17/2022 12:52	OM
4-Methyl-2-pentanone	BRL		2.7	10	ug/L	329202	1	01/17/2022 12:52	OM
Acetone	200		41	100	ug/L	329202	5	01/18/2022 10:16	OM
Benzene	460		4.8	100	ug/L	329202	20	01/17/2022 13:18	OM
Bromodichloromethane	BRL		0.26	5.0	ug/L	329202	1	01/17/2022 12:52	OM
Bromoform	BRL		0.48	5.0	ug/L	329202	1	01/17/2022 12:52	OM
Bromomethane	130		0.73	5.0	ug/L	329202	1	01/17/2022 12:52	OM
Carbon disulfide	BRL		0.98	5.0	ug/L	329202	1	01/17/2022 12:52	OM
Carbon tetrachloride	BRL		0.28	5.0	ug/L	329202	1	01/17/2022 12:52	OM
Chlorobenzene	2.0	J	0.47	5.0	ug/L	329202	1	01/17/2022 12:52	OM
Chloroethane	4.8	J	0.45	10	ug/L	329202	1	01/17/2022 12:52	OM
Chloroform	3.7	J	0.23	5.0	ug/L	329202	1	01/17/2022 12:52	OM
Chloromethane	65		0.44	10	ug/L	329202	1	01/17/2022 12:52	OM
cis-1,2-Dichloroethene	BRL		0.50	5.0	ug/L	329202	1	01/17/2022 12:52	OM
cis-1,3-Dichloropropene	BRL		0.30	5.0	ug/L	329202	1	01/17/2022 12:52	OM
Cyclohexane	BRL		1.00	5.0	ug/L	329202	1	01/17/2022 12:52	OM
Dibromochloromethane	BRL		0.40	5.0	ug/L	329202	1	01/17/2022 12:52	OM
Dichlorodifluoromethane	BRL		0.47	10	ug/L	329202	1	01/17/2022 12:52	OM
Ethylbenzene	300		4.8	100	ug/L	329202	20	01/17/2022 13:18	OM
Freon-113	BRL		0.33	10	ug/L	329202	1	01/17/2022 12:52	OM
Isopropylbenzene	20		0.29	5.0	ug/L	329202	1	01/17/2022 12:52	OM
m,p-Xylene	20		0.51	5.0	ug/L	329202	1	01/17/2022 12:52	OM
Methyl acetate	BRL		0.57	5.0	ug/L	329202	1	01/17/2022 12:52	OM
Methyl tert-butyl ether	BRL		0.24	5.0	ug/L	329202	1	01/17/2022 12:52	OM
Methylcyclohexane	BRL		0.24	5.0	ug/L	329202	1	01/17/2022 12:52	OM
Methylene chloride	BRL		4.8	5.0	ug/L	329202	1	01/17/2022 12:52	OM
o-Xylene	15		0.27	5.0	ug/L	329202	1	01/17/2022 12:52	OM
Styrene	2400		5.9	100	ug/L	329202	20	01/17/2022 13:18	OM
Tetrachloroethene	BRL		0.30	5.0	ug/L	329202	1	01/17/2022 12:52	OM
Toluene	480		13	100	ug/L	329202	20	01/17/2022 13:18	OM
trans-1,2-Dichloroethene	BRL		0.29	5.0	ug/L	329202	1	01/17/2022 12:52	OM
trans-1,3-Dichloropropene	BRL		0.81	5.0	ug/L	329202	1	01/17/2022 12:52	OM
Trichloroethene	BRL		0.21	5.0	ug/L	329202	1	01/17/2022 12:52	OM
Trichlorofluoromethane	BRL		0.43	5.0	ug/L	329202	1	01/17/2022 12:52	OM
Vinyl chloride	BRL		0.44	2.0	ug/L	329202	1	01/17/2022 12:52	OM
Surr: 4-Bromofluorobenzene	102		0	74.9-127	%REC	329202	5	01/18/2022 10:16	OM
Surr: 4-Bromofluorobenzene	100		0	74.9-127	%REC	329202	1	01/17/2022 12:52	OM
Surr: 4-Bromofluorobenzene	99.8		0	74.9-127	%REC	329202	20	01/17/2022 13:18	OM
Surr: Dibromofluoromethane	96.7		0	78.9-121	%REC	329202	5	01/18/2022 10:16	OM
Surr: Dibromofluoromethane	96.6		0	78.9-121	%REC	329202	1	01/17/2022 12:52	OM
Surr: Dibromofluoromethane	98.9		0	78.9-121	%REC	329202	20	01/17/2022 13:18	OM
Surr: Toluene-d8	101		0	81.5-120	%REC	329202	5	01/18/2022 10:16	OM

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 21-Jan-22

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LPLBF-WW-L01-011122
Project Name:	Lakes Parkway Lithium Battery Fire	**Collection Date:**	1/11/2022 1:40:00 PM
Lab ID:	2201A78-001	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260D					**(SW5030B)**				
Surr: Toluene-d8	104		0	81.5-120	%REC	329202	1	01/17/2022 12:52	OM
Surr: Toluene-d8	99.8		0	81.5-120	%REC	329202	20	01/17/2022 13:18	OM
Sulfide, Reactive SW846-7.3					**(SW7.3.4.2)**				
Sulfide, Reactive	BRL		100	100	mg/Kg	329177	1	01/17/2022 17:00	AD
Residue, Total (TS) by SM2540B									
Residue, Total (TS)	0.710	H	0.00100	0.00100	wt%	329296	1	01/18/2022 16:02	SK
Residue, Suspended (TSS) by SM2540D									
Residue, Suspended (TSS)	737		6.7	33.3	mg/L	329065	1	01/14/2022 14:18	JP
Mercury, Total SW7470A					**(SW7470A)**				
Mercury	BRL		0.00150	0.00160	mg/L	329166	1	01/17/2022 18:44	GR
ION SCAN SW9056A									
Chloride	2600		22	50	mg/L	R475144	50	01/14/2022 12:26	KV
Fluoride	90		1.3	2.0	mg/L	R475144	10	01/13/2022 13:07	KV
Ignitability / Flashpoint SW1010B									
Ignitability	180	>	0	0	°F	R475336	1	01/18/2022 00:00	GK
Hydrogen Ion (pH) by SM4500H+B									
pH	10.7	H	0.0100	0.0100	pH Units	R474932	1	01/12/2022 15:55	GY
Cyanide, Reactive SW846-7.3					**(SW7.3.3.2)**				
Cyanide, Reactive	BRL		1.00	1.00	mg/Kg	329295	1	01/19/2022 05:53	AT
METALS, TOTAL SW6010D					**(SW3010A)**				
Arsenic	BRL		0.0098	0.0500	mg/L	329049	1	01/18/2022 13:21	KB
Barium	0.615		0.0048	0.0200	mg/L	329049	1	01/18/2022 13:21	KB
Cadmium	0.0035	J	0.0016	0.0050	mg/L	329049	1	01/18/2022 13:21	KB
Chromium	0.304		0.0067	0.0100	mg/L	329049	1	01/18/2022 13:21	KB
Lead	0.145		0.0039	0.0100	mg/L	329049	1	01/18/2022 13:21	KB
Selenium	BRL		0.0089	0.0200	mg/L	329049	1	01/18/2022 13:21	KB
Silver	0.0423		0.0018	0.0100	mg/L	329049	1	01/18/2022 13:21	KB

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **Tetra Tech EM Inc.** AES Work Order Number: **2201A78**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ■ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	●	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	●	○		
5.	Custody seals intact on shipping container?	○	○	●		
6.	Temperature blanks present?	●	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	●	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	●	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	●	○	○		
10.	Sampler name and/or signature on COC?	●	○	○		
11.	Were all samples received within holding time?	○	●	○		
12.	TAT marked on the COC?	●	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 4.9 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments:

I certify that I have completed sections 1-15 (dated initials). CP 1/11/2022

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	●	○	○		
17.	Custody seals present on sample containers?	○	●	○		
18.	Custody seals intact on sample containers?	○	○	●		
19.	Do sample container labels match the COC?	●	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	●	○	○		
21.	Were all of the samples listed on the COC received?	●	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	●	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	●	○	○		
24.	Were samples received in appropriate containers?	●	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	○	○	●		
26.	Were trip blanks submitted?	○	○	●	listed on COC ☐ not listed on COC ☐	

27. Comments:

This section only applies to samples where pH can be checked at Sample Receipt.

I certify that I have completed sections 16-27 (dated initials). AC 1/11/22

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	○	○	●		
29.	Containers meet preservation guidelines?	○	○	●		
30.	Was pH adjusted at Sample Receipt?	○	○	●		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.
This also excludes metals by EPA 200.7, 200.8 and 245.1 which will be verified between 16 and 24 hours after preservation.

I certify that I have completed sections 28-30 (dated initials). AC 1/11/22

Locked

Analytical Environmental Services, Inc

Date: 21-Jan-22

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Lab Order: 2201A78

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2201A78-001A	LPLBF-WW-L01-011122	1/11/2022 1:40:00PM	Waste Water	TCL VOLATILE ORGANICS		1/17/2022 8:30:00AM	01/17/2022
2201A78-001A	LPLBF-WW-L01-011122	1/11/2022 1:40:00PM	Waste Water	TCL VOLATILE ORGANICS		1/17/2022 8:30:00AM	01/18/2022
2201A78-001B	LPLBF-WW-L01-011122	1/11/2022 1:40:00PM	Waste Water	TCL-SEMIVOLATILE ORGANICS		1/13/2022 10:33:50AM	01/14/2022
2201A78-001B	LPLBF-WW-L01-011122	1/11/2022 1:40:00PM	Waste Water	TCL-SEMIVOLATILE ORGANICS		1/13/2022 10:33:50AM	01/18/2022
2201A78-001C	LPLBF-WW-L01-011122	1/11/2022 1:40:00PM	Waste Water	TOTAL METALS BY ICP		1/17/2022 10:20:00AM	01/18/2022
2201A78-001C	LPLBF-WW-L01-011122	1/11/2022 1:40:00PM	Waste Water	TOTAL MERCURY		1/17/2022 1:53:00PM	01/17/2022
2201A78-001D	LPLBF-WW-L01-011122	1/11/2022 1:40:00PM	Waste Water	Cyanide, Reactive		1/19/2022 9:15:00AM	01/19/2022
2201A78-001D	LPLBF-WW-L01-011122	1/11/2022 1:40:00PM	Waste Water	Sulfide, Reactive		1/17/2022 11:30:00AM	01/17/2022
2201A78-001D	LPLBF-WW-L01-011122	1/11/2022 1:40:00PM	Waste Water	Hydrogen Ion (pH) by SM4500 H+ B			01/12/2022
2201A78-001D	LPLBF-WW-L01-011122	1/11/2022 1:40:00PM	Waste Water	Residue, Total (TS) by SM2540B		1/18/2022 4:02:00PM	01/18/2022
2201A78-001D	LPLBF-WW-L01-011122	1/11/2022 1:40:00PM	Waste Water	Residue, Suspended (TSS) by SM2540D		1/14/2022 2:18:15PM	01/14/2022
2201A78-001E	LPLBF-WW-L01-011122	1/11/2022 1:40:00PM	Waste Water	IGNITABILITY			01/18/2022
2201A78-001E	LPLBF-WW-L01-011122	1/11/2022 1:40:00PM	Waste Water	ION SCAN			01/13/2022
2201A78-001E	LPLBF-WW-L01-011122	1/11/2022 1:40:00PM	Waste Water	ION SCAN			01/14/2022

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 328904

Sample ID: **MB-328904** Client ID: Units: **ug/L** Prep Date: **01/13/2022** Run No: **475088**
SampleType: **MBLK** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **328904** Seq No: **10957687**
Analysis Date / Time: **Jan 13 2022 6:13PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1´-Biphenyl	BRL	4.1	10									
2,4,5-Trichlorophenol	BRL	3.9	25									
2,4,6-Trichlorophenol	BRL	3.4	10									
2,4-Dichlorophenol	BRL	3.6	10									
2,4-Dimethylphenol	BRL	3.8	10									
2,4-Dinitrophenol	BRL	8.8	25									
2,4-Dinitrotoluene	BRL	6.0	10									
2,6-Dinitrotoluene	BRL	5.3	10									
2-Chloronaphthalene	BRL	3.0	10									
2-Chlorophenol	BRL	2.0	10									
2-Methylnaphthalene	BRL	3.0	10									
2-Methylphenol	BRL	3.1	10									
2-Nitroaniline	BRL	3.6	25									
2-Nitrophenol	BRL	2.5	10									
3,3´-Dichlorobenzidine	BRL	3.7	10									
3-Nitroaniline	BRL	4.3	25									
4,6-Dinitro-2-methylphenol	BRL	14	25									
4-Bromophenyl phenyl ether	BRL	3.9	10									
4-Chloro-3-methylphenol	BRL	4.0	10									
4-Chloroaniline	BRL	4.9	10									
4-Chlorophenyl phenyl ether	BRL	3.0	10									
4-Methylphenol	BRL	3.3	10									
4-Nitroaniline	BRL	5.1	25									
4-Nitrophenol	BRL	5.8	25									
Acenaphthene	BRL	2.5	10									
Acenaphthylene	BRL	2.7	10									
Acetophenone	BRL	4.0	10									
Anthracene	BRL	2.9	10									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 328904

Sample ID: **MB-328904** Client ID: Units: **ug/L** Prep Date: **01/13/2022** Run No: **475088**
SampleType: **MBLK** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **328904** Seq No: **10957687**
Analysis Date / Time: **Jan 13 2022 6:13PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Atrazine	BRL	5.8	10									
Benz(a)anthracene	BRL	2.8	10									
Benzaldehyde	BRL	6.8	10									
Benzo(a)pyrene	BRL	3.5	10									
Benzo(b)fluoranthene	BRL	3.8	10									
Benzo(g,h,i)perylene	BRL	4.2	10									
Benzo(k)fluoranthene	BRL	3.6	10									
Bis(2-chloroethoxy)methane	BRL	2.6	10									
Bis(2-chloroethyl)ether	BRL	2.4	10									
Bis(2-chloroisopropyl)ether	BRL	3.0	10									
Bis(2-ethylhexyl)phthalate	BRL	4.4	10									
Butyl benzyl phthalate	BRL	3.4	10									
Caprolactam	BRL	5.0	10									
Carbazole	BRL	3.3	10									
Chrysene	BRL	2.7	10									
Di-n-butyl phthalate	BRL	3.3	10									
Di-n-octyl phthalate	BRL	9.3	10									
Dibenz(a,h)anthracene	BRL	4.5	10									
Dibenzofuran	BRL	2.7	10									
Diethyl phthalate	BRL	3.3	10									
Dimethyl phthalate	BRL	2.8	10									
Fluoranthene	BRL	3.0	10									
Fluorene	BRL	2.7	10									
Hexachlorobenzene	BRL	3.9	10									
Hexachlorobutadiene	BRL	4.2	10									
Hexachlorocyclopentadiene	BRL	8.4	10									
Hexachloroethane	BRL	3.1	10									
Indeno(1,2,3-cd)pyrene	BRL	4.2	10									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 328904

Sample ID: **MB-328904** Client ID: Units: **ug/L** Prep Date: **01/13/2022** Run No: **475088**
SampleType: **MBLK** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **328904** Seq No: **10957687**
Analysis Date / Time: **Jan 13 2022 6:13PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Isophorone	BRL	3.5	10									
N-Nitrosodi-n-propylamine	BRL	2.5	10									
N-Nitrosodiphenylamine	BRL	2.4	10									
Naphthalene	BRL	2.1	10									
Nitrobenzene	BRL	2.5	10									
Pentachlorophenol	BRL	6.4	25									
Phenanthrene	BRL	2.9	10									
Phenol	BRL	2.9	10									
Pyrene	BRL	2.9	10									
Surr: 2,4,6-Tribromophenol	76.23	0	0	100.0		76.2	46	135				
Surr: 2-Fluorobiphenyl	45.56	0	0	50.00		91.1	45	121				
Surr: 2-Fluorophenol	59.39	0	0	100.0		59.4	28.2	120				
Surr: 4-Terphenyl-d14	46.79	0	0	50.00		93.6	44	120				
Surr: Nitrobenzene-d5	49.59	0	0	50.00		99.2	41	123				
Surr: Phenol-d5	43.48	0	0	100.0		43.5	19.5	120				

Sample ID: **LCS-328904** Client ID: Units: **ug/L** Prep Date: **01/13/2022** Run No: **475088**
SampleType: **LCS** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **328904** Seq No: **10957688**
Analysis Date / Time: **Jan 13 2022 6:42PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1´-Biphenyl	BRL	4.1	10	0		0	50	150				
2,4,5-Trichlorophenol	BRL	3.9	25	0		0	48	124				
2,4,6-Trichlorophenol	BRL	3.4	10	0		0	56.1	132				
2,4-Dichlorophenol	BRL	3.6	10	0		0	53.8	119				
2,4-Dimethylphenol	BRL	3.8	10	0		0	50	120				
2,4-Dinitrophenol	BRL	8.8	25	0		0	1	172.9				
2,4-Dinitrotoluene	87.75	6.0	10	100.0		87.8	58.4	129				
2,6-Dinitrotoluene	BRL	5.3	10	0		0	74.9	140				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 328904

Sample ID: **LCS-328904** Client ID: Units: **ug/L** Prep Date: **01/13/2022** Run No: **475088**
SampleType: **LCS** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **328904** Seq No: **10957688**
Analysis Date / Time: **Jan 13 2022 6:42PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2-Chloronaphthalene	BRL	3.0	10	0		0	64.5	113.5				
2-Chlorophenol	78.81	2.0	10	100.0		78.8	52.8	120				
2-Methylnaphthalene	BRL	3.0	10	0		0	50	150				
2-Methylphenol	BRL	3.1	10	0		0	61	120				
2-Nitroaniline	BRL	3.6	25	0		0	50	150				
2-Nitrophenol	BRL	2.5	10	0		0	45	166.7				
3,3´-Dichlorobenzidine	BRL	3.7	10	0		0	23.5	135				
3-Nitroaniline	BRL	4.3	25	0		0	50	150				
4,6-Dinitro-2-methylphenol	BRL	14	25	0		0	53	130				
4-Bromophenyl phenyl ether	BRL	3.9	10	0		0	77.7	140				
4-Chloro-3-methylphenol	83.55	4.0	10	100.0		83.6	60.7	122				
4-Chloroaniline	BRL	4.9	10	0		0	50	150				
4-Chlorophenyl phenyl ether	BRL	3.0	10	0		0	38.4	144.7				
4-Methylphenol	BRL	3.3	10	0		0	55.5	128				
4-Nitroaniline	BRL	5.1	25	0		0	50	150				
4-Nitrophenol	35.34	5.8	25	100.0		35.3	20	120				
Acenaphthene	82.51	2.5	10	100.0		82.5	60	128				
Acenaphthylene	BRL	2.7	10	0		0	77.6	137				
Acetophenone	BRL	4.0	10	0		0	50	150				
Anthracene	BRL	2.9	10	0		0	72.1	129				
Atrazine	BRL	5.8	10	0		0	50	150				
Benz(a)anthracene	BRL	2.8	10	0		0	73.6	134				
Benzaldehyde	BRL	6.8	10	0		0	10	150				
Benzo(a)pyrene	BRL	3.5	10	0		0	69.2	139				
Benzo(b)fluoranthene	BRL	3.8	10	0		0	67.2	137				
Benzo(g,h,i)perylene	BRL	4.2	10	0		0	57	120				
Benzo(k)fluoranthene	BRL	3.6	10	0		0	71	120				
Bis(2-chloroethoxy)methane	BRL	2.6	10	0		0	68.8	123				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 328904

Sample ID: **LCS-328904** Client ID: Units: **ug/L** Prep Date: **01/13/2022** Run No: **475088**
SampleType: **LCS** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **328904** Seq No: **10957688**
Analysis Date / Time: **Jan 13 2022 6:42PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bis(2-chloroethyl)ether	BRL	2.4	10	0		0	66.7	123				
Bis(2-chloroisopropyl)ether	BRL	3.0	10	0		0	47.9	118				
Bis(2-ethylhexyl)phthalate	BRL	4.4	10	0		0	77.9	136				
Butyl benzyl phthalate	BRL	3.4	10	0		0	1	139.9				
Caprolactam	BRL	5.0	10	0		0	11.6	130				
Carbazole	BRL	3.3	10	0		0	50	150				
Chrysene	BRL	2.7	10	0		0	65.8	135				
Di-n-butyl phthalate	BRL	3.3	10	0		0	77.7	135				
Di-n-octyl phthalate	BRL	9.3	10	0		0	69.7	135				
Dibenz(a,h)anthracene	BRL	4.5	10	0		0	72.5	136				
Dibenzofuran	BRL	2.7	10	0		0	50	150				
Diethyl phthalate	BRL	3.3	10	0		0	68	134				
Dimethyl phthalate	BRL	2.8	10	0		0	71.6	137				
Fluoranthene	BRL	3.0	10	0		0	69.7	135				
Fluorene	BRL	2.7	10	0		0	67.2	125				
Hexachlorobenzene	BRL	3.9	10	0		0	69.7	135				
Hexachlorobutadiene	BRL	4.2	10	0		0	48.5	130				
Hexachlorocyclopentadiene	BRL	8.4	10	0		0	1	150				
Hexachloroethane	BRL	3.1	10	0		0	55	120				
Indeno(1,2,3-cd)pyrene	BRL	4.2	10	0		0	52	120				
Isophorone	BRL	3.5	10	0		0	46.6	180.2				
N-Nitrosodi-n-propylamine	102.4	2.5	10	100.0		102	60.1	130				
N-Nitrosodiphenylamine	BRL	2.4	10	0		0	42.9	127				
Naphthalene	BRL	2.1	10	0		0	68.7	120				
Nitrobenzene	BRL	2.5	10	0		0	73.6	129				
Pentachlorophenol	47.62	6.4	25	100.0		47.6	47	126				
Phenanthrene	BRL	2.9	10	0		0	68	120				
Phenol	43.21	2.9	10	100.0		43.2	21.1	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 328904

Sample ID: **LCS-328904** Client ID: Units: **ug/L** Prep Date: **01/13/2022** Run No: **475088**
SampleType: **LCS** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **328904** Seq No: **10957688**
Analysis Date / Time: **Jan 13 2022 6:42PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Pyrene	83.89	2.9	10	100.0		83.9	62.9	135				
Surr: 2,4,6-Tribromophenol	73.21	0	0	100.0		73.2	19.5	120				
Surr: 2-Fluorobiphenyl	44.22	0	0	50.00		88.4	45	121				
Surr: 2-Fluorophenol	54.79	0	0	100.0		54.8	28.2	120				
Surr: 4-Terphenyl-d14	44.47	0	0	50.00		88.9	44	120				
Surr: Nitrobenzene-d5	49.62	0	0	50.00		99.2	46	135				
Surr: Phenol-d5	44.49	0	0	100.0		44.5	41	123				

Sample ID: **2201A74-006BMS** Client ID: Units: **ug/L** Prep Date: **01/13/2022** Run No: **475088**
SampleType: **MS** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **328904** Seq No: **10957690**
Analysis Date / Time: **Jan 13 2022 7:38PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1´-Biphenyl	BRL	4.1	10	0		0	50	150				
2,4,5-Trichlorophenol	BRL	3.9	25	0		0	46.2	120				
2,4,6-Trichlorophenol	BRL	3.4	10	0		0	47.2	120				
2,4-Dichlorophenol	BRL	3.6	10	0		0	40.4	120				
2,4-Dimethylphenol	BRL	3.8	10	0		0	40.1	120				
2,4-Dinitrophenol	BRL	8.8	25	0		0	50	150				
2,4-Dinitrotoluene	114.3	6.0	10	100.0		114	45.1	120				
2,6-Dinitrotoluene	BRL	5.3	10	0		0	50.6	130				
2-Chloronaphthalene	BRL	3.0	10	0		0	50	150				
2-Chlorophenol	84.10	2.0	10	100.0		84.1	41.7	120				
2-Methylnaphthalene	BRL	3.0	10	0		0	50	150				
2-Methylphenol	BRL	3.1	10	0		0	47.9	120				
2-Nitroaniline	BRL	3.6	25	0		0	50	150				
2-Nitrophenol	BRL	2.5	10	0		0	50	150				
3,3´-Dichlorobenzidine	BRL	3.7	10	0		0	23	116				
3-Nitroaniline	BRL	4.3	25	0		0	50	150				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 328904

Sample ID: **2201A74-006BMS** Client ID: Units: **ug/L** Prep Date: **01/13/2022** Run No: **475088**
SampleType: **MS** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **328904** Seq No: **10957690**
Analysis Date / Time: **Jan 13 2022 7:38PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,6-Dinitro-2-methylphenol	BRL	14	25	0		0	50	150				
4-Bromophenyl phenyl ether	BRL	3.9	10	0		0	54.9	132				
4-Chloro-3-methylphenol	99.97	4.0	10	100.0		100.0	40	120				
4-Chloroaniline	BRL	4.9	10	0		0	50	150				
4-Chlorophenyl phenyl ether	BRL	3.0	10	0		0	50	150				
4-Methylphenol	BRL	3.3	10	0		0	50	120				
4-Nitroaniline	BRL	5.1	25	0		0	50	150				
4-Nitrophenol	50.65	5.8	25	100.0		50.6	23	120				
Acenaphthene	102.9	2.5	10	100.0		103	44.4	118				
Acenaphthylene	BRL	2.7	10	0		0	61.7	123				
Acetophenone	BRL	4.0	10	0		0	50	150				
Anthracene	BRL	2.9	10	0		0	56	117				
Atrazine	BRL	5.8	10	0		0	50	150				
Benz(a)anthracene	BRL	2.8	10	0		0	58.2	122				
Benzaldehyde	BRL	6.8	10	0		0	50	150				
Benzo(a)pyrene	BRL	3.5	10	0		0	52.1	134				
Benzo(b)fluoranthene	BRL	3.8	10	0		0	50.6	130				
Benzo(g,h,i)perylene	BRL	4.2	10	0		0	50	150				
Benzo(k)fluoranthene	BRL	3.6	10	0		0	50	150				
Bis(2-chloroethoxy)methane	BRL	2.6	10	0		0	50	120				
Bis(2-chloroethyl)ether	BRL	2.4	10	0		0	50.6	120				
Bis(2-chloroisopropyl)ether	BRL	3.0	10	0		0	48.6	119				
Bis(2-ethylhexyl)phthalate	BRL	4.4	10	0		0	60.4	131				
Butyl benzyl phthalate	BRL	3.4	10	0		0	50	150				
Caprolactam	BRL	5.0	10	0		0	11.6	130				
Carbazole	BRL	3.3	10	0		0	50	150				
Chrysene	BRL	2.7	10	0		0	52.7	121				
Di-n-butyl phthalate	BRL	3.3	10	0		0	52.3	129				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 328904

Sample ID: **2201A74-006BMS** Client ID: Units: **ug/L** Prep Date: **01/13/2022** Run No: **475088**
SampleType: **MS** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **328904** Seq No: **10957690**
Analysis Date / Time: **Jan 13 2022 7:38PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Di-n-octyl phthalate	BRL	9.3	10	0		0	63.8	129				
Dibenz(a,h)anthracene	BRL	4.5	10	0		0	52.9	131				
Dibenzofuran	BRL	2.7	10	0		0	50	150				
Diethyl phthalate	BRL	3.3	10	0		0	50.1	123				
Dimethyl phthalate	BRL	2.8	10	0		0	59.2	121				
Fluoranthene	BRL	3.0	10	0		0	57.7	129				
Fluorene	BRL	2.7	10	0		0	51.1	118				
Hexachlorobenzene	BRL	3.9	10	0		0	52.9	129				
Hexachlorobutadiene	BRL	4.2	10	0		0	45	127				
Hexachlorocyclopentadiene	BRL	8.4	10	0		0	50	150				
Hexachloroethane	BRL	3.1	10	0		0	50	150				
Indeno(1,2,3-cd)pyrene	BRL	4.2	10	0		0	50	150				
Isophorone	BRL	3.5	10	0		0	50	150				
N-Nitrosodi-n-propylamine	115.0	2.5	10	100.0		115	51	120				
N-Nitrosodiphenylamine	BRL	2.4	10	0		0	44.3	120				
Naphthalene	BRL	2.1	10	0		0	50.2	120				
Nitrobenzene	BRL	2.5	10	0		0	52	124				
Pentachlorophenol	64.65	6.4	25	100.0		64.6	41.1	125				
Phenanthrene	BRL	2.9	10	0		0	50	150				
Phenol	48.66	2.9	10	100.0		48.7	22.1	120				
Pyrene	111.0	2.9	10	100.0		111	50.4	118				
Surr: 2,4,6-Tribromophenol	97.45	0	0	100.0		97.4	19.5	120				
Surr: 2-Fluorobiphenyl	52.09	0	0	50.00		104	45	121				
Surr: 2-Fluorophenol	57.13	0	0	100.0		57.1	28.2	120				
Surr: 4-Terphenyl-d14	58.34	0	0	50.00		117	44	120				
Surr: Nitrobenzene-d5	55.96	0	0	50.00		112	46	135				
Surr: Phenol-d5	49.73	0	0	100.0		49.7	41	123				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 328904

Sample ID: **2201A74-006BMSD** Client ID: Units: **ug/L** Prep Date: **01/13/2022** Run No: **475088**
SampleType: **MSD** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **328904** Seq No: **10957691**
Analysis Date / Time: **Jan 13 2022 8:05PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1´-Biphenyl	BRL	4.1	10	0		0	50	150	0	0	30	
2,4,5-Trichlorophenol	BRL	3.9	25	0		0	46.2	120	0	0	23.7	
2,4,6-Trichlorophenol	BRL	3.4	10	0		0	47.2	120	0	0	24.8	
2,4-Dichlorophenol	BRL	3.6	10	0		0	40.4	120	0	0	30.4	
2,4-Dimethylphenol	BRL	3.8	10	0		0	40.1	120	0	0	21.4	
2,4-Dinitrophenol	BRL	8.8	25	0		0	50	150	0	0	30	
2,4-Dinitrotoluene	141.0	6.0	10	100.0		141	45.1	120	114.3	20.9	29.5	S
2,6-Dinitrotoluene	BRL	5.3	10	0		0	50.6	130	0	0	21.2	
2-Chloronaphthalene	BRL	3.0	10	0		0	50	150	0	0	30	
2-Chlorophenol	112.7	2.0	10	100.0		113	41.7	120	84.10	29.0	33.8	
2-Methylnaphthalene	BRL	3.0	10	0		0	50	150	0	0	30	
2-Methylphenol	BRL	3.1	10	0		0	47.9	120	0	0	24.1	
2-Nitroaniline	BRL	3.6	25	0		0	50	150	0	0	30	
2-Nitrophenol	BRL	2.5	10	0		0	50	150	0	0	30	
3,3´-Dichlorobenzidine	BRL	3.7	10	0		0	23	116	0	0	26.3	
3-Nitroaniline	BRL	4.3	25	0		0	50	150	0	0	30	
4,6-Dinitro-2-methylphenol	BRL	14	25	0		0	50	150	0	0	30	
4-Bromophenyl phenyl ether	BRL	3.9	10	0		0	54.9	132	0	0	20.2	
4-Chloro-3-methylphenol	124.1	4.0	10	100.0		124	40	120	99.97	21.5	35	S
4-Chloroaniline	BRL	4.9	10	0		0	50	150	0	0	30	
4-Chlorophenyl phenyl ether	BRL	3.0	10	0		0	50	150	0	0	30	
4-Methylphenol	BRL	3.3	10	0		0	50	120	0	0	33.2	
4-Nitroaniline	BRL	5.1	25	0		0	50	150	0	0	30	
4-Nitrophenol	62.14	5.8	25	100.0		62.1	23	120	50.65	20.4	54.9	
Acenaphthene	130.6	2.5	10	100.0		131	44.4	118	102.9	23.8	27.9	S
Acenaphthylene	BRL	2.7	10	0		0	61.7	123	0	0	20.5	
Acetophenone	BRL	4.0	10	0		0	50	150	0	0	30	
Anthracene	BRL	2.9	10	0		0	56	117	0	0	20.8	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 328904

Sample ID: **2201A74-006BMSD** Client ID: Units: **ug/L** Prep Date: **01/13/2022** Run No: **475088**
SampleType: **MSD** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **328904** Seq No: **10957691**
Analysis Date / Time: **Jan 13 2022 8:05PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Atrazine	BRL	5.8	10	0		0	50	150	0	0	30	
Benz(a)anthracene	BRL	2.8	10	0		0	58.2	122	0	0	19.5	
Benzaldehyde	BRL	6.8	10	0		0	50	150	0	0	30	
Benzo(a)pyrene	BRL	3.5	10	0		0	52.1	134	0	0	28.1	
Benzo(b)fluoranthene	BRL	3.8	10	0		0	50.6	130	0	0	25.4	
Benzo(g,h,i)perylene	BRL	4.2	10	0		0	50	150	0	0	30	
Benzo(k)fluoranthene	BRL	3.6	10	0		0	50	150	0	0	30	
Bis(2-chloroethoxy)methane	BRL	2.6	10	0		0	50	120	0	0	21.5	
Bis(2-chloroethyl)ether	BRL	2.4	10	0		0	50.6	120	0	0	24.5	
Bis(2-chloroisopropyl)ether	BRL	3.0	10	0		0	48.6	119	0	0	30.3	
Bis(2-ethylhexyl)phthalate	BRL	4.4	10	0		0	60.4	131	0	0	18.9	
Butyl benzyl phthalate	BRL	3.4	10	0		0	50	150	0	0	30	
Caprolactam	BRL	5.0	10	0		0	11.6	130	0	0	30	
Carbazole	BRL	3.3	10	0		0	50	150	0	0	30	
Chrysene	BRL	2.7	10	0		0	52.7	121	0	0	18.7	
Di-n-butyl phthalate	BRL	3.3	10	0		0	52.3	129	0	0	19.8	
Di-n-octyl phthalate	BRL	9.3	10	0		0	63.8	129	0	0	21	
Dibenz(a,h)anthracene	BRL	4.5	10	0		0	52.9	131	0	0	23.1	
Dibenzofuran	BRL	2.7	10	0		0	50	150	0	0	30	
Diethyl phthalate	BRL	3.3	10	0		0	50.1	123	0	0	19.7	
Dimethyl phthalate	BRL	2.8	10	0		0	59.2	121	0	0	19.6	
Fluoranthene	BRL	3.0	10	0		0	57.7	129	0	0	19.4	
Fluorene	BRL	2.7	10	0		0	51.1	118	0	0	18.4	
Hexachlorobenzene	BRL	3.9	10	0		0	52.9	129	0	0	20.1	
Hexachlorobutadiene	BRL	4.2	10	0		0	45	127	0	0	26.1	
Hexachlorocyclopentadiene	BRL	8.4	10	0		0	50	150	0	0	30	
Hexachloroethane	BRL	3.1	10	0		0	50	150	0	0	30	
Indeno(1,2,3-cd)pyrene	BRL	4.2	10	0		0	50	150	0	0	30	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 328904

Sample ID: **2201A74-006BMSD** Client ID: Units: **ug/L** Prep Date: **01/13/2022** Run No: **475088**
SampleType: **MSD** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **328904** Seq No: **10957691**
Analysis Date / Time: **Jan 13 2022 8:05PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Isophorone	BRL	3.5	10	0		0	50	150	0	0	30	
N-Nitrosodi-n-propylamine	147.7	2.5	10	100.0		148	51	120	115.0	24.9	29.5	S
N-Nitrosodiphenylamine	BRL	2.4	10	0		0	44.3	120	0	0	43.9	
Naphthalene	BRL	2.1	10	0		0	50.2	120	0	0	21.6	
Nitrobenzene	BRL	2.5	10	0		0	52	124	0	0	23	
Pentachlorophenol	79.64	6.4	25	100.0		79.6	41.1	125	64.65	20.8	39.4	
Phenanthrene	BRL	2.9	10	0		0	50	150	0	0	30	
Phenol	59.47	2.9	10	100.0		59.5	22.1	120	48.66	20.0	48.2	
Pyrene	134.0	2.9	10	100.0		134	50.4	118	111.0	18.8	27.2	S
Surr: 2,4,6-Tribromophenol	119.9	0	0	100.0		120	19.5	120	97.45	0	0	
Surr: 2-Fluorobiphenyl	65.31	0	0	50.00		131	45	121	52.09	0	0	S
Surr: 2-Fluorophenol	76.11	0	0	100.0		76.1	28.2	120	57.13	0	0	
Surr: 4-Terphenyl-d14	70.28	0	0	50.00		141	44	120	58.34	0	0	S
Surr: Nitrobenzene-d5	68.08	0	0	50.00		136	46	135	55.96	0	0	S
Surr: Phenol-d5	60.53	0	0	100.0		60.5	41	123	49.73	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 329049

Sample ID: **MB-329049** Client ID: Units: **mg/L** Prep Date: **01/17/2022** Run No: **475402**
SampleType: **MBLK** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **329049** Seq No: **10966590**
Analysis Date / Time: **Jan 18 2022 12:19PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.0098	0.0100									
Barium	BRL	0.0048	0.0200									
Cadmium	BRL	0.0016	0.0050									
Calcium	BRL	0.0513	0.100									
Chromium	BRL	0.0067	0.0100									
Lead	BRL	0.0039	0.0100									
Magnesium	BRL	0.0295	0.100									
Selenium	BRL	0.0089	0.0200									
Silver	BRL	0.0018	0.0100									

Sample ID: **LCS-329049** Client ID: Units: **mg/L** Prep Date: **01/17/2022** Run No: **475402**
SampleType: **LCS** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **329049** Seq No: **10966591**
Analysis Date / Time: **Jan 18 2022 12:22PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.022	0.0098	0.0500	1.000		102	80	120				
Barium	1.022	0.0048	0.0200	1.000		102	80	120				
Cadmium	1.005	0.0016	0.0050	1.000		101	80	120				
Calcium	10.22	0.0513	0.100	10.00		102	80	120				
Chromium	1.016	0.0067	0.0100	1.000		102	80	120				
Lead	1.033	0.0039	0.0100	1.000		103	80	120				
Magnesium	10.17	0.0295	0.100	10.00		102	80	120				
Selenium	1.020	0.0089	0.0200	1.000		102	80	120				
Silver	0.09997	0.0018	0.0100	0.1000		100.0	80	120				

Sample ID: **2201B31-001BMS** Client ID: Units: **mg/L** Prep Date: **01/17/2022** Run No: **475402**
SampleType: **MS** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **329049** Seq No: **10966597**
Analysis Date / Time: **Jan 18 2022 12:35PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.024	0.0098	0.0500	1.000		102	75	125				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 329049

Sample ID: **2201B31-001BMS** Client ID:
SampleType: **MS** TestCode: **METALS, TOTAL** **SW6010D**
Units: **mg/L** Prep Date: **01/17/2022** Run No: **475402**
BatchID: **329049** Seq No: **10966597**
Analysis Date / Time: **Jan 18 2022 12:35PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Barium	1.073	0.0048	0.0200	1.000	0.02343	105	75	125				
Cadmium	1.028	0.0016	0.0050	1.000		103	75	125				
Calcium	12.97	0.0513	0.100	10.00	2.464	105	75	125				
Chromium	1.043	0.0067	0.0100	1.000		104	75	125				
Lead	1.062	0.0039	0.0100	1.000		106	75	125				
Magnesium	11.71	0.0295	0.100	10.00	1.300	104	75	125				
Selenium	1.053	0.0089	0.0200	1.000	0.01177	104	75	125				
Silver	0.1018	0.0018	0.0100	0.1000		102	75	125				

Sample ID: **2201B31-001BMSD** Client ID:
SampleType: **MSD** TestCode: **METALS, TOTAL** **SW6010D**
Units: **mg/L** Prep Date: **01/17/2022** Run No: **475402**
BatchID: **329049** Seq No: **10966598**
Analysis Date / Time: **Jan 18 2022 12:38PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.042	0.0098	0.0500	1.000		104	75	125	1.024	1.74	20	
Barium	1.068	0.0048	0.0200	1.000	0.02343	104	75	125	1.073	0.429	20	
Cadmium	1.027	0.0016	0.0050	1.000		103	75	125	1.028	0.159	20	
Calcium	12.88	0.0513	0.100	10.00	2.464	104	75	125	12.97	0.694	20	
Chromium	1.041	0.0067	0.0100	1.000		104	75	125	1.043	0.156	20	
Lead	1.073	0.0039	0.0100	1.000		107	75	125	1.062	1.04	20	
Magnesium	11.66	0.0295	0.100	10.00	1.300	104	75	125	11.71	0.374	20	
Selenium	1.064	0.0089	0.0200	1.000	0.01177	105	75	125	1.053	1.05	20	
Silver	0.1016	0.0018	0.0100	0.1000		102	75	125	0.1018	0.236	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 329065

Sample ID: **MB-329065** Client ID: Units: **mg/L** Prep Date: **01/14/2022** Run No: **475141**
SampleType: **MBLK** TestCode: **Residue, Suspended (TSS) by SM2540D** BatchID: **329065** Seq No: **10962013**
Analysis Date / Time: **Jan 14 2022 2:18PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Suspended (TSS)	BRL	1.0	5.0									

Sample ID: **LCS-329065** Client ID: Units: **mg/L** Prep Date: **01/14/2022** Run No: **475141**
SampleType: **LCS** TestCode: **Residue, Suspended (TSS) by SM2540D** BatchID: **329065** Seq No: **10962014**
Analysis Date / Time: **Jan 14 2022 2:18PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Suspended (TSS)	178.0	4.0	20.0	200.3		88.9	80	120				

Sample ID: **2201915-002BDUP** Client ID: Units: **mg/L** Prep Date: **01/14/2022** Run No: **475141**
SampleType: **DUP** TestCode: **Residue, Suspended (TSS) by SM2540D** BatchID: **329065** Seq No: **10962016**
Analysis Date / Time: **Jan 14 2022 2:18PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Suspended (TSS)	3.000	1.0	5.0						3.000	0	10	J

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 329166

Sample ID: **MB-329166**	Client ID:					Units: **mg/L**	Prep Date: **01/17/2022**		Run No: **475250**		
SampleType: **MBLK**	TestCode: **Mercury, Total** **SW7470A**					BatchID: **329166**			Seq No: **10963439**		
						Analysis Date / Time: **Jan 17 2022 5:33PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00015	0.00016									

Sample ID: **LCS-329166**	Client ID:					Units: **mg/L**	Prep Date: **01/17/2022**		Run No: **475250**		
SampleType: **LCS**	TestCode: **Mercury, Total** **SW7470A**					BatchID: **329166**			Seq No: **10963440**		
						Analysis Date / Time: **Jan 17 2022 5:37PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003729	0.00015	0.00016	0.0040		93.2	80	120				

Sample ID: **2201A25-001DMS**	Client ID:					Units: **mg/L**	Prep Date: **01/17/2022**		Run No: **475250**		
SampleType: **MS**	TestCode: **Mercury, Total** **SW7470A**					BatchID: **329166**			Seq No: **10963444**		
						Analysis Date / Time: **Jan 17 2022 5:53PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004031	0.00015	0.00016	0.0040		101	75	125				

Sample ID: **2201A25-001DMSD**	Client ID:					Units: **mg/L**	Prep Date: **01/17/2022**		Run No: **475250**		
SampleType: **MSD**	TestCode: **Mercury, Total** **SW7470A**					BatchID: **329166**			Seq No: **10963445**		
						Analysis Date / Time: **Jan 17 2022 5:57PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003716	0.00015	0.00016	0.0040		92.9	75	125	0.004031	8.13	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 329177

Sample ID: **MB-329177** Client ID: Units: **mg/Kg** Prep Date: **01/17/2022** Run No: **475345**
SampleType: **MBLK** TestCode: **Sulfide, Reactive** **SW846-7.3** BatchID: **329177** Seq No: **10964696**
Analysis Date / Time: **Jan 17 2022 5:00PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide, Reactive	BRL	100	100									

Sample ID: **LCS-329177** Client ID: Units: **mg/Kg** Prep Date: **01/17/2022** Run No: **475345**
SampleType: **LCS** TestCode: **Sulfide, Reactive** **SW846-7.3** BatchID: **329177** Seq No: **10964697**
Analysis Date / Time: **Jan 17 2022 5:00PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide, Reactive	648.0	100	100	648.0		100	65.5	125				

Sample ID: **2201A62-001CMS** Client ID: Units: **mg/Kg** Prep Date: **01/17/2022** Run No: **475345**
SampleType: **MS** TestCode: **Sulfide, Reactive** **SW846-7.3** BatchID: **329177** Seq No: **10964706**
Analysis Date / Time: **Jan 17 2022 5:00PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide, Reactive	727.3	100	100	648.0		112	49.3	140				

Sample ID: **2201A62-001CMSD** Client ID: Units: **mg/Kg** Prep Date: **01/17/2022** Run No: **475345**
SampleType: **MSD** TestCode: **Sulfide, Reactive** **SW846-7.3** BatchID: **329177** Seq No: **10964708**
Analysis Date / Time: **Jan 17 2022 5:00PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide, Reactive	729.4	100	100	648.0		113	49.3	140	727.3	0.294	25.8	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 329202

Sample ID: **MB-329202** Client ID: Units: **ug/L** Prep Date: **01/17/2022** Run No: **475281**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **329202** Seq No: **10963298**
Analysis Date / Time: **Jan 17 2022 10:18AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	0.26	5.0									
1,1,2,2-Tetrachloroethane	BRL	0.25	5.0									
1,1,2-Trichloroethane	BRL	0.23	5.0									
1,1-Dichloroethane	BRL	0.29	5.0									
1,1-Dichloroethene	BRL	0.32	5.0									
1,2,4-Trichlorobenzene	BRL	0.68	5.0									
1,2-Dibromo-3-chloropropane	BRL	0.61	5.0									
1,2-Dibromoethane	BRL	0.20	5.0									
1,2-Dichlorobenzene	BRL	0.22	5.0									
1,2-Dichloroethane	BRL	0.19	5.0									
1,2-Dichloropropane	BRL	0.23	5.0									
1,3-Dichlorobenzene	BRL	0.23	5.0									
1,4-Dichlorobenzene	BRL	0.57	5.0									
2-Butanone	BRL	5.0	50									
2-Hexanone	BRL	2.7	10									
4-Methyl-2-pentanone	BRL	2.7	10									
Acetone	BRL	8.3	50									
Benzene	BRL	0.24	5.0									
Bromodichloromethane	BRL	0.26	5.0									
Bromoform	BRL	0.48	5.0									
Bromomethane	BRL	0.73	5.0									
Carbon disulfide	BRL	0.98	5.0									
Carbon tetrachloride	BRL	0.28	5.0									
Chlorobenzene	BRL	0.47	5.0									
Chloroethane	BRL	0.45	10									
Chloroform	BRL	0.23	5.0									
Chloromethane	BRL	0.44	10									
cis-1,2-Dichloroethene	BRL	0.50	5.0									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 329202

Sample ID: **MB-329202** Client ID: Units: **ug/L** Prep Date: **01/17/2022** Run No: **475281**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **329202** Seq No: **10963298**
Analysis Date / Time: **Jan 17 2022 10:18AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,3-Dichloropropene	BRL	0.30	5.0									
Cyclohexane	BRL	1.00	5.0									
Dibromochloromethane	BRL	0.40	5.0									
Dichlorodifluoromethane	BRL	0.47	10									
Ethylbenzene	BRL	0.24	5.0									
Freon-113	BRL	0.33	10									
Isopropylbenzene	BRL	0.29	5.0									
m,p-Xylene	BRL	0.51	5.0									
Methyl acetate	BRL	0.57	5.0									
Methyl tert-butyl ether	BRL	0.24	5.0									
Methylcyclohexane	BRL	0.24	5.0									
Methylene chloride	BRL	4.8	5.0									
o-Xylene	BRL	0.27	5.0									
Styrene	BRL	0.29	5.0									
Tetrachloroethene	BRL	0.30	5.0									
Toluene	BRL	0.66	5.0									
trans-1,2-Dichloroethene	BRL	0.29	5.0									
trans-1,3-Dichloropropene	BRL	0.81	5.0									
Trichloroethene	BRL	0.21	5.0									
Trichlorofluoromethane	BRL	0.43	5.0									
Vinyl chloride	BRL	0.44	2.0									
Surr: 4-Bromofluorobenzene	50.27	0	0	50.00		101	74.9	127				
Surr: Dibromofluoromethane	50.84	0	0	50.00		102	78.9	121				
Surr: Toluene-d8	50.52	0	0	50.00		101	81.5	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 329202

Sample ID: **LCS-329202** Client ID: Units: **ug/L** Prep Date: **01/17/2022** Run No: **475355**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **329202** Seq No: **10964892**
Analysis Date / Time: **Jan 18 2022 2:48PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	25.39	0.26	5.0	0		0	70.8	136				
1,1,2,2-Tetrachloroethane	23.87	0.25	5.0	0		0	67.8	126				
1,1,2-Trichloroethane	24.11	0.23	5.0	0		0	68.5	132				
1,1-Dichloroethane	24.41	0.29	5.0	0		0	62.5	123				
1,1-Dichloroethene	23.62	0.32	5.0	20.00		118	67.3	134				
1,2,4-Trichlorobenzene	22.53	0.68	5.0	0		0	66.1	131				
1,2-Dibromo-3-chloropropane	25.27	0.61	5.0	0		0	69.4	122				
1,2-Dibromoethane	24.08	0.20	5.0	0		0	71.4	130				
1,2-Dichlorobenzene	22.77	0.22	5.0	0		0	70	122				
1,2-Dichloroethane	26.62	0.19	5.0	0		0	64.8	140				
1,2-Dichloropropane	23.28	0.23	5.0	0		0	69.8	123				
1,3-Dichlorobenzene	22.79	0.23	5.0	0		0	77.1	130				
1,4-Dichlorobenzene	22.88	0.57	5.0	0		0	70	124				
2-Butanone	42.40	5.0	50	0		0	50	150				J
2-Hexanone	53.29	2.7	10	0		0	50	150				
4-Methyl-2-pentanone	50.24	2.7	10	0		0	50	150				
Acetone	44.41	8.3	50	0		0	50	150				J
Benzene	23.71	0.24	5.0	20.00		119	78.6	124				
Bromodichloromethane	24.87	0.26	5.0	0		0	68.1	140				
Bromoform	21.18	0.48	5.0	0		0	62.3	134				
Bromomethane	22.67	0.73	5.0	0		0	14	186				
Carbon disulfide	47.87	0.98	5.0	0		0	50	150				
Carbon tetrachloride	25.49	0.28	5.0	0		0	63.1	128				
Chlorobenzene	23.63	0.47	5.0	20.00		118	78.9	127				
Chloroethane	20.82	0.45	10	0		0	38	162				
Chloroform	24.72	0.23	5.0	0		0	67.9	132				
Chloromethane	20.25	0.44	10	0		0	1	204				
cis-1,2-Dichloroethene	22.55	0.50	5.0	0		0	67.2	128				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 329202

Sample ID: **LCS-329202** Client ID: Units: **ug/L** Prep Date: **01/17/2022** Run No: **475355**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **329202** Seq No: **10964892**
Analysis Date / Time: **Jan 18 2022 2:48PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,3-Dichloropropene	23.59	0.30	5.0	0		0	66.3	126				
Cyclohexane	25.51	1.00	5.0	0		0	50	150				
Dibromochloromethane	23.07	0.40	5.0	0		0	64.9	133				
Dichlorodifluoromethane	18.07	0.47	10	0		0	40	160				
Ethylbenzene	25.31	0.24	5.0	0		0	78.6	125				
Freon-113	22.98	0.33	10	0		0	25	150				
Isopropylbenzene	24.10	0.29	5.0	0		0	68.3	126				
m,p-Xylene	51.20	0.51	5.0	0		0	78	126				
Methyl acetate	25.23	0.57	5.0	0		0	50	150				
Methyl tert-butyl ether	23.17	0.24	5.0	0		0	71.1	131				
Methylcyclohexane	24.19	0.24	5.0	0		0	50	150				
Methylene chloride	21.25	4.8	5.0	0		0	66	121				
o-Xylene	26.08	0.27	5.0	0		0	77.1	124				
Styrene	25.54	0.29	5.0	0		0	68.3	138				
Tetrachloroethene	23.88	0.30	5.0	0		0	67.4	139				
Toluene	23.44	0.66	5.0	20.00		117	77.7	125				
trans-1,2-Dichloroethene	23.39	0.29	5.0	0		0	68.3	124				
trans-1,3-Dichloropropene	23.99	0.81	5.0	0		0	67.7	126				
Trichloroethene	23.58	0.21	5.0	20.00		118	77	130				
Trichlorofluoromethane	22.52	0.43	5.0	0		0	48	152				
Vinyl chloride	20.89	0.44	2.0	0		0	65.3	130				
Surr: 4-Bromofluorobenzene	49.54	0	0	50.00		99.1	74.9	127				
Surr: Dibromofluoromethane	48.98	0	0	50.00		98.0	78.9	121				
Surr: Toluene-d8	47.13	0	0	50.00		94.3	81.5	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 329202

Sample ID: **2201G62-003AMS** Client ID: Units: **ug/L** Prep Date: **01/17/2022** Run No: **475355**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **329202** Seq No: **10972522**
Analysis Date / Time: **Jan 20 2022 1:29PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	22.72	0.26	5.0	0		0	71	140				
1,1,2,2-Tetrachloroethane	23.21	0.25	5.0	0		0	68.4	135				
1,1,2-Trichloroethane	21.77	0.23	5.0	0		0	72.8	134				
1,1-Dichloroethane	21.89	0.29	5.0	0		0	68	137				
1,1-Dichloroethene	21.19	0.32	5.0	20.00		106	67.6	143				
1,2,4-Trichlorobenzene	20.84	0.68	5.0	0		0	60	138				
1,2-Dibromo-3-chloropropane	22.58	0.61	5.0	0		0	56.5	134				
1,2-Dibromoethane	22.12	0.20	5.0	0		0	74.7	132				
1,2-Dichlorobenzene	21.72	0.22	5.0	0		0	73.2	134				
1,2-Dichloroethane	22.72	0.19	5.0	0		0	72.1	135				
1,2-Dichloropropane	20.73	0.23	5.0	0		0	72	135				
1,3-Dichlorobenzene	21.16	0.23	5.0	0		0	73	134				
1,4-Dichlorobenzene	21.20	0.57	5.0	0		0	73	133				
2-Butanone	38.00	5.0	50	0		0	50	150				J
2-Hexanone	49.80	2.7	10	0		0	50	150				
4-Methyl-2-pentanone	45.16	2.7	10	0		0	50	150				
Acetone	33.30	8.3	50	0		0	50	150				J
Benzene	22.08	0.24	5.0	20.00		110	70.5	136				
Bromodichloromethane	22.35	0.26	5.0	0		0	71.8	135				
Bromoform	20.58	0.48	5.0	0		0	57.2	136				
Bromomethane	20.81	0.73	5.0	0		0	50	150				
Carbon disulfide	43.27	0.98	5.0	0		0	50	150				
Carbon tetrachloride	23.36	0.28	5.0	0		0	72.4	144				
Chlorobenzene	21.47	0.47	5.0	20.00		107	77.1	133				
Chloroethane	21.10	0.45	10	0		0	50	150				
Chloroform	24.68	0.23	5.0	0	2.740	0	71.7	134				
Chloromethane	19.01	0.44	10	0		0	50	150				
cis-1,2-Dichloroethene	21.93	0.50	5.0	0		0	71.4	136				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 329202

Sample ID: **2201G62-003AMS** Client ID: Units: **ug/L** Prep Date: **01/17/2022** Run No: **475355**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **329202** Seq No: **10972522**
Analysis Date / Time: **Jan 20 2022 1:29PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,3-Dichloropropene	21.44	0.30	5.0	0		0	68.3	131				
Cyclohexane	24.36	1.00	5.0	0		0	50	150				
Dibromochloromethane	23.03	0.40	5.0	0		0	67.5	136				
Dichlorodifluoromethane	17.43	0.47	10	0		0	50	150				
Ethylbenzene	23.09	0.24	5.0	0		0	70	134				
Freon-113	20.64	0.33	10	0		0	50	150				
Isopropylbenzene	24.13	0.29	5.0	0		0	72.3	136				
m,p-Xylene	46.53	0.51	5.0	0		0	66.3	138				
Methyl acetate	21.57	0.57	5.0	0		0	50	150				
Methyl tert-butyl ether	22.75	0.24	5.0	0		0	65.7	136				
Methylcyclohexane	22.93	0.24	5.0	0		0	50	150				
Methylene chloride	19.70	4.8	5.0	0		0	65.4	132				
o-Xylene	23.48	0.27	5.0	0		0	67.1	136				
Styrene	22.94	0.29	5.0	0		0	77.3	134				
Tetrachloroethene	27.10	0.30	5.0	0		0	72.9	141				
Toluene	21.63	0.66	5.0	20.00		108	66.4	140				
trans-1,2-Dichloroethene	21.49	0.29	5.0	0		0	69.7	138				
trans-1,3-Dichloropropene	22.16	0.81	5.0	0		0	65.2	130				
Trichloroethene	20.77	0.21	5.0	20.00		104	75.1	140				
Trichlorofluoromethane	22.18	0.43	5.0	0		0	50	150				
Vinyl chloride	20.65	0.44	2.0	0		0	60.7	145				
Surr: 4-Bromofluorobenzene	47.20	0	0	50.00		94.4	74.9	127				
Surr: Dibromofluoromethane	48.39	0	0	50.00		96.8	78.9	121				
Surr: Toluene-d8	47.57	0	0	50.00		95.1	81.5	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 329202

Sample ID: **2201G62-003AMSD** Client ID: Units: **ug/L** Prep Date: **01/17/2022** Run No: **475355**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **329202** Seq No: **10972523**
Analysis Date / Time: **Jan 20 2022 1:54PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	21.31	0.26	5.0	0		0	71	140	22.72	6.40	20	
1,1,2,2-Tetrachloroethane	22.67	0.25	5.0	0		0	68.4	135	23.21	2.35	20	
1,1,2-Trichloroethane	20.99	0.23	5.0	0		0	72.8	134	21.77	3.65	20	
1,1-Dichloroethane	20.69	0.29	5.0	0		0	68	137	21.89	5.64	20	
1,1-Dichloroethene	20.23	0.32	5.0	20.00		101	67.6	143	21.19	4.64	19.6	
1,2,4-Trichlorobenzene	20.45	0.68	5.0	0		0	60	138	20.84	1.89	21.7	
1,2-Dibromo-3-chloropropane	21.43	0.61	5.0	0		0	56.5	134	22.58	5.23	20	
1,2-Dibromoethane	21.58	0.20	5.0	0		0	74.7	132	22.12	2.47	20	
1,2-Dichlorobenzene	20.18	0.22	5.0	0		0	73.2	134	21.72	7.35	20	
1,2-Dichloroethane	22.07	0.19	5.0	0		0	72.1	135	22.72	2.90	20	
1,2-Dichloropropane	21.15	0.23	5.0	0		0	72	135	20.73	2.01	20	
1,3-Dichlorobenzene	19.64	0.23	5.0	0		0	73	134	21.16	7.45	20	
1,4-Dichlorobenzene	19.65	0.57	5.0	0		0	73	133	21.20	7.59	20	
2-Butanone	45.14	5.0	50	0		0	50	150	38.00	0	20	J
2-Hexanone	48.53	2.7	10	0		0	50	150	49.80	2.58	50	
4-Methyl-2-pentanone	48.21	2.7	10	0		0	50	150	45.16	6.53	50	
Acetone	43.49	8.3	50	0		0	50	150	33.30	0	50	J
Benzene	21.03	0.24	5.0	20.00		105	70.5	136	22.08	4.87	20	
Bromodichloromethane	21.37	0.26	5.0	0		0	71.8	135	22.35	4.48	20	
Bromoform	20.09	0.48	5.0	0		0	57.2	136	20.58	2.41	20	
Bromomethane	19.18	0.73	5.0	0		0	50	150	20.81	8.15	100	
Carbon disulfide	40.63	0.98	5.0	0		0	50	150	43.27	6.29	50	
Carbon tetrachloride	20.84	0.28	5.0	0		0	72.4	144	23.36	11.4	20	
Chlorobenzene	20.47	0.47	5.0	20.00		102	77.1	133	21.47	4.77	20	
Chloroethane	19.18	0.45	10	0		0	50	150	21.10	9.53	100	
Chloroform	23.50	0.23	5.0	0	2.740	0	71.7	134	24.68	4.90	20	
Chloromethane	19.29	0.44	10	0		0	50	150	19.01	1.46	100	
cis-1,2-Dichloroethene	20.41	0.50	5.0	0		0	71.4	136	21.93	7.18	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 329202

Sample ID: **2201G62-003AMSD** Client ID: Units: **ug/L** Prep Date: **01/17/2022** Run No: **475355**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **329202** Seq No: **10972523**
Analysis Date / Time: **Jan 20 2022 1:54PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,3-Dichloropropene	20.62	0.30	5.0	0		0	68.3	131	21.44	3.90	20	
Cyclohexane	22.40	1.00	5.0	0		0	50	150	24.36	8.38	50	
Dibromochloromethane	21.51	0.40	5.0	0		0	67.5	136	23.03	6.83	20	
Dichlorodifluoromethane	17.43	0.47	10	0		0	50	150	17.43	0	100	
Ethylbenzene	21.75	0.24	5.0	0		0	70	134	23.09	5.98	20	
Freon-113	19.90	0.33	10	0		0	50	150	20.64	3.65	50	
Isopropylbenzene	22.04	0.29	5.0	0		0	72.3	136	24.13	9.05	20	
m,p-Xylene	43.09	0.51	5.0	0		0	66.3	138	46.53	7.68	20	
Methyl acetate	20.09	0.57	5.0	0		0	50	150	21.57	7.11	50	
Methyl tert-butyl ether	21.63	0.24	5.0	0		0	65.7	136	22.75	5.05	17.3	
Methylcyclohexane	20.77	0.24	5.0	0		0	50	150	22.93	9.89	50	
Methylene chloride	19.33	4.8	5.0	0		0	65.4	132	19.70	1.90	20	
o-Xylene	22.03	0.27	5.0	0		0	67.1	136	23.48	6.37	20	
Styrene	22.03	0.29	5.0	0		0	77.3	134	22.94	4.05	20	
Tetrachloroethene	23.27	0.30	5.0	0		0	72.9	141	27.10	15.2	20	
Toluene	20.56	0.66	5.0	20.00		103	66.4	140	21.63	5.07	20	
trans-1,2-Dichloroethene	19.47	0.29	5.0	0		0	69.7	138	21.49	9.86	20	
trans-1,3-Dichloropropene	20.97	0.81	5.0	0		0	65.2	130	22.16	5.52	20	
Trichloroethene	20.04	0.21	5.0	20.00		100	75.1	140	20.77	3.58	20	
Trichlorofluoromethane	20.98	0.43	5.0	0		0	50	150	22.18	5.56	50	
Vinyl chloride	19.81	0.44	2.0	0		0	60.7	145	20.65	4.15	21.1	
Surr: 4-Bromofluorobenzene	47.46	0	0	50.00		94.9	74.9	127	47.20	0	0	
Surr: Dibromofluoromethane	48.09	0	0	50.00		96.2	78.9	121	48.39	0	0	
Surr: Toluene-d8	46.59	0	0	50.00		93.2	81.5	120	47.57	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 329202

Sample ID: **2201G62-003AMS** Client ID: Units: **ug/L** Prep Date: **01/17/2022** Run No: **475355**
SampleType: **MS1** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **329202** Seq No: **10972533**
Analysis Date / Time: **Jan 20 2022 1:29PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	22.72	0.26	5.0	20.00	0	114	64.1	145	0	0	0	
1,1,2,2-Tetrachloroethane	23.21	0.25	5.0	20.00	0	116	63.6	133	0	0	0	
1,1,2-Trichloroethane	21.77	0.23	5.0	20.00	0	109	71.9	136	0	0	0	
1,1-Dichloroethane	21.89	0.29	5.0	20.00	0	109	67.7	138	0	0	0	
1,1-Dichloroethene	21.19	0.32	5.0	20.00	0	106	60.5	156	0	0	0	
1,2,4-Trichlorobenzene	20.84	0.68	5.0	20.00	0	104	60	130	0	0	0	
1,2-Dibromo-3-chloropropane	22.58	0.61	5.0	20.00	0	113	60.6	128	0	0	0	
1,2-Dibromoethane	22.12	0.20	5.0	20.00	0	111	75	133	0	0	0	
1,2-Dichlorobenzene	21.72	0.22	5.0	20.00	0	109	71.7	127	0	0	0	
1,2-Dichloroethane	22.72	0.19	5.0	20.00	0	114	71.7	134	0	0	0	
1,2-Dichloropropane	20.73	0.23	5.0	20.00	0	104	69.6	137	0	0	0	
1,3-Dichlorobenzene	21.16	0.23	5.0	20.00	0	106	71.4	130	0	0	0	
1,4-Dichlorobenzene	21.20	0.57	5.0	20.00	0	106	72.7	123	0	0	0	
2-Butanone	38.00	5.0	50	40.00	0	95.0	50	150	0	0	0	J
2-Hexanone	49.80	2.7	10	40.00	0	124	50	150	0	0	0	
4-Methyl-2-pentanone	45.16	2.7	10	40.00	0	113	50	150	0	0	0	
Acetone	33.30	8.3	50	40.00	0	83.2	50	150	0	0	0	J
Benzene	22.08	0.24	5.0	20.00	0	110	70	135	0	0	0	
Bromodichloromethane	22.35	0.26	5.0	20.00	0	112	60.3	142	0	0	0	
Bromoform	20.58	0.48	5.0	20.00	0	103	50.2	139	0	0	0	
Bromomethane	20.81	0.73	5.0	20.00	0	104	14	186	0	0	0	
Carbon disulfide	43.27	0.98	5.0	40.00	0	108	50	150	0	0	0	
Carbon tetrachloride	23.36	0.28	5.0	20.00	0	117	64.4	146	0	0	0	
Chlorobenzene	21.47	0.47	5.0	20.00	0	107	70.5	132	0	0	0	
Chloroethane	21.10	0.45	10	20.00	0	106	38	162	0	0	0	
Chloroform	24.68	0.23	5.0	20.00	2.740	110	70.1	141	0	0	0	
Chloromethane	19.01	0.44	10	20.00	0	95.0	1	204	0	0	0	
cis-1,2-Dichloroethene	21.93	0.50	5.0	20.00	0	110	70.7	138	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 329202

Sample ID: **2201G62-003AMS** Client ID: Units: **ug/L** Prep Date: **01/17/2022** Run No: **475355**
SampleType: **MS1** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **329202** Seq No: **10972533**
Analysis Date / Time: **Jan 20 2022 1:29PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,3-Dichloropropene	21.44	0.30	5.0	20.00	0	107	58.7	137	0	0	0	
Cyclohexane	24.36	1.00	5.0	20.00	0	122	50	150	0	0	0	
Dibromochloromethane	23.03	0.40	5.0	20.00	0	115	63.2	130	0	0	0	
Dichlorodifluoromethane	17.43	0.47	10	20.00	0	87.2	50	150	0	0	0	
Ethylbenzene	23.09	0.24	5.0	20.00	0	115	73.7	135	0	0	0	
Freon-113	20.64	0.33	10	20.00	0	103	50	150	0	0	0	
Isopropylbenzene	24.13	0.29	5.0	20.00	0	121	66.2	129	0	0	0	
m,p-Xylene	46.53	0.51	5.0	40.00	0	116	70.7	136	0	0	0	
Methyl acetate	21.57	0.57	5.0	20.00	0	108	50	150	0	0	0	
Methyl tert-butyl ether	22.75	0.24	5.0	20.00	0	114	61.5	132	0	0	0	
Methylcyclohexane	22.93	0.24	5.0	20.00	0	115	50	150	0	0	0	
Methylene chloride	19.70	4.8	5.0	20.00	0	98.5	70.1	132	0	0	0	
o-Xylene	23.48	0.27	5.0	20.00	0	117	71.3	137	0	0	0	
Styrene	22.94	0.29	5.0	20.00	0	115	72	135	0	0	0	
Tetrachloroethene	27.10	0.30	5.0	20.00	0	136	71.4	139	0	0	0	
Toluene	21.63	0.66	5.0	20.00	0	108	70.5	137	0	0	0	
trans-1,2-Dichloroethene	21.49	0.29	5.0	20.00	0	107	68.3	142	0	0	0	
trans-1,3-Dichloropropene	22.16	0.81	5.0	20.00	0	111	60.2	124	0	0	0	
Trichloroethene	20.77	0.21	5.0	20.00	0	104	71.8	139	0	0	0	
Trichlorofluoromethane	22.18	0.43	5.0	20.00	0	111	48	152	0	0	0	
Vinyl chloride	20.65	0.44	2.0	20.00	0	103	70	132	0	0	0	
Surr: 4-Bromofluorobenzene	47.20	0	0	50.00	0	94.4	66.2	120	0	0	0	
Surr: Dibromofluoromethane	48.39	0	0	50.00	0	96.8	79.5	121	0	0	0	
Surr: Toluene-d8	47.57	0	0	50.00	0	95.1	77	117	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 329202

Sample ID: **2201G62-003AMSD** Client ID: Units: **ug/L** Prep Date: **01/17/2022** Run No: **475355**
SampleType: **MSD1** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **329202** Seq No: **10972534**
Analysis Date / Time: **Jan 20 2022 1:54PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	21.31	0.26	5.0	20.00	0	107	64.1	145	22.72	6.40	20	
1,1,2,2-Tetrachloroethane	22.67	0.25	5.0	20.00	0	113	63.6	133	23.21	2.35	20	
1,1,2-Trichloroethane	20.99	0.23	5.0	20.00	0	105	71.9	136	21.77	3.65	20	
1,1-Dichloroethane	20.69	0.29	5.0	20.00	0	103	67.7	138	21.89	5.64	20	
1,1-Dichloroethene	20.23	0.32	5.0	20.00	0	101	60.5	156	21.19	4.64	20	
1,2,4-Trichlorobenzene	20.45	0.68	5.0	20.00	0	102	60	130	20.84	1.89	26.5	
1,2-Dibromo-3-chloropropane	21.43	0.61	5.0	20.00	0	107	60.6	128	22.58	5.23	20.4	
1,2-Dibromoethane	21.58	0.20	5.0	20.00	0	108	75	133	22.12	2.47	20	
1,2-Dichlorobenzene	20.18	0.22	5.0	20.00	0	101	71.7	127	21.72	7.35	20	
1,2-Dichloroethane	22.07	0.19	5.0	20.00	0	110	71.7	134	22.72	2.90	30	
1,2-Dichloropropane	21.15	0.23	5.0	20.00	0	106	69.6	137	20.73	2.01	20	
1,3-Dichlorobenzene	19.64	0.23	5.0	20.00	0	98.2	71.4	130	21.16	7.45	20	
1,4-Dichlorobenzene	19.65	0.57	5.0	20.00	0	98.2	72.7	123	21.20	7.59	20	
2-Butanone	45.14	5.0	50	40.00	0	113	50	150	38.00	0	30	J
2-Hexanone	48.53	2.7	10	50.00	0	97.1	50	150	49.80	2.58	30	
4-Methyl-2-pentanone	48.21	2.7	10	40.00	0	121	50	150	45.16	6.53	30	
Acetone	43.49	8.3	50	40.00	0	109	50	150	33.30	0	30	J
Benzene	21.03	0.24	5.0	20.00	0	105	70	135	22.08	4.87	20	
Bromodichloromethane	21.37	0.26	5.0	20.00	0	107	60.3	142	22.35	4.48	20	
Bromoform	20.09	0.48	5.0	20.00	0	100	50.2	139	20.58	2.41	20	
Bromomethane	19.18	0.73	5.0	20.00	0	95.9	14	186	20.81	8.15	89.5	
Carbon disulfide	40.63	0.98	5.0	40.00	0	102	50	150	43.27	6.29	30	
Carbon tetrachloride	20.84	0.28	5.0	20.00	0	104	64.4	146	23.36	11.4	19.3	
Chlorobenzene	20.47	0.47	5.0	20.00	0	102	70.5	132	21.47	4.77	20	
Chloroethane	19.18	0.45	10	20.00	0	95.9	38	162	21.10	9.53	57	
Chloroform	23.50	0.23	5.0	20.00	2.740	104	70.1	141	24.68	4.90	20	
Chloromethane	19.29	0.44	10	20.00	0	96.4	1	204	19.01	1.46	99	
cis-1,2-Dichloroethene	20.41	0.50	5.0	20.00	0	102	70.7	138	21.93	7.18	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 329202

Sample ID: **2201G62-003AMSD** Client ID: Units: **ug/L** Prep Date: **01/17/2022** Run No: **475355**
SampleType: **MSD1** TestCode: **TCL VOLATILE ORGANICS SW8260D** BatchID: **329202** Seq No: **10972534**
Analysis Date / Time: **Jan 20 2022 1:54PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,3-Dichloropropene	20.62	0.30	5.0	20.00	0	103	58.7	137	21.44	3.90	20	
Cyclohexane	22.40	1.00	5.0	20.00	0	112	50	150	24.36	8.38	30	
Dibromochloromethane	21.51	0.40	5.0	20.00	0	108	63.2	130	23.03	6.83	20	
Dichlorodifluoromethane	17.43	0.47	10	20.00	0	87.2	50	150	17.43	0	30	
Ethylbenzene	21.75	0.24	5.0	20.00	0	109	73.7	135	23.09	5.98	20	
Freon-113	19.90	0.33	10	20.00	0	99.5	50	150	20.64	3.65	30	
Isopropylbenzene	22.04	0.29	5.0	20.00	0	110	66.2	129	24.13	9.05	20	
m,p-Xylene	43.09	0.51	5.0	40.00	0	108	70.7	136	46.53	7.68	20	
Methyl acetate	20.09	0.57	5.0	20.00	0	100	50	150	21.57	7.11	30	
Methyl tert-butyl ether	21.63	0.24	5.0	20.00	0	108	61.5	132	22.75	5.05	20	
Methylcyclohexane	20.77	0.24	5.0	20.00	0	104	50	150	22.93	9.89	30	
Methylene chloride	19.33	4.8	5.0	20.00	0	96.6	70.1	132	19.70	1.90	20	
o-Xylene	22.03	0.27	5.0	20.00	0	110	71.3	137	23.48	6.37	20	
Styrene	22.03	0.29	5.0	20.00	0	110	72	135	22.94	4.05	20	
Tetrachloroethene	23.27	0.30	5.0	20.00	0	116	71.4	139	27.10	15.2	20	
Toluene	20.56	0.66	5.0	20.00	0	103	70.5	137	21.63	5.07	20	
trans-1,2-Dichloroethene	19.47	0.29	5.0	20.00	0	97.4	68.3	142	21.49	9.86	20	
trans-1,3-Dichloropropene	20.97	0.81	5.0	20.00	0	105	60.2	124	22.16	5.52	20	
Trichloroethene	20.04	0.21	5.0	20.00	0	100	71.8	139	20.77	3.58	20	
Trichlorofluoromethane	20.98	0.43	5.0	20.00	0	105	48	152	22.18	5.56	50	
Vinyl chloride	19.81	0.44	2.0	20.00	0	99.0	70	132	20.65	4.15	20	
Surr: 4-Bromofluorobenzene	47.46	0	0	50.00	0	94.9	66.2	120	47.20	0	0	
Surr: Dibromofluoromethane	48.09	0	0	50.00	0	96.2	79.5	121	48.39	0	0	
Surr: Toluene-d8	46.59	0	0	50.00	0	93.2	77	117	47.57	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 329295

Sample ID: **MB-329295**	Client ID:					Units: **mg/Kg**	Prep Date: **01/19/2022**		Run No: **475473**		
SampleType: **MBLK**	TestCode: **Cyanide, Reactive** **SW846-7.3**					BatchID: **329295**			Seq No: **10969034**		
						Analysis Date / Time: **Jan 19 2022 5:53AM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Reactive	BRL	1.00	1.00									

Sample ID: **LCS-329295**	Client ID:					Units: **mg/Kg**	Prep Date: **01/19/2022**		Run No: **475473**		
SampleType: **LCS**	TestCode: **Cyanide, Reactive** **SW846-7.3**					BatchID: **329295**			Seq No: **10969035**		
						Analysis Date / Time: **Jan 19 2022 5:53AM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Reactive	9.450	1.00	1.00	12.50		75.6	58.9	120				

Sample ID: **2201A71-004BMS**	Client ID:					Units: **mg/Kg**	Prep Date: **01/19/2022**		Run No: **475473**		
SampleType: **MS**	TestCode: **Cyanide, Reactive** **SW846-7.3**					BatchID: **329295**			Seq No: **10969041**		
						Analysis Date / Time: **Jan 19 2022 5:53AM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Reactive	8.200	1.00	1.00	12.50		65.6	28.1	120				

Sample ID: **2201A71-004BMSD**	Client ID:					Units: **mg/Kg**	Prep Date: **01/19/2022**		Run No: **475473**		
SampleType: **MSD**	TestCode: **Cyanide, Reactive** **SW846-7.3**					BatchID: **329295**			Seq No: **10969042**		
						Analysis Date / Time: **Jan 19 2022 5:53AM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Reactive	7.100	1.00	1.00	12.50		56.8	28.1	120	8.200	14.4	19	

Sample ID: **CCV-329295**	Client ID:					Units: **mg/Kg**	Prep Date: **01/19/2022**		Run No: **475473**		
SampleType: **CCV**	TestCode: **Cyanide, Reactive** **SW846-7.3**					BatchID: **329295**			Seq No: **10969036**		
						Analysis Date / Time: **Jan 19 2022 5:53AM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Reactive	22.85	1.00	1.00	20.00	0	114	62.7	119	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: 329296

Sample ID: **MB-329296**	Client ID:					Units: **wt%**		Prep Date: **01/18/2022**		Run No: **475451**	
SampleType: **MBLK**	TestCode: **Residue, Total (TS) by SM2540B**					BatchID: **329296**				Seq No: **10968233**	
						Analysis Date / Time: **Jan 18 2022 4:02PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Total (TS)	BRL	0.00100	0.00100									

Sample ID: **2201H85-003ADUP**	Client ID:					Units: **mg/L**		Prep Date: **01/18/2022**		Run No: **475451**	
SampleType: **DUP**	TestCode: **Residue, Total (TS) by SM2540B**					BatchID: **329296**				Seq No: **10968235**	
						Analysis Date / Time: **Jan 18 2022 4:02PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Total (TS)	164.9	0.00100	0.00100						160.0	3.02	10	H

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 9-Feb-22

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R474932

Sample ID: **LCS-R474932**	Client ID:					Units: **pH Units**	Prep Date:			Run No: **474932**	
SampleType: **LCS**	TestCode: **Hydrogen Ion (pH) by SM4500H+B**					BatchID: **R474932**				Seq No: **10954138**	
						Analysis Date / Time: **Jan 12 2022 3:27PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
pH	7.075	0.0100	0.0100	7.000		101	90	110				

Sample ID: **2201967-002BDUP**	Client ID:					Units: **pH Units**	Prep Date:			Run No: **474932**	
SampleType: **DUP**	TestCode: **Hydrogen Ion (pH) by SM4500H+B**					BatchID: **R474932**				Seq No: **10954143**	
						Analysis Date / Time: **Jan 12 2022 3:34PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
pH	7.158	0.0100	0.0100						7.079	1.11	20	

Sample ID: **CCV1-R474932**	Client ID:					Units: **pH Units**	Prep Date:			Run No: **474932**	
SampleType: **CCV**	TestCode: **Hydrogen Ion (pH) by SM4500H+B**					BatchID: **R474932**				Seq No: **10954158**	
						Analysis Date / Time: **Jan 12 2022 3:52PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
pH	3.991	0.0100	0.0100	4.000	0	99.8	90	110	0	0	0	

Sample ID: **CCV2-R474932**	Client ID:					Units: **pH Units**	Prep Date:			Run No: **474932**	
SampleType: **CCV**	TestCode: **Hydrogen Ion (pH) by SM4500H+B**					BatchID: **R474932**				Seq No: **10954159**	
						Analysis Date / Time: **Jan 12 2022 3:53PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
pH	10.03	0.0100	0.0100	10.00	0	100	90	110	0	0	0	

Sample ID: **CCV3-R474932**	Client ID:					Units: **pH Units**	Prep Date:			Run No: **474932**	
SampleType: **CCV**	TestCode: **Hydrogen Ion (pH) by SM4500H+B**					BatchID: **R474932**				Seq No: **10954173**	
						Analysis Date / Time: **Jan 12 2022 4:07PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
pH	3.995	0.0100	0.0100	4.000	0	99.9	90	110	0	0	0	

Sample ID: **CCV4-R474932**	Client ID:					Units: **pH Units**	Prep Date:			Run No: **474932**	
SampleType: **CCV**	TestCode: **Hydrogen Ion (pH) by SM4500H+B**					BatchID: **R474932**				Seq No: **10954175**	
						Analysis Date / Time: **Jan 12 2022 4:09PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R474932

Sample ID: **CCV4-R474932**	Client ID:					Units: **pH Units**	Prep Date:			Run No: **474932**	
SampleType: **CCV**	TestCode: **Hydrogen Ion (pH) by SM4500H+B**					BatchID: **R474932**				Seq No: **10954175**	
						Analysis Date / Time: **Jan 12 2022 4:09PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
pH	10.03	0.0100	0.0100	10.00	0	100	90	110	0	0	0	

Sample ID: **CCV6-R474932**	Client ID:					Units: **pH Units**	Prep Date:			Run No: **474932**	
SampleType: **CCV**	TestCode: **Hydrogen Ion (pH) by SM4500H+B**					BatchID: **R474932**				Seq No: **10954177**	
						Analysis Date / Time: **Jan 12 2022 4:11PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
pH	12.98	0.0100	0.0100	13.00	0	99.8	90	110	0	0	0	

Sample ID: **ICV-R474932**	Client ID:					Units: **pH Units**	Prep Date:			Run No: **474932**	
SampleType: **CCV**	TestCode: **Hydrogen Ion (pH) by SM4500H+B**					BatchID: **R474932**				Seq No: **10954140**	
						Analysis Date / Time: **Jan 12 2022 3:29PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
pH	6.873	0.0100	0.0100	6.860	0	100	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 9-Feb-22

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475144

Sample ID: **MB-R475144** Client ID:
SampleType: **MBLK** TestCode: **ION SCAN** **SW9056A**
Units: **mg/L** Prep Date: Run No: **475144**
BatchID: **R475144** Seq No: **10965858**
Analysis Date / Time: **Jan 12 2022 8:45PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	0.45	1.0									
Fluoride	BRL	0.13	0.20									

Sample ID: **LCS-R475144** Client ID:
SampleType: **LCS** TestCode: **ION SCAN** **SW9056A**
Units: **mg/L** Prep Date: Run No: **475144**
BatchID: **R475144** Seq No: **10965857**
Analysis Date / Time: **Jan 12 2022 8:34PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.511	0.45	1.0	10.00		95.1	90	110				
Fluoride	5.355	0.13	0.20	5.000		107	90	110				

Sample ID: **2201A00-002AMS** Client ID:
SampleType: **MS** TestCode: **ION SCAN** **SW9056A**
Units: **mg/L** Prep Date: Run No: **475144**
BatchID: **R475144** Seq No: **10965866**
Analysis Date / Time: **Jan 13 2022 1:18PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	25.23	0.45	1.0	10.00	17.70	75.3	90	110				S
Fluoride	5.513	0.13	0.20	5.000		110	90	110				S

Sample ID: **2201A00-002AMSD** Client ID:
SampleType: **MSD** TestCode: **ION SCAN** **SW9056A**
Units: **mg/L** Prep Date: Run No: **475144**
BatchID: **R475144** Seq No: **10965867**
Analysis Date / Time: **Jan 13 2022 1:29PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	25.34	0.45	1.0	10.00	17.70	76.4	90	110	25.23	0.449	20	S
Fluoride	5.614	0.13	0.20	5.000		112	90	110	5.513	1.80	20	S

Sample ID: **CCB** Client ID:
SampleType: **CCB** TestCode: **ION SCAN** **SW9056A**
Units: **mg/L** Prep Date: Run No: **475144**
BatchID: **R475144** Seq No: **10965862**
Analysis Date / Time: **Jan 12 2022 10:54PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	0.45	1.0	0	0	0	0	0	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475144

Sample ID: **CCB**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **475144**	
SampleType: **CCB**	TestCode: **ION SCAN** **SW9056A**					BatchID: **R475144**				Seq No: **10965862**	
						Analysis Date / Time: **Jan 12 2022 10:54PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Fluoride	BRL	0.13	0.20	0	0	0	0	0	0	0	0	

Sample ID: **CCB**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **475144**	
SampleType: **CCB**	TestCode: **ION SCAN** **SW9056A**					BatchID: **R475144**				Seq No: **10965864**	
						Analysis Date / Time: **Jan 13 2022 11:44AM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	0.45	1.0	0	0	0	0	0	0	0	0	
Fluoride	BRL	0.13	0.20	0	0	0	0	0	0	0	0	

Sample ID: **CCB**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **475144**	
SampleType: **CCB**	TestCode: **ION SCAN** **SW9056A**					BatchID: **R475144**				Seq No: **10965869**	
						Analysis Date / Time: **Jan 13 2022 1:50PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	0.45	1.0	0	0	0	0	0	0	0	0	
Fluoride	BRL	0.13	0.20	0	0	0	0	0	0	0	0	

Sample ID: **CCB**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **475144**	
SampleType: **CCB**	TestCode: **ION SCAN** **SW9056A**					BatchID: **R475144**				Seq No: **10965880**	
						Analysis Date / Time: **Jan 13 2022 11:19PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	0.45	1.0	0	0	0	0	0	0	0	0	
Fluoride	BRL	0.13	0.20	0	0	0	0	0	0	0	0	

Sample ID: **CCB**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **475144**	
SampleType: **CCB**	TestCode: **ION SCAN** **SW9056A**					BatchID: **R475144**				Seq No: **10965883**	
						Analysis Date / Time: **Jan 13 2022 11:52PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	0.45	1.0	0	0	0	0	0	0	0	0	
Fluoride	BRL	0.13	0.20	0	0	0	0	0	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475144

Sample ID: **CCB**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **475144**
SampleType: **CCB**	TestCode: **ION SCAN** **SW9056A**					BatchID: **R475144**					Seq No: **10965885**
						Analysis Date / Time: **Jan 14 2022 11:43AM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	0.45	1.0	0	0	0	0	0	0	0	0	
Fluoride	BRL	0.13	0.20	0	0	0	0	0	0	0	0	

Sample ID: **CCB**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **475144**
SampleType: **CCB**	TestCode: **ION SCAN** **SW9056A**					BatchID: **R475144**					Seq No: **10965888**
						Analysis Date / Time: **Jan 14 2022 1:20PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	0.45	1.0	0	0	0	0	0	0	0	0	
Fluoride	BRL	0.13	0.20	0	0	0	0	0	0	0	0	

Sample ID: **CCV**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **475144**
SampleType: **CCV**	TestCode: **ION SCAN** **SW9056A**					BatchID: **R475144**					Seq No: **10965861**
						Analysis Date / Time: **Jan 12 2022 10:43PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.437	0.45	1.0	10.00	0	94.4	90	110	0	0	0	
Fluoride	5.408	0.13	0.20	5.000	0	108	90	110	0	0	0	

Sample ID: **CCV**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **475144**
SampleType: **CCV**	TestCode: **ION SCAN** **SW9056A**					BatchID: **R475144**					Seq No: **10965863**
						Analysis Date / Time: **Jan 13 2022 11:33AM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.552	0.45	1.0	10.00	0	95.5	90	110	0	0	0	
Fluoride	5.363	0.13	0.20	5.000	0	107	90	110	0	0	0	

Sample ID: **CCV**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **475144**
SampleType: **CCV**	TestCode: **ION SCAN** **SW9056A**					BatchID: **R475144**					Seq No: **10965868**
						Analysis Date / Time: **Jan 13 2022 1:40PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.460	0.45	1.0	10.00	0	94.6	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475144

Sample ID: CCV	Client ID:					Units: mg/L	Prep Date:			Run No: 475144	
SampleType: CCV	TestCode: ION SCAN SW9056A					BatchID: R475144				Seq No: 10965868	
						Analysis Date / Time: Jan 13 2022 1:40PM					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Fluoride	5.308	0.13	0.20	5.000	0	106	90	110	0	0	0	

Sample ID: CCV	Client ID:					Units: mg/L	Prep Date:			Run No: 475144	
SampleType: CCV	TestCode: ION SCAN SW9056A					BatchID: R475144				Seq No: 10965879	
						Analysis Date / Time: Jan 13 2022 11:08PM					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.533	0.45	1.0	10.00	0	95.3	90	110	0	0	0	
Fluoride	5.497	0.13	0.20	5.000	0	110	90	110	0	0	0	

Sample ID: CCV	Client ID:					Units: mg/L	Prep Date:			Run No: 475144	
SampleType: CCV	TestCode: ION SCAN SW9056A					BatchID: R475144				Seq No: 10965882	
						Analysis Date / Time: Jan 13 2022 11:41PM					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.434	0.45	1.0	10.00	0	94.3	90	110	0	0	0	
Fluoride	5.423	0.13	0.20	5.000	0	108	90	110	0	0	0	

Sample ID: CCV	Client ID:					Units: mg/L	Prep Date:			Run No: 475144	
SampleType: CCV	TestCode: ION SCAN SW9056A					BatchID: R475144				Seq No: 10965884	
						Analysis Date / Time: Jan 14 2022 11:32AM					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.547	0.45	1.0	10.00	0	95.5	90	110	0	0	0	
Fluoride	5.317	0.13	0.20	5.000	0	106	90	110	0	0	0	

Sample ID: CCV	Client ID:					Units: mg/L	Prep Date:			Run No: 475144	
SampleType: CCV	TestCode: ION SCAN SW9056A					BatchID: R475144				Seq No: 10965887	
						Analysis Date / Time: Jan 14 2022 1:09PM					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.489	0.45	1.0	10.00	0	94.9	90	110	0	0	0	
Fluoride	5.212	0.13	0.20	5.000	0	104	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475250

Sample ID: **CCB**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **475250**
SampleType: **CCB**	TestCode: **Mercury, Total** **SW7470A**					BatchID: **R475250**					Seq No: **10963450**
						Analysis Date / Time: **Jan 17 2022 6:20PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Mercury	BRL	0.00019	0.00020	0	0	0	0	0	0	0	10

Sample ID: **CCB**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **475250**
SampleType: **CCB**	TestCode: **Mercury, Total** **SW7470A**					BatchID: **R475250**					Seq No: **10963463**
						Analysis Date / Time: **Jan 17 2022 7:12PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Mercury	BRL	0.00019	0.00020	0	0	0	0	0	0	0	10

Sample ID: **CCV**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **475250**
SampleType: **CCV**	TestCode: **Mercury, Total** **SW7470A**					BatchID: **R475250**					Seq No: **10963449**
						Analysis Date / Time: **Jan 17 2022 6:17PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Mercury	0.001996	0.00019	0.00020	0.0020	0	99.8	90	110	0	0	0

Sample ID: **CCV**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **475250**
SampleType: **CCV**	TestCode: **Mercury, Total** **SW7470A**					BatchID: **R475250**					Seq No: **10963462**
						Analysis Date / Time: **Jan 17 2022 7:08PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Mercury	0.002021	0.00019	0.00020	0.0020	0	101	90	110	0	0	0

Sample ID: **CRA 0.16**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **475250**
SampleType: **CRA**	TestCode: **Mercury, Total** **SW7470A**					BatchID: **R475250**					Seq No: **10963464**
						Analysis Date / Time: **Jan 18 2022 8:18AM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Mercury	BRL	0.00019	0.00020	0.0002	0	71.2	70	130	0	0	0

Sample ID: **ICB**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **475250**
SampleType: **ICB**	TestCode: **Mercury, Total** **SW7470A**					BatchID: **R475250**					Seq No: **10963436**
						Analysis Date / Time: **Jan 17 2022 5:18PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475250

Sample ID: **ICB**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **475250**	
SampleType: **ICB**	TestCode: **Mercury, Total** **SW7470A**					BatchID: **R475250**				Seq No: **10963436**	
						Analysis Date / Time: **Jan 17 2022 5:18PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00019	0.00020	0	0	0	0	0	0	0	0	

Sample ID: **ICV**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **475250**	
SampleType: **ICV**	TestCode: **Mercury, Total** **SW7470A**					BatchID: **R475250**				Seq No: **10963437**	
						Analysis Date / Time: **Jan 17 2022 5:21PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.001814	0.00019	0.00020	0.0020	0	90.7	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 9-Feb-22

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475281

Sample ID: **MB-**	Client ID:	Units: **ug/L**	Prep Date:	Run No: **475281**
SampleType: **MBLK**	TestCode: **TCL VOLATILE ORGANICS SW8260D**	BatchID: **R475281**		Seq No: **10969148**
		Analysis Date / Time: **Jan 18 2022 9:31AM**		

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	0.26	5.0									
1,1,2,2-Tetrachloroethane	BRL	0.25	5.0									
1,1,2-Trichloroethane	BRL	0.23	5.0									
1,1-Dichloroethane	BRL	0.29	5.0									
1,1-Dichloroethene	BRL	0.32	5.0									
1,2,4-Trichlorobenzene	BRL	0.68	5.0									
1,2-Dibromo-3-chloropropane	BRL	0.61	5.0									
1,2-Dibromoethane	BRL	0.20	5.0									
1,2-Dichlorobenzene	BRL	0.22	5.0									
1,2-Dichloroethane	BRL	0.19	5.0									
1,2-Dichloropropane	BRL	0.23	5.0									
1,3-Dichlorobenzene	BRL	0.23	5.0									
1,4-Dichlorobenzene	BRL	0.57	5.0									
2-Butanone	BRL	5.0	50									
2-Hexanone	BRL	2.7	10									
4-Methyl-2-pentanone	BRL	2.7	10									
Acetone	BRL	8.3	50									
Benzene	BRL	0.24	5.0									
Bromodichloromethane	BRL	0.26	5.0									
Bromoform	BRL	0.48	5.0									
Bromomethane	BRL	0.73	5.0									
Carbon disulfide	BRL	0.98	5.0									
Carbon tetrachloride	BRL	0.28	5.0									
Chlorobenzene	BRL	0.47	5.0									
Chloroethane	BRL	0.45	10									
Chloroform	BRL	0.23	5.0									
Chloromethane	BRL	0.44	10									
cis-1,2-Dichloroethene	BRL	0.50	5.0									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475281

Sample ID: **MB-** | Client ID: | Units: **ug/L** | Prep Date: | Run No: **475281**
SampleType: **MBLK** | TestCode: **TCL VOLATILE ORGANICS SW8260D** | BatchID: **R475281** | Seq No: **10969148**
Analysis Date / Time: **Jan 18 2022 9:31AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,3-Dichloropropene	BRL	0.30	5.0									
Cyclohexane	BRL	1.00	5.0									
Dibromochloromethane	BRL	0.40	5.0									
Dichlorodifluoromethane	BRL	0.47	10									
Ethylbenzene	BRL	0.24	5.0									
Freon-113	BRL	0.33	10									
Isopropylbenzene	BRL	0.29	5.0									
m,p-Xylene	BRL	0.51	5.0									
Methyl acetate	BRL	0.57	5.0									
Methyl tert-butyl ether	BRL	0.24	5.0									
Methylcyclohexane	BRL	0.24	5.0									
Methylene chloride	BRL	4.8	5.0									
o-Xylene	BRL	0.27	5.0									
Styrene	BRL	0.29	5.0									
Tetrachloroethene	BRL	0.30	5.0									
Toluene	BRL	0.66	5.0									
trans-1,2-Dichloroethene	BRL	0.29	5.0									
trans-1,3-Dichloropropene	BRL	0.81	5.0									
Trichloroethene	BRL	0.21	5.0									
Trichlorofluoromethane	BRL	0.43	5.0									
Vinyl chloride	BRL	0.44	2.0									
Surr: 4-Bromofluorobenzene	52.29	0	0	50.00		105	74.9	127				
Surr: Dibromofluoromethane	49.69	0	0	50.00		99.4	78.9	121				
Surr: Toluene-d8	50.09	0	0	50.00		100	81.5	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 9-Feb-22

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475294

Sample ID: **BNA40**	Client ID:					Units: **ug/L**	Prep Date:			Run No: **475294**	
SampleType: **CCV**	TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E**					BatchID: **R475294**				Seq No: **10963663**	
						Analysis Date / Time: **Jan 14 2022 5:03PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1´-Biphenyl	40.26	4.1	10	40.00	0	101	80	120	0	0	0	
2,4,5-Trichlorophenol	39.83	3.9	25	40.00	0	99.6	80	120	0	0	0	
2,4,6-Trichlorophenol	39.00	3.4	10	40.00	0	97.5	80	120	0	0	0	
2,4-Dichlorophenol	39.38	3.6	10	40.00	0	98.4	80	120	0	0	0	
2,4-Dimethylphenol	40.03	3.8	10	40.00	0	100	80	120	0	0	0	
2,4-Dinitrophenol	35.56	8.8	25	40.00	0	88.9	80	120	0	0	0	
2,4-Dinitrotoluene	38.90	6.0	10	40.00	0	97.2	80	120	0	0	0	
2,6-Dinitrotoluene	38.48	5.3	10	40.00	0	96.2	80	120	0	0	0	
2-Chloronaphthalene	37.62	3.0	10	40.00	0	94.0	80	120	0	0	0	
2-Chlorophenol	39.38	2.0	10	40.00	0	98.4	80	120	0	0	0	
2-Methylnaphthalene	40.09	3.0	10	40.00	0	100	80	120	0	0	0	
2-Methylphenol	39.95	3.1	10	40.00	0	99.9	80	120	0	0	0	
2-Nitroaniline	38.46	3.6	25	40.00	0	96.2	80	120	0	0	0	
2-Nitrophenol	37.00	2.5	10	40.00	0	92.5	80	120	0	0	0	
3,3´-Dichlorobenzidine	39.42	3.7	10	40.00	0	98.6	80	120	0	0	0	
3-Nitroaniline	39.02	4.3	25	40.00	0	97.6	80	120	0	0	0	
4,6-Dinitro-2-methylphenol	33.50	14	25	40.00	0	83.8	80	120	0	0	0	
4-Bromophenyl phenyl ether	39.86	3.9	10	40.00	0	99.6	80	120	0	0	0	
4-Chloro-3-methylphenol	39.40	4.0	10	40.00	0	98.5	80	120	0	0	0	
4-Chloroaniline	39.68	4.9	10	40.00	0	99.2	80	120	0	0	0	
4-Chlorophenyl phenyl ether	39.32	3.0	10	40.00	0	98.3	80	120	0	0	0	
4-Methylphenol	80.32	3.3	10	80.00	0	100	80	120	0	0	0	
4-Nitroaniline	38.55	5.1	25	40.00	0	96.4	80	120	0	0	0	
4-Nitrophenol	39.10	5.8	25	40.00	0	97.8	80	120	0	0	0	
Acenaphthene	40.11	2.5	10	40.00	0	100	80	120	0	0	0	
Acenaphthylene	40.08	2.7	10	40.00	0	100	80	120	0	0	0	
Acetophenone	80.80	4.0	10	80.00	0	101	80	120	0	0	0	
Anthracene	40.20	2.9	10	40.00	0	100	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 9-Feb-22

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475294

Sample ID: **BNA40** Client ID: Units: **ug/L** Prep Date: Run No: **475294**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R475294** Seq No: **10963663**
Analysis Date / Time: **Jan 14 2022 5:03PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Atrazine	39.87	5.8	10	40.00	0	99.7	80	120	0	0	0	
Benz(a)anthracene	39.74	2.8	10	40.00	0	99.4	80	120	0	0	0	
Benzaldehyde	42.30	6.8	10	40.00	0	106	80	120	0	0	0	
Benzo(a)pyrene	39.52	3.5	10	40.00	0	98.8	80	120	0	0	0	
Benzo(b)fluoranthene	38.06	3.8	10	40.00	0	95.2	80	120	0	0	0	
Benzo(g,h,i)perylene	38.52	4.2	10	40.00	0	96.3	80	120	0	0	0	
Benzo(k)fluoranthene	44.17	3.6	10	40.00	0	110	80	120	0	0	0	
Bis(2-chloroethoxy)methane	39.77	2.6	10	40.00	0	99.4	80	120	0	0	0	
Bis(2-chloroethyl)ether	40.15	2.4	10	40.00	0	100	80	120	0	0	0	
Bis(2-chloroisopropyl)ether	39.12	3.0	10	40.00	0	97.8	80	120	0	0	0	
Bis(2-ethylhexyl)phthalate	40.35	4.4	10	40.00	0	101	80	120	0	0	0	
Butyl benzyl phthalate	38.90	3.4	10	40.00	0	97.2	80	120	0	0	0	
Caprolactam	38.34	5.0	10	40.00	0	95.8	80	120	0	0	0	
Carbazole	40.40	3.3	10	40.00	0	101	80	120	0	0	0	
Chrysene	40.17	2.7	10	40.00	0	100	80	120	0	0	0	
Di-n-butyl phthalate	39.56	3.3	10	40.00	0	98.9	80	120	0	0	0	
Di-n-octyl phthalate	37.37	9.3	10	40.00	0	93.4	80	120	0	0	0	
Dibenz(a,h)anthracene	39.26	4.5	10	40.00	0	98.2	80	120	0	0	0	
Dibenzofuran	40.00	2.7	10	40.00	0	100	80	120	0	0	0	
Diethyl phthalate	39.36	3.3	10	40.00	0	98.4	80	120	0	0	0	
Dimethyl phthalate	39.70	2.8	10	40.00	0	99.2	80	120	0	0	0	
Fluoranthene	39.90	3.0	10	40.00	0	99.8	80	120	0	0	0	
Fluorene	39.67	2.7	10	40.00	0	99.2	80	120	0	0	0	
Hexachlorobenzene	39.81	3.9	10	40.00	0	99.5	80	120	0	0	0	
Hexachlorobutadiene	39.41	4.2	10	40.00	0	98.5	80	120	0	0	0	
Hexachlorocyclopentadiene	35.11	8.4	10	40.00	0	87.8	80	120	0	0	0	
Hexachloroethane	39.75	3.1	10	40.00	0	99.4	80	120	0	0	0	
Indeno(1,2,3-cd)pyrene	38.12	4.2	10	40.00	0	95.3	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475294

Sample ID: **BNA40** Client ID: Units: **ug/L** Prep Date: Run No: **475294**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R475294** Seq No: **10963663**
Analysis Date / Time: **Jan 14 2022 5:03PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Isophorone	39.33	3.5	10	40.00	0	98.3	80	120	0	0	0	
N-Nitrosodi-n-propylamine	39.42	2.5	10	40.00	0	98.6	80	120	0	0	0	
N-Nitrosodiphenylamine	39.72	2.4	10	40.00	0	99.3	80	120	0	0	0	
Naphthalene	40.63	2.1	10	40.00	0	102	80	120	0	0	0	
Nitrobenzene	39.12	2.5	10	40.00	0	97.8	80	120	0	0	0	
Pentachlorophenol	38.51	6.4	25	40.00	0	96.3	80	120	0	0	0	
Phenanthrene	40.06	2.9	10	40.00	0	100	80	120	0	0	0	
Phenol	39.91	2.9	10	40.00	0	99.8	80	120	0	0	0	
Pyrene	40.59	2.9	10	40.00	0	101	80	120	0	0	0	
Surr: 2,4,6-Tribromophenol	39.14	0	0	40.00	0	97.8	80	120	0	0	0	
Surr: 2-Fluorobiphenyl	39.75	0	0	40.00	0	99.4	80	120	0	0	0	
Surr: 2-Fluorophenol	39.87	0	0	40.00	0	99.7	80	120	0	0	0	
Surr: 4-Terphenyl-d14	39.89	0	0	40.00	0	99.7	80	120	0	0	0	
Surr: Nitrobenzene-d5	38.67	0	0	40.00	0	96.7	80	120	0	0	0	
Surr: Phenol-d5	39.56	0	0	40.00	0	98.9	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475336

Sample ID: **LCS-R475336**	Client ID:					Units: **°F**	Prep Date:			Run No: **475336**		
SampleType: **LCS**	TestCode: **Ignitability / Flashpoint SW1010B**					BatchID: **R475336**				Seq No: **10965804**		
						Analysis Date / Time: **Jan 18 2022 12:00AM**						
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ignitability	82.00	0	0	81.00		101	97.5	102.47				

Sample ID: **2201A71-006DDUP**	Client ID:					Units: **°F**	Prep Date:			Run No: **475336**		
SampleType: **DUP**	TestCode: **Ignitability / Flashpoint SW1010B**					BatchID: **R475336**				Seq No: **10965806**		
						Analysis Date / Time: **Jan 18 2022 12:00AM**						
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ignitability	180.0	0	0						180.0	0	5	>

Sample ID: **CCV-R475336**	Client ID:					Units: **°F**	Prep Date:			Run No: **475336**		
SampleType: **CCV**	TestCode: **Ignitability / Flashpoint SW1010B**					BatchID: **R475336**				Seq No: **10965810**		
						Analysis Date / Time: **Jan 18 2022 12:00AM**						
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ignitability	79.00	0	0	81.00	0	97.5	97.5	102.47	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475343

Sample ID: **BNA40** Client ID: Units: **ug/L** Prep Date: Run No: **475343**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R475343** Seq No: **10964686**
Analysis Date / Time: **Jan 18 2022 12:06PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1´-Biphenyl	39.51	4.1	10	40.00	0	98.8	80	120	0	0	0	
2,4,5-Trichlorophenol	36.52	3.9	25	40.00	0	91.3	80	120	0	0	0	
2,4,6-Trichlorophenol	39.25	3.4	10	40.00	0	98.1	80	120	0	0	0	
2,4-Dichlorophenol	39.06	3.6	10	40.00	0	97.6	80	120	0	0	0	
2,4-Dimethylphenol	36.75	3.8	10	40.00	0	91.9	80	120	0	0	0	
2,4-Dinitrophenol	53.53	8.8	25	40.00	0	134	80	120	0	0	0	S
2,4-Dinitrotoluene	45.69	6.0	10	40.00	0	114	80	120	0	0	0	
2,6-Dinitrotoluene	43.52	5.3	10	40.00	0	109	80	120	0	0	0	
2-Chloronaphthalene	39.21	3.0	10	40.00	0	98.0	80	120	0	0	0	
2-Chlorophenol	41.69	2.0	10	40.00	0	104	80	120	0	0	0	
2-Methylnaphthalene	40.21	3.0	10	40.00	0	101	80	120	0	0	0	
2-Methylphenol	38.85	3.1	10	40.00	0	97.1	80	120	0	0	0	
2-Nitroaniline	47.30	3.6	25	40.00	0	118	80	120	0	0	0	
2-Nitrophenol	42.01	2.5	10	40.00	0	105	80	120	0	0	0	
3,3´-Dichlorobenzidine	45.95	3.7	10	40.00	0	115	80	120	0	0	0	
3-Nitroaniline	38.90	4.3	25	40.00	0	97.2	80	120	0	0	0	
4,6-Dinitro-2-methylphenol	38.99	14	25	40.00	0	97.5	80	120	0	0	0	
4-Bromophenyl phenyl ether	39.57	3.9	10	40.00	0	98.9	80	120	0	0	0	
4-Chloro-3-methylphenol	40.40	4.0	10	40.00	0	101	80	120	0	0	0	
4-Chloroaniline	42.56	4.9	10	40.00	0	106	80	120	0	0	0	
4-Chlorophenyl phenyl ether	39.13	3.0	10	40.00	0	97.8	80	120	0	0	0	
4-Methylphenol	84.09	3.3	10	80.00	0	105	80	120	0	0	0	
4-Nitroaniline	43.94	5.1	25	40.00	0	110	80	120	0	0	0	
4-Nitrophenol	33.58	5.8	25	40.00	0	84.0	80	120	0	0	0	
Acenaphthene	38.56	2.5	10	40.00	0	96.4	80	120	0	0	0	
Acenaphthylene	39.97	2.7	10	40.00	0	99.9	80	120	0	0	0	
Acetophenone	83.61	4.0	10	80.00	0	105	80	120	0	0	0	
Anthracene	39.33	2.9	10	40.00	0	98.3	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 9-Feb-22

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475343

Sample ID: **BNA40** Client ID: Units: **ug/L** Prep Date: Run No: **475343**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R475343** Seq No: **10964686**
Analysis Date / Time: **Jan 18 2022 12:06PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Atrazine	46.51	5.8	10	40.00	0	116	80	120	0	0	0	
Benz(a)anthracene	40.17	2.8	10	40.00	0	100	80	120	0	0	0	
Benzaldehyde	44.89	6.8	10	40.00	0	112	80	120	0	0	0	
Benzo(a)pyrene	40.58	3.5	10	40.00	0	101	80	120	0	0	0	
Benzo(b)fluoranthene	36.69	3.8	10	40.00	0	91.7	80	120	0	0	0	
Benzo(g,h,i)perylene	39.18	4.2	10	40.00	0	98.0	80	120	0	0	0	
Benzo(k)fluoranthene	41.68	3.6	10	40.00	0	104	80	120	0	0	0	
Bis(2-chloroethoxy)methane	40.73	2.6	10	40.00	0	102	80	120	0	0	0	
Bis(2-chloroethyl)ether	42.82	2.4	10	40.00	0	107	80	120	0	0	0	
Bis(2-chloroisopropyl)ether	47.02	3.0	10	40.00	0	118	80	120	0	0	0	
Bis(2-ethylhexyl)phthalate	44.94	4.4	10	40.00	0	112	80	120	0	0	0	
Butyl benzyl phthalate	47.96	3.4	10	40.00	0	120	80	120	0	0	0	
Caprolactam	40.89	5.0	10	40.00	0	102	80	120	0	0	0	
Carbazole	40.92	3.3	10	40.00	0	102	80	120	0	0	0	
Chrysene	38.44	2.7	10	40.00	0	96.1	80	120	0	0	0	
Di-n-butyl phthalate	46.72	3.3	10	40.00	0	117	80	120	0	0	0	
Di-n-octyl phthalate	48.66	9.3	10	40.00	0	122	80	120	0	0	0	S
Dibenz(a,h)anthracene	40.03	4.5	10	40.00	0	100	80	120	0	0	0	
Dibenzofuran	39.53	2.7	10	40.00	0	98.8	80	120	0	0	0	
Diethyl phthalate	42.15	3.3	10	40.00	0	105	80	120	0	0	0	
Dimethyl phthalate	41.19	2.8	10	40.00	0	103	80	120	0	0	0	
Fluoranthene	40.93	3.0	10	40.00	0	102	80	120	0	0	0	
Fluorene	39.92	2.7	10	40.00	0	99.8	80	120	0	0	0	
Hexachlorobenzene	38.67	3.9	10	40.00	0	96.7	80	120	0	0	0	
Hexachlorobutadiene	40.74	4.2	10	40.00	0	102	80	120	0	0	0	
Hexachlorocyclopentadiene	38.67	8.4	10	40.00	0	96.7	80	120	0	0	0	
Hexachloroethane	45.43	3.1	10	40.00	0	114	80	120	0	0	0	
Indeno(1,2,3-cd)pyrene	42.70	4.2	10	40.00	0	107	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475343

Sample ID: **BNA40** Client ID: Units: **ug/L** Prep Date: Run No: **475343**
SampleType: **CCV** TestCode: **TCL-SEMIVOLATILE ORGANICS SW8270E** BatchID: **R475343** Seq No: **10964686**
Analysis Date / Time: **Jan 18 2022 12:06PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Isophorone	42.78	3.5	10	40.00	0	107	80	120	0	0	0	
N-Nitrosodi-n-propylamine	45.16	2.5	10	40.00	0	113	80	120	0	0	0	
N-Nitrosodiphenylamine	40.62	2.4	10	40.00	0	102	80	120	0	0	0	
Naphthalene	39.35	2.1	10	40.00	0	98.4	80	120	0	0	0	
Nitrobenzene	41.52	2.5	10	40.00	0	104	80	120	0	0	0	
Pentachlorophenol	26.82	6.4	25	40.00	0	67.0	80	120	0	0	0	S
Phenanthrene	38.96	2.9	10	40.00	0	97.4	80	120	0	0	0	
Phenol	40.63	2.9	10	40.00	0	102	80	120	0	0	0	
Pyrene	39.91	2.9	10	40.00	0	99.8	80	120	0	0	0	
Surr: 2,4,6-Tribromophenol	35.81	0	0	40.00	0	89.5	80	120	0	0	0	
Surr: 2-Fluorobiphenyl	39.75	0	0	40.00	0	99.4	80	120	0	0	0	
Surr: 2-Fluorophenol	37.09	0	0	40.00	0	92.7	80	120	0	0	0	
Surr: 4-Terphenyl-d14	39.31	0	0	40.00	0	98.3	80	120	0	0	0	
Surr: Nitrobenzene-d5	42.97	0	0	40.00	0	107	80	120	0	0	0	
Surr: Phenol-d5	38.86	0	0	40.00	0	97.2	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475402

Sample ID: **CCB** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **CCB** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10966595**
Analysis Date / Time: **Jan 18 2022 12:32PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.01288	0.0098	0.0500	0	0	0	0	0	0	0	0	J
Barium	BRL	0.0048	0.0200	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.0016	0.0050	0	0	0	0	0	0	0	0	
Calcium	BRL	0.0513	0.100	0	0	0	0	0	0	0	0	
Chromium	BRL	0.0067	0.0100	0	0	0	0	0	0	0	0	
Lead	BRL	0.0039	0.0100	0	0	0	0	0	0	0	0	
Magnesium	BRL	0.0295	0.100	0	0	0	0	0	0	0	0	
Selenium	BRL	0.0089	0.0200	0	0	0	0	0	0	0	0	
Silver	BRL	0.0018	0.0100	0	0	0	0	0	0	0	0	

Sample ID: **CCB** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **CCB** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10966613**
Analysis Date / Time: **Jan 18 2022 1:09PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.0098	0.0500	0	0	0	0	0	0	0	0	
Barium	BRL	0.0048	0.0200	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.0016	0.0050	0	0	0	0	0	0	0	0	
Calcium	BRL	0.0513	0.100	0	0	0	0	0	0	0	0	
Chromium	BRL	0.0067	0.0100	0	0	0	0	0	0	0	0	
Lead	BRL	0.0039	0.0100	0	0	0	0	0	0	0	0	
Magnesium	BRL	0.0295	0.100	0	0	0	0	0	0	0	0	
Selenium	BRL	0.0089	0.0200	0	0	0	0	0	0	0	0	
Silver	BRL	0.0018	0.0100	0	0	0	0	0	0	0	0	

Sample ID: **CCB** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **CCB** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10966624**
Analysis Date / Time: **Jan 18 2022 2:03PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.0098	0.0500	0	0	0	0	0	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475402

Sample ID: **CCB** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **CCB** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10966624**
Analysis Date / Time: **Jan 18 2022 2:03PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Barium	BRL	0.0048	0.0200	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.0016	0.0050	0	0	0	0	0	0	0	0	
Calcium	BRL	0.0513	0.100	0	0	0	0	0	0	0	0	
Chromium	BRL	0.0067	0.0100	0	0	0	0	0	0	0	0	
Lead	BRL	0.0039	0.0100	0	0	0	0	0	0	0	0	
Magnesium	BRL	0.0295	0.100	0	0	0	0	0	0	0	0	
Selenium	BRL	0.0089	0.0200	0	0	0	0	0	0	0	0	
Silver	BRL	0.0018	0.0100	0	0	0	0	0	0	0	0	

Sample ID: **CCB** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **CCB** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10966630**
Analysis Date / Time: **Jan 18 2022 2:46PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.0098	0.0500	0	0	0	0	0	0	0	0	
Barium	BRL	0.0048	0.0200	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.0016	0.0050	0	0	0	0	0	0	0	0	
Calcium	BRL	0.0513	0.100	0	0	0	0	0	0	0	0	
Chromium	BRL	0.0067	0.0100	0	0	0	0	0	0	0	0	
Lead	0.006700	0.0039	0.0100	0	0	0	0	0	0	0	0	J
Magnesium	BRL	0.0295	0.100	0	0	0	0	0	0	0	0	
Selenium	BRL	0.0089	0.0200	0	0	0	0	0	0	0	0	
Silver	BRL	0.0018	0.0100	0	0	0	0	0	0	0	0	

Sample ID: **CCB** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **CCB** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10966632**
Analysis Date / Time: **Jan 19 2022 9:46AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.0098	0.0500	0	0	0	0	0	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475402

Sample ID: **CCB**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **475402**	
SampleType: **CCB**	TestCode: **METALS, TOTAL** **SW6010D**					BatchID: **R475402**				Seq No: **10966635**	
						Analysis Date / Time: **Jan 19 2022 10:22AM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.0098	0.0500	0	0	0	0	0	0	0	0	

Sample ID: **CCB**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **475402**	
SampleType: **CCB**	TestCode: **METALS, TOTAL** **SW6010D**					BatchID: **R475402**				Seq No: **10973250**	
						Analysis Date / Time: **Jan 20 2022 11:27AM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.0098	0.0500	0	0	0	0	0	0	0	0	
Lead	BRL	0.0039	0.0100	0	0	0	0	0	0	0	0	
Selenium	BRL	0.0089	0.0200	0	0	0	0	0	0	0	0	

Sample ID: **CCB**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **475402**	
SampleType: **CCB**	TestCode: **METALS, TOTAL** **SW6010D**					BatchID: **R475402**				Seq No: **10973256**	
						Analysis Date / Time: **Jan 20 2022 12:03PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.0098	0.0500	0	0	0	0	0	0	0	0	
Lead	BRL	0.0039	0.0100	0	0	0	0	0	0	0	0	
Selenium	BRL	0.0089	0.0200	0	0	0	0	0	0	0	0	

Sample ID: **CCV**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **475402**	
SampleType: **CCV**	TestCode: **METALS, TOTAL** **SW6010D**					BatchID: **R475402**				Seq No: **10966594**	
						Analysis Date / Time: **Jan 18 2022 12:28PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.014	0.0098	0.0500	1.000	0	101	90	110	0	0	0	
Barium	1.038	0.0048	0.0200	1.000	0	104	90	110	0	0	0	
Cadmium	1.021	0.0016	0.0050	1.000	0	102	90	110	0	0	0	
Calcium	10.36	0.0513	0.100	10.00	0	104	90	110	0	0	0	
Chromium	1.040	0.0067	0.0100	1.000	0	104	90	110	0	0	0	
Lead	1.066	0.0039	0.0100	1.000	0	107	90	110	0	0	0	
Magnesium	10.32	0.0295	0.100	10.00	0	103	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475402

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **CCV** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10966594**
Analysis Date / Time: **Jan 18 2022 12:28PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Selenium	1.018	0.0089	0.0200	1.000	0	102	90	110	0	0	0	
Silver	0.1014	0.0018	0.0100	0.1000	0	101	90	110	0	0	0	

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **CCV** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10966612**
Analysis Date / Time: **Jan 18 2022 1:05PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.006	0.0098	0.0500	1.000	0	101	90	110	0	0	0	
Barium	1.037	0.0048	0.0200	1.000	0	104	90	110	0	0	0	
Cadmium	1.019	0.0016	0.0050	1.000	0	102	90	110	0	0	0	
Calcium	10.33	0.0513	0.100	10.00	0	103	90	110	0	0	0	
Chromium	1.039	0.0067	0.0100	1.000	0	104	90	110	0	0	0	
Lead	1.053	0.0039	0.0100	1.000	0	105	90	110	0	0	0	
Magnesium	10.32	0.0295	0.100	10.00	0	103	90	110	0	0	0	
Selenium	1.028	0.0089	0.0200	1.000	0	103	90	110	0	0	0	B
Silver	0.1010	0.0018	0.0100	0.1000	0	101	90	110	0	0	0	

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **CCV** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10966623**
Analysis Date / Time: **Jan 18 2022 1:59PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9875	0.0098	0.0500	1.000	0	98.7	90	110	0	0	0	
Barium	1.011	0.0048	0.0200	1.000	0	101	90	110	0	0	0	
Cadmium	1.001	0.0016	0.0050	1.000	0	100	90	110	0	0	0	
Calcium	10.06	0.0513	0.100	10.00	0	101	90	110	0	0	0	
Chromium	1.015	0.0067	0.0100	1.000	0	102	90	110	0	0	0	
Lead	1.024	0.0039	0.0100	1.000	0	102	90	110	0	0	0	
Magnesium	10.05	0.0295	0.100	10.00	0	101	90	110	0	0	0	
Selenium	1.026	0.0089	0.0200	1.000	0	103	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475402

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **CCV** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10966623**
Analysis Date / Time: **Jan 18 2022 1:59PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Silver	0.09882	0.0018	0.0100	0.1000	0	98.8	90	110	0	0	0	

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **CCV** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10966629**
Analysis Date / Time: **Jan 18 2022 2:43PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9833	0.0098	0.0500	1.000	0	98.3	90	110	0	0	0	
Barium	1.019	0.0048	0.0200	1.000	0	102	90	110	0	0	0	
Cadmium	1.003	0.0016	0.0050	1.000	0	100	90	110	0	0	0	
Calcium	10.13	0.0513	0.100	10.00	0	101	90	110	0	0	0	
Chromium	1.023	0.0067	0.0100	1.000	0	102	90	110	0	0	0	
Lead	1.051	0.0039	0.0100	1.000	0	105	90	110	0	0	0	
Magnesium	10.14	0.0295	0.100	10.00	0	101	90	110	0	0	0	
Selenium	1.036	0.0089	0.0200	1.000	0	104	90	110	0	0	0	
Silver	0.09938	0.0018	0.0100	0.1000	0	99.4	90	110	0	0	0	

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **CCV** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10966631**
Analysis Date / Time: **Jan 19 2022 9:37AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9120	0.0098	0.0500	1.000	0	91.2	90	110	0	0	0	

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **CCV** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10966634**
Analysis Date / Time: **Jan 19 2022 10:19AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9225	0.0098	0.0500	1.000	0	92.3	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475402

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **CCV** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10973249**
Analysis Date / Time: **Jan 20 2022 11:24AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9763	0.0098	0.0500	1.000	0	97.6	90	110	0	0	0	
Lead	0.9813	0.0039	0.0100	1.000	0	98.1	90	110	0	0	0	
Selenium	0.9660	0.0089	0.0200	1.000	0	96.6	90	110	0	0	0	

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **CCV** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10973255**
Analysis Date / Time: **Jan 20 2022 12:00PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9965	0.0098	0.0500	1.000	0	99.7	90	110	0	0	0	
Lead	0.9900	0.0039	0.0100	1.000	0	99.0	90	110	0	0	0	
Selenium	0.9876	0.0089	0.0200	1.000	0	98.8	90	110	0	0	0	

Sample ID: **CRI** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **CRI** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10966577**
Analysis Date / Time: **Jan 18 2022 11:11AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Barium	0.008970	0.0048	0.0200	0.0100	0	89.7	70	130	0	0	0	
Cadmium	0.005400	0.0016	0.0050	0.0050	0	108	70	130	0	0	0	
Calcium	0.09909	0.0513	0.100	0.1000	0	99.1	70	130	0	0	0	
Chromium	0.01011	0.0067	0.0100	0.0100	0	101	70	130	0	0	0	
Lead	0.01086	0.0039	0.0100	0.0100	0	109	70	130	0	0	0	
Magnesium	0.1004	0.0295	0.100	0.1000	0	100	70	130	0	0	0	
Selenium	0.01934	0.0089	0.0200	0.0200	0	96.7	70	130	0	0	0	
Silver	0.004620	0.0018	0.0100	0.0050	0	92.4	70	130	0	0	0	

Sample ID: **CRI** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **CRI** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10966581**
Analysis Date / Time: **Jan 18 2022 11:20AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475402

Sample ID: **CRI**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **475402**	
SampleType: **CRI**	TestCode: **METALS, TOTAL**	**SW6010D**				BatchID: **R475402**				Seq No: **10966581**	
						Analysis Date / Time: **Jan 18 2022 11:20AM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.04504	0.0098	0.0500	0.0500	0	90.1	70	130	0	0	0	

Sample ID: **CRI**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **475402**	
SampleType: **CRI**	TestCode: **METALS, TOTAL**	**SW6010D**				BatchID: **R475402**				Seq No: **10973238**	
						Analysis Date / Time: **Jan 19 2022 11:41AM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.04989	0.0098	0.0500	0.0500	0	99.8	70	130	0	0	0	
Lead	0.009730	0.0039	0.0100	0.0100	0	97.3	70	130	0	0	0	

Sample ID: **CRI**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **475402**	
SampleType: **CRI**	TestCode: **METALS, TOTAL**	**SW6010D**				BatchID: **R475402**				Seq No: **10973241**	
						Analysis Date / Time: **Jan 19 2022 12:23PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Selenium	0.02293	0.0089	0.0200	0.0200	0	115	70	130	0	0	0	

Sample ID: **CRI-5**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **475402**	
SampleType: **CRI**	TestCode: **METALS, TOTAL**	**SW6010D**				BatchID: **R475402**				Seq No: **10966633**	
						Analysis Date / Time: **Jan 19 2022 10:08AM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.01146	0.0098	0.0500	0.0100	0	115	70	130	0	0	0	

Sample ID: **CRI-5**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **475402**	
SampleType: **CRI**	TestCode: **METALS, TOTAL**	**SW6010D**				BatchID: **R475402**				Seq No: **10973243**	
						Analysis Date / Time: **Jan 19 2022 12:38PM**					
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.01083	0.0098	0.0500	0.0100	0	108	70	130	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475402

Sample ID: **CRI-MID LEVEL** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **CCV** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10966584**
Analysis Date / Time: **Jan 18 2022 11:55AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.018	0.0098	0.0500	1.000	0	102	90	110	0	0	0	
Barium	1.036	0.0048	0.0200	1.000	0	104	90	110	0	0	0	
Cadmium	1.016	0.0016	0.0050	1.000	0	102	90	110	0	0	0	
Calcium	10.37	0.0513	0.100	10.00	0	104	90	110	0	0	0	
Chromium	1.036	0.0067	0.0100	1.000	0	104	90	110	0	0	0	
Lead	1.048	0.0039	0.0100	1.000	0	105	90	110	0	0	0	
Magnesium	10.31	0.0295	0.100	10.00	0	103	90	110	0	0	0	
Selenium	1.035	0.0089	0.0200	1.000	0	104	90	110	0	0	0	
Silver	0.1017	0.0018	0.0100	0.1000	0	102	90	110	0	0	0	

Sample ID: **CRI-MID LEVEL** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **CCV** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10973244**
Analysis Date / Time: **Jan 19 2022 12:41PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.035	0.0098	0.0500	1.000	0	103	90	110	0	0	0	
Lead	1.013	0.0039	0.0100	1.000	0	101	90	110	0	0	0	
Selenium	1.012	0.0089	0.0200	1.000	0	101	90	110	0	0	0	

Sample ID: **ICB** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **ICB** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10966576**
Analysis Date / Time: **Jan 18 2022 10:41AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.0098	0.0500	0	0	0	0	0	0	0	0	
Barium	BRL	0.0048	0.0200	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.0016	0.0050	0	0	0	0	0	0	0	0	
Calcium	BRL	0.0513	0.100	0	0	0	0	0	0	0	0	
Chromium	BRL	0.0067	0.0100	0	0	0	0	0	0	0	0	
Lead	BRL	0.0039	0.0100	0	0	0	0	0	0	0	0	
Magnesium	BRL	0.0295	0.100	0	0	0	0	0	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475402

Sample ID: **ICB** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **ICB** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10966576**
Analysis Date / Time: **Jan 18 2022 10:41AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Selenium	BRL	0.0089	0.0200	0	0	0	0	0	0	0	0	
Silver	BRL	0.0018	0.0100	0	0	0	0	0	0	0	0	

Sample ID: **ICB** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **ICB** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10973237**
Analysis Date / Time: **Jan 19 2022 11:18AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.0098	0.0500	0	0	0	0	0	0	0	0	
Lead	BRL	0.0039	0.0100	0	0	0	0	0	0	0	0	
Selenium	0.009980	0.0089	0.0200	0	0	0	0	0	0	0	0	J

Sample ID: **ICSA** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **ICSA** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10966578**
Analysis Date / Time: **Jan 18 2022 11:14AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.0098	0.0500	0	0	0	80	120	0	0	0	
Barium	BRL	0.0048	0.0200	0	0	0	80	120	0	0	0	
Cadmium	BRL	0.0016	0.0050	0	0	0	80	120	0	0	0	
Calcium	234.6	0.0513	0.100	250.0	0	93.8	80	120	0	0	0	E
Chromium	BRL	0.0067	0.0100	0	0	0	80	120	0	0	0	
Lead	BRL	0.0039	0.0100	0	0	0	80	120	0	0	0	
Magnesium	246.0	0.0295	0.100	250.0	0	98.4	80	120	0	0	0	
Selenium	BRL	0.0089	0.0200	0	0	0	80	120	0	0	0	
Silver	BRL	0.0018	0.0100	0	0	0	80	120	0	0	0	

Sample ID: **ICSA** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **ICSA** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10973239**
Analysis Date / Time: **Jan 19 2022 11:47AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475402

Sample ID: **ICSA** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **ICSA** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10973239**
Analysis Date / Time: **Jan 19 2022 11:47AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.0098	0.0500	0	0	0	80	120	0	0	0	
Lead	BRL	0.0039	0.0100	0	0	0	80	120	0	0	0	
Selenium	BRL	0.0089	0.0200	0	0	0	80	120	0	0	0	

Sample ID: **ICSAB** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **ICSAB** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10966579**
Analysis Date / Time: **Jan 18 2022 11:17AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.4503	0.0098	0.0500	0.5000	0	90.1	80	120	0	0	0	
Barium	0.4716	0.0048	0.0200	0.5000	0	94.3	80	120	0	0	0	
Cadmium	0.4899	0.0016	0.0050	0.5000	0	98.0	80	120	0	0	0	
Calcium	244.2	0.0513	0.100	255.0	0	95.8	80	120	0	0	0	E
Chromium	0.4671	0.0067	0.0100	0.5000	0	93.4	80	120	0	0	0	
Lead	0.4594	0.0039	0.0100	0.5000	0	91.9	80	120	0	0	0	
Magnesium	255.0	0.0295	0.100	255.0	0	100	80	120	0	0	0	
Selenium	0.4817	0.0089	0.0200	0.5000	0	96.3	80	120	0	0	0	
Silver	0.05006	0.0018	0.0100	0.0500	0	100	80	120	0	0	0	

Sample ID: **ICSAB** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **ICSAB** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10973240**
Analysis Date / Time: **Jan 19 2022 11:50AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.4606	0.0098	0.0500	0.5000	0	92.1	80	120	0	0	0	
Lead	0.4528	0.0039	0.0100	0.5000	0	90.6	80	120	0	0	0	
Selenium	0.4577	0.0089	0.0200	0.5000	0	91.5	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475402

Sample ID: **ICV** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **ICV** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10966575**
Analysis Date / Time: **Jan 18 2022 10:38AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.5075	0.0098	0.0500	0.5000	0	102	90	110	0	0	0	
Barium	0.5172	0.0048	0.0200	0.5000	0	103	90	110	0	0	0	
Cadmium	0.5043	0.0016	0.0050	0.5000	0	101	90	110	0	0	0	
Calcium	5.149	0.0513	0.100	5.000	0	103	90	110	0	0	0	
Chromium	0.5148	0.0067	0.0100	0.5000	0	103	90	110	0	0	0	
Lead	0.5160	0.0039	0.0100	0.5000	0	103	90	110	0	0	0	
Magnesium	5.083	0.0295	0.100	5.000	0	102	90	110	0	0	0	
Selenium	0.5040	0.0089	0.0200	0.5000	0	101	90	110	0	0	0	
Silver	0.05046	0.0018	0.0100	0.0500	0	101	90	110	0	0	0	

Sample ID: **ICV** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **ICV** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10973236**
Analysis Date / Time: **Jan 19 2022 11:15AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.4868	0.0098	0.0500	0.5000	0	97.4	90	110	0	0	0	
Lead	0.5028	0.0039	0.0100	0.5000	0	101	90	110	0	0	0	
Selenium	0.4982	0.0089	0.0200	0.5000	0	99.6	90	110	0	0	0	

Sample ID: **LCR 1** Client ID: Units: **mg/L** Prep Date: Run No: **475402**
SampleType: **CCV** TestCode: **METALS, TOTAL** **SW6010D** BatchID: **R475402** Seq No: **10966585**
Analysis Date / Time: **Jan 18 2022 11:58AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	19.50	0.0098	0.0500	20.00	0	97.5	90	110	0	0	0	
Barium	18.42	0.0048	0.0200	20.00	0	92.1	90	110	0	0	0	
Cadmium	19.19	0.0016	0.0050	20.00	0	96.0	90	110	0	0	0	
Calcium	190.8	0.0513	0.100	200.0	0	95.4	90	110	0	0	0	
Chromium	18.51	0.0067	0.0100	20.00	0	92.6	90	110	0	0	0	
Magnesium	193.5	0.0295	0.100	200.0	0	96.8	90	110	0	0	0	
Selenium	19.41	0.0089	0.0200	20.00	0	97.1	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2201A78

ANALYTICAL QC SUMMARY REPORT

BatchID: R475402

Sample ID: **LCR 2**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **475402**		
SampleType: **CCV**	TestCode: **METALS, TOTAL**	**SW6010D**				BatchID: **R475402**				Seq No: **10966586**		
						Analysis Date / Time: **Jan 18 2022 12:01PM**						
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Silver	1.019	0.0018	0.0100	1.000	0	102	90	110	0	0	0	

Sample ID: **LCR 3**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **475402**		
SampleType: **CCV**	TestCode: **METALS, TOTAL**	**SW6010D**				BatchID: **R475402**				Seq No: **10973247**		
						Analysis Date / Time: **Jan 19 2022 12:52PM**						
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	5.088	0.0098	0.0500	5.000	0	102	90	110	0	0	0	
Selenium	5.046	0.0089	0.0200	5.000	0	101	90	110	0	0	0	

Sample ID: **LCR-Pb-Inhouse**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **475402**		
SampleType: **CCV**	TestCode: **METALS, TOTAL**	**SW6010D**				BatchID: **R475402**				Seq No: **10966588**		
						Analysis Date / Time: **Jan 18 2022 12:07PM**						
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	216.2	0.0039	0.0100	200.0	0	108	90	110	0	0	0	E

Sample ID: **LCR-Pb-Inhouse**	Client ID:					Units: **mg/L**	Prep Date:			Run No: **475402**		
SampleType: **CCV**	TestCode: **METALS, TOTAL**	**SW6010D**				BatchID: **R475402**				Seq No: **10973248**		
						Analysis Date / Time: **Jan 19 2022 12:55PM**						
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	207.6	0.0039	0.0100	200.0	0	104	90	110	0	0	0	E

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

End of Report

Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **1/14/2022 2:18:16 P**
Prep End Date: **1/14/2022 4:00:00 P**

Prep Batch **329065** Prep Code: **TSS_P** Technician: **Jesus Pineda**

Prep Factor Units: **mL / mL**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2201915-002B	Waste Water		200	0	0	1	0.005	1/14/2022	1/14/2022
2201915-002BDUP	Waste Water		200	0	0	1	0.005	1/14/2022	1/14/2022
2201A78-001D	Waste Water		30	0	0	1	0.033	1/14/2022	1/14/2022
VSS ONLY									
2201C30-001D	Aqueous		50	0	0	1	0.020	1/14/2022	1/14/2022
2201C31-001C	Waste Water		200	0	0	1	0.005	1/14/2022	1/14/2022
2201C31-002C	Waste Water		110	0	0	1	0.009	1/14/2022	1/14/2022
2201C34-001A	Waste Water		250	0	0	1	0.004	1/14/2022	1/14/2022
2201C34-002A	Waste Water		250	0	0	1	0.004	1/14/2022	1/14/2022
2201C34-003A	Waste Water		250	0	0	1	0.004	1/14/2022	1/14/2022
2201C34-004A	Waste Water		250	0	0	1	0.004	1/14/2022	1/14/2022
2201C37-001A	Waste Water		200	0	0	1	0.005	1/14/2022	1/14/2022
2201D24-009A	Aqueous		200	0	0	1	0.005	1/14/2022	1/14/2022
2201D29-001F	Waste Water		200	0	0	1	0.005	1/14/2022	1/14/2022
2201D47-002A	Aqueous		200	0	0	1	0.005	1/14/2022	1/14/2022
2201D47-003A	Aqueous		5	0	0	1	0.200	1/14/2022	1/14/2022
2201D88-001C	Aqueous		200	0	0	1	0.005	1/14/2022	1/14/2022
2201D91-001B	Waste Water		80	0	0	1	0.013	1/14/2022	1/14/2022
2201E02-001A	Aqueous		200	0	0	1	0.005	1/14/2022	1/14/2022
2201E26-001A	Waste Water		5	0	0	1	0.200	1/14/2022	1/14/2022
2201E26-004A	Waste Water		2	0	0	1	0.500	1/14/2022	1/14/2022
2201E53-001A	Aqueous		200	0	0	1	0.005	1/14/2022	1/14/2022
LCS-329065			50	0	0	1	0.020	1/14/2022	1/14/2022

Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **1/14/2022 2:18:16 P**
Prep End Date: **1/14/2022 4:00:00 P**

Prep Batch **329065** Prep Code: **TSS_P** Technician: **Jesus Pineda**

Prep Factor Units: **mL / mL**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-329065			200	0	0	1	0.005	1/14/2022	1/14/2022

AES, Inc.
3080 Presidential Drive
Atlanta, GA 30340

Total Suspended Solids (TSS) Dried at 103-105°C

Standard Method 2540 D-2015

AES SOP GL-08079 (Aqueous Matrix)

Batch ID 329065 | Oven ID 2317 | Thermometer ID 2230 | Balance ID 1700

Instrument Run ID TSS-1_220114C | Time Samples in Oven 3:21:00 PM | Time Oven Equilibrates 3:21:00 PM | Temp at Equilibration°C 105

Time Samples out of Oven 10:41:00 AM | Temp at end of Test°C 103 | Tray Identifier C

Sample ID	Pan Number	Analyst	Prep Start Date and Time	Prep End Date and Time	C Sample Volume Filtered (mL)	B Filter Weight (g)	A First Weighing (g)	A* 2nd Weighing (g)	A* 3rd Weighing (g), if needed	A* 4th Weighing (g), if needed	Difference of last 2 weighings **	Residue, Suspended Weight (g)	Residue, Suspended (TSS) (mg/L)	Sample Requires Further Analysis
MB-329065	47	JP	1/14/22 14:18	1/14/22 16:00	200	0.1167	0.1167	0.1167			0.0000	0.0000	0.000	VSS
LCS-329065	48	JP	1/14/22 14:18	1/14/22 16:00	50	0.1180	0.1268	0.1269			0.0001	0.0089	178.000	VSS
2201915-002B	49	JP	1/14/22 14:18	1/14/22 16:00	200	0.1200	0.1206	0.1206			0.0000	0.0006	3.000	VSS
2201915-002BDUP	50	JP	1/14/22 14:18	1/14/22 16:00	200	0.1175	0.1183	0.1181			0.0002	0.0006	3.000	VSS
2201A78-001D	51	JP	1/14/22 14:18	1/14/22 16:00	30	0.1165	0.1387	0.1386			0.0001	0.0221	736.667	VSS
2201C30-001D	52	JP	1/14/22 14:18	1/14/22 16:00	50	0.1203	0.1248	0.1247			0.0001	0.0044	88.000	
2201C31-001C	53	JP	1/14/22 14:18	1/14/22 16:00	200	0.1176	0.1184	0.1182			0.0002	0.0006	3.000	
2201C31-002C	54	JP	1/14/22 14:18	1/14/22 16:00	110	0.1177	0.1273	0.1271			0.0002	0.0094	85.455	
2201C34-001A	55	JP	1/14/22 14:18	1/14/22 16:00	250	0.1184	0.1190	0.1190			0.0000	0.0006	2.400	
2201C34-002A	56	JP	1/14/22 14:18	1/14/22 16:00	250	0.1196	0.1204	0.1204			0.0000	0.0008	3.200	
2201C34-003A	57	JP	1/14/22 14:18	1/14/22 16:00	250	0.1177	0.1186	0.1186			0.0000	0.0009	3.600	
2201C34-004A	58	JP	1/14/22 14:18	1/14/22 16:00	250	0.1169	0.1181	0.1180			0.0001	0.0011	4.400	
2201C37-001A	59	JP	1/14/22 14:18	1/14/22 16:00	200	0.1188	0.1277	0.1275			0.0002	0.0087	43.500	
2201D24-009A	60	JP	1/14/22 14:18	1/14/22 16:00	200	0.1180	0.1315	0.1314			0.0001	0.0134	67.000	
2201D29-001F	61	JP	1/14/22 14:18	1/14/22 16:00	200	0.1178	0.1211	0.1210			0.0001	0.0032	16.000	
2201D47-002A	62	JP	1/14/22 14:18	1/14/22 16:00	200	0.1172	0.1201	0.1201			0.0000	0.0029	14.500	
2201D47-003A	63	JP	1/14/22 14:18	1/14/22 16:00	5	0.1178	0.1379	0.1380			0.0001	0.0202	4040.000	VSS
2201D88-001C	64	JP	1/14/22 14:18	1/14/22 16:00	200	0.1174	0.1229	0.1227			0.0002	0.0053	26.500	
2201D91-001B	65	JP	1/14/22 14:18	1/14/22 16:00	80	0.1172	0.1372	0.1370			0.0002	0.0198	247.500	
2201E02-001A	66	JP	1/14/22 14:18	1/14/22 16:00	200	0.1180	0.1203	0.1202			0.0001	0.0022	11.000	
2201E26-001A	67	JP	1/14/22 14:18	1/14/22 16:00	5	0.1170	0.1411	0.1412			0.0001	0.0242	4840.000	VSS
2201E26-004A	68	JP	1/14/22 14:18	1/14/22 16:00	2	0.1165	0.1511	0.1508			0.0003	0.0343	17150.000	VSS
2201E53-001A	69	JP	1/14/22 14:18	1/14/22 16:00	200	0.1196	0.1205	0.1205			0.0000	0.0009	4.500	

LCS Recovery TSS, mg/L

LCS ID	Nominal Value	Range	% Recovery Range		Calc. Value	% Recovery
30694-72691	200.30	52.80	73.64	126.36	178.00	88.87

Note: The LCS Calc. Value cell will highlight yellow when the recovery is outside the manufacturer's specified range.

Filter Verification***

Init. Wt	LR	HR	Final Wt.
0.1167	0.1162	0.1172	0.1167

See Note on page 2 of this spreadsheet

	%RPD	Limit
Duplicate 1	0.00	(≤10%)

Calculation: Residue, Suspended Weight (g) = **A* - B**

Calculation: Residue, Suspended (TSS) (mg/L) = $\frac{\text{(A* - B) x 1,000,000}}{\text{C}}$

A = Weight of dry Pan + Weight of dry Sample (g) **B = Weight of dry Pan (g)** **C = Sample Volume (mL)**

Note: A* = The last weighing needed to produce a consistent result that did not differ from the previous weighing by more than 0.0005g

Note: ** = The difference between the last two weighings which must be less than 0.0005g. If true, subsequent weighings are not needed.

Note: The Residue Suspended Weight (g) is the value entered into LIMS for the final calculated value of Residue, Suspended (TSS) in mg/L.

Note: For samples requiring Volatile Suspended Solids type VSS into the "Sample Requires Further Analysis" cell to transfer information pertaining to the drying of the sample.

AES, Inc.
3080 Presidential Drive
Atlanta, GA 30340

The Time the Oven Equilibrates to the Time the Test Ends must be ≥1hr

(Oven Temp Range = 103-105°C)

Total Suspended Solids (TSS) Dried at 103-105°C

Standard Method 2540 D-2015

AES SOP G-08079 (Aqueous Matrix)

Sample ID	TSS Result (mg/L)	Analysis Comments	Batch Comments	Preparation/Analysis Comments
MB-329065	0.000			
LCS-329065	178.000			
2201915-002B	3.000			
2201915-002BDUP	3.000			
2201A78-001D	736.667	Reduced Sample Volume Due to Matirx	VSS ONLY	
2201C30-001D	88.000	Reduced Sample Volume Due to Matirx		
2201C31-001C	3.000			
2201C31-002C	85.455	Reduced Sample Volume Due to Matirx		
2201C34-001A	2.400			
2201C34-002A	3.200			
2201C34-003A	3.600			
2201C34-004A	4.400			
2201C37-001A	43.500			
2201D24-009A	67.000			
2201D29-001F	16.000			
2201D47-002A	14.500			
2201D47-003A	4040.000	Reduced Sample Volume Due to Matirx		
2201D88-001C	26.500			
2201D91-001B	247.500	Reduced Sample Volume Due to Matirx		
2201E02-001A	11.000			
2201E26-001A	4840.000	Reduced Sample Volume Due to Matirx		
2201E26-004A	17150.000	Reduced Sample Volume Due to Matirx		
2201E53-001A	4.500			

***Filter Verification: Per Standard Method 2540 D 3.a, "Verify filters using method blanks. Filters are verified if the measured weight differs from the manufacturer's weight by less than +/-0.5mg".
This verification is performed on the spreadsheet by subtracting and adding 0.5mg (cells L40 (LR = Lower Range) & M40 (HR = Higher Range) to the manufacturer's stated initial filter weight (cell J14). The final filter weight for the Method Blank (cell O40) is then compared to the lower and higher ranges and will highlight yellow if outside the specified values.

AES, Inc.
3080 Presidential Drive
Atlanta, GA 30340

Flashpoint (EPA 1010A)

for the Determination of Ignitability
AES SOP GL-08037

Document ID: GenC-038

Batch No.: R475336
Analyst: GR
Thermometer ID: AES # 2457

Instrument Run ID: FPA -3-220118A
Flashpoint Unit: 2677
Date: 1.18.22

Sample ID	Initial Temp. (°F)	Flash Temp. (°F)	Barometric Pressure (TUBP)*	Corrected Flash Point**	Flash (YES/NO)	Comments
LCS (p-Xylene)	59	81	743.9	82	Yes	30.24
2201A71-006D	70	>180		>180	No	
2201A71-006D DUP	68	>180		>180	No	
~~2201A71-007D~~ GR 1.18.22						
2201A78-001E	70	>180		>180	No	
2201A71-008C	69	>180		>180	No	
2201D13-001A	49	<49		<50	Yes	The sample jacked @49F and was analy right after taking out of the fridge.
2201632-001C	69	>180	743.17	>180	No	30.21
2201632-006C	69	>180		>180	No	
2201A62-001C	65	>180		>180	No	
CCV (p-Xylene)	58	78	742.18	79	Yes	30.17

LCS (p-Xylene): AES # 27870 TV = 81 °F
CCV (p-Xylene): AES # 27349 TV = 81 °F

Flashed: 82 °F
Flashed: 79 °F

Acceptance p-xylene: 81°F ± 2°F

*TUBP = Current Pressure (in Hg) x (24.60) = TUBP in mm Hg [reported from Weather Channel for 30340 at time of analysis]

**Corrected Flash Point = °F + 0.06 [760 - TUBP(mm Hg)]; °F = observed flash point

Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **1/17/2022 1:53:00 P**
Prep End Date: **1/18/2022 1:52:00 P**

Prep Batch **329166** Prep Code: **7470A_W_P** Technician: **Galina Ruth**

Prep Factor Units: **mL / mL**

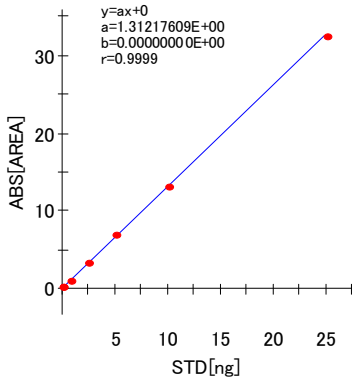
Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2101079-017A	Aqueous		5	0	0	5	1.000	1/17/2022	1/18/2022
2101079-018A	Aqueous		5	0	0	5	1.000	1/17/2022	1/18/2022
2201A25-001D	Surface Water		5	0	0	5	1.000	1/17/2022	1/18/2022
2201A25-001DMS	Surface Water		5	0	0	5	1.000	1/17/2022	1/18/2022
2201A25-001DMSD	Surface Water		5	0	0	5	1.000	1/17/2022	1/18/2022
2201A74-001C	Groundwater		1	0	0	5	5.000	1/17/2022	1/18/2022
2201A74-002C	Groundwater		0.5	0	0	5	10.000	1/17/2022	1/18/2022
2201A74-003C	Groundwater		0.5	0	0	5	10.000	1/17/2022	1/18/2022
2201A74-005C	Groundwater		0.5	0	0	5	10.000	1/17/2022	1/18/2022
2201A74-006C	Groundwater		1	0	0	5	5.000	1/17/2022	1/18/2022
2201A74-008C	Groundwater		0.5	0	0	5	10.000	1/17/2022	1/18/2022
2201A78-001C	Waste Water		0.5	0	0	5	10.000	1/17/2022	1/18/2022
2201B07-002A	Waste Water		1	0	0	5	5.000	1/17/2022	1/18/2022
2201D29-001C	Waste Water		1	0	0	5	5.000	1/17/2022	1/18/2022
2201D46-001A	Aqueous		2.5	0	0	5	2.000	1/17/2022	1/18/2022
2201D46-003A	Aqueous		2.5	0	0	5	2.000	1/17/2022	1/18/2022
2201E12-001D	Waste Water		5	0	0	5	1.000	1/17/2022	1/18/2022
2201E12-001DMS	Waste Water		5	0	0	5	1.000	1/17/2022	1/18/2022
2201E18-001A	Waste Water		1	0	0	5	5.000	1/17/2022	1/18/2022
LCS-329166			5	0	0	5	1.000	1/17/2022	1/18/2022
MB-329166			5	0	0	5	1.000	1/17/2022	1/18/2022

Title : 245.1/7470 by RA-4500
Date : 1/17/2022
Name : GR
Memo : Samples prepped at loaded by GR and checked SK

Method

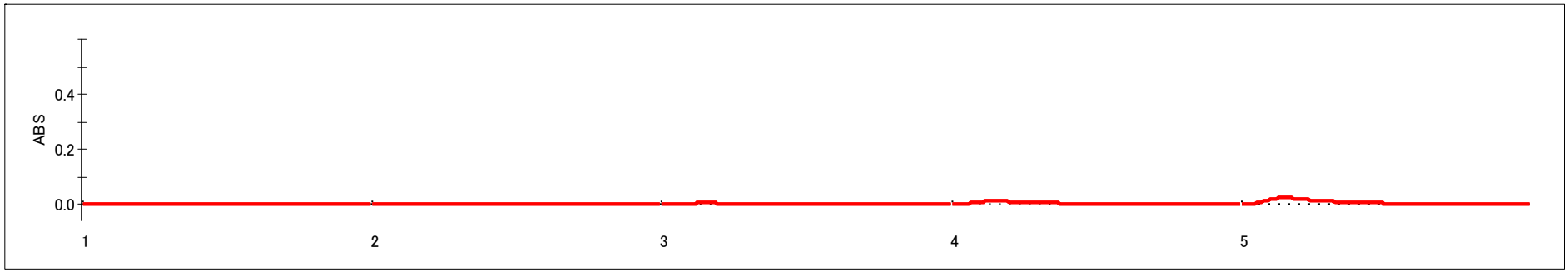
ANALYSIS ONLY(Pretreatment:without)
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL
Measurement Time(sec) : 120sec
Since measurement conditions are changed
correspond with a measurement result.

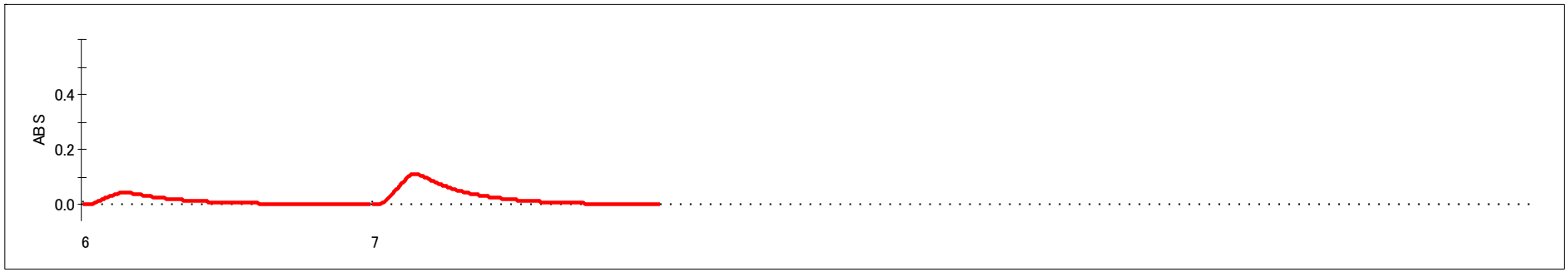
Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	Color		TIME			Note
									[1]	[2]	Pre-t.	M.START	M.END	
1	0.000	5.000	5.000	5.000	0.000	0.4097	0.3122	-	-	OK		16:48	16:50	
2	0.000	5.000	5.000	5.000	0.000	0.3155	0.2404	-	-	OK		16:52	16:54	
3	0.160	5.000	5.000	5.000	0.800	1.2287	0.9364	17.1	-	OK		16:56	16:58	
4	0.500	5.000	5.000	5.000	2.500	3.5038	2.6702	6.8	-	OK		17:00	17:02	
5	1.000	5.000	5.000	5.000	5.000	7.0744	5.3913	7.8	-	OK		17:04	17:06	
6	2.000	5.000	5.000	5.000	10.000	13.2726	10.1150	1.2	-	OK		17:08	17:10	
7	5.000	5.000	5.000	5.000	25.000	32.6133	24.8544	0.6	-	OK		17:12	17:14	





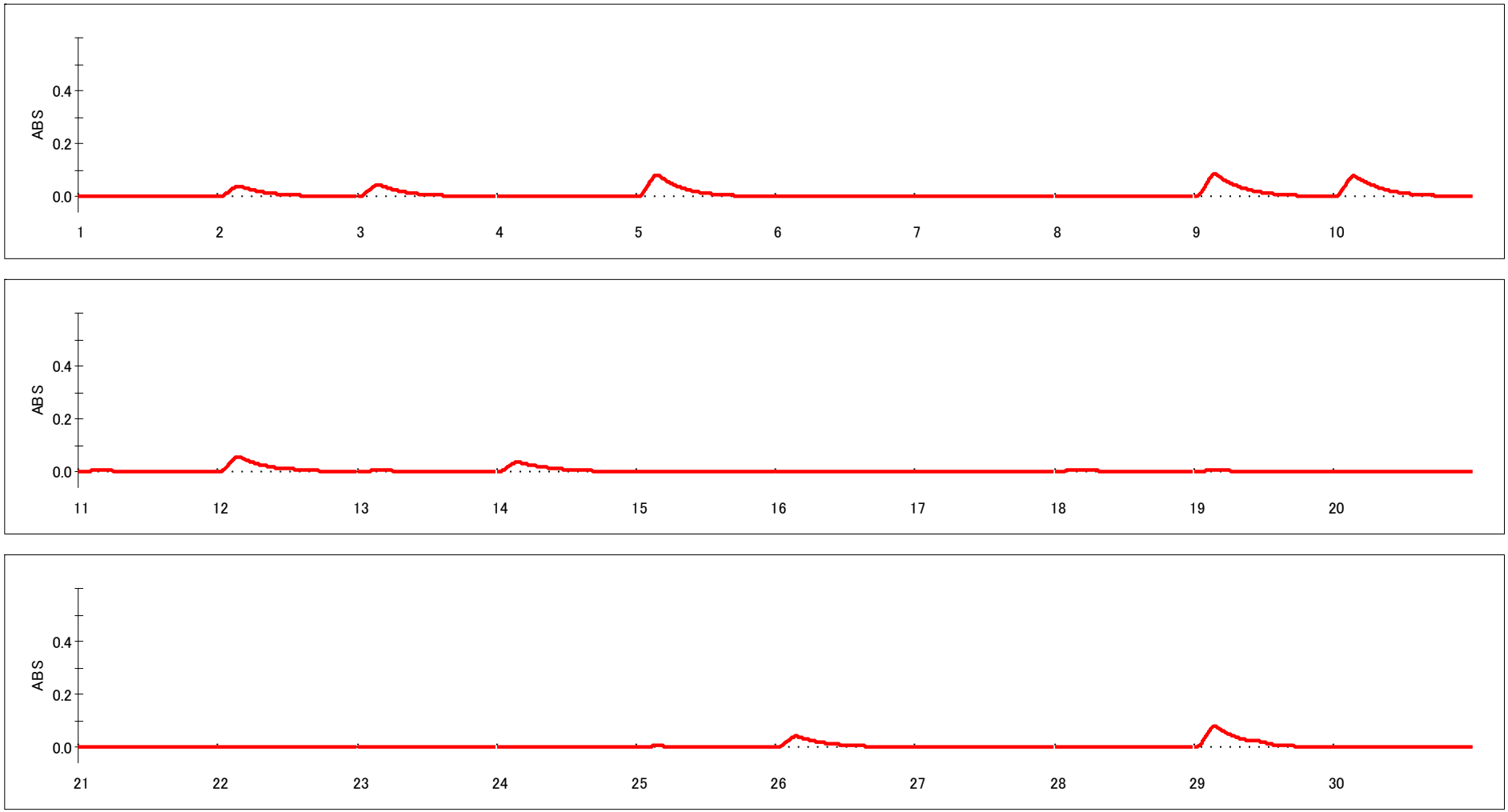
SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Color		TIME			Note
								[1]	[2]	Pre-t.	M.START	M.END	
1	ICB	5.000	5.000	5.000	0.2898	0.2209	0.044	-	OK		17:16	17:18	
2	ICV	5.000	5.000	5.000	11.9027	9.0710	1.814	-	OK		17:19	17:21	
3	IPC 2.0	5.000	5.000	5.000	13.3829	10.1990	2.040	-	OK		17:23	17:25	
4	MB-329166	5.000	5.000	5.000	0.3745	0.2854	0.057	-	OK		17:31	17:33	
5	LCS-329166	5.000	5.000	5.000	24.4645	18.6442	3.729	-	OK		17:35	17:37	
6	2101079-017A	5.000	5.000	5.000	0.2202	0.1678	0.034	-	OK		17:39	17:41	
7	2101079-018A	5.000	5.000	5.000	0.3609	0.2750	0.055	-	OK		17:43	17:45	
8	2201A25-001D	5.000	5.000	5.000	0.3496	0.2664	0.053	-	OK		17:47	17:49	
9	2201A25-001DMS	5.000	5.000	5.000	26.4489	20.1565	4.031	-	OK		17:51	17:53	
10	2201A25-001DMSD	5.000	5.000	5.000	24.3817	18.5811	3.716	-	OK		17:55	17:57	
11	2201E12-001D	5.000	5.000	5.000	1.8014	1.3728	0.275	-	OK		17:59	18:01	
12	2201E12-001DMS	5.000	5.000	5.000	18.6935	14.2462	2.849	-	OK		18:03	18:05	

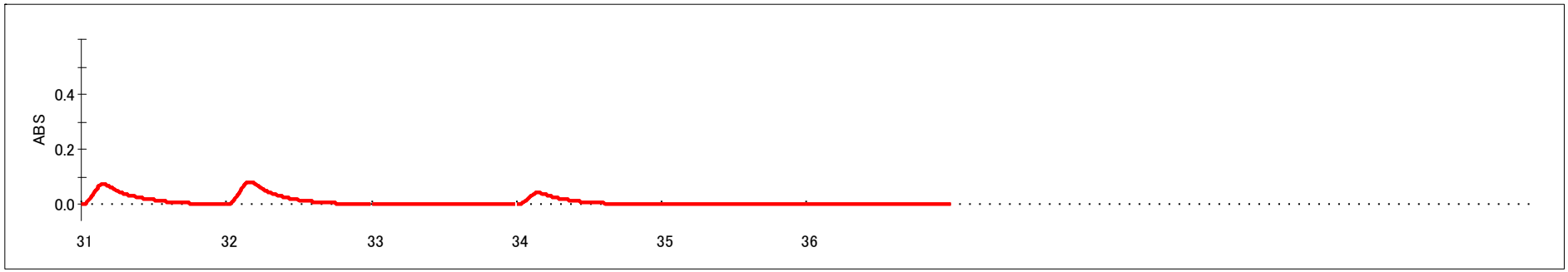
No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Color		TIME			Note
								[1]	[2]	Pre-t.	M.START	M.END	
13	2201A74-001C/5X	5.000	5.000	5.000	1.8600	1.4175	0.284	-	OK		18:07	18:09	
14	CCV	5.000	5.000	5.000	13.0945	9.9792	1.996	-	OK		18:15	18:17	
15	CCB	5.000	5.000	5.000	0.3537	0.2696	0.054	-	OK		18:18	18:20	
16	2201A74-002C/10X	5.000	5.000	5.000	0.6711	0.5114	0.102	-	OK		18:22	18:24	
17	2201A74-003C/10X	5.000	5.000	5.000	0.5403	0.4118	0.082	-	OK		18:26	18:28	
18	2201A74-005C/10X	5.000	5.000	5.000	2.4394	1.8590	0.372	-	OK		18:30	18:32	
19	2201A74-006C/5X	5.000	5.000	5.000	1.9758	1.5057	0.301	-	OK		18:34	18:36	
20	2201A74-008C10X	5.000	5.000	5.000	0.4124	0.3143	0.063	-	OK		18:38	18:40	
21	2201A78-001C/10X	5.000	5.000	5.000	0.2374	0.1809	0.036	-	OK		18:42	18:44	
22	2201B07-002A/5X	5.000	5.000	5.000	0.5760	0.4390	0.088	-	OK		18:46	18:48	
23	2201D29-001C/5X	5.000	5.000	5.000	0.2934	0.2236	0.045	-	OK		18:50	18:52	
24	2201D46-001A/20X	5.000	5.000	5.000	0.3945	0.3006	0.060	-	OK		18:54	18:56	
25	2201D46-003A/20X	5.000	5.000	5.000	1.3905	1.0597	0.212	-	OK		18:58	19:00	
26	CCV	5.000	5.000	5.000	13.2586	10.1043	2.021	-	OK		19:06	19:08	
27	CCB	5.000	5.000	5.000	0.3039	0.2316	0.046	-	OK		19:10	19:12	
28	2201E18-001A/5X	5.000	5.000	5.000	0.8427	0.6422	0.128	-	OK		19:13	19:15	
29	LCS-329066	5.000	5.000	5.000	25.3305	19.3042	3.861	-	OK		19:17	19:19	
30	MB-329066	5.000	5.000	5.000	0.3056	0.2329	0.047	-	OK		19:21	19:23	
31	2201A71-007CMS/50X	5.000	5.000	5.000	24.9122	18.9854	3.797	-	OK		19:25	19:27	
32	2201A71-007CMSD/50X	5.000	5.000	5.000	27.0971	20.6505	4.130	-	OK		19:29	19:31	
33	2201A71-007C/50X	5.000	5.000	5.000	0.2191	0.1670	0.033	-	OK		19:33	19:35	
34	CCV	5.000	5.000	5.000	13.1539	10.0245	2.005	-	OK		19:45	19:47	
35	CCB	5.000	5.000	5.000	0.2548	0.1942	0.039	-	OK		19:49	19:51	
36	CRA 0.16	5.000	5.000	5.000	0.7511	0.5724	0.114	-	-		08:16	08:18	

Statistics

No.	NAME	TRY	AV [ug/L]	SD [ug/L]	Cv [%]
1	CCV	3	2.0073	0.012662	0.63
2	CCB	3	0.0463	0.007506	16.21



NIPPON INSTRUMENTS CORPORATION



Self Check

Heat check:PASS!! (22.3degC[05:00] -> 26.3degC[03:13])
Sensor check:PASS!! (252-   0= 252)
Leak check:PASS!! (0.18L/min)
Sig/Ref check:PASS!! (Sig:4.35V, Ref:4.29V)
Drift check:PASS!! (0.0000006 - -0.0000399 = 0.0000406)

Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **1/17/2022 10:20:00**
Prep End Date: **1/18/2022 10:19:00**

Prep Batch **329049** Prep Code: **3010A** Technician: **Svetlana Alikova**

Prep Factor Units: **mL / mL**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2201A25-001D	Surface Water		50	0	0	50	1.000	1/17/2022	1/18/2022
2201A74-001C	Groundwater		50	0	0	50	1.000	1/17/2022	1/18/2022
2201A74-002C	Groundwater		50	0	0	50	1.000	1/17/2022	1/18/2022
2201A74-003C	Groundwater		50	0	0	50	1.000	1/17/2022	1/18/2022
2201A74-005C	Groundwater		50	0	0	50	1.000	1/17/2022	1/18/2022
2201A74-006C	Groundwater		50	0	0	50	1.000	1/17/2022	1/18/2022
2201A74-008C	Groundwater		50	0	0	50	1.000	1/17/2022	1/18/2022
2201A78-001C	Waste Water		50	0	0	50	1.000	1/17/2022	1/18/2022
2201B31-001B	Surface Water		50	0	0	50	1.000	1/17/2022	1/18/2022
2201B31-001BDL	Surface Water		50	0	0	50	1.000	1/17/2022	1/18/2022
2201B31-001BMS	Surface Water		50	0	0	50	1.000	1/17/2022	1/18/2022
2201B31-001BMSD	Surface Water		50	0	0	50	1.000	1/17/2022	1/18/2022
2201B31-001BPDS	Surface Water		50	0	0	50	1.000	1/17/2022	1/18/2022
2201B31-002B	Surface Water		50	0	0	50	1.000	1/17/2022	1/18/2022
2201B31-003B	Surface Water		50	0	0	50	1.000	1/17/2022	1/18/2022
2201E32-001B	Surface Water		50	0	0	50	1.000	1/17/2022	1/18/2022
2201E32-002B	Surface Water		50	0	0	50	1.000	1/17/2022	1/18/2022
2201E33-001B	Surface Water		50	0	0	50	1.000	1/17/2022	1/18/2022
2201E33-002B	Surface Water		50	0	0	50	1.000	1/17/2022	1/18/2022
2201F55-003A	Waste Water		50	0	0	50	1.000	1/17/2022	1/18/2022
2201F89-001B	Groundwater		50	0	0	50	1.000	1/17/2022	1/18/2022
2201F89-002B	Groundwater		50	0	0	50	1.000	1/17/2022	1/18/2022

Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **1/17/2022 10:20:00**
Prep End Date: **1/18/2022 10:19:00**

Prep Batch **329049** Prep Code: **3010A** Technician: **Svetlana Alikova**

Prep Factor Units: **mL / mL**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2201F89-003B	Groundwater		50	0	0	50	1.000	1/17/2022	1/18/2022
2201F89-004B	Groundwater		50	0	0	50	1.000	1/17/2022	1/18/2022
LCS-329049			50	0	0	50	1.000	1/17/2022	1/18/2022
MB-329049			50	0	0	50	1.000	1/17/2022	1/18/2022

220118AREP.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Calibration Correlation Coefficient Limit: 0.998

Pump Speed (rpm): 12

Sample introduction: ASX-520

Sample Uptake Time (s): 45

Sample uptake fast pump: On

SVS 1 delay (s): N/A

Rinse time (s): 0

Rinse time fast pump: On

Oxygen Injection Mode: Off

Standard addition: Off

Reagent Blank: Off

QC Active: On

Reslope: Off
Condition Set 1

Element	Wavelength(nm)	Label	Type	Background Correction	Points Per Peak	Calibration Fit
Ag	328.068	Ag	Analyte	Fitted	2	Linear Through Blank
Al	308.215	Al	Analyte	Fitted	2	Weighted Linear Through Blank
As	193.696	As	Analyte	Fitted	2	Linear Through Blank
Ba	413.064	Ba	Analyte	Fitted	2	Linear Through Blank
Be	313.042	Be	Analyte	Fitted	2	Linear Through Blank
Ca	373.690	Ca	Analyte	Fitted	2	Linear Weighted
Cd	228.802	Cd	Analyte	Fitted	2	Weighted Linear Through Blank
Co	230.786	Co	Analyte	Fitted	2	Linear Through Blank
Cr	267.716	Cr	Analyte	Fitted	2	Linear Through Blank
Cu	327.395	Cu	Analyte	Fitted	2	Linear Through Blank
Fe	238.204	Fe	Analyte	Fitted	2	Weighted Linear Through Blank
K	766.491	K	Analyte	Fitted	2	Weighted Linear Through Blank
Mg	279.800	Mg	Analyte	Fitted	2	Weighted Linear Through Blank
Mn	257.610	Mn	Analyte	Fitted	2	Linear Through Blank
Mo	204.598	Mo	Analyte	Fitted	2	Weighted Linear Through Blank
Na	589.592	Na	Analyte	Fitted	2	Linear
Ni	221.648	Ni	Analyte	Fitted	2	Linear Weighted
Pb	220.353	Pb	Analyte	Off-Peak Left+Right	2	Linear Weighted
Sb	217.582	Sb	Analyte	Off-Peak Right	2	Weighted Linear Through Blank
Se	196.026	Se	Analyte	Off-Peak Left	2	Linear
Sn	189.925	Sn	Analyte	Fitted	2	Linear Through Blank
Ti	337.280	Ti	Analyte	Fitted	2	Linear Through Blank
Tl	351.923	Tl	Analyte	Off-Peak Left	2	Linear

220118AREP.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Element	Wavelength(nm)	Label	Type	Background Correction	Points Per Peak	Calibration Fit
V	311.837	V	Analyte	Fitted	2	Linear Through Blank
Zn	206.200	Zn	Analyte	Fitted	2	Weighted Linear Through Blank
B	249.772	B	Analyte	Fitted	2	Weighted Linear Through Blank
Sr	407.771	Sr	Analyte	Fitted	2	Weighted Linear Through Blank
S	181.972	S	Analyte	Off-Peak Right	2	Linear Through Blank
P	213.618	P	Analyte	Fitted	2	Linear

Read time (s): 30

RF power (kW): 1.2

Stabilization time (s): 25

Viewing mode: SVDV

Viewing height (mm): 8

Nebulizer flow(L/min): 0.75

Plasma flow(L/min): 12

Aux flow(L/min): 1

Make up flow(L/min): 0

Oxygen %: 0

Calibration parameters:

Label (Wavelength nm)	Minimum Concentration	Maximum Concentration	Calibration Error
Ag (328.068)	0 mg/L	5 mg/L	20 %
Al (308.215)	0 mg/L	500 mg/L	20 %
As (193.696)	0 mg/L	50 mg/L	20 %
Ba (413.064)	0 mg/L	50 mg/L	20 %
Be (313.042)	0 mg/L	10 mg/L	20 %
Ca (373.690)	0 mg/L	100 mg/L	20 %
Cd (228.802)	0 mg/L	20 mg/L	20 %
Co (230.786)	0 mg/L	50 mg/L	20 %
Cr (267.716)	0 mg/L	50 mg/L	20 %
Cu (327.395)	0 mg/L	50 mg/L	20 %
Fe (238.204)	0 mg/L	100 mg/L	20 %
K (766.491)	0 mg/L	200 mg/L	20 %
Mg (279.800)	0 mg/L	100 mg/L	20 %
Mn (257.610)	0 mg/L	20 mg/L	20 %
Mo (204.598)	0 mg/L	100 mg/L	20 %
Na (589.592)	0 mg/L	200 mg/L	20 %
Ni (221.648)	0 mg/L	50 mg/L	20 %

220118AREP.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Label (Wavelength nm)	Minimum Concentration	Maximum Concentration	Calibration Error
Pb (220.353)	0 mg/L	50 mg/L	20 %
Sb (217.582)	0 mg/L	100 mg/L	20 %
Se (196.026)	0 mg/L	50 mg/L	20 %
Sn (189.925)	0 mg/L	100 mg/L	20 %
Ti (337.280)	0 mg/L	50 mg/L	20 %
Tl (351.923)	0 mg/L	50 mg/L	20 %
V (311.837)	0 mg/L	50 mg/L	20 %
Zn (206.200)	0 mg/L	50 mg/L	20 %
B (249.772)	0 mg/L	50 mg/L	20 %
Sr (407.771)	0 mg/L	50 mg/L	20 %
S (181.972)	0 mg/L	50 mg/L	25 %
P (213.618)	0 mg/L	50 mg/L	20 %

220118AREP.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Sequence table:

Rack:Tube	Sample Label	Weight (g)	Volume (mL)	Dilution
4:1	Blank	1.0	1.0	1.0
4:2	ICAL 1	1.0	1.0	1.0
4:3	ICAL 2	1.0	1.0	1.0
4:4	ICAL 3	1.0	1.0	1.0
4:4	Lab Control Sample	1.0	1.0	1.0
4:5	Initial Calib Verif	1.0	1.0	1.0
4:1	Initial Calib Blank	1.0	1.0	1.0
4:2	CRI	1.0	1.0	1.0
4:6	Interf Check A	1.0	1.0	1.0
4:7	Interf Check AB	1.0	1.0	1.0
4:2	CRI	1.0	1.0	1.0
1:1	CRI-2	1.0	1.0	1.0
1:2	CRI-5	1.0	1.0	1.0
1:3	CRI-MID LEVEL	1.0	1.0	1.0
1:4	LCR 1	1.0	1.0	1.0
1:5	LCR 2	1.0	1.0	1.0
1:6	LCR 3	1.0	1.0	1.0
1:7	LCR-Pb-Inhouse	1.0	1.0	1.0
1:8	MB-329049	1.0	1.0	1.0
1:9	LCS-329049	1.0	1.0	1.0
1:10	2201B31-001B	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
1:11	2201B31-001BMS	1.0	1.0	1.0
1:12	2201B31-001BMSD	1.0	1.0	1.0
1:13	2201B31-001BDL	1.0	1.0	1.0
1:14	2201B31-001BPDS	1.0	1.0	1.0
1:15	2201B31-002B	1.0	1.0	1.0
1:16	2201B31-003B	1.0	1.0	1.0
1:17	2201A25-001D	1.0	1.0	1.0
1:18	2201A74-001C	1.0	1.0	1.0
1:19	2201A74-002C	1.0	1.0	1.0
1:20	2201A74-003C/2x	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
1:21	2201A74-005C	1.0	1.0	1.0
1:22	2201A74-006C	1.0	1.0	1.0
1:23	2201A74-008C	1.0	1.0	1.0
1:24	2201A78-001C	1.0	1.0	1.0
1:25	2201E32-001B	1.0	1.0	1.0
1:26	2201E32-002B	1.0	1.0	1.0
1:27	2201E33-001B	1.0	1.0	1.0
1:28	2201801-037A/100x	1.0	1.0	1.0
1:29	2201E33-002B	1.0	1.0	1.0
1:30	2201F55-003A	1.0	1.0	1.0

Rack:Tube	Sample Label	Weight (g)	Volume (mL)	Dilution
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
1:31	2201F89-001B	1.0	1.0	1.0
1:32	2201801-051A/25x	1.0	1.0	1.0
1:33	2201F89-002B	1.0	1.0	1.0
1:34	2201F89-003B	1.0	1.0	1.0
1:35	2201F89-004B	1.0	1.0	1.0
1:36	MB-329193	1.0	1.0	1.0
1:37	LCS-329193	1.0	1.0	1.0
1:38	2201G47-008C	1.0	1.0	1.0
1:39	2201G47-008CMS	1.0	1.0	1.0
1:40	2201G47-008CMSD	1.0	1.0	1.0
4:6	Interf Check A	1.0	1.0	1.0
4:7	Interf Check AB	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
1:41	2201G47-008CDL	1.0	1.0	1.0
1:42	2201G47-008CPDS	1.0	1.0	1.0
1:43	2201G47-005C	1.0	1.0	1.0
1:44	2201G47-006C	1.0	1.0	1.0
1:45	2201G47-007C	1.0	1.0	1.0
1:46	CRI-5	1.0	1.0	1.0
1:47	MB-329215	1.0	1.0	1.0
1:48	LCS-329215	1.0	1.0	1.0
1:49	2201A73-002A	1.0	1.0	1.0
1:50	2201A73-002AMS	1.0	1.0	1.0
4:6	Interf Check A	1.0	1.0	1.0
4:7	Interf Check AB	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
1:51	2201A73-002AMSD	1.0	1.0	1.0
1:52	2201A73-002ADL	1.0	1.0	1.0
1:53	2201A73-002APDS	1.0	1.0	1.0
1:54	2201A73-001A	1.0	1.0	1.0
1:55	CRI-5	1.0	1.0	1.0
1:56	2201A73-001ADUP	1.0	1.0	1.0
1:57	2201E56-001B	1.0	1.0	1.0
1:58	2201A73-003A	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
1:59	2201A73-004A	1.0	1.0	1.0
1:60	2201A73-005A	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
2:1	2201A73-006A	1.0	1.0	1.0
2:2	2201A73-007A	1.0	1.0	1.0
2:3	2201A73-008A	1.0	1.0	1.0
2:4	2201A73-009A	1.0	1.0	1.0

Rack:Tube	Sample Label	Weight (g)	Volume (mL)	Dilution
2:5	2201801-051A/500x	1.0	1.0	1.0
2:6	2201A73-010A	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:7	Interf Check AB	1.0	1.0	1.0
4:6	Interf Check A	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
2:7	2201A73-011A	1.0	1.0	1.0
2:8	2201A73-012A	1.0	1.0	1.0
2:9	2201A73-013A	1.0	1.0	1.0
2:10	2201A73-014A	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
2:11	2201A73-015A	1.0	1.0	1.0
2:12	2201A73-016A	1.0	1.0	1.0
2:13	2201C60-001A	1.0	1.0	1.0
2:14	MB-329118	1.0	1.0	1.0
2:15	LCS-329118	1.0	1.0	1.0
2:16	2201B46-004A	1.0	1.0	1.0
2:17	2201B46-004AMS	1.0	1.0	1.0
2:18	2201B46-004AMSD	1.0	1.0	1.0
2:19	2201B46-004ADL	1.0	1.0	1.0
2:20	2201B46-004APDS	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
2:21	2201A52-001B	1.0	1.0	1.0
4:6	Interf Check A	1.0	1.0	1.0
4:7	Interf Check AB	1.0	1.0	1.0
2:22	2201A52-001BMS	1.0	1.0	1.0
2:23	2201B46-001A	1.0	1.0	1.0
2:24	2201B46-002A	1.0	1.0	1.0
2:25	2201B46-003A	1.0	1.0	1.0
2:26	2201B46-005A	1.0	1.0	1.0
2:27	2201B46-006A	1.0	1.0	1.0
2:28	2201A20-001A	1.0	1.0	1.0
2:29	2201A20-002A	1.0	1.0	1.0
2:30	2201A96-001A	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
2:31	2201B98-001E	1.0	1.0	1.0
2:32	2201C30-001A	1.0	1.0	1.0
2:33	2201C38-001A	1.0	1.0	1.0
2:34	2201D08-001D	1.0	1.0	1.0
2:35	2201E12-001D	1.0	1.0	1.0
2:36	2201A73-010A	1.0	1.0	1.0
2:37	TEST	1.0	1.0	1.0
2:38	TEST	1.0	1.0	1.0
2:39	TEST	1.0	1.0	1.0

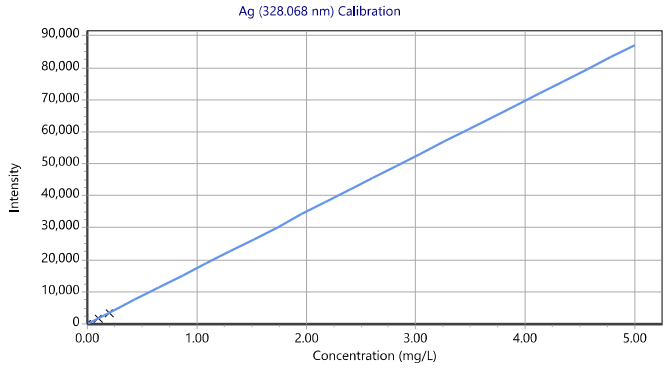
220118AREP.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Rack:Tube	Sample Label	Weight (g)	Volume (mL)	Dilution
4:6	Interf Check A	1.0	1.0	1.0
4:7	Interf Check AB	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
4:3	CCV	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0
2:40	TEST	1.0	1.0	1.0
2:41	CRI-5	1.0	1.0	1.0
2:42	CCV	1.0	1.0	1.0
2:43	CCB	1.0	1.0	1.0
4:6	Interf Check A	1.0	1.0	1.0
4:7	Interf Check AB	1.0	1.0	1.0
4:3	Cont Calib Verif	1.0	1.0	1.0
4:1	Cont Calib Blank	1.0	1.0	1.0

Calibration Curves:



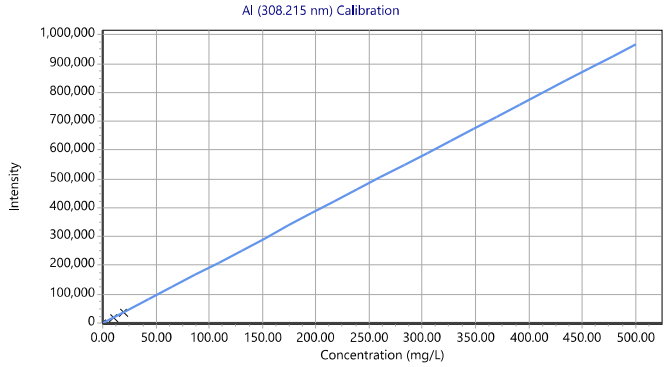
Ag (328.068 nm)
Intensity = 17428.95492745 * Concentration + 0.75006992
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	0.75007	0.00000	0.00000	N/A
ICAL 1	85.40370	0.00500	0.00486	2.85863
ICAL 2	1732.26070	0.10000	0.09935	0.65322
ICAL 3	3492.29577	0.20000	0.20033	0.16509

220118AREP.esws

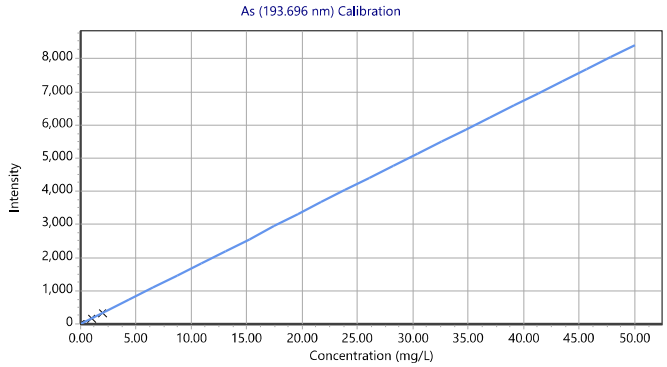
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Al (308.215 nm)
Intensity = 1935.76895786 * Concentration + 331.29836328
Correlation coefficient: 0.99998

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	331.29836	0.00000	0.00000	N/A
ICAL 1	708.31316	0.20000	0.19476	2.61885
ICAL 2	19822.55966	10.00000	10.06900	0.69002
ICAL 3	39799.96115	20.00000	20.38914	1.94570



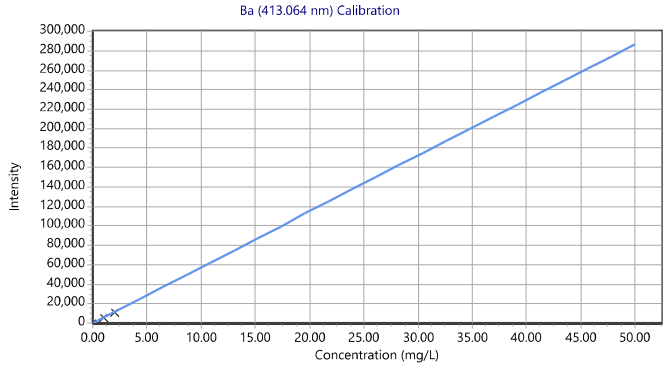
As (193.696 nm)
Intensity = 168.34204600 * Concentration + 3.60810285
Correlation coefficient: 1.00000

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.60810	0.00000	0.00000	N/A
ICAL 1	12.18582	0.05000	0.05095	1.90824
ICAL 2	171.37121	1.00000	0.99656	0.34391
ICAL 3	340.57765	2.00000	2.00170	0.08478

220118AREP.esws

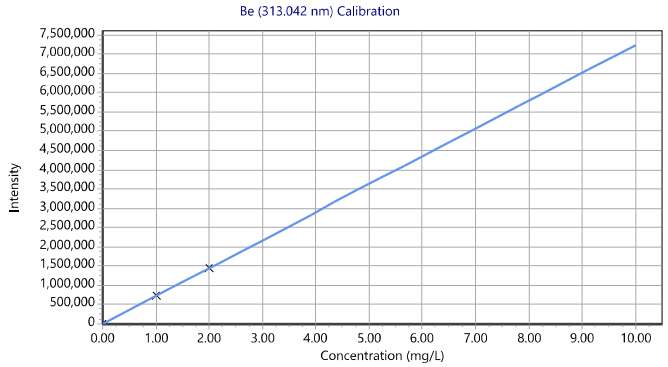
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Ba (413.064 nm)
Intensity = 5736.75200448 * Concentration + 52.92260177
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	52.92260	0.00000	0.00000	N/A
ICAL 1	114.05712	0.01000	0.01066	6.56643
ICAL 2	5837.29604	1.00000	1.00830	0.83011
ICAL 3	11502.59706	2.00000	1.99585	0.20769



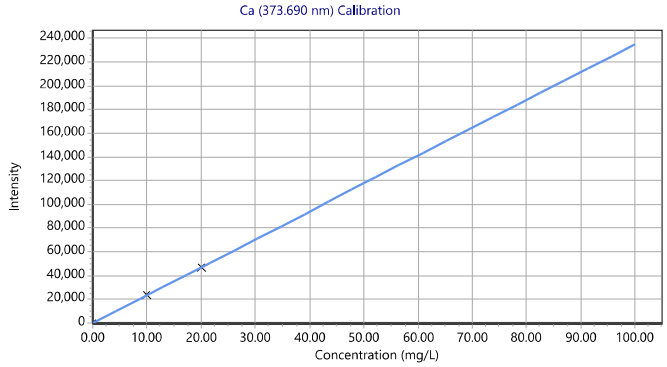
Be (313.042 nm)
Intensity = 724312.21665085 * Concentration - 243.17955988
Correlation coefficient: 0.99996

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-243.17956	0.00000	0.00000	N/A
ICAL 1	3644.49057	0.00500	0.00537	7.34791
ICAL 2	734409.87567	1.00000	1.01428	1.42768
ICAL 3	1443210.16918	2.00000	1.99286	0.35697

220118AREP.esws

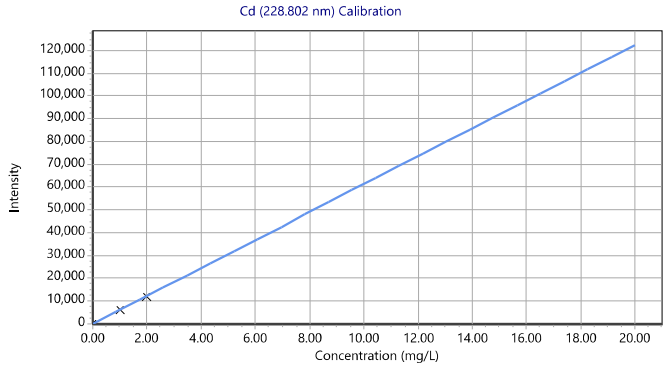
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Ca (373.690 nm)
Intensity = 2351.79818036 * Concentration - 79.80573893
Correlation coefficient: 1.00000

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	4.00323	0.00000	0.03564	N/A
ICAL 1	146.26109	0.10000	0.09613	3.87490
ICAL 2	23582.83972	10.00000	10.06151	0.61512
ICAL 3	47237.30045	20.00000	20.11954	0.59772



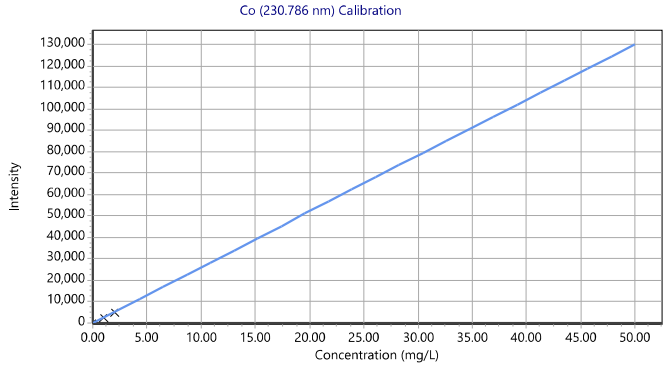
Cd (228.802 nm)
Intensity = 6122.46051818 * Concentration + 8.87801781
Correlation coefficient: 1.00000

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	8.87802	0.00000	0.00000	N/A
ICAL 1	41.52770	0.00500	0.00533	6.65544
ICAL 2	6120.87710	1.00000	0.99829	0.17087
ICAL 3	12223.09839	2.00000	1.99499	0.25072

220118AREP.esws

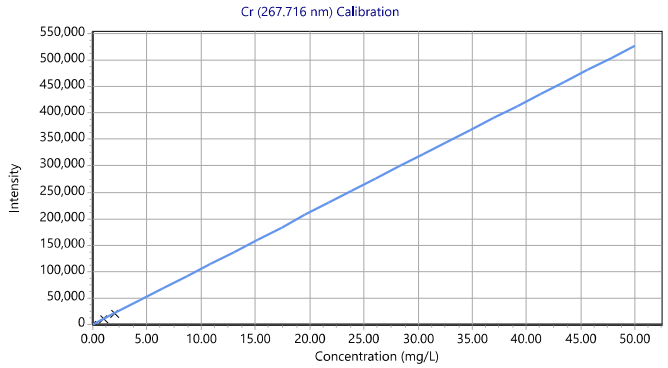
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Co (230.786 nm)
Intensity = 2604.16658109 * Concentration + 2.19548530
Correlation coefficient: 0.99997

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	2.19549	0.00000	0.00000	N/A
ICAL 1	29.90582	0.01000	0.01064	6.40768
ICAL 2	2637.91647	1.00000	1.01212	1.21169
ICAL 3	5194.74310	2.00000	1.99394	0.30308



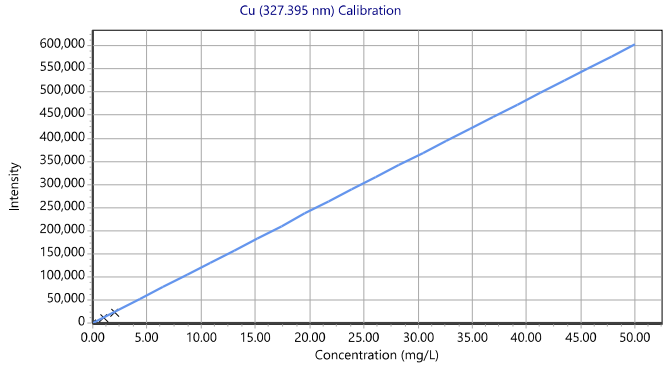
Cr (267.716 nm)
Intensity = 10555.47974287 * Concentration + 9.38814519
Correlation coefficient: 0.99998

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	9.38815	0.00000	0.00000	N/A
ICAL 1	117.23815	0.01000	0.01022	2.17442
ICAL 2	10665.96850	1.00000	1.00958	0.95780
ICAL 3	21069.78585	2.00000	1.99521	0.23950

220118AREP.esws

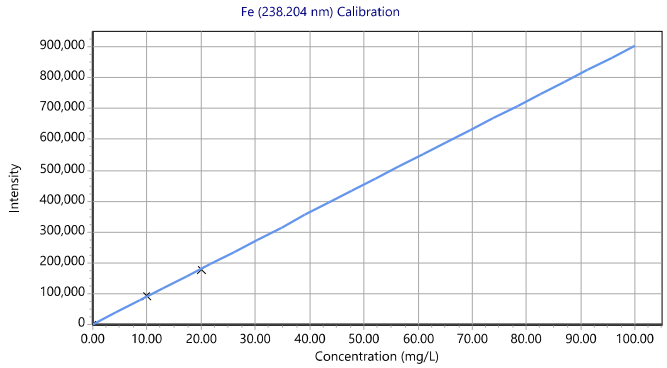
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Cu (327.395 nm)
Intensity = 12076.61414377 * Concentration + 4.93394812
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	4.93395	0.00000	0.00000	N/A
ICAL 1	128.72939	0.01000	0.01025	2.50840
ICAL 2	12009.00900	1.00000	0.99399	0.60066
ICAL 3	24194.41664	2.00000	2.00300	0.15010



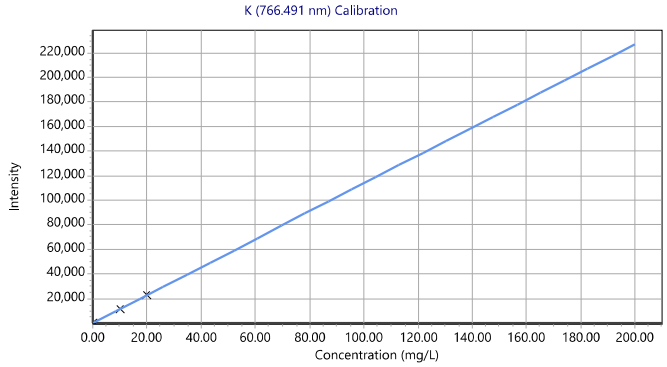
Fe (238.204 nm)
Intensity = 9053.73886875 * Concentration + 51.30680482
Correlation coefficient: 0.99994

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	51.30680	0.00000	0.00000	N/A
ICAL 1	973.66329	0.10000	0.10188	1.87576
ICAL 2	91574.49018	10.00000	10.10888	1.08883
ICAL 3	179376.44280	20.00000	19.80675	0.96625

220118AREP.esws

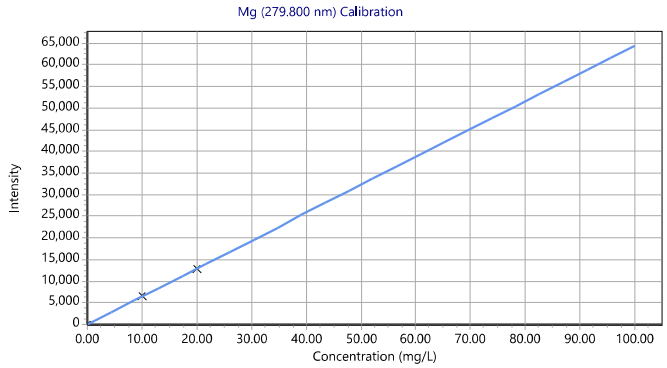
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



K (766.491 nm)
Intensity = 1135.24810730 * Concentration + 90.29847849
Correlation coefficient: 0.99995

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	90.29848	0.00000	0.00000	N/A
ICAL 1	570.00739	0.50000	0.42256	15.48827
ICAL 2	11371.40326	10.00000	9.93713	0.62873
ICAL 3	23121.04606	20.00000	20.28697	1.43486



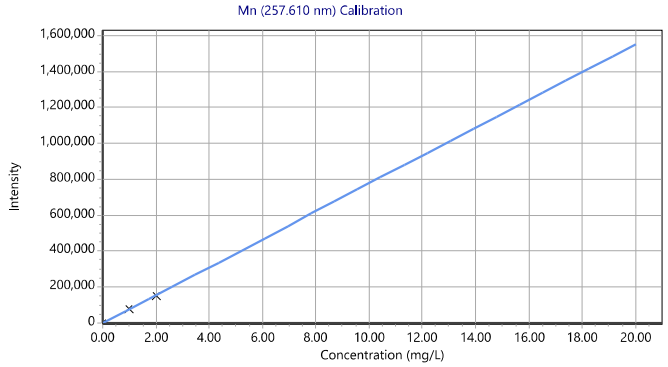
Mg (279.800 nm)
Intensity = 645.00860097 * Concentration + 4.97994234
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	4.97994	0.00000	0.00000	N/A
ICAL 1	70.39921	0.10000	0.10142	1.42386
ICAL 2	6474.65557	10.00000	10.03037	0.30371
ICAL 3	12849.10718	20.00000	19.91311	0.43445

220118AREP.esws

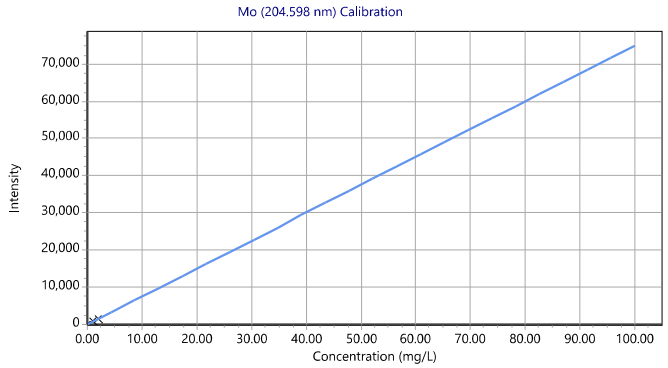
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Mn (257.610 nm)
Intensity = 77594.37936926 * Concentration + 19.74811749
Correlation coefficient: 0.99998

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	19.74812	0.00000	0.00000	N/A
ICAL 1	418.03727	0.00500	0.00513	2.65928
ICAL 2	78463.18047	1.00000	1.01094	1.09422
ICAL 3	154783.95457	2.00000	1.99453	0.27357



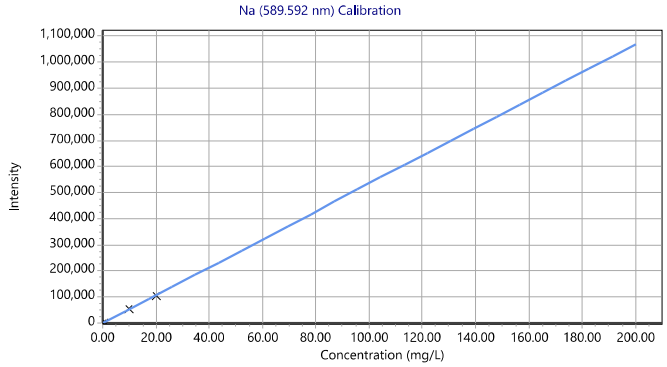
Mo (204.598 nm)
Intensity = 749.80495474 * Concentration + 1.61305003
Correlation coefficient: 1.00000

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1.61305	0.00000	0.00000	N/A
ICAL 1	36.26736	0.05000	0.04622	7.56446
ICAL 2	749.38265	1.00000	0.99729	0.27145
ICAL 3	1504.71508	2.00000	2.00466	0.23287

220118AREP.esws

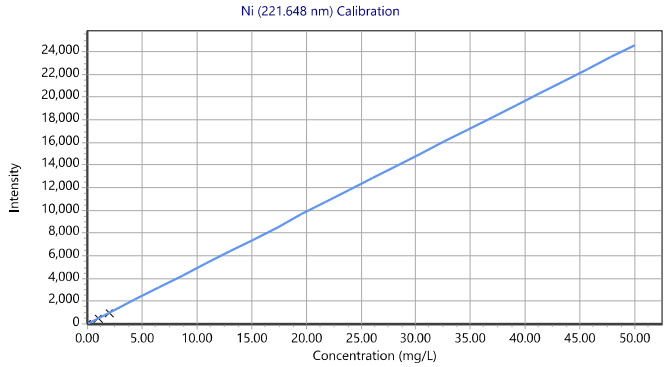
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Na (589.592 nm)
Intensity = 5347.89226869 * Concentration - 73.42370695
Correlation coefficient: 0.99997

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	382.23427	0.00000	0.08520	N/A
ICAL 1	4820.45075	1.00000	0.91510	8.48966
ICAL 2	53356.81687	10.00000	9.99090	0.09103
ICAL 3	106931.46361	20.00000	20.00880	0.04398



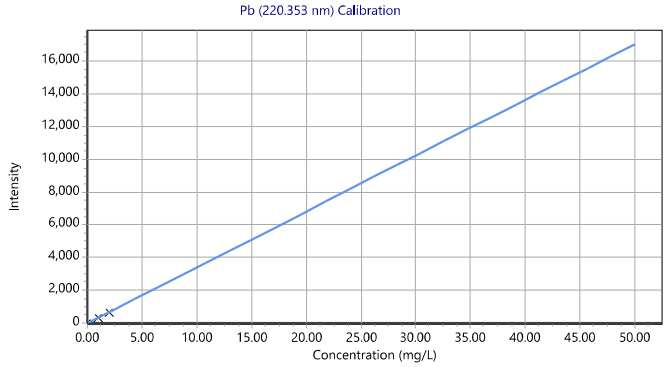
Ni (221.648 nm)
Intensity = 492.00966483 * Concentration + 2.56374917
Correlation coefficient: 0.99995

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.59418	0.00000	0.00209	N/A
ICAL 1	10.90565	0.02000	0.01695	15.22626
ICAL 2	503.73597	1.00000	1.01862	1.86227
ICAL 3	986.05058	2.00000	1.99892	0.05411

220118AREP.esws

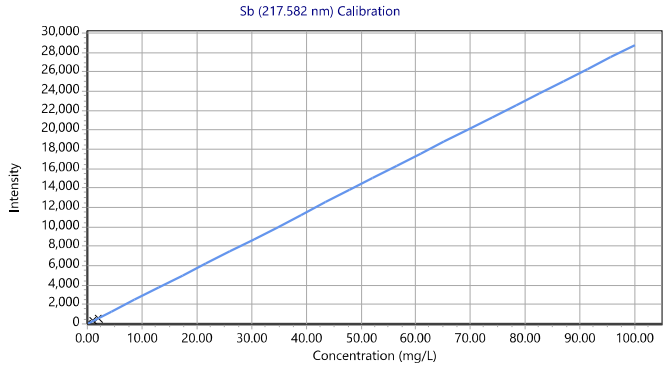
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Pb (220.353 nm)
Intensity = 340.62285859 * Concentration - 1.57621429
Correlation coefficient: 0.99995

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-1.27407	0.00000	0.00089	N/A
ICAL 1	1.15414	0.01000	0.00802	19.84222
ICAL 2	344.31465	1.00000	1.01547	1.54658
ICAL 3	676.85872	2.00000	1.99175	0.41259



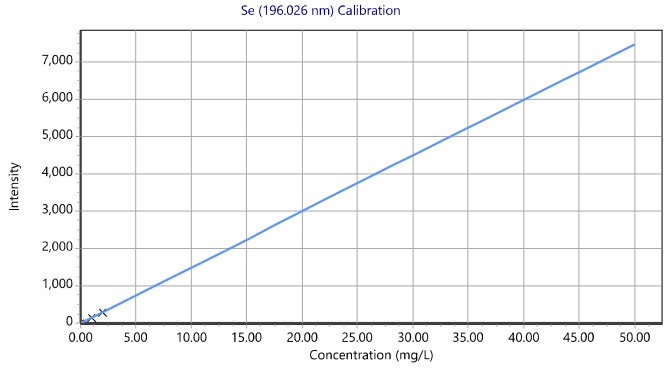
Sb (217.582 nm)
Intensity = 287.76432053 * Concentration - 1.08209630
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-1.08210	0.00000	0.00000	N/A
ICAL 1	4.24723	0.02000	0.01852	7.40114
ICAL 2	285.32301	1.00000	0.99528	0.47234
ICAL 3	575.39628	2.00000	2.00330	0.16502

220118AREP.esws

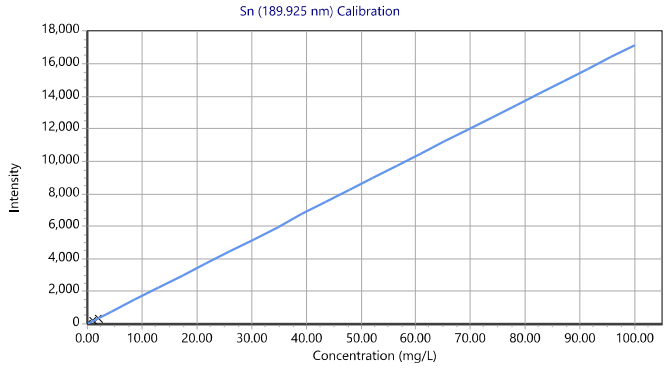
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Se (196.026 nm)
Intensity = 149.48049502 * Concentration + 2.90428631
Correlation coefficient: 0.99997

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	2.18773	0.00000	-0.00479	N/A
ICAL 1	5.88579	0.02000	0.01995	0.27122
ICAL 2	153.83394	1.00000	1.00969	0.96947
ICAL 3	301.14078	2.00000	1.99515	0.24234



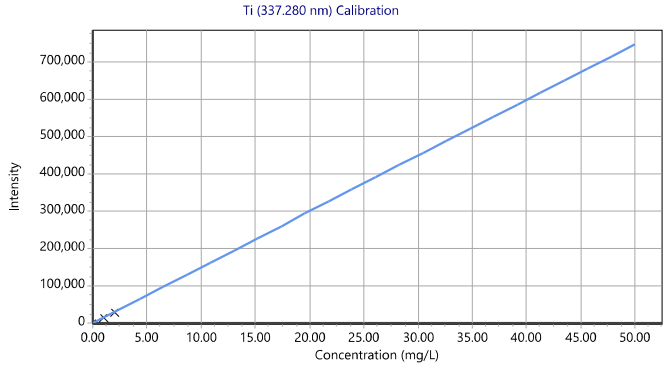
Sn (189.925 nm)
Intensity = 171.69963692 * Concentration + 1.74011389
Correlation coefficient: 0.99995

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1.74011	0.00000	0.00000	N/A
ICAL 1	8.76254	0.05000	0.04090	18.20103
ICAL 2	175.46307	1.00000	1.01178	1.17841
ICAL 3	344.16679	2.00000	1.99434	0.28323

220118AREP.esws

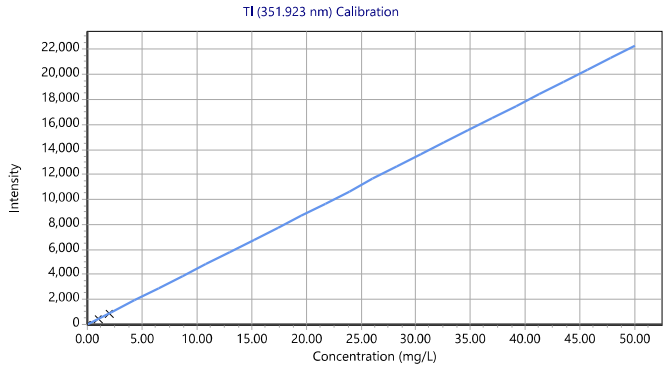
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



Ti (337.280 nm)
Intensity = 14977.71622908 * Concentration + 11.04803152
Correlation coefficient: 1.00000

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	11.04803	0.00000	0.00000	N/A
ICAL 1	750.93886	0.05000	0.04940	1.20112
ICAL 2	14962.06816	1.00000	0.99822	0.17824
ICAL 3	29980.05342	2.00000	2.00091	0.04531



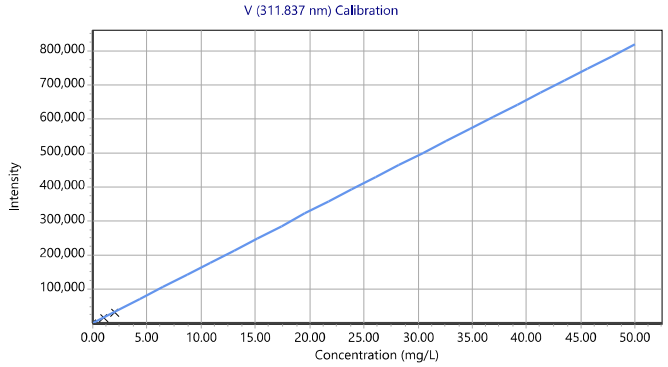
Tl (351.923 nm)
Intensity = 447.02000883 * Concentration - 26.63744510
Correlation coefficient: 1.00000

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-26.87897	0.00000	-0.00054	N/A
ICAL 1	-17.04150	0.02000	0.02147	7.33233
ICAL 2	419.56765	1.00000	0.99818	0.18230
ICAL 3	867.80348	2.00000	2.00090	0.04484

220118AREP.esws

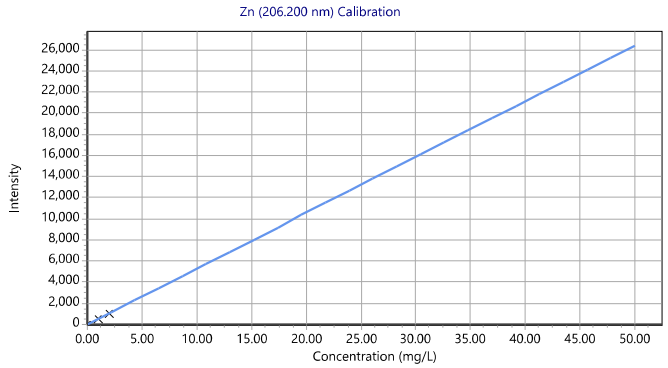
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



V (311.837 nm)
Intensity = 16413.67936429 * Concentration + 4.22258023
Correlation coefficient: 1.00000

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	4.22258	0.00000	0.00000	N/A
ICAL 1	143.31825	0.01000	0.00847	15.25625
ICAL 2	16414.03813	1.00000	0.99976	0.02354
ICAL 3	32833.63842	2.00000	2.00013	0.00627



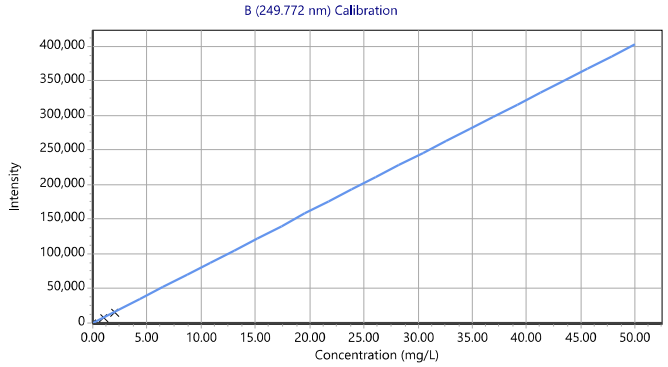
Zn (206.200 nm)
Intensity = 527.80170665 * Concentration + 5.10841621
Correlation coefficient: 1.00000

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	5.10842	0.00000	0.00000	N/A
ICAL 1	13.85020	0.02000	0.01656	17.18684
ICAL 2	534.64651	1.00000	1.00329	0.32898
ICAL 3	1059.84920	2.00000	1.99837	0.08172

220118AREP.esws

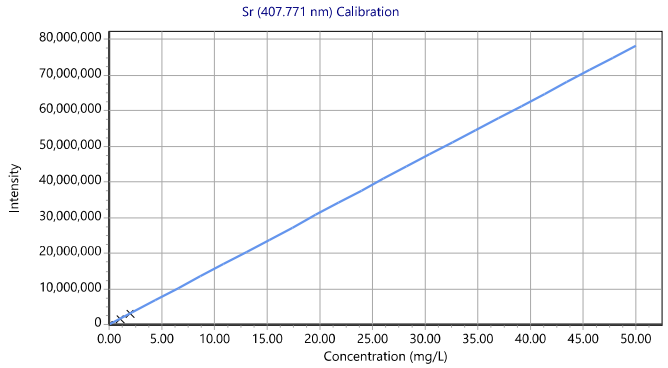
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



B (249.772 nm)
Intensity = 8066.45306251 * Concentration + 33.52220158
Correlation coefficient: 1.00000

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	33.52220	0.00000	0.00000	N/A
ICAL 1	454.51698	0.05000	0.05219	4.38163
ICAL 2	8073.70872	1.00000	0.99674	0.32563
ICAL 3	16122.21045	2.00000	1.99452	0.27409



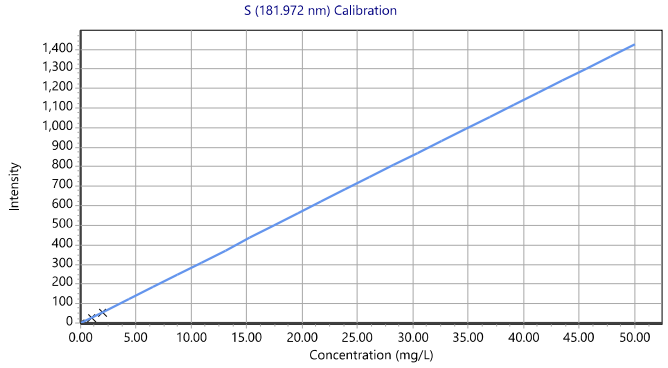
Sr (407.771 nm)
Intensity = 1565074.51322632 * Concentration + 303.40146677
Correlation coefficient: 0.99975

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	303.40147	0.00000	0.00000	N/A
ICAL 1	88609.68778	0.05000	0.05642	12.84611
ICAL 2	1631636.84743	1.00000	1.04234	4.23360
ICAL 3	3123374.51240	2.00000	1.99548	0.22612

220118AREP.esws

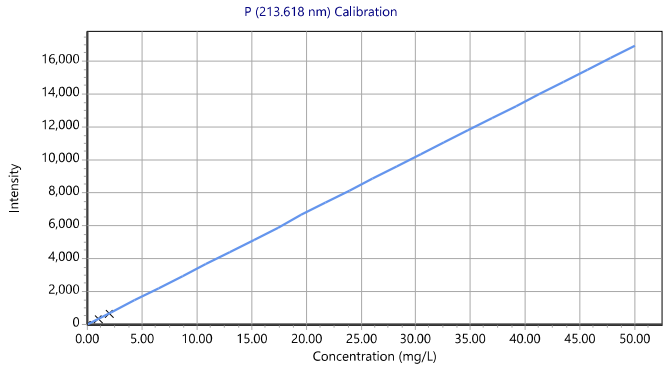
Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D



S (181.972 nm)
Intensity = 28.52715393 * Concentration + 0.95959404
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	0.95959	0.00000	0.00000	N/A
ICAL 1	2.28190	0.05000	0.04635	7.29506
ICAL 2	29.26696	1.00000	0.99230	0.77045
ICAL 3	58.12640	2.00000	2.00394	0.19717



P (213.618 nm)
Intensity = 338.84876624 * Concentration + 1.94470428
Correlation coefficient: 0.99996

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.05755	0.00000	0.00328	N/A
ICAL 1	16.03818	0.05000	0.04159	16.81556
ICAL 2	344.12327	1.00000	1.00983	0.98268
ICAL 3	678.04856	2.00000	1.99530	0.23516

Detailed Results

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 10:12:27	Blank	Ag (328.068 nm)	N/A	0.00000 (mg/L)	0.75007	> 100.00
1/18/2022 10:12:27	Blank	Al (308.215 nm)	N/A	0.00000 (mg/L)	331.29836	0.72
1/18/2022 10:12:27	Blank	As (193.696 nm)	N/A	0.00000 (mg/L)	3.60810	25.53

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 10:12:27	Blank	B (249.772 nm)	N/A	0.00000 (mg/L)	33.52220	2.16
1/18/2022 10:12:27	Blank	Ba (413.064 nm)	N/A	0.00000 (mg/L)	52.92260	9.75
1/18/2022 10:12:27	Blank	Be (313.042 nm)	N/A	0.00000 (mg/L)	-243.17956	1.46
1/18/2022 10:12:27	Blank	Ca (373.690 nm)	N/A	0.00000 (mg/L)	4.00323	> 100.00
1/18/2022 10:12:27	Blank	Cd (228.802 nm)	N/A	0.00000 (mg/L)	8.87802	27.74
1/18/2022 10:12:27	Blank	Co (230.786 nm)	N/A	0.00000 (mg/L)	2.19549	28.23
1/18/2022 10:12:27	Blank	Cr (267.716 nm)	N/A	0.00000 (mg/L)	9.38815	18.64
1/18/2022 10:12:27	Blank	Cu (327.395 nm)	N/A	0.00000 (mg/L)	4.93395	26.80
1/18/2022 10:12:27	Blank	Fe (238.204 nm)	N/A	0.00000 (mg/L)	51.30680	5.36
1/18/2022 10:12:27	Blank	K (766.491 nm)	N/A	0.00000 (mg/L)	90.29848	36.78
1/18/2022 10:12:27	Blank	Mg (279.800 nm)	N/A	0.00000 (mg/L)	4.97994	28.83
1/18/2022 10:12:27	Blank	Mn (257.610 nm)	N/A	0.00000 (mg/L)	19.74812	9.47
1/18/2022 10:12:27	Blank	Mo (204.598 nm)	N/A	0.00000 (mg/L)	1.61305	64.05
1/18/2022 10:12:27	Blank	Na (589.592 nm)	N/A	0.00000 (mg/L)	382.23427	3.84
1/18/2022 10:12:27	Blank	Ni (221.648 nm)	N/A	0.00000 (mg/L)	3.59418	48.94
1/18/2022 10:12:27	Blank	P (213.618 nm)	N/A	0.00000 (mg/L)	3.05755	47.72
1/18/2022 10:12:27	Blank	Pb (220.353 nm)	N/A	0.00000 (mg/L)	-1.27407	55.57
1/18/2022 10:12:27	Blank	S (181.972 nm)	N/A	0.00000 (mg/L)	0.95959	40.18
1/18/2022 10:12:27	Blank	Sb (217.582 nm)	N/A	0.00000 (mg/L)	-1.08210	> 100.00
1/18/2022 10:12:27	Blank	Se (196.026 nm)	N/A	0.00000 (mg/L)	2.18773	32.13
1/18/2022 10:12:27	Blank	Sn (189.925 nm)	N/A	0.00000 (mg/L)	1.74011	31.16
1/18/2022 10:12:27	Blank	Sr (407.771 nm)	N/A	0.00000 (mg/L)	303.40147	0.89
1/18/2022 10:12:27	Blank	Ti (337.280 nm)	N/A	0.00000 (mg/L)	11.04803	31.12
1/18/2022 10:12:27	Blank	Tl (351.923 nm)	N/A	0.00000 (mg/L)	-26.87897	15.43
1/18/2022 10:12:27	Blank	V (311.837 nm)	N/A	0.00000 (mg/L)	4.22258	93.54
1/18/2022 10:12:27	Blank	Zn (206.200 nm)	N/A	0.00000 (mg/L)	5.10842	8.77
1/18/2022 10:15:35	ICAL 1	Ag (328.068 nm)	N/A	0.00500 (mg/L)	85.40370	2.16
1/18/2022 10:15:35	ICAL 1	Al (308.215 nm)	N/A	0.20000 (mg/L)	708.31316	0.21
1/18/2022 10:15:35	ICAL 1	As (193.696 nm)	N/A	0.05000 (mg/L)	12.18582	13.68
1/18/2022 10:15:35	ICAL 1	B (249.772 nm)	N/A	0.05000 (mg/L)	454.51698	1.16
1/18/2022 10:15:35	ICAL 1	Ba (413.064 nm)	N/A	0.01000 (mg/L)	114.05712	5.65
1/18/2022 10:15:35	ICAL 1	Be (313.042 nm)	N/A	0.00500 (mg/L)	3644.49057	0.49
1/18/2022 10:15:35	ICAL 1	Ca (373.690 nm)	N/A	0.10000 (mg/L)	146.26109	1.32
1/18/2022 10:15:35	ICAL 1	Cd (228.802 nm)	N/A	0.00500 (mg/L)	41.52770	1.46
1/18/2022 10:15:35	ICAL 1	Co (230.786 nm)	N/A	0.01000 (mg/L)	29.90582	5.96
1/18/2022 10:15:35	ICAL 1	Cr (267.716 nm)	N/A	0.01000 (mg/L)	117.23815	0.81
1/18/2022 10:15:35	ICAL 1	Cu (327.395 nm)	N/A	0.01000 (mg/L)	128.72939	2.12
1/18/2022 10:15:35	ICAL 1	Fe (238.204 nm)	N/A	0.10000 (mg/L)	973.66329	0.83
1/18/2022 10:15:35	ICAL 1	K (766.491 nm)	N/A	0.50000 (mg/L)	570.00739	1.43
1/18/2022 10:15:35	ICAL 1	Mg (279.800 nm)	N/A	0.10000 (mg/L)	70.39921	4.87
1/18/2022 10:15:35	ICAL 1	Mn (257.610 nm)	N/A	0.00500 (mg/L)	418.03727	0.62
1/18/2022 10:15:35	ICAL 1	Mo (204.598 nm)	N/A	0.05000 (mg/L)	36.26736	3.59
1/18/2022 10:15:35	ICAL 1	Na (589.592 nm)	N/A	1.00000 (mg/L)	4820.45075	0.38
1/18/2022 10:15:35	ICAL 1	Ni (221.648 nm)	N/A	0.02000 (mg/L)	10.90565	13.35
1/18/2022 10:15:35	ICAL 1	P (213.618 nm)	N/A	0.05000 (mg/L)	16.03818	6.62
1/18/2022 10:15:35	ICAL 1	Pb (220.353 nm)	N/A	0.01000 (mg/L)	1.15414	61.01
1/18/2022 10:15:35	ICAL 1	S (181.972 nm)	N/A	0.05000 (mg/L)	2.28190	73.82
1/18/2022 10:15:35	ICAL 1	Sb (217.582 nm)	N/A	0.02000 (mg/L)	4.24723	19.55

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 10:15:35	ICAL 1	Se (196.026 nm)	N/A	0.02000 (mg/L)	5.88579	7.54
1/18/2022 10:15:35	ICAL 1	Sn (189.925 nm)	N/A	0.05000 (mg/L)	8.76254	5.20
1/18/2022 10:15:35	ICAL 1	Sr (407.771 nm)	N/A	0.05000 (mg/L)	88609.68778	1.10
1/18/2022 10:15:35	ICAL 1	Ti (337.280 nm)	N/A	0.05000 (mg/L)	750.93886	0.68
1/18/2022 10:15:35	ICAL 1	Tl (351.923 nm)	N/A	0.02000 (mg/L)	-17.04150	36.86
1/18/2022 10:15:35	ICAL 1	V (311.837 nm)	N/A	0.01000 (mg/L)	143.31825	3.82
1/18/2022 10:15:35	ICAL 1	Zn (206.200 nm)	N/A	0.02000 (mg/L)	13.85020	5.67
1/18/2022 10:18:43	ICAL 2	Ag (328.068 nm)	N/A	0.10000 (mg/L)	1732.26070	0.19
1/18/2022 10:18:43	ICAL 2	Al (308.215 nm)	N/A	10.00000 (mg/L)	19822.55966	0.44
1/18/2022 10:18:43	ICAL 2	As (193.696 nm)	N/A	1.00000 (mg/L)	171.37121	0.56
1/18/2022 10:18:43	ICAL 2	B (249.772 nm)	N/A	1.00000 (mg/L)	8073.70872	0.46
1/18/2022 10:18:43	ICAL 2	Ba (413.064 nm)	N/A	1.00000 (mg/L)	5837.29604	0.57
1/18/2022 10:18:43	ICAL 2	Be (313.042 nm)	N/A	1.00000 (mg/L)	734409.87567	0.79
1/18/2022 10:18:43	ICAL 2	Ca (373.690 nm)	N/A	10.00000 (mg/L)	23582.83972	0.51
1/18/2022 10:18:43	ICAL 2	Cd (228.802 nm)	N/A	1.00000 (mg/L)	6120.87710	0.82
1/18/2022 10:18:43	ICAL 2	Co (230.786 nm)	N/A	1.00000 (mg/L)	2637.91647	0.95
1/18/2022 10:18:43	ICAL 2	Cr (267.716 nm)	N/A	1.00000 (mg/L)	10665.96850	0.48
1/18/2022 10:18:43	ICAL 2	Cu (327.395 nm)	N/A	1.00000 (mg/L)	12009.00900	0.59
1/18/2022 10:18:43	ICAL 2	Fe (238.204 nm)	N/A	10.00000 (mg/L)	91574.49018	0.56
1/18/2022 10:18:43	ICAL 2	K (766.491 nm)	N/A	10.00000 (mg/L)	11371.40326	0.22
1/18/2022 10:18:43	ICAL 2	Mg (279.800 nm)	N/A	10.00000 (mg/L)	6474.65557	0.39
1/18/2022 10:18:43	ICAL 2	Mn (257.610 nm)	N/A	1.00000 (mg/L)	78463.18047	0.30
1/18/2022 10:18:43	ICAL 2	Mo (204.598 nm)	N/A	1.00000 (mg/L)	749.38265	0.71
1/18/2022 10:18:43	ICAL 2	Na (589.592 nm)	N/A	10.00000 (mg/L)	53356.81687	0.27
1/18/2022 10:18:43	ICAL 2	Ni (221.648 nm)	N/A	1.00000 (mg/L)	503.73597	0.70
1/18/2022 10:18:43	ICAL 2	P (213.618 nm)	N/A	1.00000 (mg/L)	344.12327	1.40
1/18/2022 10:18:43	ICAL 2	Pb (220.353 nm)	N/A	1.00000 (mg/L)	344.31465	0.54
1/18/2022 10:18:43	ICAL 2	S (181.972 nm)	N/A	1.00000 (mg/L)	29.26696	4.15
1/18/2022 10:18:43	ICAL 2	Sb (217.582 nm)	N/A	1.00000 (mg/L)	285.32301	0.69
1/18/2022 10:18:43	ICAL 2	Se (196.026 nm)	N/A	1.00000 (mg/L)	153.83394	2.65
1/18/2022 10:18:43	ICAL 2	Sn (189.925 nm)	N/A	1.00000 (mg/L)	175.46307	0.81
1/18/2022 10:18:43	ICAL 2	Sr (407.771 nm)	N/A	1.00000 (mg/L)	1631636.84743	0.38
1/18/2022 10:18:43	ICAL 2	Ti (337.280 nm)	N/A	1.00000 (mg/L)	14962.06816	0.49
1/18/2022 10:18:43	ICAL 2	Tl (351.923 nm)	N/A	1.00000 (mg/L)	419.56765	5.84
1/18/2022 10:18:43	ICAL 2	V (311.837 nm)	N/A	1.00000 (mg/L)	16414.03813	0.49
1/18/2022 10:18:43	ICAL 2	Zn (206.200 nm)	N/A	1.00000 (mg/L)	534.64651	0.62
1/18/2022 10:21:51	ICAL 3	Ag (328.068 nm)	N/A	0.20000 (mg/L)	3492.29577	0.46
1/18/2022 10:21:51	ICAL 3	Al (308.215 nm)	N/A	20.00000 (mg/L)	39799.96115	0.35
1/18/2022 10:21:51	ICAL 3	As (193.696 nm)	N/A	2.00000 (mg/L)	340.57765	2.08
1/18/2022 10:21:51	ICAL 3	B (249.772 nm)	N/A	2.00000 (mg/L)	16122.21045	0.52
1/18/2022 10:21:51	ICAL 3	Ba (413.064 nm)	N/A	2.00000 (mg/L)	11502.59706	0.32
1/18/2022 10:21:51	ICAL 3	Be (313.042 nm)	N/A	2.00000 (mg/L)	1443210.16918	0.77
1/18/2022 10:21:51	ICAL 3	Ca (373.690 nm)	N/A	20.00000 (mg/L)	47237.30045	0.42
1/18/2022 10:21:51	ICAL 3	Cd (228.802 nm)	N/A	2.00000 (mg/L)	12223.09839	0.42
1/18/2022 10:21:51	ICAL 3	Co (230.786 nm)	N/A	2.00000 (mg/L)	5194.74310	0.54
1/18/2022 10:21:51	ICAL 3	Cr (267.716 nm)	N/A	2.00000 (mg/L)	21069.78585	0.37
1/18/2022 10:21:51	ICAL 3	Cu (327.395 nm)	N/A	2.00000 (mg/L)	24194.41664	0.53
1/18/2022 10:21:51	ICAL 3	Fe (238.204 nm)	N/A	20.00000 (mg/L)	179376.44280	0.41

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 10:21:51	ICAL 3	K (766.491 nm)	N/A	20.00000 (mg/L)	23121.04606	0.26
1/18/2022 10:21:51	ICAL 3	Mg (279.800 nm)	N/A	20.00000 (mg/L)	12849.10718	0.46
1/18/2022 10:21:51	ICAL 3	Mn (257.610 nm)	N/A	2.00000 (mg/L)	154783.95457	0.38
1/18/2022 10:21:51	ICAL 3	Mo (204.598 nm)	N/A	2.00000 (mg/L)	1504.71508	0.45
1/18/2022 10:21:51	ICAL 3	Na (589.592 nm)	N/A	20.00000 (mg/L)	106931.46361	0.37
1/18/2022 10:21:51	ICAL 3	Ni (221.648 nm)	N/A	2.00000 (mg/L)	986.05058	0.12
1/18/2022 10:21:51	ICAL 3	P (213.618 nm)	N/A	2.00000 (mg/L)	678.04856	0.50
1/18/2022 10:21:51	ICAL 3	Pb (220.353 nm)	N/A	2.00000 (mg/L)	676.85872	0.29
1/18/2022 10:21:51	ICAL 3	S (181.972 nm)	N/A	2.00000 (mg/L)	58.12640	1.53
1/18/2022 10:21:51	ICAL 3	Sb (217.582 nm)	N/A	2.00000 (mg/L)	575.39628	0.40
1/18/2022 10:21:51	ICAL 3	Se (196.026 nm)	N/A	2.00000 (mg/L)	301.14078	0.15
1/18/2022 10:21:51	ICAL 3	Sn (189.925 nm)	N/A	2.00000 (mg/L)	344.16679	0.58
1/18/2022 10:21:51	ICAL 3	Sr (407.771 nm)	N/A	2.00000 (mg/L)	3123374.51240	0.08
1/18/2022 10:21:51	ICAL 3	Ti (337.280 nm)	N/A	2.00000 (mg/L)	29980.05342	0.40
1/18/2022 10:21:51	ICAL 3	Tl (351.923 nm)	N/A	2.00000 (mg/L)	867.80348	2.66
1/18/2022 10:21:51	ICAL 3	V (311.837 nm)	N/A	2.00000 (mg/L)	32833.63842	0.36
1/18/2022 10:21:51	ICAL 3	Zn (206.200 nm)	N/A	2.00000 (mg/L)	1059.84920	0.39
1/18/2022 10:24:58	Lab Control Sample	Ag (328.068 nm)	0.61	0.20140 (mg/L)	3510.96915	0.61
1/18/2022 10:24:58	Lab Control Sample	Al (308.215 nm)	0.73	20.47350 (mg/L)	39963.26733	0.72
1/18/2022 10:24:58	Lab Control Sample	As (193.696 nm)	0.66	2.00247 (mg/L)	340.70785	0.65
1/18/2022 10:24:58	Lab Control Sample	B (249.772 nm)	0.73	1.99863 (mg/L)	16155.39962	0.72
1/18/2022 10:24:58	Lab Control Sample	Ba (413.064 nm)	0.63	2.00601 (mg/L)	11560.88497	0.63
1/18/2022 10:24:58	Lab Control Sample	Be (313.042 nm)	1.11	2.01007 (mg/L)	1455678.11791	1.11
1/18/2022 10:24:58	Lab Control Sample	Ca (373.690 nm)	0.73	20.19448 (mg/L)	47413.52934	0.74
1/18/2022 10:24:58	Lab Control Sample	Cd (228.802 nm)	0.69	2.00041 (mg/L)	12256.30722	0.69
1/18/2022 10:24:58	Lab Control Sample	Co (230.786 nm)	0.74	2.00168 (mg/L)	5214.90522	0.74
1/18/2022 10:24:58	Lab Control Sample	Cr (267.716 nm)	0.71	2.00861 (mg/L)	21211.24964	0.71
1/18/2022 10:24:58	Lab Control Sample	Cu (327.395 nm)	0.80	2.00010 (mg/L)	24159.33368	0.80
1/18/2022 10:24:58	Lab Control Sample	Fe (238.204 nm)	0.80	19.92728 (mg/L)	180467.71734	0.80
1/18/2022 10:24:58	Lab Control Sample	K (766.491 nm)	0.53	20.36225 (mg/L)	23206.50313	0.53
1/18/2022 10:24:58	Lab Control Sample	Mg (279.800 nm)	0.73	19.99208 (mg/L)	12900.04637	0.73
1/18/2022 10:24:58	Lab Control Sample	Mn (257.610 nm)	0.72	2.00675 (mg/L)	155732.30575	0.72
1/18/2022 10:24:58	Lab Control Sample	Mo (204.598 nm)	0.94	2.01364 (mg/L)	1511.44858	0.94
1/18/2022 10:24:58	Lab Control Sample	Na (589.592 nm)	0.64	20.31929 (mg/L)	108591.93335	0.64
1/18/2022 10:24:58	Lab Control Sample	Ni (221.648 nm)	1.05	2.01170 (mg/L)	992.34076	1.05
1/18/2022 10:24:58	Lab Control Sample	P (213.618 nm)	0.67	1.99103 (mg/L)	676.60211	0.67
1/18/2022 10:24:58	Lab Control Sample	Pb (220.353 nm)	0.41	2.01447 (mg/L)	684.59810	0.41
1/18/2022 10:24:58	Lab Control Sample	S (181.972 nm)	2.68	2.04031 (mg/L)	59.16388	2.64
1/18/2022 10:24:58	Lab Control Sample	Sb (217.582 nm)	0.67	2.00890 (mg/L)	577.00710	0.67
1/18/2022 10:24:58	Lab Control Sample	Se (196.026 nm)	1.05	2.00868 (mg/L)	303.16344	1.04
1/18/2022 10:24:58	Lab Control Sample	Sn (189.925 nm)	0.65	2.01500 (mg/L)	347.71423	0.65
1/18/2022 10:24:58	Lab Control Sample	Sr (407.771 nm)	0.79	2.00246 (mg/L)	3134308.91413	0.79
1/18/2022 10:24:58	Lab Control Sample	Ti (337.280 nm)	0.74	2.00669 (mg/L)	30066.70276	0.74
1/18/2022 10:24:58	Lab Control Sample	Tl (351.923 nm)	4.25	2.01512 (mg/L)	874.16367	4.38
1/18/2022 10:24:58	Lab Control Sample	V (311.837 nm)	0.68	2.01090 (mg/L)	33010.46156	0.68
1/18/2022 10:24:58	Lab Control Sample	Zn (206.200 nm)	0.69	2.01082 (mg/L)	1066.42159	0.69
1/18/2022 10:38:38	Initial Calib Verif	Ag (328.068 nm)	0.74	0.05046 (mg/L)	880.29438	0.74
1/18/2022 10:38:38	Initial Calib Verif	Al (308.215 nm)	0.62	5.05165 (mg/L)	10110.13035	0.60

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 10:38:38	Initial Calib Verif	As (193.696 nm)	0.77	0.50751 (mg/L)	89.04277	0.74
1/18/2022 10:38:38	Initial Calib Verif	B (249.772 nm)	0.28	0.51320 (mg/L)	4173.25640	0.28
1/18/2022 10:38:38	Initial Calib Verif	Ba (413.064 nm)	0.48	0.51724 (mg/L)	3020.20244	0.47
1/18/2022 10:38:38	Initial Calib Verif	Be (313.042 nm)	0.50	0.51763 (mg/L)	374683.73750	0.50
1/18/2022 10:38:38	Initial Calib Verif	Ca (373.690 nm)	0.46	5.14905 (mg/L)	12029.71934	0.46
1/18/2022 10:38:38	Initial Calib Verif	Cd (228.802 nm)	0.64	0.50426 (mg/L)	3096.17047	0.64
1/18/2022 10:38:38	Initial Calib Verif	Co (230.786 nm)	0.81	0.51256 (mg/L)	1336.97775	0.81
1/18/2022 10:38:38	Initial Calib Verif	Cr (267.716 nm)	0.37	0.51479 (mg/L)	5443.21799	0.37
1/18/2022 10:38:38	Initial Calib Verif	Cu (327.395 nm)	0.20	0.49950 (mg/L)	6037.15947	0.20
1/18/2022 10:38:38	Initial Calib Verif	Fe (238.204 nm)	0.60	5.19486 (mg/L)	47084.23874	0.60
1/18/2022 10:38:38	Initial Calib Verif	K (766.491 nm)	0.59	4.99037 (mg/L)	5755.61146	0.58
1/18/2022 10:38:38	Initial Calib Verif	Mg (279.800 nm)	0.66	5.08319 (mg/L)	3283.68391	0.66
1/18/2022 10:38:38	Initial Calib Verif	Mn (257.610 nm)	0.43	0.51743 (mg/L)	40169.66269	0.43
1/18/2022 10:38:38	Initial Calib Verif	Mo (204.598 nm)	0.27	0.50305 (mg/L)	378.80008	0.27
1/18/2022 10:38:38	Initial Calib Verif	Na (589.592 nm)	0.32	5.18389 (mg/L)	27649.47633	0.32
1/18/2022 10:38:38	Initial Calib Verif	Ni (221.648 nm)	0.67	0.51704 (mg/L)	256.95310	0.66
1/18/2022 10:38:38	Initial Calib Verif	P (213.618 nm)	1.00	0.51381 (mg/L)	176.04735	0.99
1/18/2022 10:38:38	Initial Calib Verif	Pb (220.353 nm)	1.38	0.51596 (mg/L)	174.17038	1.40
1/18/2022 10:38:38	Initial Calib Verif	S (181.972 nm)	3.55	0.52477 (mg/L)	15.92987	3.33
1/18/2022 10:38:38	Initial Calib Verif	Sb (217.582 nm)	2.73	0.50177 (mg/L)	143.30861	2.75
1/18/2022 10:38:38	Initial Calib Verif	Se (196.026 nm)	0.98	0.50395 (mg/L)	78.23424	0.95
1/18/2022 10:38:38	Initial Calib Verif	Sn (189.925 nm)	1.96	0.51888 (mg/L)	90.83123	1.92
1/18/2022 10:38:38	Initial Calib Verif	Sr (407.771 nm)	0.80	0.52412 (mg/L)	820588.00051	0.79
1/18/2022 10:38:38	Initial Calib Verif	Ti (337.280 nm)	0.64	0.50473 (mg/L)	7570.77338	0.64
1/18/2022 10:38:38	Initial Calib Verif	Tl (351.923 nm)	4.06	0.48011 (mg/L)	187.98185	4.63
1/18/2022 10:38:38	Initial Calib Verif	V (311.837 nm)	0.58	0.50446 (mg/L)	8284.33813	0.58
1/18/2022 10:38:38	Initial Calib Verif	Zn (206.200 nm)	0.97	0.51898 (mg/L)	279.02516	0.95
1/18/2022 10:41:46	Initial Calib Blank	Ag (328.068 nm)	> 100.00	0.00001 u (mg/L)	0.85258	> 100.00
1/18/2022 10:41:46	Initial Calib Blank	Al (308.215 nm)	6.57	-0.04558 u (mg/L)	243.07096	2.38
1/18/2022 10:41:46	Initial Calib Blank	As (193.696 nm)	91.03	-0.00615 u (mg/L)	2.57328	36.61
1/18/2022 10:41:46	Initial Calib Blank	B (249.772 nm)	31.49	0.00067 (mg/L)	38.95716	4.39
1/18/2022 10:41:46	Initial Calib Blank	Ba (413.064 nm)	33.52	-0.00149 u (mg/L)	44.36880	6.46
1/18/2022 10:41:46	Initial Calib Blank	Be (313.042 nm)	1.10	-0.00097 u (mg/L)	-945.70778	0.81
1/18/2022 10:41:46	Initial Calib Blank	Ca (373.690 nm)	2.84	0.03007 (mg/L)	-9.08930	22.12
1/18/2022 10:41:46	Initial Calib Blank	Cd (228.802 nm)	32.08	-0.00026 u (mg/L)	7.30721	6.90
1/18/2022 10:41:46	Initial Calib Blank	Co (230.786 nm)	68.78	-0.00068 u (mg/L)	0.41274	> 100.00
1/18/2022 10:41:46	Initial Calib Blank	Cr (267.716 nm)	25.62	0.00024 (mg/L)	11.96096	5.51
1/18/2022 10:41:46	Initial Calib Blank	Cu (327.395 nm)	> 100.00	0.00007 u (mg/L)	5.75038	43.77
1/18/2022 10:41:46	Initial Calib Blank	Fe (238.204 nm)	> 100.00	0.00027 u (mg/L)	53.74261	5.13
1/18/2022 10:41:46	Initial Calib Blank	K (766.491 nm)	13.39	-0.04960 u (mg/L)	33.98808	22.19
1/18/2022 10:41:46	Initial Calib Blank	Mg (279.800 nm)	> 100.00	-0.00066 u (mg/L)	4.55702	12.88
1/18/2022 10:41:46	Initial Calib Blank	Mn (257.610 nm)	> 100.00	0.00002 u (mg/L)	21.53215	12.95
1/18/2022 10:41:46	Initial Calib Blank	Mo (204.598 nm)	> 100.00	0.00044 u (mg/L)	1.94435	23.33
1/18/2022 10:41:46	Initial Calib Blank	Na (589.592 nm)	3.18	0.08295 (mg/L)	370.16031	3.81
1/18/2022 10:41:46	Initial Calib Blank	Ni (221.648 nm)	> 100.00	-0.00007 u (mg/L)	2.52813	40.42
1/18/2022 10:41:46	Initial Calib Blank	P (213.618 nm)	> 100.00	0.00054 u (mg/L)	2.12753	56.01
1/18/2022 10:41:46	Initial Calib Blank	Pb (220.353 nm)	43.47	0.00226 (mg/L)	-0.80766	41.36
1/18/2022 10:41:46	Initial Calib Blank	S (181.972 nm)	37.68	-0.01219 u (mg/L)	0.61176	21.42

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 10:41:46	Initial Calib Blank	Sb (217.582 nm)	> 100.00	0.00479 u (mg/L)	0.29603	> 100.00
1/18/2022 10:41:46	Initial Calib Blank	Se (196.026 nm)	> 100.00	0.00343 u (mg/L)	3.41656	75.92
1/18/2022 10:41:46	Initial Calib Blank	Sn (189.925 nm)	> 100.00	-0.00398 u (mg/L)	1.05641	64.78
1/18/2022 10:41:46	Initial Calib Blank	Sr (407.771 nm)	37.73	0.00002 (mg/L)	327.79593	2.81
1/18/2022 10:41:46	Initial Calib Blank	Ti (337.280 nm)	> 100.00	-0.00002 u (mg/L)	10.78052	29.96
1/18/2022 10:41:46	Initial Calib Blank	Tl (351.923 nm)	> 100.00	0.00675 u (mg/L)	-23.62180	21.08
1/18/2022 10:41:46	Initial Calib Blank	V (311.837 nm)	> 100.00	0.00007 u (mg/L)	5.33106	49.38
1/18/2022 10:41:46	Initial Calib Blank	Zn (206.200 nm)	36.44	-0.00361 u (mg/L)	3.20440	21.65
1/18/2022 11:11:05	CRI	Ag (328.068 nm)	2.53	0.00462 (mg/L)	81.33467	2.51
1/18/2022 11:11:05	CRI	Al (308.215 nm)	0.54	0.19837 (mg/L)	715.30574	0.29
1/18/2022 11:11:05	CRI	As (193.696 nm)	11.80	0.03658 R (mg/L)	9.76554 R	7.44
1/18/2022 11:11:05	CRI	B (249.772 nm)	1.79	0.05199 (mg/L)	452.88748	1.66
1/18/2022 11:11:05	CRI	Ba (413.064 nm)	7.53	0.00897 (mg/L)	104.38180	3.71
1/18/2022 11:11:05	CRI	Be (313.042 nm)	0.54	0.00533 (mg/L)	3616.93411	0.58
1/18/2022 11:11:05	CRI	Ca (373.690 nm)	1.95	0.09909 (mg/L)	153.24004	2.97
1/18/2022 11:11:05	CRI	Cd (228.802 nm)	4.19	0.00540 (mg/L)	41.92172	3.30
1/18/2022 11:11:05	CRI	Co (230.786 nm)	8.80	0.00974 (mg/L)	27.56454	8.10
1/18/2022 11:11:05	CRI	Cr (267.716 nm)	2.56	0.01011 (mg/L)	116.13062	2.36
1/18/2022 11:11:05	CRI	Cu (327.395 nm)	1.83	0.00986 (mg/L)	123.98901	1.76
1/18/2022 11:11:05	CRI	Fe (238.204 nm)	0.60	0.10252 (mg/L)	979.50433	0.57
1/18/2022 11:11:05	CRI	K (766.491 nm)	1.92	0.42130 (mg/L)	568.58159	1.61
1/18/2022 11:11:05	CRI	Mg (279.800 nm)	1.33	0.10042 (mg/L)	69.75292	1.23
1/18/2022 11:11:05	CRI	Mn (257.610 nm)	0.89	0.00515 (mg/L)	419.47232	0.85
1/18/2022 11:11:05	CRI	Mo (204.598 nm)	1.13	0.04864 (mg/L)	38.08215	1.08
1/18/2022 11:11:05	CRI	Na (589.592 nm)	0.11	0.91427 (mg/L)	4816.01379	0.11
1/18/2022 11:11:05	CRI	Ni (221.648 nm)	10.09	0.01933 (mg/L)	12.07205	7.95
1/18/2022 11:11:05	CRI	P (213.618 nm)	14.48	0.04258 (mg/L)	16.37283	12.76
1/18/2022 11:11:05	CRI	Pb (220.353 nm)	14.07	0.01086 (mg/L)	2.12220	24.51
1/18/2022 11:11:05	CRI	S (181.972 nm)	88.63	0.03986 u (mg/L)	2.09656	48.06
1/18/2022 11:11:05	CRI	Sb (217.582 nm)	44.60	0.02499 R (mg/L)	6.10979 R	52.50
1/18/2022 11:11:05	CRI	Se (196.026 nm)	8.28	0.01934 (mg/L)	5.79558	4.13
1/18/2022 11:11:05	CRI	Sn (189.925 nm)	12.81	0.04927 (mg/L)	10.19973	10.63
1/18/2022 11:11:05	CRI	Sr (407.771 nm)	1.40	0.05689 (mg/L)	89337.95800	1.40
1/18/2022 11:11:05	CRI	Ti (337.280 nm)	0.89	0.04965 (mg/L)	754.62629	0.88
1/18/2022 11:11:05	CRI	Tl (351.923 nm)	17.77	0.02389 (mg/L)	-15.95885	11.89
1/18/2022 11:11:05	CRI	V (311.837 nm)	7.69	0.00863 (mg/L)	145.83934	7.46
1/18/2022 11:11:05	CRI	Zn (206.200 nm)	15.32	0.01701 (mg/L)	14.08625	9.77
1/18/2022 11:14:12	Interf Check A	Ag (328.068 nm)	39.38	0.00082 (mg/L)	14.97043	37.41
1/18/2022 11:14:12	Interf Check A	Al (308.215 nm)	0.34	253.62496 (mg/L)	491290.62450	0.34
1/18/2022 11:14:12	Interf Check A	As (193.696 nm)	> 100.00	-0.00195 u (mg/L)	3.27913	76.22
1/18/2022 11:14:12	Interf Check A	B (249.772 nm)	0.89	0.02500 (mg/L)	235.21481	0.76
1/18/2022 11:14:12	Interf Check A	Ba (413.064 nm)	39.43	0.00202 (mg/L)	64.49104	7.07
1/18/2022 11:14:12	Interf Check A	Be (313.042 nm)	11.31	0.00007 (mg/L)	-191.34631	3.06
1/18/2022 11:14:12	Interf Check A	Ca (373.690 nm)	0.38	234.59823 o (mg/L)	551647.87580	0.38
1/18/2022 11:14:12	Interf Check A	Cd (228.802 nm)	> 100.00	0.00030 u (mg/L)	10.70239	42.96
1/18/2022 11:14:12	Interf Check A	Co (230.786 nm)	17.98	-0.00171 u (mg/L)	-2.26434	35.42
1/18/2022 11:14:12	Interf Check A	Cr (267.716 nm)	29.00	-0.00048 u (mg/L)	4.28434	34.55
1/18/2022 11:14:12	Interf Check A	Cu (327.395 nm)	> 100.00	0.00010 u (mg/L)	6.13648	65.55

220118AREP.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 11:14:12	Interf Check A	Fe (238.204 nm)	0.37	85.45656 (mg/L)	773752.71280	0.37
1/18/2022 11:14:12	Interf Check A	K (766.491 nm)	57.35	0.03636 (mg/L)	131.57796	17.99
1/18/2022 11:14:12	Interf Check A	Mg (279.800 nm)	0.17	246.01710 o (mg/L)	158688.12647	0.17
1/18/2022 11:14:12	Interf Check A	Mn (257.610 nm)	4.06	0.00079 (mg/L)	81.23121	3.07
1/18/2022 11:14:12	Interf Check A	Mo (204.598 nm)	27.13	0.00514 (mg/L)	5.46898	19.13
1/18/2022 11:14:12	Interf Check A	Na (589.592 nm)	0.89	0.05036 (mg/L)	195.90967	1.22
1/18/2022 11:14:12	Interf Check A	Ni (221.648 nm)	8.06	0.00707 (mg/L)	6.04020	4.64
1/18/2022 11:14:12	Interf Check A	P (213.618 nm)	> 100.00	0.00143 u (mg/L)	2.42988	42.20
1/18/2022 11:14:12	Interf Check A	Pb (220.353 nm)	> 100.00	-0.00766 u (mg/L)	-4.18392	78.26
1/18/2022 11:14:12	Interf Check A	S (181.972 nm)	> 100.00	-0.02757 u (mg/L)	0.17309	> 100.00
1/18/2022 11:14:12	Interf Check A	Sb (217.582 nm)	98.21	0.00752 u (mg/L)	1.08286	> 100.00
1/18/2022 11:14:12	Interf Check A	Se (196.026 nm)	58.36	0.01480 (mg/L)	5.11614	25.23
1/18/2022 11:14:12	Interf Check A	Sn (189.925 nm)	> 100.00	-0.00006 u (mg/L)	1.73013	41.75
1/18/2022 11:14:12	Interf Check A	Sr (407.771 nm)	7.04	0.00031 (mg/L)	789.62359	4.34
1/18/2022 11:14:12	Interf Check A	Ti (337.280 nm)	50.65	0.00035 (mg/L)	16.32804	16.38
1/18/2022 11:14:12	Interf Check A	Tl (351.923 nm)	72.46	-0.01610 u (mg/L)	-33.83530	15.42
1/18/2022 11:14:12	Interf Check A	V (311.837 nm)	86.99	0.00049 (mg/L)	12.34328	57.23
1/18/2022 11:14:12	Interf Check A	Zn (206.200 nm)	> 100.00	-0.00099 u (mg/L)	4.58639	35.11
1/18/2022 11:17:20	Interf Check AB	Ag (328.068 nm)	0.20	0.05006 (mg/L)	873.30211	0.20
1/18/2022 11:17:20	Interf Check AB	Al (308.215 nm)	0.42	263.79753 (mg/L)	510982.36118	0.42
1/18/2022 11:17:20	Interf Check AB	As (193.696 nm)	1.37	0.45034 (mg/L)	79.41848	1.31
1/18/2022 11:17:20	Interf Check AB	B (249.772 nm)	0.18	0.54731 (mg/L)	4448.37994	0.18
1/18/2022 11:17:20	Interf Check AB	Ba (413.064 nm)	0.19	0.47165 (mg/L)	2758.66122	0.19
1/18/2022 11:17:20	Interf Check AB	Be (313.042 nm)	0.25	0.47881 (mg/L)	346564.11409	0.25
1/18/2022 11:17:20	Interf Check AB	Ca (373.690 nm)	0.13	244.16287 o (mg/L)	574141.99623	0.13
1/18/2022 11:17:20	Interf Check AB	Cd (228.802 nm)	0.64	0.48986 (mg/L)	3008.04636	0.64
1/18/2022 11:17:20	Interf Check AB	Co (230.786 nm)	0.86	0.44703 (mg/L)	1166.34282	0.86
1/18/2022 11:17:20	Interf Check AB	Cr (267.716 nm)	0.03	0.46714 (mg/L)	4940.23441	0.03
1/18/2022 11:17:20	Interf Check AB	Cu (327.395 nm)	0.33	0.50434 (mg/L)	6095.65984	0.32
1/18/2022 11:17:20	Interf Check AB	Fe (238.204 nm)	0.38	90.91656 (mg/L)	823186.08763	0.38
1/18/2022 11:17:20	Interf Check AB	K (766.491 nm)	0.47	5.22495 (mg/L)	6021.91126	0.47
1/18/2022 11:17:20	Interf Check AB	Mg (279.800 nm)	0.25	255.01354 o (mg/L)	164490.90611	0.25
1/18/2022 11:17:20	Interf Check AB	Mn (257.610 nm)	0.20	0.46957 (mg/L)	36455.89999	0.20
1/18/2022 11:17:20	Interf Check AB	Mo (204.598 nm)	0.56	0.52070 (mg/L)	392.03395	0.56
1/18/2022 11:17:20	Interf Check AB	Na (589.592 nm)	0.39	5.22087 (mg/L)	27847.23968	0.39
1/18/2022 11:17:20	Interf Check AB	Ni (221.648 nm)	2.19	0.45773 (mg/L)	227.77331	2.17
1/18/2022 11:17:20	Interf Check AB	P (213.618 nm)	2.12	0.50878 (mg/L)	174.34492	2.09
1/18/2022 11:17:20	Interf Check AB	Pb (220.353 nm)	2.34	0.45935 (mg/L)	154.88912	2.36
1/18/2022 11:17:20	Interf Check AB	S (181.972 nm)	11.03	0.55705 (mg/L)	16.85073	10.40
1/18/2022 11:17:20	Interf Check AB	Sb (217.582 nm)	1.25	0.54150 (mg/L)	154.74229	1.26
1/18/2022 11:17:20	Interf Check AB	Se (196.026 nm)	0.97	0.48168 (mg/L)	74.90570	0.94
1/18/2022 11:17:20	Interf Check AB	Sn (189.925 nm)	0.79	0.52814 (mg/L)	92.42155	0.78
1/18/2022 11:17:20	Interf Check AB	Sr (407.771 nm)	0.49	0.51284 (mg/L)	802929.22048	0.49
1/18/2022 11:17:20	Interf Check AB	Ti (337.280 nm)	0.36	0.52255 (mg/L)	7837.59193	0.36
1/18/2022 11:17:20	Interf Check AB	Tl (351.923 nm)	4.37	0.47294 (mg/L)	184.77515	5.00
1/18/2022 11:17:20	Interf Check AB	V (311.837 nm)	0.22	0.47428 (mg/L)	7788.97136	0.22
1/18/2022 11:17:20	Interf Check AB	Zn (206.200 nm)	0.48	0.46015 (mg/L)	247.97727	0.47
1/18/2022 11:20:27	CRI	Ag (328.068 nm)	7.62	0.00467 (mg/L)	82.19260	7.55

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 11:20:27	CRI	Al (308.215 nm)	0.45	0.18880 (mg/L)	696.77793	0.23
1/18/2022 11:20:27	CRI	As (193.696 nm)	13.88	0.04504 (mg/L)	11.19083	9.40
1/18/2022 11:20:27	CRI	B (249.772 nm)	0.83	0.05192 (mg/L)	452.33167	0.76
1/18/2022 11:20:27	CRI	Ba (413.064 nm)	12.65	0.01051 (mg/L)	113.20879	6.74
1/18/2022 11:20:27	CRI	Be (313.042 nm)	0.57	0.00532 (mg/L)	3609.40851	0.60
1/18/2022 11:20:27	CRI	Ca (373.690 nm)	3.16	0.09947 (mg/L)	154.12041	4.79
1/18/2022 11:20:27	CRI	Cd (228.802 nm)	3.32	0.00546 (mg/L)	42.32610	2.63
1/18/2022 11:20:27	CRI	Co (230.786 nm)	8.37	0.01045 (mg/L)	29.41344	7.74
1/18/2022 11:20:27	CRI	Cr (267.716 nm)	4.07	0.01043 (mg/L)	119.43800	3.75
1/18/2022 11:20:27	CRI	Cu (327.395 nm)	3.66	0.01031 (mg/L)	129.39271	3.52
1/18/2022 11:20:27	CRI	Fe (238.204 nm)	0.86	0.10421 (mg/L)	994.80865	0.82
1/18/2022 11:20:27	CRI	K (766.491 nm)	1.19	0.45082 (mg/L)	602.08627	1.01
1/18/2022 11:20:27	CRI	Mg (279.800 nm)	4.48	0.10231 (mg/L)	70.97079	4.16
1/18/2022 11:20:27	CRI	Mn (257.610 nm)	0.32	0.00510 (mg/L)	415.30488	0.31
1/18/2022 11:20:27	CRI	Mo (204.598 nm)	3.55	0.05013 (mg/L)	39.20396	3.40
1/18/2022 11:20:27	CRI	Na (589.592 nm)	0.54	0.91884 (mg/L)	4840.45234	0.55
1/18/2022 11:20:27	CRI	Ni (221.648 nm)	11.01	0.02019 (mg/L)	12.49846	8.76
1/18/2022 11:20:27	CRI	P (213.618 nm)	9.87	0.04464 (mg/L)	17.07162	8.75
1/18/2022 11:20:27	CRI	Pb (220.353 nm)	48.20	0.00869 (mg/L)	1.38512	> 100.00
1/18/2022 11:20:27	CRI	S (181.972 nm)	> 100.00	0.01577 Ru (mg/L)	1.40937 R	37.08
1/18/2022 11:20:27	CRI	Sb (217.582 nm)	12.05	0.02099 (mg/L)	4.95880	14.68
1/18/2022 11:20:27	CRI	Se (196.026 nm)	39.43	0.02210 (mg/L)	6.20803	20.98
1/18/2022 11:20:27	CRI	Sn (189.925 nm)	32.04	0.04890 (mg/L)	10.13560	26.54
1/18/2022 11:20:27	CRI	Sr (407.771 nm)	0.90	0.05665 (mg/L)	88970.91648	0.89
1/18/2022 11:20:27	CRI	Ti (337.280 nm)	1.29	0.04953 (mg/L)	752.87343	1.27
1/18/2022 11:20:27	CRI	Tl (351.923 nm)	85.65	0.01276 R (mg/L)	-20.93293 R	23.34
1/18/2022 11:20:27	CRI	V (311.837 nm)	3.09	0.00856 (mg/L)	144.70512	3.00
1/18/2022 11:20:27	CRI	Zn (206.200 nm)	13.04	0.01664 (mg/L)	13.89090	8.24
1/18/2022 11:23:33	CRI-2	Ag (328.068 nm)	35.19	0.00104 (mg/L)	18.91044	33.80
1/18/2022 11:23:33	CRI-2	Al (308.215 nm)	11.81	0.03686 (mg/L)	402.64417	2.09
1/18/2022 11:23:33	CRI-2	As (193.696 nm)	49.38	0.01470 (mg/L)	6.08308	20.09
1/18/2022 11:23:33	CRI-2	B (249.772 nm)	2.01	0.01072 (mg/L)	119.98876	1.45
1/18/2022 11:23:33	CRI-2	Ba (413.064 nm)	59.30	0.00254 (mg/L)	67.48059	12.79
1/18/2022 11:23:33	CRI-2	Be (313.042 nm)	0.61	0.00166 (mg/L)	962.63589	0.76
1/18/2022 11:23:33	CRI-2	Ca (373.690 nm)	3.46	0.07581 (mg/L)	98.47364	6.27
1/18/2022 11:23:33	CRI-2	Cd (228.802 nm)	27.78	0.00128 (mg/L)	16.72098	13.03
1/18/2022 11:23:33	CRI-2	Co (230.786 nm)	16.35	0.00206 (mg/L)	7.57143	11.61
1/18/2022 11:23:33	CRI-2	Cr (267.716 nm)	16.80	0.00289 (mg/L)	39.87634	12.85
1/18/2022 11:23:33	CRI-2	Cu (327.395 nm)	4.17	0.00307 (mg/L)	42.06282	3.69
1/18/2022 11:23:33	CRI-2	Fe (238.204 nm)	0.77	0.03643 (mg/L)	381.12410	0.67
1/18/2022 11:23:33	CRI-2	K (766.491 nm)	22.78	0.10771 (mg/L)	212.57354	13.10
1/18/2022 11:23:33	CRI-2	Mg (279.800 nm)	14.60	0.02723 (mg/L)	22.54463	11.37
1/18/2022 11:23:33	CRI-2	Mn (257.610 nm)	2.28	0.00143 (mg/L)	130.67622	1.93
1/18/2022 11:23:33	CRI-2	Mo (204.598 nm)	6.46	0.01263 (mg/L)	11.08342	5.52
1/18/2022 11:23:33	CRI-2	Na (589.592 nm)	0.48	0.30135 (mg/L)	1538.16950	0.50
1/18/2022 11:23:33	CRI-2	Ni (221.648 nm)	19.81	0.00437 (mg/L)	4.71235	9.03
1/18/2022 11:23:33	CRI-2	P (213.618 nm)	51.01	0.00377 (mg/L)	3.22150	20.22
1/18/2022 11:23:33	CRI-2	Pb (220.353 nm)	> 100.00	0.00419 u (mg/L)	-0.14764	> 100.00

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 11:23:33	CRI-2	S (181.972 nm)	> 100.00	0.04072 u (mg/L)	2.12115	74.12
1/18/2022 11:23:33	CRI-2	Sb (217.582 nm)	> 100.00	0.00561 u (mg/L)	0.53179	> 100.00
1/18/2022 11:23:33	CRI-2	Se (196.026 nm)	98.94	0.00477 (mg/L)	3.61724	19.50
1/18/2022 11:23:33	CRI-2	Sn (189.925 nm)	21.13	0.00753 (mg/L)	3.03244	9.01
1/18/2022 11:23:33	CRI-2	Sr (407.771 nm)	0.22	0.01228 (mg/L)	19524.39949	0.21
1/18/2022 11:23:33	CRI-2	Ti (337.280 nm)	2.05	0.01158 (mg/L)	184.46891	1.93
1/18/2022 11:23:33	CRI-2	Tl (351.923 nm)	> 100.00	0.00558 u (mg/L)	-24.14188	25.62
1/18/2022 11:23:33	CRI-2	V (311.837 nm)	9.06	0.00142 (mg/L)	27.57357	7.67
1/18/2022 11:23:33	CRI-2	Zn (206.200 nm)	5.06	0.01972 (mg/L)	15.51549	3.40
1/18/2022 11:51:27	CRI-5	Ag (328.068 nm)	5.27	0.00075 (mg/L)	13.88340	4.98
1/18/2022 11:51:27	CRI-5	Al (308.215 nm)	16.41	0.02675 (mg/L)	383.07686	2.22
1/18/2022 11:51:27	CRI-5	As (193.696 nm)	> 100.00	0.00271 u (mg/L)	4.06423	17.20
1/18/2022 11:51:27	CRI-5	B (249.772 nm)	2.90	0.00767 (mg/L)	95.38137	1.88
1/18/2022 11:51:27	CRI-5	Ba (413.064 nm)	2.72	0.00132 (mg/L)	60.48980	0.34
1/18/2022 11:51:27	CRI-5	Be (313.042 nm)	1.99	0.00138 (mg/L)	753.71743	2.63
1/18/2022 11:51:27	CRI-5	Ca (373.690 nm)	1.69	0.12603 (mg/L)	216.58207	2.32
1/18/2022 11:51:27	CRI-5	Cd (228.802 nm)	46.21	0.00072 (mg/L)	13.27238	15.30
1/18/2022 11:51:27	CRI-5	Co (230.786 nm)	70.13	0.00120 (mg/L)	5.32617	41.22
1/18/2022 11:51:27	CRI-5	Cr (267.716 nm)	11.28	0.00200 (mg/L)	30.44865	7.80
1/18/2022 11:51:27	CRI-5	Cu (327.395 nm)	5.84	0.00217 (mg/L)	31.16598	4.92
1/18/2022 11:51:27	CRI-5	Fe (238.204 nm)	0.61	0.03669 (mg/L)	383.49289	0.53
1/18/2022 11:51:27	CRI-5	K (766.491 nm)	26.98	0.10111 (mg/L)	205.07971	15.10
1/18/2022 11:51:27	CRI-5	Mg (279.800 nm)	7.55	0.02514 (mg/L)	21.19459	5.78
1/18/2022 11:51:27	CRI-5	Mn (257.610 nm)	4.27	0.00140 (mg/L)	128.57007	3.62
1/18/2022 11:51:27	CRI-5	Mo (204.598 nm)	2.71	0.00831 (mg/L)	7.84504	2.15
1/18/2022 11:51:27	CRI-5	Na (589.592 nm)	0.83	0.23605 (mg/L)	1188.92463	0.88
1/18/2022 11:51:27	CRI-5	Ni (221.648 nm)	> 100.00	0.00277 (mg/L)	3.92560	36.17
1/18/2022 11:51:27	CRI-5	P (213.618 nm)	34.98	0.00903 (mg/L)	5.00498	21.39
1/18/2022 11:51:27	CRI-5	Pb (220.353 nm)	> 100.00	0.00099 u (mg/L)	-1.23847	49.97
1/18/2022 11:51:27	CRI-5	S (181.972 nm)	53.23	0.04058 (mg/L)	2.11725	29.11
1/18/2022 11:51:27	CRI-5	Sb (217.582 nm)	27.69	0.00818 (mg/L)	1.27095	51.26
1/18/2022 11:51:27	CRI-5	Se (196.026 nm)	55.42	0.01292 (mg/L)	4.83492	22.13
1/18/2022 11:51:27	CRI-5	Sn (189.925 nm)	> 100.00	0.00629 u (mg/L)	2.82031	51.45
1/18/2022 11:51:27	CRI-5	Sr (407.771 nm)	1.20	0.00944 (mg/L)	15070.48889	1.17
1/18/2022 11:51:27	CRI-5	Ti (337.280 nm)	4.44	0.00810 (mg/L)	132.37388	4.07
1/18/2022 11:51:27	CRI-5	Tl (351.923 nm)	> 100.00	-0.00333 u (mg/L)	-28.12641	18.55
1/18/2022 11:51:27	CRI-5	V (311.837 nm)	28.06	0.00110 (mg/L)	22.20466	22.72
1/18/2022 11:51:27	CRI-5	Zn (206.200 nm)	2.79	0.03676 (mg/L)	24.51235	2.21
1/18/2022 11:55:18	CRI-MID LEVEL	Ag (328.068 nm)	0.44	0.10169 (mg/L)	1773.12069	0.44
1/18/2022 11:55:18	CRI-MID LEVEL	Al (308.215 nm)	0.26	10.23760 (mg/L)	20148.92816	0.26
1/18/2022 11:55:18	CRI-MID LEVEL	As (193.696 nm)	0.75	1.01759 (mg/L)	174.91180	0.74
1/18/2022 11:55:18	CRI-MID LEVEL	B (249.772 nm)	0.30	1.01280 (mg/L)	8203.23097	0.30
1/18/2022 11:55:18	CRI-MID LEVEL	Ba (413.064 nm)	0.10	1.03591 (mg/L)	5995.66712	0.10
1/18/2022 11:55:18	CRI-MID LEVEL	Be (313.042 nm)	0.60	1.02787 (mg/L)	744253.11045	0.60
1/18/2022 11:55:18	CRI-MID LEVEL	Ca (373.690 nm)	0.38	10.37204 (mg/L)	24313.12975	0.38
1/18/2022 11:55:18	CRI-MID LEVEL	Cd (228.802 nm)	0.30	1.01560 (mg/L)	6226.85792	0.30
1/18/2022 11:55:18	CRI-MID LEVEL	Co (230.786 nm)	0.31	1.03911 (mg/L)	2708.20601	0.31
1/18/2022 11:55:18	CRI-MID LEVEL	Cr (267.716 nm)	0.39	1.03577 (mg/L)	10942.49017	0.39

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 11:55:18	CRI-MID LEVEL	Cu (327.395 nm)	0.31	1.00110 (mg/L)	12094.77778	0.31
1/18/2022 11:55:18	CRI-MID LEVEL	Fe (238.204 nm)	0.37	10.39746 (mg/L)	94187.20766	0.37
1/18/2022 11:55:18	CRI-MID LEVEL	K (766.491 nm)	0.27	10.05194 (mg/L)	11501.74146	0.27
1/18/2022 11:55:18	CRI-MID LEVEL	Mg (279.800 nm)	0.19	10.30815 (mg/L)	6653.82832	0.19
1/18/2022 11:55:18	CRI-MID LEVEL	Mn (257.610 nm)	0.31	1.03634 (mg/L)	80433.91333	0.31
1/18/2022 11:55:18	CRI-MID LEVEL	Mo (204.598 nm)	0.56	1.02524 (mg/L)	770.33938	0.55
1/18/2022 11:55:18	CRI-MID LEVEL	Na (589.592 nm)	0.26	10.47042 (mg/L)	55921.23171	0.26
1/18/2022 11:55:18	CRI-MID LEVEL	Ni (221.648 nm)	0.81	1.05142 (mg/L)	519.87084	0.81
1/18/2022 11:55:18	CRI-MID LEVEL	P (213.618 nm)	0.17	1.03858 (mg/L)	353.86570	0.17
1/18/2022 11:55:18	CRI-MID LEVEL	Pb (220.353 nm)	0.06	1.04765 (mg/L)	355.27690	0.06
1/18/2022 11:55:18	CRI-MID LEVEL	S (181.972 nm)	5.80	1.07045 (mg/L)	31.49652	5.62
1/18/2022 11:55:18	CRI-MID LEVEL	Sb (217.582 nm)	0.42	1.01946 (mg/L)	292.28153	0.42
1/18/2022 11:55:18	CRI-MID LEVEL	Se (196.026 nm)	0.79	1.03546 (mg/L)	157.68489	0.77
1/18/2022 11:55:18	CRI-MID LEVEL	Sn (189.925 nm)	1.07	1.05259 (mg/L)	182.46906	1.06
1/18/2022 11:55:18	CRI-MID LEVEL	Sr (407.771 nm)	0.29	1.05269 (mg/L)	1647835.93319	0.29
1/18/2022 11:55:18	CRI-MID LEVEL	Ti (337.280 nm)	0.30	1.01961 (mg/L)	15282.49818	0.30
1/18/2022 11:55:18	CRI-MID LEVEL	Tl (351.923 nm)	4.46	1.00970 (mg/L)	424.71916	4.74
1/18/2022 11:55:18	CRI-MID LEVEL	V (311.837 nm)	0.35	1.02186 (mg/L)	16776.62713	0.35
1/18/2022 11:55:18	CRI-MID LEVEL	Zn (206.200 nm)	0.53	1.05329 (mg/L)	561.03669	0.52
1/18/2022 11:58:22	LCR 1	Ag (328.068 nm)	0.44	1.48491 (mg/L)	25881.16419	0.44
1/18/2022 11:58:22	LCR 1	Al (308.215 nm)	0.44	206.37018 (mg/L)	399816.27814	0.44
1/18/2022 11:58:22	LCR 1	As (193.696 nm)	0.50	19.50192 (mg/L)	3286.60161	0.50
1/18/2022 11:58:22	LCR 1	B (249.772 nm)	0.90	0.07564 (mg/L)	643.63576	0.85
1/18/2022 11:58:22	LCR 1	Ba (413.064 nm)	0.32	18.41563 (mg/L)	105698.81837	0.32
1/18/2022 11:58:22	LCR 1	Be (313.042 nm)	0.69	16.87370 o (mg/L)	12221582.38638	0.69
1/18/2022 11:58:22	LCR 1	Ca (373.690 nm)	0.40	190.83092 o (mg/L)	448716.01143	0.40
1/18/2022 11:58:22	LCR 1	Cd (228.802 nm)	0.39	19.19242 (mg/L)	117513.69612	0.39
1/18/2022 11:58:22	LCR 1	Co (230.786 nm)	0.33	18.25780 (mg/L)	47548.55736	0.33
1/18/2022 11:58:22	LCR 1	Cr (267.716 nm)	0.35	18.51250 (mg/L)	195417.66875	0.35
1/18/2022 11:58:22	LCR 1	Cu (327.395 nm)	0.37	20.34633 (mg/L)	245719.69062	0.37
1/18/2022 11:58:22	LCR 1	Fe (238.204 nm)	0.43	158.79095 o (mg/L)	1437703.08639	0.43
1/18/2022 11:58:22	LCR 1	K (766.491 nm)	0.21	208.74573 o (mg/L)	237068.49463	0.21
1/18/2022 11:58:22	LCR 1	Mg (279.800 nm)	0.46	193.53576 o (mg/L)	124837.21195	0.46
1/18/2022 11:58:22	LCR 1	Mn (257.610 nm)	0.55	18.13319 (mg/L)	1407053.35896	0.55
1/18/2022 11:58:22	LCR 1	Mo (204.598 nm)	0.35	18.96901 (mg/L)	14224.67255	0.35
1/18/2022 11:58:22	LCR 1	Na (589.592 nm)	0.46	197.11951 (mg/L)	1054100.49240	0.46
1/18/2022 11:58:22	LCR 1	Ni (221.648 nm)	0.34	18.15565 (mg/L)	8935.31993	0.34
1/18/2022 11:58:22	LCR 1	P (213.618 nm)	2.75	0.19187 (mg/L)	66.95917	2.67
1/18/2022 11:58:22	LCR 1	Pb (220.353 nm)	0.29	18.52424 (mg/L)	6308.20303	0.29
1/18/2022 11:58:22	LCR 1	S (181.972 nm)	> 100.00	0.00790 u (mg/L)	1.18484	66.37
1/18/2022 11:58:22	LCR 1	Sb (217.582 nm)	0.25	19.61428 (mg/L)	5643.20752	0.25
1/18/2022 11:58:22	LCR 1	Se (196.026 nm)	0.31	19.41374 (mg/L)	2904.88036	0.31
1/18/2022 11:58:22	LCR 1	Sn (189.925 nm)	0.36	19.06451 (mg/L)	3275.10941	0.36
1/18/2022 11:58:22	LCR 1	Sr (407.771 nm)	0.67	-0.00034 u (mg/L)	-230.79320	1.54
1/18/2022 11:58:22	LCR 1	Ti (337.280 nm)	0.42	18.76520 (mg/L)	281070.89088	0.42
1/18/2022 11:58:22	LCR 1	Tl (351.923 nm)	1.39	21.52069 (mg/L)	9593.54083	1.40
1/18/2022 11:58:22	LCR 1	V (311.837 nm)	0.51	19.21999 (mg/L)	315474.96334	0.50
1/18/2022 11:58:22	LCR 1	Zn (206.200 nm)	0.33	18.05080 (mg/L)	9532.35354	0.33

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 12:01:27	LCR 2	Ag (328.068 nm)	0.46	1.01871 (mg/L)	17755.80016	0.46
1/18/2022 12:01:27	LCR 2	Al (308.215 nm)	0.47	106.01159 (mg/L)	205545.23393	0.47
1/18/2022 12:01:27	LCR 2	As (193.696 nm)	0.16	10.18814 (mg/L)	1718.70066	0.16
1/18/2022 12:01:27	LCR 2	B (249.772 nm)	2.28	0.02647 (mg/L)	247.01916	1.97
1/18/2022 12:01:27	LCR 2	Ba (413.064 nm)	0.38	9.83330 (mg/L)	56464.14165	0.38
1/18/2022 12:01:27	LCR 2	Be (313.042 nm)	0.62	9.50158 (mg/L)	6881867.19285	0.62
1/18/2022 12:01:27	LCR 2	Ca (373.690 nm)	0.31	100.48665 o (mg/L)	236244.52431	0.31
1/18/2022 12:01:27	LCR 2	Cd (228.802 nm)	0.48	10.12689 (mg/L)	62010.37425	0.48
1/18/2022 12:01:27	LCR 2	Co (230.786 nm)	0.34	9.76583 (mg/L)	25434.03941	0.34
1/18/2022 12:01:27	LCR 2	Cr (267.716 nm)	0.50	9.82673 (mg/L)	103735.24237	0.50
1/18/2022 12:01:27	LCR 2	Cu (327.395 nm)	0.43	10.32831 (mg/L)	124735.98269	0.43
1/18/2022 12:01:27	LCR 2	Fe (238.204 nm)	0.38	91.07328 (mg/L)	824604.98921	0.38
1/18/2022 12:01:27	LCR 2	K (766.491 nm)	0.50	106.16688 (mg/L)	120616.04374	0.50
1/18/2022 12:01:27	LCR 2	Mg (279.800 nm)	0.39	101.37850 o (mg/L)	65394.98182	0.39
1/18/2022 12:01:27	LCR 2	Mn (257.610 nm)	0.52	9.70925 (mg/L)	753403.26541	0.52
1/18/2022 12:01:27	LCR 2	Mo (204.598 nm)	0.43	9.94578 (mg/L)	7459.01153	0.43
1/18/2022 12:01:27	LCR 2	Na (589.592 nm)	0.14	101.62338 (mg/L)	543397.45781	0.14
1/18/2022 12:01:27	LCR 2	Ni (221.648 nm)	0.28	9.78136 (mg/L)	4815.08930	0.28
1/18/2022 12:01:27	LCR 2	P (213.618 nm)	10.99	0.11554 (mg/L)	41.09574	10.47
1/18/2022 12:01:27	LCR 2	Pb (220.353 nm)	0.32	9.91985 (mg/L)	3377.34997	0.32
1/18/2022 12:01:27	LCR 2	S (181.972 nm)	> 100.00	0.00084 u (mg/L)	0.98344	> 100.00
1/18/2022 12:01:27	LCR 2	Sb (217.582 nm)	0.20	10.05746 (mg/L)	2893.09708	0.20
1/18/2022 12:01:27	LCR 2	Se (196.026 nm)	0.74	10.24038 (mg/L)	1533.64199	0.74
1/18/2022 12:01:27	LCR 2	Sn (189.925 nm)	0.29	10.05904 (mg/L)	1728.87405	0.29
1/18/2022 12:01:27	LCR 2	Sr (407.771 nm)	0.31	-0.00074 u (mg/L)	-849.49715	0.41
1/18/2022 12:01:27	LCR 2	Ti (337.280 nm)	0.36	9.81122 (mg/L)	146960.68200	0.36
1/18/2022 12:01:27	LCR 2	Tl (351.923 nm)	2.19	10.79471 (mg/L)	4798.81265	2.20
1/18/2022 12:01:27	LCR 2	V (311.837 nm)	0.37	10.03922 (mg/L)	164784.82282	0.37
1/18/2022 12:01:27	LCR 2	Zn (206.200 nm)	0.30	9.83933 (mg/L)	5198.32553	0.29
1/18/2022 12:04:32	LCR 3	Ag (328.068 nm)	0.51	0.51456 (mg/L)	8969.00172	0.51
1/18/2022 12:04:32	LCR 3	Al (308.215 nm)	0.44	50.87022 (mg/L)	98804.28222	0.44
1/18/2022 12:04:32	LCR 3	As (193.696 nm)	0.17	4.98359 (mg/L)	842.55521	0.17
1/18/2022 12:04:32	LCR 3	B (249.772 nm)	0.55	0.01718 (mg/L)	172.14199	0.45
1/18/2022 12:04:32	LCR 3	Ba (413.064 nm)	0.32	4.89467 (mg/L)	28132.43993	0.32
1/18/2022 12:04:32	LCR 3	Be (313.042 nm)	0.41	4.87241 (mg/L)	3528901.37405	0.41
1/18/2022 12:04:32	LCR 3	Ca (373.690 nm)	0.44	49.55339 (mg/L)	116459.75866	0.44
1/18/2022 12:04:32	LCR 3	Cd (228.802 nm)	0.45	4.95137 (mg/L)	30323.46653	0.45
1/18/2022 12:04:32	LCR 3	Co (230.786 nm)	0.43	4.86231 (mg/L)	12664.46044	0.43
1/18/2022 12:04:32	LCR 3	Cr (267.716 nm)	0.53	4.89061 (mg/L)	51632.07694	0.53
1/18/2022 12:04:32	LCR 3	Cu (327.395 nm)	0.22	4.97640 (mg/L)	60103.04327	0.22
1/18/2022 12:04:32	LCR 3	Fe (238.204 nm)	0.45	47.60492 (mg/L)	431053.86647	0.45
1/18/2022 12:04:32	LCR 3	K (766.491 nm)	0.23	50.64953 (mg/L)	57590.08369	0.23
1/18/2022 12:04:32	LCR 3	Mg (279.800 nm)	0.36	49.35167 (mg/L)	31837.23353	0.36
1/18/2022 12:04:32	LCR 3	Mn (257.610 nm)	0.48	4.88238 (mg/L)	378864.61673	0.48
1/18/2022 12:04:32	LCR 3	Mo (204.598 nm)	0.73	4.94797 (mg/L)	3711.62199	0.73
1/18/2022 12:04:32	LCR 3	Na (589.592 nm)	0.21	49.32658 (mg/L)	263719.82290	0.21
1/18/2022 12:04:32	LCR 3	Ni (221.648 nm)	0.36	4.89305 (mg/L)	2409.99254	0.36
1/18/2022 12:04:32	LCR 3	P (213.618 nm)	16.67	0.04881 (mg/L)	18.48232	14.92

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 12:04:32	LCR 3	Pb (220.353 nm)	0.38	4.92035 (mg/L)	1674.40771	0.38
1/18/2022 12:04:32	LCR 3	S (181.972 nm)	> 100.00	0.01739 u (mg/L)	1.45566	57.49
1/18/2022 12:04:32	LCR 3	Sb (217.582 nm)	0.52	4.91692 (mg/L)	1413.83305	0.52
1/18/2022 12:04:32	LCR 3	Se (196.026 nm)	0.96	4.93336 (mg/L)	740.34503	0.96
1/18/2022 12:04:32	LCR 3	Sn (189.925 nm)	0.30	4.96569 (mg/L)	854.34775	0.30
1/18/2022 12:04:32	LCR 3	Sr (407.771 nm)	0.32	-0.00061 u (mg/L)	-658.02805	0.47
1/18/2022 12:04:32	LCR 3	Ti (337.280 nm)	0.38	4.89479 (mg/L)	73323.89628	0.38
1/18/2022 12:04:32	LCR 3	Tl (351.923 nm)	2.91	5.10588 (mg/L)	2255.79399	2.94
1/18/2022 12:04:32	LCR 3	V (311.837 nm)	0.43	4.93408 (mg/L)	80990.57355	0.43
1/18/2022 12:04:32	LCR 3	Zn (206.200 nm)	0.40	4.94018 (mg/L)	2612.54587	0.40
1/18/2022 12:07:37	LCR-Pb-Inhouse	Ag (328.068 nm)	30.34	0.00030 (mg/L)	5.91281	26.49
1/18/2022 12:07:37	LCR-Pb-Inhouse	Al (308.215 nm)	7.89	-0.03582 u (mg/L)	261.96152	2.09
1/18/2022 12:07:37	LCR-Pb-Inhouse	As (193.696 nm)	48.12	0.01160 (mg/L)	5.56139	16.90
1/18/2022 12:07:37	LCR-Pb-Inhouse	B (249.772 nm)	0.26	94.95078 o (mg/L)	765949.56318	0.26
1/18/2022 12:07:37	LCR-Pb-Inhouse	Ba (413.064 nm)	18.51	0.00143 (mg/L)	61.11389	2.48
1/18/2022 12:07:37	LCR-Pb-Inhouse	Be (313.042 nm)	2.20	0.00067 (mg/L)	239.02603	4.44
1/18/2022 12:07:37	LCR-Pb-Inhouse	Ca (373.690 nm)	5.69	0.04195 (mg/L)	18.86387	29.75
1/18/2022 12:07:37	LCR-Pb-Inhouse	Cd (228.802 nm)	> 100.00	0.00014 (mg/L)	9.73033	13.30
1/18/2022 12:07:37	LCR-Pb-Inhouse	Co (230.786 nm)	> 100.00	-0.00024 u (mg/L)	1.56430	58.68
1/18/2022 12:07:37	LCR-Pb-Inhouse	Cr (267.716 nm)	6.28	0.00260 (mg/L)	36.80166	4.68
1/18/2022 12:07:37	LCR-Pb-Inhouse	Cu (327.395 nm)	> 100.00	0.00039 u (mg/L)	9.66068	51.91
1/18/2022 12:07:37	LCR-Pb-Inhouse	Fe (238.204 nm)	0.83	0.02443 (mg/L)	272.48792	0.67
1/18/2022 12:07:37	LCR-Pb-Inhouse	K (766.491 nm)	73.07	0.05428 (mg/L)	151.92010	29.64
1/18/2022 12:07:37	LCR-Pb-Inhouse	Mg (279.800 nm)	> 100.00	0.00009 u (mg/L)	5.03645	4.89
1/18/2022 12:07:37	LCR-Pb-Inhouse	Mn (257.610 nm)	4.91	0.00063 (mg/L)	68.42569	3.49
1/18/2022 12:07:37	LCR-Pb-Inhouse	Mo (204.598 nm)	32.26	0.00552 (mg/L)	5.75040	23.21
1/18/2022 12:07:37	LCR-Pb-Inhouse	Na (589.592 nm)	4.01	0.06257 (mg/L)	261.18188	5.13
1/18/2022 12:07:37	LCR-Pb-Inhouse	Ni (221.648 nm)	> 100.00	0.00156 u (mg/L)	3.33052	30.58
1/18/2022 12:07:37	LCR-Pb-Inhouse	P (213.618 nm)	0.38	98.82923 o (mg/L)	33490.10744	0.38
1/18/2022 12:07:37	LCR-Pb-Inhouse	Pb (220.353 nm)	0.30	216.21096 o (mg/L)	73644.81745	0.30
1/18/2022 12:07:37	LCR-Pb-Inhouse	S (181.972 nm)	0.55	101.64469 o (mg/L)	2900.59337	0.55
1/18/2022 12:07:37	LCR-Pb-Inhouse	Sb (217.582 nm)	22.14	0.05718 (mg/L)	15.37205	23.70
1/18/2022 12:07:37	LCR-Pb-Inhouse	Se (196.026 nm)	86.24	0.01543 (mg/L)	5.21088	38.17
1/18/2022 12:07:37	LCR-Pb-Inhouse	Sn (189.925 nm)	> 100.00	0.00005 u (mg/L)	1.74856	59.05
1/18/2022 12:07:37	LCR-Pb-Inhouse	Sr (407.771 nm)	1.04	9.30849 (mg/L)	14568777.83568	1.04
1/18/2022 12:07:37	LCR-Pb-Inhouse	Ti (337.280 nm)	51.14	0.00158 (mg/L)	34.71830	34.86
1/18/2022 12:07:37	LCR-Pb-Inhouse	Tl (351.923 nm)	81.20	0.00780 (mg/L)	-23.15233	12.22
1/18/2022 12:07:37	LCR-Pb-Inhouse	V (311.837 nm)	> 100.00	0.00012 u (mg/L)	6.26675	74.75
1/18/2022 12:07:37	LCR-Pb-Inhouse	Zn (206.200 nm)	7.59	0.01146 (mg/L)	11.15882	4.12
1/18/2022 12:19:36	MB-329049	Ag (328.068 nm)	61.24	-0.00009 u (mg/L)	-0.73292	> 100.00
1/18/2022 12:19:36	MB-329049	Al (308.215 nm)	0.83	-0.03525 u (mg/L)	263.06825	0.21
1/18/2022 12:19:36	MB-329049	As (193.696 nm)	> 100.00	-0.00162 u (mg/L)	3.33605	47.96
1/18/2022 12:19:36	MB-329049	B (249.772 nm)	2.31	0.01284 (mg/L)	137.09039	1.75
1/18/2022 12:19:36	MB-329049	Ba (413.064 nm)	> 100.00	-0.00032 u (mg/L)	51.10703	10.56
1/18/2022 12:19:36	MB-329049	Be (313.042 nm)	> 100.00	0.00000 u (mg/L)	-244.19492	4.47
1/18/2022 12:19:36	MB-329049	Ca (373.690 nm)	3.26	0.02771 (mg/L)	-14.63915	14.53
1/18/2022 12:19:36	MB-329049	Cd (228.802 nm)	> 100.00	-0.00037 u (mg/L)	6.63315	40.37
1/18/2022 12:19:36	MB-329049	Co (230.786 nm)	> 100.00	0.00018 u (mg/L)	2.67291	48.01

220118AREP.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 12:19:36	MB-329049	Cr (267.716 nm)	47.49	0.00026 (mg/L)	12.12800	10.73
1/18/2022 12:19:36	MB-329049	Cu (327.395 nm)	> 100.00	-0.00004 u (mg/L)	4.43436	43.61
1/18/2022 12:19:36	MB-329049	Fe (238.204 nm)	18.32	-0.00045 u (mg/L)	47.24082	1.58
1/18/2022 12:19:36	MB-329049	K (766.491 nm)	> 100.00	0.02511 (mg/L)	118.79898	28.14
1/18/2022 12:19:36	MB-329049	Mg (279.800 nm)	> 100.00	0.00001 u (mg/L)	4.98368	44.71
1/18/2022 12:19:36	MB-329049	Mn (257.610 nm)	> 100.00	0.00004 u (mg/L)	22.65877	22.44
1/18/2022 12:19:36	MB-329049	Mo (204.598 nm)	80.07	-0.00101 u (mg/L)	0.85880	70.32
1/18/2022 12:19:36	MB-329049	Na (589.592 nm)	5.41	0.09025 (mg/L)	409.24915	6.38
1/18/2022 12:19:36	MB-329049	Ni (221.648 nm)	> 100.00	0.00106 u (mg/L)	3.08320	39.54
1/18/2022 12:19:36	MB-329049	P (213.618 nm)	> 100.00	-0.00014 u (mg/L)	1.89882	10.83
1/18/2022 12:19:36	MB-329049	Pb (220.353 nm)	91.11	0.00354 (mg/L)	-0.37025	> 100.00
1/18/2022 12:19:36	MB-329049	S (181.972 nm)	> 100.00	0.00891 u (mg/L)	1.21373	48.98
1/18/2022 12:19:36	MB-329049	Sb (217.582 nm)	> 100.00	0.00507 u (mg/L)	0.37820	> 100.00
1/18/2022 12:19:36	MB-329049	Se (196.026 nm)	> 100.00	-0.00129 u (mg/L)	2.71192	42.43
1/18/2022 12:19:36	MB-329049	Sn (189.925 nm)	29.61	-0.00591 u (mg/L)	0.72569	41.39
1/18/2022 12:19:36	MB-329049	Sr (407.771 nm)	> 100.00	0.00001 u (mg/L)	318.19529	8.70
1/18/2022 12:19:36	MB-329049	Ti (337.280 nm)	22.43	0.00040 (mg/L)	17.00458	7.86
1/18/2022 12:19:36	MB-329049	Tl (351.923 nm)	> 100.00	-0.00216 u (mg/L)	-27.60459	9.77
1/18/2022 12:19:36	MB-329049	V (311.837 nm)	> 100.00	-0.00002 u (mg/L)	3.93373	35.75
1/18/2022 12:19:36	MB-329049	Zn (206.200 nm)	10.81	-0.00484 u (mg/L)	2.55138	10.83
1/18/2022 12:22:42	LCS-329049	Ag (328.068 nm)	0.31	0.09997 (mg/L)	1743.09449	0.31
1/18/2022 12:22:42	LCS-329049	Al (308.215 nm)	0.30	10.09020 (mg/L)	19863.59562	0.29
1/18/2022 12:22:42	LCS-329049	As (193.696 nm)	0.70	1.02246 (mg/L)	175.73087	0.68
1/18/2022 12:22:42	LCS-329049	B (249.772 nm)	0.05	1.00530 (mg/L)	8142.72040	0.04
1/18/2022 12:22:42	LCS-329049	Ba (413.064 nm)	0.25	1.02151 (mg/L)	5913.07051	0.25
1/18/2022 12:22:42	LCS-329049	Be (313.042 nm)	0.27	1.02047 (mg/L)	738898.09244	0.27
1/18/2022 12:22:42	LCS-329049	Ca (373.690 nm)	0.11	10.21505 (mg/L)	23943.93462	0.11
1/18/2022 12:22:42	LCS-329049	Cd (228.802 nm)	0.26	1.00530 (mg/L)	6163.81688	0.26
1/18/2022 12:22:42	LCS-329049	Co (230.786 nm)	0.09	1.02986 (mg/L)	2684.11215	0.09
1/18/2022 12:22:42	LCS-329049	Cr (267.716 nm)	0.12	1.01573 (mg/L)	10730.95552	0.12
1/18/2022 12:22:42	LCS-329049	Cu (327.395 nm)	0.59	0.99314 (mg/L)	11998.73290	0.59
1/18/2022 12:22:42	LCS-329049	Fe (238.204 nm)	0.18	10.24674 (mg/L)	92822.57976	0.18
1/18/2022 12:22:42	LCS-329049	K (766.491 nm)	0.22	9.94917 (mg/L)	11385.07581	0.22
1/18/2022 12:22:42	LCS-329049	Mg (279.800 nm)	0.11	10.16838 (mg/L)	6563.67082	0.11
1/18/2022 12:22:42	LCS-329049	Mn (257.610 nm)	0.10	1.02285 (mg/L)	79387.30325	0.10
1/18/2022 12:22:42	LCS-329049	Mo (204.598 nm)	0.81	1.01472 (mg/L)	762.45344	0.80
1/18/2022 12:22:42	LCS-329049	Na (589.592 nm)	0.11	9.94701 (mg/L)	53122.12620	0.11
1/18/2022 12:22:42	LCS-329049	Ni (221.648 nm)	0.30	1.03814 (mg/L)	513.33629	0.30
1/18/2022 12:22:42	LCS-329049	P (213.618 nm)	0.58	0.99516 (mg/L)	339.15257	0.58
1/18/2022 12:22:42	LCS-329049	Pb (220.353 nm)	0.59	1.03316 (mg/L)	350.34036	0.59
1/18/2022 12:22:42	LCS-329049	S (181.972 nm)	2.28	1.05599 (mg/L)	31.08393	2.21
1/18/2022 12:22:42	LCS-329049	Sb (217.582 nm)	0.64	1.00293 (mg/L)	287.52468	0.64
1/18/2022 12:22:42	LCS-329049	Se (196.026 nm)	0.41	1.01995 (mg/L)	155.36766	0.40
1/18/2022 12:22:42	LCS-329049	Sn (189.925 nm)	0.69	1.02602 (mg/L)	177.90741	0.69
1/18/2022 12:22:42	LCS-329049	Sr (407.771 nm)	0.02	1.02422 (mg/L)	1603289.42166	0.02
1/18/2022 12:22:42	LCS-329049	Ti (337.280 nm)	0.24	1.00521 (mg/L)	15066.80027	0.24
1/18/2022 12:22:42	LCS-329049	Tl (351.923 nm)	2.54	1.00335 (mg/L)	421.87803	2.70
1/18/2022 12:22:42	LCS-329049	V (311.837 nm)	0.12	1.00852 (mg/L)	16557.69928	0.12

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 12:22:42	LCS-329049	Zn (206.200 nm)	0.80	1.02253 (mg/L)	544.80255	0.80
1/18/2022 12:25:48	2201B31-001B	Ag (328.068 nm)	50.54	0.00018 (mg/L)	3.91125	40.85
1/18/2022 12:25:48	2201B31-001B	Al (308.215 nm)	0.45	0.07044 (mg/L)	467.66130	0.13
1/18/2022 12:25:48	2201B31-001B	As (193.696 nm)	> 100.00	0.00086 u (mg/L)	3.75306	61.64
1/18/2022 12:25:48	2201B31-001B	B (249.772 nm)	2.58	0.01878 (mg/L)	184.98485	2.11
1/18/2022 12:25:48	2201B31-001B	Ba (413.064 nm)	3.04	0.02343 (mg/L)	187.33025	2.18
1/18/2022 12:25:48	2201B31-001B	Be (313.042 nm)	1.86	0.00084 (mg/L)	364.36332	3.10
1/18/2022 12:25:48	2201B31-001B	Ca (373.690 nm)	0.38	2.46382 (mg/L)	5714.60534	0.38
1/18/2022 12:25:48	2201B31-001B	Cd (228.802 nm)	99.22	0.00018 u (mg/L)	9.98303	10.98
1/18/2022 12:25:48	2201B31-001B	Co (230.786 nm)	> 100.00	0.00012 u (mg/L)	2.51659	66.83
1/18/2022 12:25:48	2201B31-001B	Cr (267.716 nm)	> 100.00	0.00047 u (mg/L)	14.32505	34.87
1/18/2022 12:25:48	2201B31-001B	Cu (327.395 nm)	78.94	0.00042 (mg/L)	10.01586	40.05
1/18/2022 12:25:48	2201B31-001B	Fe (238.204 nm)	0.40	0.91131 (mg/L)	8302.11412	0.40
1/18/2022 12:25:48	2201B31-001B	K (766.491 nm)	0.49	2.70603 (mg/L)	3162.31089	0.48
1/18/2022 12:25:48	2201B31-001B	Mg (279.800 nm)	0.45	1.30009 (mg/L)	843.55011	0.45
1/18/2022 12:25:48	2201B31-001B	Mn (257.610 nm)	0.21	0.12013 (mg/L)	9340.94835	0.21
1/18/2022 12:25:48	2201B31-001B	Mo (204.598 nm)	59.16	0.00276 (mg/L)	3.68018	33.23
1/18/2022 12:25:48	2201B31-001B	Na (589.592 nm)	0.07	2.62672 (mg/L)	13973.98927	0.07
1/18/2022 12:25:48	2201B31-001B	Ni (221.648 nm)	> 100.00	0.00060 u (mg/L)	2.85758	24.29
1/18/2022 12:25:48	2201B31-001B	P (213.618 nm)	19.23	0.02274 (mg/L)	9.65065	15.36
1/18/2022 12:25:48	2201B31-001B	Pb (220.353 nm)	> 100.00	0.00290 u (mg/L)	-0.58763	> 100.00
1/18/2022 12:25:48	2201B31-001B	S (181.972 nm)	6.78	0.63635 (mg/L)	19.11298	6.44
1/18/2022 12:25:48	2201B31-001B	Sb (217.582 nm)	> 100.00	0.00545 (mg/L)	0.48756	> 100.00
1/18/2022 12:25:48	2201B31-001B	Se (196.026 nm)	23.83	0.01177 (mg/L)	4.66355	8.99
1/18/2022 12:25:48	2201B31-001B	Sn (189.925 nm)	96.24	-0.00259 u (mg/L)	1.29474	33.10
1/18/2022 12:25:48	2201B31-001B	Sr (407.771 nm)	0.39	0.02438 (mg/L)	38464.77044	0.39
1/18/2022 12:25:48	2201B31-001B	Ti (337.280 nm)	5.10	0.00415 (mg/L)	73.25093	4.33
1/18/2022 12:25:48	2201B31-001B	Tl (351.923 nm)	> 100.00	0.00013 u (mg/L)	-26.57713	9.37
1/18/2022 12:25:48	2201B31-001B	V (311.837 nm)	> 100.00	0.00011 u (mg/L)	5.95353	60.78
1/18/2022 12:25:48	2201B31-001B	Zn (206.200 nm)	53.59	-0.00017 u (mg/L)	5.01901	0.95
1/18/2022 12:28:55	Cont Calib Verif	Ag (328.068 nm)	0.41	0.10142 (mg/L)	1768.35436	0.41
1/18/2022 12:28:55	Cont Calib Verif	Al (308.215 nm)	0.61	10.23509 (mg/L)	20144.06036	0.60
1/18/2022 12:28:55	Cont Calib Verif	As (193.696 nm)	1.94	1.01368 (mg/L)	174.25263	1.90
1/18/2022 12:28:55	Cont Calib Verif	B (249.772 nm)	0.41	1.02103 (mg/L)	8269.58812	0.41
1/18/2022 12:28:55	Cont Calib Verif	Ba (413.064 nm)	0.58	1.03838 (mg/L)	6009.84148	0.57
1/18/2022 12:28:55	Cont Calib Verif	Be (313.042 nm)	0.53	1.03933 (mg/L)	752557.59150	0.53
1/18/2022 12:28:55	Cont Calib Verif	Ca (373.690 nm)	0.38	10.36001 (mg/L)	24284.84870	0.39
1/18/2022 12:28:55	Cont Calib Verif	Cd (228.802 nm)	0.14	1.02069 (mg/L)	6258.00117	0.14
1/18/2022 12:28:55	Cont Calib Verif	Co (230.786 nm)	0.38	1.04059 (mg/L)	2712.07731	0.38
1/18/2022 12:28:55	Cont Calib Verif	Cr (267.716 nm)	0.30	1.04034 (mg/L)	10990.67544	0.30
1/18/2022 12:28:55	Cont Calib Verif	Cu (327.395 nm)	0.51	1.00721 (mg/L)	12168.65580	0.51
1/18/2022 12:28:55	Cont Calib Verif	Fe (238.204 nm)	0.49	10.42653 (mg/L)	94450.40989	0.49
1/18/2022 12:28:55	Cont Calib Verif	K (766.491 nm)	0.29	10.06546 (mg/L)	11517.09725	0.29
1/18/2022 12:28:55	Cont Calib Verif	Mg (279.800 nm)	0.47	10.31871 (mg/L)	6660.63503	0.47
1/18/2022 12:28:55	Cont Calib Verif	Mn (257.610 nm)	0.44	1.03887 (mg/L)	80629.91627	0.44
1/18/2022 12:28:55	Cont Calib Verif	Mo (204.598 nm)	0.59	1.03350 (mg/L)	776.53402	0.59
1/18/2022 12:28:55	Cont Calib Verif	Na (589.592 nm)	0.44	10.07027 (mg/L)	53781.28986	0.44
1/18/2022 12:28:55	Cont Calib Verif	Ni (221.648 nm)	0.47	1.04995 (mg/L)	519.15144	0.47

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 12:28:55	Cont Calib Verif	P (213.618 nm)	0.56	1.02384 (mg/L)	348.87220	0.56
1/18/2022 12:28:55	Cont Calib Verif	Pb (220.353 nm)	0.31	1.06583 (mg/L)	361.47022	0.32
1/18/2022 12:28:55	Cont Calib Verif	S (181.972 nm)	2.44	1.01983 (mg/L)	30.05242	2.37
1/18/2022 12:28:55	Cont Calib Verif	Sb (217.582 nm)	1.31	1.01818 (mg/L)	291.91424	1.31
1/18/2022 12:28:55	Cont Calib Verif	Se (196.026 nm)	0.85	1.01770 (mg/L)	155.03125	0.84
1/18/2022 12:28:55	Cont Calib Verif	Sn (189.925 nm)	0.96	1.04989 (mg/L)	182.00550	0.96
1/18/2022 12:28:55	Cont Calib Verif	Sr (407.771 nm)	0.39	1.05829 (mg/L)	1656610.26714	0.39
1/18/2022 12:28:55	Cont Calib Verif	Ti (337.280 nm)	0.62	1.02021 (mg/L)	15291.48727	0.62
1/18/2022 12:28:55	Cont Calib Verif	Tl (351.923 nm)	3.54	0.98418 (mg/L)	413.31237	3.77
1/18/2022 12:28:55	Cont Calib Verif	V (311.837 nm)	0.32	1.02324 (mg/L)	16799.35269	0.32
1/18/2022 12:28:55	Cont Calib Verif	Zn (206.200 nm)	0.63	1.04260 (mg/L)	555.39230	0.63
1/18/2022 12:32:03	Cont Calib Blank	Ag (328.068 nm)	> 100.00	0.00002 u (mg/L)	1.15288	> 100.00
1/18/2022 12:32:03	Cont Calib Blank	Al (308.215 nm)	28.84	0.00199 (mg/L)	335.14924	0.33
1/18/2022 12:32:03	Cont Calib Blank	As (193.696 nm)	73.37	0.01288 (mg/L)	5.77704	27.55
1/18/2022 12:32:03	Cont Calib Blank	B (249.772 nm)	8.44	0.00494 (mg/L)	73.37871	4.59
1/18/2022 12:32:03	Cont Calib Blank	Ba (413.064 nm)	> 100.00	-0.00058 u (mg/L)	49.61290	9.71
1/18/2022 12:32:03	Cont Calib Blank	Be (313.042 nm)	24.61	0.00003 (mg/L)	-224.17286	2.09
1/18/2022 12:32:03	Cont Calib Blank	Ca (373.690 nm)	3.96	0.03737 (mg/L)	8.08462	43.07
1/18/2022 12:32:03	Cont Calib Blank	Cd (228.802 nm)	30.37	-0.00024 u (mg/L)	7.42763	5.93
1/18/2022 12:32:03	Cont Calib Blank	Co (230.786 nm)	67.37	-0.00081 u (mg/L)	0.08305	> 100.00
1/18/2022 12:32:03	Cont Calib Blank	Cr (267.716 nm)	> 100.00	0.00017 u (mg/L)	11.15750	33.13
1/18/2022 12:32:03	Cont Calib Blank	Cu (327.395 nm)	66.03	0.00035 (mg/L)	9.18954	30.58
1/18/2022 12:32:03	Cont Calib Blank	Fe (238.204 nm)	70.96	0.00056 (mg/L)	56.39664	6.40
1/18/2022 12:32:03	Cont Calib Blank	K (766.491 nm)	44.30	0.02527 (mg/L)	118.98660	10.68
1/18/2022 12:32:03	Cont Calib Blank	Mg (279.800 nm)	> 100.00	0.00275 u (mg/L)	6.75506	28.99
1/18/2022 12:32:03	Cont Calib Blank	Mn (257.610 nm)	33.56	0.00016 (mg/L)	31.83249	12.74
1/18/2022 12:32:03	Cont Calib Blank	Mo (204.598 nm)	41.38	0.00177 (mg/L)	2.94027	18.68
1/18/2022 12:32:03	Cont Calib Blank	Na (589.592 nm)	1.83	0.09093 (mg/L)	412.85516	2.16
1/18/2022 12:32:03	Cont Calib Blank	Ni (221.648 nm)	53.87	-0.00165 u (mg/L)	1.75109	25.00
1/18/2022 12:32:03	Cont Calib Blank	P (213.618 nm)	> 100.00	0.00177 u (mg/L)	2.54452	41.84
1/18/2022 12:32:03	Cont Calib Blank	Pb (220.353 nm)	> 100.00	0.00087 u (mg/L)	-1.28028	> 100.00
1/18/2022 12:32:03	Cont Calib Blank	S (181.972 nm)	> 100.00	-0.01109 u (mg/L)	0.64335	> 100.00
1/18/2022 12:32:03	Cont Calib Blank	Sb (217.582 nm)	48.03	0.00733 (mg/L)	1.02711	98.64
1/18/2022 12:32:03	Cont Calib Blank	Se (196.026 nm)	48.44	0.00622 (mg/L)	3.83422	11.75
1/18/2022 12:32:03	Cont Calib Blank	Sn (189.925 nm)	33.53	-0.00473 u (mg/L)	0.92868	29.30
1/18/2022 12:32:03	Cont Calib Blank	Sr (407.771 nm)	87.57	0.00003 (mg/L)	358.10485	13.38
1/18/2022 12:32:03	Cont Calib Blank	Ti (337.280 nm)	17.16	0.00058 (mg/L)	19.71656	7.54
1/18/2022 12:32:03	Cont Calib Blank	Tl (351.923 nm)	> 100.00	0.00486 u (mg/L)	-24.46672	18.72
1/18/2022 12:32:03	Cont Calib Blank	V (311.837 nm)	85.02	0.00006 (mg/L)	5.16997	15.58
1/18/2022 12:32:03	Cont Calib Blank	Zn (206.200 nm)	32.10	-0.00115 u (mg/L)	4.50098	4.33
1/18/2022 12:35:10	2201B31-001BMS	Ag (328.068 nm)	0.38	0.10183 (mg/L)	1775.50343	0.38
1/18/2022 12:35:10	2201B31-001BMS	Al (308.215 nm)	0.31	10.47288 (mg/L)	20604.37251	0.31
1/18/2022 12:35:10	2201B31-001BMS	As (193.696 nm)	0.78	1.02429 (mg/L)	176.03970	0.76
1/18/2022 12:35:10	2201B31-001BMS	B (249.772 nm)	0.23	1.03483 (mg/L)	8380.96741	0.23
1/18/2022 12:35:10	2201B31-001BMS	Ba (413.064 nm)	0.41	1.07302 (mg/L)	6208.56840	0.41
1/18/2022 12:35:10	2201B31-001BMS	Be (313.042 nm)	0.17	1.03926 (mg/L)	752507.08655	0.17
1/18/2022 12:35:10	2201B31-001BMS	Ca (373.690 nm)	0.19	12.97150 (mg/L)	30426.53401	0.19
1/18/2022 12:35:10	2201B31-001BMS	Cd (228.802 nm)	0.40	1.02828 (mg/L)	6304.45418	0.39

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 12:35:10	2201B31-001BMS	Co (230.786 nm)	0.32	1.05570 (mg/L)	2751.40854	0.32
1/18/2022 12:35:10	2201B31-001BMS	Cr (267.716 nm)	0.35	1.04310 (mg/L)	11019.84572	0.35
1/18/2022 12:35:10	2201B31-001BMS	Cu (327.395 nm)	0.23	1.01867 (mg/L)	12306.99826	0.23
1/18/2022 12:35:10	2201B31-001BMS	Fe (238.204 nm)	0.43	11.40473 (mg/L)	103306.74006	0.43
1/18/2022 12:35:10	2201B31-001BMS	K (766.491 nm)	0.05	13.11493 (mg/L)	14978.99270	0.05
1/18/2022 12:35:10	2201B31-001BMS	Mg (279.800 nm)	0.29	11.70655 (mg/L)	7555.80787	0.29
1/18/2022 12:35:10	2201B31-001BMS	Mn (257.610 nm)	0.25	1.16653 (mg/L)	90536.06151	0.25
1/18/2022 12:35:10	2201B31-001BMS	Mo (204.598 nm)	0.38	1.04179 (mg/L)	782.75351	0.38
1/18/2022 12:35:10	2201B31-001BMS	Na (589.592 nm)	0.14	12.79194 (mg/L)	68336.50478	0.14
1/18/2022 12:35:10	2201B31-001BMS	Ni (221.648 nm)	1.10	1.07197 (mg/L)	529.98502	1.09
1/18/2022 12:35:10	2201B31-001BMS	P (213.618 nm)	1.02	1.05066 (mg/L)	357.95977	1.02
1/18/2022 12:35:10	2201B31-001BMS	Pb (220.353 nm)	0.82	1.06171 (mg/L)	360.06685	0.83
1/18/2022 12:35:10	2201B31-001BMS	S (181.972 nm)	1.97	1.67652 (mg/L)	48.78582	1.94
1/18/2022 12:35:10	2201B31-001BMS	Sb (217.582 nm)	0.87	1.03305 (mg/L)	296.19304	0.87
1/18/2022 12:35:10	2201B31-001BMS	Se (196.026 nm)	1.36	1.05315 (mg/L)	160.32941	1.33
1/18/2022 12:35:10	2201B31-001BMS	Sn (189.925 nm)	0.75	1.05839 (mg/L)	183.46606	0.74
1/18/2022 12:35:10	2201B31-001BMS	Sr (407.771 nm)	0.39	1.07377 (mg/L)	1680838.55244	0.39
1/18/2022 12:35:10	2201B31-001BMS	Ti (337.280 nm)	0.37	1.03669 (mg/L)	15538.22993	0.37
1/18/2022 12:35:10	2201B31-001BMS	Tl (351.923 nm)	3.75	1.04158 (mg/L)	438.96981	3.98
1/18/2022 12:35:10	2201B31-001BMS	V (311.837 nm)	0.31	1.03381 (mg/L)	16972.81958	0.31
1/18/2022 12:35:10	2201B31-001BMS	Zn (206.200 nm)	0.47	1.05343 (mg/L)	561.10918	0.47
1/18/2022 12:38:17	2201B31-001BMSD	Ag (328.068 nm)	0.54	0.10159 (mg/L)	1771.28546	0.54
1/18/2022 12:38:17	2201B31-001BMSD	Al (308.215 nm)	0.55	10.43626 (mg/L)	20533.48549	0.54
1/18/2022 12:38:17	2201B31-001BMSD	As (193.696 nm)	1.58	1.04224 (mg/L)	179.06136	1.55
1/18/2022 12:38:17	2201B31-001BMSD	B (249.772 nm)	0.57	1.02827 (mg/L)	8328.02847	0.56
1/18/2022 12:38:17	2201B31-001BMSD	Ba (413.064 nm)	0.40	1.06843 (mg/L)	6182.21408	0.39
1/18/2022 12:38:17	2201B31-001BMSD	Be (313.042 nm)	0.79	1.04268 (mg/L)	754983.18821	0.79
1/18/2022 12:38:17	2201B31-001BMSD	Ca (373.690 nm)	0.60	12.88178 (mg/L)	30215.53727	0.60
1/18/2022 12:38:17	2201B31-001BMSD	Cd (228.802 nm)	0.51	1.02665 (mg/L)	6294.47504	0.51
1/18/2022 12:38:17	2201B31-001BMSD	Co (230.786 nm)	0.40	1.05195 (mg/L)	2741.65241	0.40
1/18/2022 12:38:17	2201B31-001BMSD	Cr (267.716 nm)	0.61	1.04147 (mg/L)	11002.61634	0.60
1/18/2022 12:38:17	2201B31-001BMSD	Cu (327.395 nm)	0.36	1.02121 (mg/L)	12337.71446	0.36
1/18/2022 12:38:17	2201B31-001BMSD	Fe (238.204 nm)	0.54	11.36685 (mg/L)	102963.82202	0.54
1/18/2022 12:38:17	2201B31-001BMSD	K (766.491 nm)	0.37	13.03329 (mg/L)	14886.31868	0.37
1/18/2022 12:38:17	2201B31-001BMSD	Mg (279.800 nm)	0.26	11.66286 (mg/L)	7527.62641	0.26
1/18/2022 12:38:17	2201B31-001BMSD	Mn (257.610 nm)	0.53	1.16473 (mg/L)	90396.47136	0.53
1/18/2022 12:38:17	2201B31-001BMSD	Mo (204.598 nm)	1.32	1.04148 (mg/L)	782.51881	1.32
1/18/2022 12:38:17	2201B31-001BMSD	Na (589.592 nm)	0.49	13.42479 (mg/L)	71720.93061	0.49
1/18/2022 12:38:17	2201B31-001BMSD	Ni (221.648 nm)	0.31	1.06617 (mg/L)	527.12756	0.31
1/18/2022 12:38:17	2201B31-001BMSD	P (213.618 nm)	1.36	1.03659 (mg/L)	353.19313	1.35
1/18/2022 12:38:17	2201B31-001BMSD	Pb (220.353 nm)	0.43	1.07276 (mg/L)	363.82916	0.44
1/18/2022 12:38:17	2201B31-001BMSD	S (181.972 nm)	2.29	1.63361 (mg/L)	47.56194	2.25
1/18/2022 12:38:17	2201B31-001BMSD	Sb (217.582 nm)	1.02	1.02647 (mg/L)	294.30042	1.03
1/18/2022 12:38:17	2201B31-001BMSD	Se (196.026 nm)	0.96	1.06428 (mg/L)	161.99285	0.95
1/18/2022 12:38:17	2201B31-001BMSD	Sn (189.925 nm)	1.22	1.04795 (mg/L)	181.67309	1.21
1/18/2022 12:38:17	2201B31-001BMSD	Sr (407.771 nm)	0.51	1.07579 (mg/L)	1683993.14254	0.51
1/18/2022 12:38:17	2201B31-001BMSD	Ti (337.280 nm)	0.49	1.03190 (mg/L)	15466.55970	0.49
1/18/2022 12:38:17	2201B31-001BMSD	Tl (351.923 nm)	5.30	1.03299 (mg/L)	435.12852	5.63

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 12:38:17	2201B31-001BMSD	V (311.837 nm)	0.64	1.03122 (mg/L)	16930.27478	0.64
1/18/2022 12:38:17	2201B31-001BMSD	Zn (206.200 nm)	0.49	1.04632 (mg/L)	557.35566	0.48
1/18/2022 12:41:22	2201B31-001BDL	Ag (328.068 nm)	0.99	0.02151 (mg/L)	375.57550	0.98
1/18/2022 12:41:22	2201B31-001BDL	Al (308.215 nm)	0.53	2.22255 (mg/L)	4633.63228	0.49
1/18/2022 12:41:22	2201B31-001BDL	As (193.696 nm)	5.09	0.22757 (mg/L)	41.91820	4.65
1/18/2022 12:41:22	2201B31-001BDL	B (249.772 nm)	0.37	0.22707 (mg/L)	1865.20072	0.37
1/18/2022 12:41:22	2201B31-001BDL	Ba (413.064 nm)	0.59	0.23456 (mg/L)	1398.52807	0.57
1/18/2022 12:41:22	2201B31-001BDL	Be (313.042 nm)	0.13	0.22776 (mg/L)	164725.17311	0.13
1/18/2022 12:41:22	2201B31-001BDL	Ca (373.690 nm)	0.23	2.78205 (mg/L)	6463.01577	0.23
1/18/2022 12:41:22	2201B31-001BDL	Cd (228.802 nm)	0.07	0.22176 (mg/L)	1366.59001	0.07
1/18/2022 12:41:22	2201B31-001BDL	Co (230.786 nm)	1.10	0.23222 (mg/L)	606.94253	1.10
1/18/2022 12:41:22	2201B31-001BDL	Cr (267.716 nm)	0.48	0.22817 (mg/L)	2417.87122	0.48
1/18/2022 12:41:22	2201B31-001BDL	Cu (327.395 nm)	0.21	0.21881 (mg/L)	2647.44738	0.21
1/18/2022 12:41:22	2201B31-001BDL	Fe (238.204 nm)	0.32	2.52727 (mg/L)	22932.55503	0.32
1/18/2022 12:41:22	2201B31-001BDL	K (766.491 nm)	1.03	2.76710 (mg/L)	3231.64347	1.00
1/18/2022 12:41:22	2201B31-001BDL	Mg (279.800 nm)	0.22	2.54866 (mg/L)	1648.88707	0.22
1/18/2022 12:41:22	2201B31-001BDL	Mn (257.610 nm)	0.22	0.25698 (mg/L)	19959.72641	0.22
1/18/2022 12:41:22	2201B31-001BDL	Mo (204.598 nm)	0.80	0.22299 (mg/L)	168.81288	0.79
1/18/2022 12:41:22	2201B31-001BDL	Na (589.592 nm)	0.41	2.79763 (mg/L)	14888.00826	0.42
1/18/2022 12:41:22	2201B31-001BDL	Ni (221.648 nm)	0.79	0.23251 (mg/L)	116.96012	0.78
1/18/2022 12:41:22	2201B31-001BDL	P (213.618 nm)	1.76	0.21490 (mg/L)	74.76169	1.71
1/18/2022 12:41:22	2201B31-001BDL	Pb (220.353 nm)	2.81	0.22867 (mg/L)	76.31513	2.87
1/18/2022 12:41:22	2201B31-001BDL	S (181.972 nm)	17.82	0.35641 (mg/L)	11.12702	16.28
1/18/2022 12:41:22	2201B31-001BDL	Sb (217.582 nm)	0.83	0.22464 (mg/L)	63.56253	0.84
1/18/2022 12:41:22	2201B31-001BDL	Se (196.026 nm)	4.43	0.22543 (mg/L)	36.60200	4.08
1/18/2022 12:41:22	2201B31-001BDL	Sn (189.925 nm)	1.21	0.21806 (mg/L)	39.18170	1.16
1/18/2022 12:41:22	2201B31-001BDL	Sr (407.771 nm)	0.39	0.23689 (mg/L)	371049.04941	0.39
1/18/2022 12:41:22	2201B31-001BDL	Ti (337.280 nm)	0.13	0.22401 (mg/L)	3366.25234	0.13
1/18/2022 12:41:22	2201B31-001BDL	Tl (351.923 nm)	5.04	0.22133 (mg/L)	72.30303	6.89
1/18/2022 12:41:22	2201B31-001BDL	V (311.837 nm)	0.12	0.21959 (mg/L)	3608.56934	0.12
1/18/2022 12:41:22	2201B31-001BDL	Zn (206.200 nm)	0.58	0.22563 (mg/L)	124.19549	0.56
1/18/2022 12:44:26	2201B31-001BPDS	Ag (328.068 nm)	0.19	0.10501 (mg/L)	1830.91718	0.19
1/18/2022 12:44:26	2201B31-001BPDS	Al (308.215 nm)	0.45	10.57745 (mg/L)	20806.79273	0.45
1/18/2022 12:44:26	2201B31-001BPDS	As (193.696 nm)	0.71	1.04723 (mg/L)	179.90167	0.70
1/18/2022 12:44:26	2201B31-001BPDS	B (249.772 nm)	0.36	5.23796 (mg/L)	42285.27631	0.36
1/18/2022 12:44:26	2201B31-001BPDS	Ba (413.064 nm)	0.51	1.07454 (mg/L)	6217.29498	0.51
1/18/2022 12:44:26	2201B31-001BPDS	Be (313.042 nm)	0.41	1.06692 (mg/L)	772543.16680	0.41
1/18/2022 12:44:26	2201B31-001BPDS	Ca (373.690 nm)	0.40	11.88811 (mg/L)	27878.62042	0.41
1/18/2022 12:44:26	2201B31-001BPDS	Cd (228.802 nm)	0.33	1.04592 (mg/L)	6412.49942	0.33
1/18/2022 12:44:26	2201B31-001BPDS	Co (230.786 nm)	0.29	1.07053 (mg/L)	2790.03729	0.29
1/18/2022 12:44:26	2201B31-001BPDS	Cr (267.716 nm)	0.46	1.06222 (mg/L)	11221.65071	0.46
1/18/2022 12:44:26	2201B31-001BPDS	Cu (327.395 nm)	0.45	1.03431 (mg/L)	12495.91366	0.45
1/18/2022 12:44:26	2201B31-001BPDS	Fe (238.204 nm)	0.44	11.26669 (mg/L)	102056.98023	0.44
1/18/2022 12:44:26	2201B31-001BPDS	K (766.491 nm)	0.25	11.74227 (mg/L)	13420.69326	0.25
1/18/2022 12:44:26	2201B31-001BPDS	Mg (279.800 nm)	0.31	11.22957 (mg/L)	7248.15120	0.31
1/18/2022 12:44:26	2201B31-001BPDS	Mn (257.610 nm)	0.43	1.13603 (mg/L)	88169.01334	0.43
1/18/2022 12:44:26	2201B31-001BPDS	Mo (204.598 nm)	0.48	1.04743 (mg/L)	786.98002	0.48
1/18/2022 12:44:26	2201B31-001BPDS	Na (589.592 nm)	0.40	11.74243 (mg/L)	62723.83713	0.40

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 12:44:26	2201B31-001BPDS	Ni (221.648 nm)	0.27	1.08552 (mg/L)	536.65243	0.27
1/18/2022 12:44:26	2201B31-001BPDS	P (213.618 nm)	0.39	10.70744 (mg/L)	3630.14870	0.39
1/18/2022 12:44:26	2201B31-001BPDS	Pb (220.353 nm)	1.42	1.07589 (mg/L)	364.89527	1.43
1/18/2022 12:44:26	2201B31-001BPDS	S (181.972 nm)	2.03	5.84712 (mg/L)	167.76138	2.02
1/18/2022 12:44:26	2201B31-001BPDS	Sb (217.582 nm)	0.55	1.03316 (mg/L)	296.22478	0.55
1/18/2022 12:44:26	2201B31-001BPDS	Se (196.026 nm)	1.75	1.06660 (mg/L)	162.33971	1.71
1/18/2022 12:44:26	2201B31-001BPDS	Sn (189.925 nm)	1.39	1.07337 (mg/L)	186.03788	1.37
1/18/2022 12:44:26	2201B31-001BPDS	Sr (407.771 nm)	0.55	5.12008 (mg/L)	8013610.64802	0.55
1/18/2022 12:44:26	2201B31-001BPDS	Ti (337.280 nm)	0.41	1.03686 (mg/L)	15540.85006	0.41
1/18/2022 12:44:26	2201B31-001BPDS	Tl (351.923 nm)	3.51	1.03856 (mg/L)	437.61926	3.72
1/18/2022 12:44:26	2201B31-001BPDS	V (311.837 nm)	0.44	1.05555 (mg/L)	17329.61149	0.44
1/18/2022 12:44:26	2201B31-001BPDS	Zn (206.200 nm)	0.26	1.09503 (mg/L)	583.06851	0.26
1/18/2022 12:47:29	2201B31-002B	Ag (328.068 nm)	> 100.00	0.00006 u (mg/L)	1.72565	76.08
1/18/2022 12:47:29	2201B31-002B	Al (308.215 nm)	1.66	0.06694 (mg/L)	460.87902	0.47
1/18/2022 12:47:29	2201B31-002B	As (193.696 nm)	38.10	0.00404 (mg/L)	4.28896	6.05
1/18/2022 12:47:29	2201B31-002B	B (249.772 nm)	7.86	0.01530 (mg/L)	156.95277	6.18
1/18/2022 12:47:29	2201B31-002B	Ba (413.064 nm)	2.87	0.02163 (mg/L)	177.00462	2.01
1/18/2022 12:47:29	2201B31-002B	Be (313.042 nm)	> 100.00	0.00000 u (mg/L)	-243.80008	0.99
1/18/2022 12:47:29	2201B31-002B	Ca (373.690 nm)	0.41	2.40658 (mg/L)	5579.97936	0.42
1/18/2022 12:47:29	2201B31-002B	Cd (228.802 nm)	> 100.00	0.00005 u (mg/L)	9.15728	20.45
1/18/2022 12:47:29	2201B31-002B	Co (230.786 nm)	> 100.00	-0.00024 u (mg/L)	1.56857	66.80
1/18/2022 12:47:29	2201B31-002B	Cr (267.716 nm)	94.62	0.00028 u (mg/L)	12.38666	22.91
1/18/2022 12:47:29	2201B31-002B	Cu (327.395 nm)	64.65	0.00032 (mg/L)	8.84517	28.59
1/18/2022 12:47:29	2201B31-002B	Fe (238.204 nm)	0.32	0.89080 (mg/L)	8116.34825	0.32
1/18/2022 12:47:29	2201B31-002B	K (766.491 nm)	0.68	2.68958 (mg/L)	3143.63886	0.66
1/18/2022 12:47:29	2201B31-002B	Mg (279.800 nm)	0.67	1.28155 (mg/L)	831.58857	0.67
1/18/2022 12:47:29	2201B31-002B	Mn (257.610 nm)	0.21	0.10318 (mg/L)	8026.08794	0.21
1/18/2022 12:47:29	2201B31-002B	Mo (204.598 nm)	> 100.00	0.00097 u (mg/L)	2.34335	55.39
1/18/2022 12:47:29	2201B31-002B	Na (589.592 nm)	0.25	2.62978 (mg/L)	13990.36279	0.25
1/18/2022 12:47:29	2201B31-002B	Ni (221.648 nm)	33.03	0.00557 (mg/L)	5.30609	17.07
1/18/2022 12:47:29	2201B31-002B	P (213.618 nm)	13.00	0.02039 (mg/L)	8.85232	10.14
1/18/2022 12:47:29	2201B31-002B	Pb (220.353 nm)	99.11	0.00473 u (mg/L)	0.03377	> 100.00
1/18/2022 12:47:29	2201B31-002B	S (181.972 nm)	11.36	0.64342 (mg/L)	19.31467	10.79
1/18/2022 12:47:29	2201B31-002B	Sb (217.582 nm)	4.09	0.00941 (mg/L)	1.62489	6.82
1/18/2022 12:47:29	2201B31-002B	Se (196.026 nm)	> 100.00	0.00402 u (mg/L)	3.50570	66.03
1/18/2022 12:47:29	2201B31-002B	Sn (189.925 nm)	> 100.00	-0.00129 u (mg/L)	1.51941	24.57
1/18/2022 12:47:29	2201B31-002B	Sr (407.771 nm)	0.27	0.02244 (mg/L)	35427.58153	0.26
1/18/2022 12:47:29	2201B31-002B	Ti (337.280 nm)	5.63	0.00366 (mg/L)	65.86988	4.69
1/18/2022 12:47:29	2201B31-002B	Tl (351.923 nm)	74.39	0.00385 (mg/L)	-24.91453	5.14
1/18/2022 12:47:29	2201B31-002B	V (311.837 nm)	> 100.00	0.00010 u (mg/L)	5.81762	73.97
1/18/2022 12:47:29	2201B31-002B	Zn (206.200 nm)	25.05	-0.00405 u (mg/L)	2.97284	17.99
1/18/2022 12:50:33	2201B31-003B	Ag (328.068 nm)	> 100.00	-0.00002 u (mg/L)	0.37560	> 100.00
1/18/2022 12:50:33	2201B31-003B	Al (308.215 nm)	1.33	0.13654 (mg/L)	595.61758	0.59
1/18/2022 12:50:33	2201B31-003B	As (193.696 nm)	74.58	0.00412 (mg/L)	4.30239	12.04
1/18/2022 12:50:33	2201B31-003B	B (249.772 nm)	2.57	0.01314 (mg/L)	139.49003	1.95
1/18/2022 12:50:33	2201B31-003B	Ba (413.064 nm)	2.84	0.02833 (mg/L)	215.46097	2.14
1/18/2022 12:50:33	2201B31-003B	Be (313.042 nm)	> 100.00	0.00001 (mg/L)	-237.60216	2.43
1/18/2022 12:50:33	2201B31-003B	Ca (373.690 nm)	0.33	2.53770 (mg/L)	5888.34585	0.33

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 12:50:33	2201B31-003B	Cd (228.802 nm)	91.39	-0.00011 u (mg/L)	8.18297	7.76
1/18/2022 12:50:33	2201B31-003B	Co (230.786 nm)	> 100.00	0.00049 u (mg/L)	3.46632	68.42
1/18/2022 12:50:33	2201B31-003B	Cr (267.716 nm)	23.54	0.00069 (mg/L)	16.66844	10.28
1/18/2022 12:50:33	2201B31-003B	Cu (327.395 nm)	12.05	0.00163 (mg/L)	24.58967	9.63
1/18/2022 12:50:33	2201B31-003B	Fe (238.204 nm)	0.19	1.52213 (mg/L)	13832.27686	0.18
1/18/2022 12:50:33	2201B31-003B	K (766.491 nm)	0.35	2.72686 (mg/L)	3185.96227	0.34
1/18/2022 12:50:33	2201B31-003B	Mg (279.800 nm)	0.23	1.32460 (mg/L)	859.35615	0.23
1/18/2022 12:50:33	2201B31-003B	Mn (257.610 nm)	0.27	0.21470 (mg/L)	16679.41935	0.27
1/18/2022 12:50:33	2201B31-003B	Mo (204.598 nm)	96.67	0.00133 (mg/L)	2.61355	37.01
1/18/2022 12:50:33	2201B31-003B	Na (589.592 nm)	0.30	2.63825 (mg/L)	14035.64944	0.30
1/18/2022 12:50:33	2201B31-003B	Ni (221.648 nm)	> 100.00	0.00497 u (mg/L)	5.00850	54.36
1/18/2022 12:50:33	2201B31-003B	P (213.618 nm)	25.66	0.03071 (mg/L)	12.35209	21.62
1/18/2022 12:50:33	2201B31-003B	Pb (220.353 nm)	> 100.00	-0.00112 u (mg/L)	-1.95617	27.94
1/18/2022 12:50:33	2201B31-003B	S (181.972 nm)	1.27	0.68033 (mg/L)	20.36740	1.21
1/18/2022 12:50:33	2201B31-003B	Sb (217.582 nm)	86.04	-0.00171 u (mg/L)	-1.57472	26.92
1/18/2022 12:50:33	2201B31-003B	Se (196.026 nm)	> 100.00	0.00448 u (mg/L)	3.57446	34.39
1/18/2022 12:50:33	2201B31-003B	Sn (189.925 nm)	31.69	-0.00464 u (mg/L)	0.94407	26.72
1/18/2022 12:50:33	2201B31-003B	Sr (407.771 nm)	0.28	0.02293 (mg/L)	36184.06998	0.27
1/18/2022 12:50:33	2201B31-003B	Ti (337.280 nm)	2.15	0.01044 (mg/L)	167.45985	2.00
1/18/2022 12:50:33	2201B31-003B	Tl (351.923 nm)	61.78	-0.01022 u (mg/L)	-31.20554	9.04
1/18/2022 12:50:33	2201B31-003B	V (311.837 nm)	> 100.00	0.00010 u (mg/L)	5.86157	81.82
1/18/2022 12:50:33	2201B31-003B	Zn (206.200 nm)	20.46	0.00824 (mg/L)	9.45552	9.41
1/18/2022 12:53:38	2201A25-001D	Ag (328.068 nm)	63.74	0.00012 (mg/L)	2.82797	46.84
1/18/2022 12:53:38	2201A25-001D	Al (308.215 nm)	0.55	0.53045 (mg/L)	1358.12222	0.42
1/18/2022 12:53:38	2201A25-001D	As (193.696 nm)	> 100.00	0.00142 u (mg/L)	3.84762	10.57
1/18/2022 12:53:38	2201A25-001D	B (249.772 nm)	0.67	0.02899 (mg/L)	267.34650	0.58
1/18/2022 12:53:38	2201A25-001D	Ba (413.064 nm)	5.55	0.02646 (mg/L)	204.70842	4.12
1/18/2022 12:53:38	2201A25-001D	Be (313.042 nm)	0.99	0.00050 (mg/L)	121.33864	2.97
1/18/2022 12:53:38	2201A25-001D	Ca (373.690 nm)	0.40	11.21985 (mg/L)	26307.01439	0.40
1/18/2022 12:53:38	2201A25-001D	Cd (228.802 nm)	82.13	0.00040 (mg/L)	11.34948	17.88
1/18/2022 12:53:38	2201A25-001D	Co (230.786 nm)	> 100.00	-0.00027 u (mg/L)	1.50083	59.44
1/18/2022 12:53:38	2201A25-001D	Cr (267.716 nm)	16.20	0.00153 (mg/L)	25.58770	10.26
1/18/2022 12:53:38	2201A25-001D	Cu (327.395 nm)	18.41	0.00295 (mg/L)	40.53858	16.17
1/18/2022 12:53:38	2201A25-001D	Fe (238.204 nm)	0.32	2.20624 (mg/L)	20026.02553	0.32
1/18/2022 12:53:38	2201A25-001D	K (766.491 nm)	1.16	1.67472 (mg/L)	1991.52147	1.11
1/18/2022 12:53:38	2201A25-001D	Mg (279.800 nm)	0.19	1.27128 (mg/L)	824.96828	0.19
1/18/2022 12:53:38	2201A25-001D	Mn (257.610 nm)	0.53	0.06406 (mg/L)	4990.28688	0.53
1/18/2022 12:53:38	2201A25-001D	Mo (204.598 nm)	57.92	0.00153 (mg/L)	2.75817	24.04
1/18/2022 12:53:38	2201A25-001D	Na (589.592 nm)	0.14	4.47773 (mg/L)	23872.97691	0.14
1/18/2022 12:53:38	2201A25-001D	Ni (221.648 nm)	> 100.00	0.00049 u (mg/L)	2.80512	17.93
1/18/2022 12:53:38	2201A25-001D	P (213.618 nm)	2.11	0.14613 (mg/L)	51.46110	2.03
1/18/2022 12:53:38	2201A25-001D	Pb (220.353 nm)	> 100.00	-0.00057 u (mg/L)	-1.76949	43.11
1/18/2022 12:53:38	2201A25-001D	S (181.972 nm)	2.69	1.65677 (mg/L)	48.22244	2.64
1/18/2022 12:53:38	2201A25-001D	Sb (217.582 nm)	> 100.00	0.00540 (mg/L)	0.47177	> 100.00
1/18/2022 12:53:38	2201A25-001D	Se (196.026 nm)	> 100.00	0.00638 u (mg/L)	3.85804	35.49
1/18/2022 12:53:38	2201A25-001D	Sn (189.925 nm)	> 100.00	-0.00077 u (mg/L)	1.60788	40.93
1/18/2022 12:53:38	2201A25-001D	Sr (407.771 nm)	1.03	0.05283 (mg/L)	82988.65391	1.02
1/18/2022 12:53:38	2201A25-001D	Ti (337.280 nm)	1.19	0.01338 (mg/L)	211.45820	1.13

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 12:53:38	2201A25-001D	Tl (351.923 nm)	83.77	-0.00838 u (mg/L)	-30.38563	10.33
1/18/2022 12:53:38	2201A25-001D	V (311.837 nm)	34.97	0.00094 (mg/L)	19.69800	27.47
1/18/2022 12:53:38	2201A25-001D	Zn (206.200 nm)	4.28	0.01450 (mg/L)	12.76114	2.57
1/18/2022 12:56:42	2201A74-001C	Ag (328.068 nm)	> 100.00	-0.00021 u (mg/L)	-2.96645	> 100.00
1/18/2022 12:56:42	2201A74-001C	Al (308.215 nm)	0.45	20.95520 (mg/L)	40895.71775	0.45
1/18/2022 12:56:42	2201A74-001C	As (193.696 nm)	75.76	0.00975 (mg/L)	5.24997	23.69
1/18/2022 12:56:42	2201A74-001C	B (249.772 nm)	0.13	0.04486 (mg/L)	395.41917	0.12
1/18/2022 12:56:42	2201A74-001C	Ba (413.064 nm)	0.28	0.29297 (mg/L)	1733.64165	0.27
1/18/2022 12:56:42	2201A74-001C	Be (313.042 nm)	0.66	0.00382 (mg/L)	2521.97249	0.72
1/18/2022 12:56:42	2201A74-001C	Ca (373.690 nm)	0.29	12.97733 (mg/L)	30440.24835	0.29
1/18/2022 12:56:42	2201A74-001C	Cd (228.802 nm)	> 100.00	-0.00005 u (mg/L)	8.56135	40.51
1/18/2022 12:56:42	2201A74-001C	Co (230.786 nm)	3.50	0.01617 (mg/L)	44.31089	3.33
1/18/2022 12:56:42	2201A74-001C	Cr (267.716 nm)	1.90	0.02275 (mg/L)	249.56519	1.83
1/18/2022 12:56:42	2201A74-001C	Cu (327.395 nm)	0.35	0.03062 (mg/L)	374.70129	0.35
1/18/2022 12:56:42	2201A74-001C	Fe (238.204 nm)	0.43	39.83703 (mg/L)	360725.36287	0.42
1/18/2022 12:56:42	2201A74-001C	K (766.491 nm)	0.47	7.86813 (mg/L)	9022.57365	0.46
1/18/2022 12:56:42	2201A74-001C	Mg (279.800 nm)	0.30	10.22379 (mg/L)	6599.41423	0.30
1/18/2022 12:56:42	2201A74-001C	Mn (257.610 nm)	0.43	0.88248 (mg/L)	68495.00704	0.43
1/18/2022 12:56:42	2201A74-001C	Mo (204.598 nm)	> 100.00	-0.00022 u (mg/L)	1.45108	40.22
1/18/2022 12:56:42	2201A74-001C	Na (589.592 nm)	0.20	3.65756 (mg/L)	19486.83177	0.20
1/18/2022 12:56:42	2201A74-001C	Ni (221.648 nm)	12.91	0.04017 (mg/L)	22.32537	11.43
1/18/2022 12:56:42	2201A74-001C	P (213.618 nm)	1.84	0.65951 (mg/L)	225.41730	1.82
1/18/2022 12:56:42	2201A74-001C	Pb (220.353 nm)	52.09	0.01193 (mg/L)	2.48818	85.09
1/18/2022 12:56:42	2201A74-001C	S (181.972 nm)	0.80	4.73867 (mg/L)	136.14023	0.79
1/18/2022 12:56:42	2201A74-001C	Sb (217.582 nm)	> 100.00	-0.00240 u (mg/L)	-1.77264	> 100.00
1/18/2022 12:56:42	2201A74-001C	Se (196.026 nm)	> 100.00	0.00304 u (mg/L)	3.35845	19.72
1/18/2022 12:56:42	2201A74-001C	Sn (189.925 nm)	> 100.00	0.00250 u (mg/L)	2.16988	40.72
1/18/2022 12:56:42	2201A74-001C	Sr (407.771 nm)	1.14	0.07761 (mg/L)	121762.11081	1.14
1/18/2022 12:56:42	2201A74-001C	Ti (337.280 nm)	0.44	1.86093 (mg/L)	27883.53218	0.44
1/18/2022 12:56:42	2201A74-001C	Tl (351.923 nm)	48.80	-0.02702 u (mg/L)	-38.71718	15.22
1/18/2022 12:56:42	2201A74-001C	V (311.837 nm)	0.56	0.10734 (mg/L)	1766.11213	0.56
1/18/2022 12:56:42	2201A74-001C	Zn (206.200 nm)	7.27	0.04876 (mg/L)	30.84471	6.06
1/18/2022 12:59:47	2201A74-002C	Ag (328.068 nm)	4.87	0.00520 (mg/L)	91.34753	4.83
1/18/2022 12:59:47	2201A74-002C	Al (308.215 nm)	0.10	1142.54535 o (mg/L)	2212035.11437	0.10
1/18/2022 12:59:47	2201A74-002C	As (193.696 nm)	63.56	-0.01141 u (mg/L)	1.68682	72.40
1/18/2022 12:59:47	2201A74-002C	B (249.772 nm)	0.28	0.53547 (mg/L)	4352.85017	0.28
1/18/2022 12:59:47	2201A74-002C	Ba (413.064 nm)	0.14	16.00607 (mg/L)	91875.78536	0.14
1/18/2022 12:59:47	2201A74-002C	Be (313.042 nm)	0.25	0.02056 (mg/L)	14650.78640	0.25
1/18/2022 12:59:47	2201A74-002C	Ca (373.690 nm)	0.17	308.66056 o (mg/L)	725827.52840	0.17
1/18/2022 12:59:47	2201A74-002C	Cd (228.802 nm)	57.39	0.00164 (mg/L)	18.92906	30.47
1/18/2022 12:59:47	2201A74-002C	Co (230.786 nm)	0.22	0.94258 (mg/L)	2456.83653	0.22
1/18/2022 12:59:47	2201A74-002C	Cr (267.716 nm)	0.20	4.02564 (mg/L)	42501.97675	0.20
1/18/2022 12:59:47	2201A74-002C	Cu (327.395 nm)	0.15	3.80158 (mg/L)	45915.12004	0.15
1/18/2022 12:59:47	2201A74-002C	Fe (238.204 nm)	0.16	539.93631 o (mg/L)	4888493.69382	0.16
1/18/2022 12:59:47	2201A74-002C	K (766.491 nm)	0.15	562.56231 o (mg/L)	638738.09275	0.15
1/18/2022 12:59:47	2201A74-002C	Mg (279.800 nm)	0.22	833.96725 o (mg/L)	537921.02761	0.22
1/18/2022 12:59:47	2201A74-002C	Mn (257.610 nm)	0.24	31.58163 o (mg/L)	2450576.91183	0.24
1/18/2022 12:59:47	2201A74-002C	Mo (204.598 nm)	9.93	0.04970 (mg/L)	38.87707	9.52

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 12:59:47	2201A74-002C	Na (589.592 nm)	0.28	55.11462 (mg/L)	294673.60663	0.28
1/18/2022 12:59:47	2201A74-002C	Ni (221.648 nm)	1.73	0.99669 (mg/L)	492.94460	1.72
1/18/2022 12:59:47	2201A74-002C	P (213.618 nm)	0.23	11.86403 (mg/L)	4022.05770	0.23
1/18/2022 12:59:47	2201A74-002C	Pb (220.353 nm)	28.98	0.03367 (mg/L)	9.89119	33.60
1/18/2022 12:59:47	2201A74-002C	S (181.972 nm)	1.64	5.94371 (mg/L)	170.51668	1.63
1/18/2022 12:59:47	2201A74-002C	Sb (217.582 nm)	37.45	-0.03358 u (mg/L)	-10.74600	33.68
1/18/2022 12:59:47	2201A74-002C	Se (196.026 nm)	54.27	0.06152 (mg/L)	12.09993	41.24
1/18/2022 12:59:47	2201A74-002C	Sn (189.925 nm)	40.66	0.01429 (mg/L)	4.19325	23.79
1/18/2022 12:59:47	2201A74-002C	Sr (407.771 nm)	0.14	1.17543 (mg/L)	1839939.31035	0.14
1/18/2022 12:59:47	2201A74-002C	Ti (337.280 nm)	0.28	80.81578 o (mg/L)	1210446.82907	0.28
1/18/2022 12:59:47	2201A74-002C	Tl (351.923 nm)	2.72	-0.66463 u (mg/L)	-323.74082	2.50
1/18/2022 12:59:47	2201A74-002C	V (311.837 nm)	0.22	4.60312 (mg/L)	75558.37408	0.22
1/18/2022 12:59:47	2201A74-002C	Zn (206.200 nm)	0.32	2.94085 (mg/L)	1557.29223	0.32
1/18/2022 13:02:52	2201A74-003C/2x	Ag (328.068 nm)	41.29	0.00021 (mg/L)	4.35973	34.19
1/18/2022 13:02:52	2201A74-003C/2x	Al (308.215 nm)	0.29	100.64770 (mg/L)	195161.98327	0.29
1/18/2022 13:02:52	2201A74-003C/2x	As (193.696 nm)	30.85	-0.01131 u (mg/L)	1.70422	34.46
1/18/2022 13:02:52	2201A74-003C/2x	B (249.772 nm)	0.64	0.12917 (mg/L)	1075.47625	0.62
1/18/2022 13:02:52	2201A74-003C/2x	Ba (413.064 nm)	0.33	0.47262 (mg/L)	2764.22881	0.33
1/18/2022 13:02:52	2201A74-003C/2x	Be (313.042 nm)	0.32	0.00516 (mg/L)	3496.14687	0.35
1/18/2022 13:02:52	2201A74-003C/2x	Ca (373.690 nm)	0.33	20.39254 (mg/L)	47879.32648	0.33
1/18/2022 13:02:52	2201A74-003C/2x	Cd (228.802 nm)	> 100.00	-0.00018 u (mg/L)	7.77864	19.73
1/18/2022 13:02:52	2201A74-003C/2x	Co (230.786 nm)	0.64	0.13521 (mg/L)	354.30234	0.63
1/18/2022 13:02:52	2201A74-003C/2x	Cr (267.716 nm)	0.36	0.22485 (mg/L)	2382.75494	0.36
1/18/2022 13:02:52	2201A74-003C/2x	Cu (327.395 nm)	0.37	0.26137 (mg/L)	3161.41698	0.37
1/18/2022 13:02:52	2201A74-003C/2x	Fe (238.204 nm)	0.43	174.77315 o (mg/L)	1582401.78694	0.43
1/18/2022 13:02:52	2201A74-003C/2x	K (766.491 nm)	0.64	14.24755 (mg/L)	16264.80487	0.63
1/18/2022 13:02:52	2201A74-003C/2x	Mg (279.800 nm)	0.36	13.77124 (mg/L)	8887.54788	0.36
1/18/2022 13:02:52	2201A74-003C/2x	Mn (257.610 nm)	0.47	6.36428 (mg/L)	493851.81793	0.47
1/18/2022 13:02:52	2201A74-003C/2x	Mo (204.598 nm)	7.69	0.00261 (mg/L)	3.57335	4.22
1/18/2022 13:02:52	2201A74-003C/2x	Na (589.592 nm)	0.52	6.62900 (mg/L)	35377.78007	0.52
1/18/2022 13:02:52	2201A74-003C/2x	Ni (221.648 nm)	4.39	0.08653 (mg/L)	45.13648	4.14
1/18/2022 13:02:52	2201A74-003C/2x	P (213.618 nm)	1.31	0.58901 (mg/L)	201.52897	1.30
1/18/2022 13:02:52	2201A74-003C/2x	Pb (220.353 nm)	24.16	0.03187 (mg/L)	9.27812	28.27
1/18/2022 13:02:52	2201A74-003C/2x	S (181.972 nm)	11.13	1.03409 (mg/L)	30.45918	10.78
1/18/2022 13:02:52	2201A74-003C/2x	Sb (217.582 nm)	> 100.00	0.00028 u (mg/L)	-1.00268	> 100.00
1/18/2022 13:02:52	2201A74-003C/2x	Se (196.026 nm)	> 100.00	0.00869 u (mg/L)	4.20327	42.58
1/18/2022 13:02:52	2201A74-003C/2x	Sn (189.925 nm)	> 100.00	0.00369 u (mg/L)	2.37384	90.00
1/18/2022 13:02:52	2201A74-003C/2x	Sr (407.771 nm)	1.32	0.16184 (mg/L)	253590.36547	1.32
1/18/2022 13:02:52	2201A74-003C/2x	Ti (337.280 nm)	0.09	5.63897 (mg/L)	84469.89298	0.09
1/18/2022 13:02:52	2201A74-003C/2x	Tl (351.923 nm)	12.38	-0.06743 u (mg/L)	-56.78037	6.57
1/18/2022 13:02:52	2201A74-003C/2x	V (311.837 nm)	0.41	0.79112 (mg/L)	12989.45417	0.41
1/18/2022 13:02:52	2201A74-003C/2x	Zn (206.200 nm)	1.86	0.11527 (mg/L)	65.94877	1.72
1/18/2022 13:05:59	Cont Calib Verif	Ag (328.068 nm)	0.75	0.10098 (mg/L)	1760.70197	0.75
1/18/2022 13:05:59	Cont Calib Verif	Al (308.215 nm)	0.56	10.21400 (mg/L)	20103.24454	0.55
1/18/2022 13:05:59	Cont Calib Verif	As (193.696 nm)	1.31	1.00574 (mg/L)	172.91595	1.28
1/18/2022 13:05:59	Cont Calib Verif	B (249.772 nm)	0.49	1.01015 (mg/L)	8181.86501	0.49
1/18/2022 13:05:59	Cont Calib Verif	Ba (413.064 nm)	0.51	1.03705 (mg/L)	6002.19322	0.50
1/18/2022 13:05:59	Cont Calib Verif	Be (313.042 nm)	0.49	1.03071 (mg/L)	746309.44953	0.49

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 13:05:59	Cont Calib Verif	Ca (373.690 nm)	0.45	10.33062 (mg/L)	24215.73856	0.45
1/18/2022 13:05:59	Cont Calib Verif	Cd (228.802 nm)	0.62	1.01947 (mg/L)	6250.55722	0.62
1/18/2022 13:05:59	Cont Calib Verif	Co (230.786 nm)	0.44	1.03790 (mg/L)	2705.07287	0.44
1/18/2022 13:05:59	Cont Calib Verif	Cr (267.716 nm)	0.33	1.03902 (mg/L)	10976.71343	0.32
1/18/2022 13:05:59	Cont Calib Verif	Cu (327.395 nm)	0.06	0.99890 (mg/L)	12068.30792	0.06
1/18/2022 13:05:59	Cont Calib Verif	Fe (238.204 nm)	0.39	10.44906 (mg/L)	94654.32519	0.39
1/18/2022 13:05:59	Cont Calib Verif	K (766.491 nm)	0.31	10.10730 (mg/L)	11564.58679	0.30
1/18/2022 13:05:59	Cont Calib Verif	Mg (279.800 nm)	0.29	10.32185 (mg/L)	6662.66442	0.29
1/18/2022 13:05:59	Cont Calib Verif	Mn (257.610 nm)	0.39	1.04017 (mg/L)	80731.12792	0.39
1/18/2022 13:05:59	Cont Calib Verif	Mo (204.598 nm)	0.22	1.03113 (mg/L)	774.75695	0.22
1/18/2022 13:05:59	Cont Calib Verif	Na (589.592 nm)	0.33	10.58067 (mg/L)	56510.84159	0.33
1/18/2022 13:05:59	Cont Calib Verif	Ni (221.648 nm)	0.18	1.04611 (mg/L)	517.25910	0.18
1/18/2022 13:05:59	Cont Calib Verif	P (213.618 nm)	1.07	1.01852 (mg/L)	347.06996	1.07
1/18/2022 13:05:59	Cont Calib Verif	Pb (220.353 nm)	1.06	1.05299 (mg/L)	357.09715	1.06
1/18/2022 13:05:59	Cont Calib Verif	S (181.972 nm)	4.67	1.08018 (mg/L)	31.77410	4.53
1/18/2022 13:05:59	Cont Calib Verif	Sb (217.582 nm)	0.40	1.02088 (mg/L)	292.69099	0.40
1/18/2022 13:05:59	Cont Calib Verif	Se (196.026 nm)	2.36	1.02786 (mg/L)	156.55002	2.32
1/18/2022 13:05:59	Cont Calib Verif	Sn (189.925 nm)	0.41	1.05186 (mg/L)	182.34342	0.40
1/18/2022 13:05:59	Cont Calib Verif	Sr (407.771 nm)	0.51	1.05697 (mg/L)	1654536.46414	0.51
1/18/2022 13:05:59	Cont Calib Verif	Ti (337.280 nm)	0.97	1.03123 (mg/L)	15456.51769	0.97
1/18/2022 13:05:59	Cont Calib Verif	Tl (351.923 nm)	2.19	1.02112 (mg/L)	429.82474	2.33
1/18/2022 13:05:59	Cont Calib Verif	V (311.837 nm)	0.51	1.02225 (mg/L)	16783.03828	0.51
1/18/2022 13:05:59	Cont Calib Verif	Zn (206.200 nm)	0.83	1.05002 (mg/L)	559.31301	0.82
1/18/2022 13:09:06	Cont Calib Blank	Ag (328.068 nm)	> 100.00	0.00002 u (mg/L)	1.04195	> 100.00
1/18/2022 13:09:06	Cont Calib Blank	Al (308.215 nm)	35.46	0.00357 (mg/L)	338.20842	0.72
1/18/2022 13:09:06	Cont Calib Blank	As (193.696 nm)	> 100.00	-0.00377 u (mg/L)	2.97278	45.88
1/18/2022 13:09:06	Cont Calib Blank	B (249.772 nm)	2.87	0.00218 (mg/L)	51.11959	0.99
1/18/2022 13:09:06	Cont Calib Blank	Ba (413.064 nm)	> 100.00	0.00052 u (mg/L)	55.89888	18.42
1/18/2022 13:09:06	Cont Calib Blank	Be (313.042 nm)	31.91	0.00003 (mg/L)	-218.28714	3.64
1/18/2022 13:09:06	Cont Calib Blank	Ca (373.690 nm)	2.77	0.03424 (mg/L)	0.72765	> 100.00
1/18/2022 13:09:06	Cont Calib Blank	Cd (228.802 nm)	> 100.00	-0.00007 u (mg/L)	8.42879	12.22
1/18/2022 13:09:06	Cont Calib Blank	Co (230.786 nm)	28.40	-0.00045 u (mg/L)	1.02180	32.63
1/18/2022 13:09:06	Cont Calib Blank	Cr (267.716 nm)	> 100.00	0.00002 u (mg/L)	9.63706	12.95
1/18/2022 13:09:06	Cont Calib Blank	Cu (327.395 nm)	91.92	0.00019 (mg/L)	7.22147	29.12
1/18/2022 13:09:06	Cont Calib Blank	Fe (238.204 nm)	12.66	0.00240 (mg/L)	73.01804	3.76
1/18/2022 13:09:06	Cont Calib Blank	K (766.491 nm)	40.03	0.06632 (mg/L)	165.59159	18.20
1/18/2022 13:09:06	Cont Calib Blank	Mg (279.800 nm)	26.64	0.00329 (mg/L)	7.10037	7.96
1/18/2022 13:09:06	Cont Calib Blank	Mn (257.610 nm)	7.98	0.00012 (mg/L)	28.97339	2.54
1/18/2022 13:09:06	Cont Calib Blank	Mo (204.598 nm)	> 100.00	0.00047 u (mg/L)	1.96716	20.36
1/18/2022 13:09:06	Cont Calib Blank	Na (589.592 nm)	2.83	0.09468 (mg/L)	432.91652	3.31
1/18/2022 13:09:06	Cont Calib Blank	Ni (221.648 nm)	> 100.00	-0.00035 u (mg/L)	2.39251	31.72
1/18/2022 13:09:06	Cont Calib Blank	P (213.618 nm)	22.61	0.00601 (mg/L)	3.98147	11.57
1/18/2022 13:09:06	Cont Calib Blank	Pb (220.353 nm)	> 100.00	0.00236 u (mg/L)	-0.77197	> 100.00
1/18/2022 13:09:06	Cont Calib Blank	S (181.972 nm)	> 100.00	-0.01017 u (mg/L)	0.66942	> 100.00
1/18/2022 13:09:06	Cont Calib Blank	Sb (217.582 nm)	49.27	0.01000 (mg/L)	1.79501	78.97
1/18/2022 13:09:06	Cont Calib Blank	Se (196.026 nm)	28.04	0.02009 Z (mg/L)	5.90708 Z	14.25
1/18/2022 13:09:06	Cont Calib Blank	Sn (189.925 nm)	> 100.00	0.00007 u (mg/L)	1.75264	> 100.00
1/18/2022 13:09:06	Cont Calib Blank	Sr (407.771 nm)	30.88	0.00004 (mg/L)	363.30562	5.09

220118AREP.esws

Instrument used: MY1500001

Instrument Name: OES-2
Methods: 200.7 and 6010D

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 13:09:06	Cont Calib Blank	Ti (337.280 nm)	41.75	0.00314 (mg/L)	58.02569	33.80
1/18/2022 13:09:06	Cont Calib Blank	Tl (351.923 nm)	> 100.00	0.00240 u (mg/L)	-25.56239	5.22
1/18/2022 13:09:06	Cont Calib Blank	V (311.837 nm)	60.91	-0.00015 u (mg/L)	1.68649	91.60
1/18/2022 13:09:06	Cont Calib Blank	Zn (206.200 nm)	60.05	0.00154 (mg/L)	5.92336	8.26
1/18/2022 13:12:13	2201A74-005C	Ag (328.068 nm)	> 100.00	0.00007 u (mg/L)	2.03801	> 100.00
1/18/2022 13:12:13	2201A74-005C	Al (308.215 nm)	0.19	168.78381 (mg/L)	327057.76284	0.19
1/18/2022 13:12:13	2201A74-005C	As (193.696 nm)	31.51	0.01624 (mg/L)	6.34205	13.58
1/18/2022 13:12:13	2201A74-005C	B (249.772 nm)	0.35	0.18906 (mg/L)	1558.58020	0.34
1/18/2022 13:12:13	2201A74-005C	Ba (413.064 nm)	0.23	2.34252 (mg/L)	13491.35999	0.23
1/18/2022 13:12:13	2201A74-005C	Be (313.042 nm)	0.32	0.07955 (mg/L)	57376.13071	0.32
1/18/2022 13:12:13	2201A74-005C	Ca (373.690 nm)	0.05	121.84497 o (mg/L)	286474.97895	0.05
1/18/2022 13:12:13	2201A74-005C	Cd (228.802 nm)	25.57	0.00227 (mg/L)	22.75742	15.59
1/18/2022 13:12:13	2201A74-005C	Co (230.786 nm)	0.82	0.14439 (mg/L)	378.21077	0.81
1/18/2022 13:12:13	2201A74-005C	Cr (267.716 nm)	0.11	0.55111 (mg/L)	5826.57734	0.11
1/18/2022 13:12:13	2201A74-005C	Cu (327.395 nm)	0.12	0.20762 (mg/L)	2512.27378	0.12
1/18/2022 13:12:13	2201A74-005C	Fe (238.204 nm)	0.24	161.70029 o (mg/L)	1464043.48232	0.24
1/18/2022 13:12:13	2201A74-005C	K (766.491 nm)	0.11	28.76277 (mg/L)	32743.17975	0.11
1/18/2022 13:12:13	2201A74-005C	Mg (279.800 nm)	0.09	44.71147 (mg/L)	28844.26559	0.09
1/18/2022 13:12:13	2201A74-005C	Mn (257.610 nm)	0.21	5.34286 (mg/L)	414595.97649	0.21
1/18/2022 13:12:13	2201A74-005C	Mo (204.598 nm)	17.00	0.01531 (mg/L)	13.09112	14.90
1/18/2022 13:12:13	2201A74-005C	Na (589.592 nm)	0.11	17.66758 (mg/L)	94410.88490	0.11
1/18/2022 13:12:13	2201A74-005C	Ni (221.648 nm)	2.42	0.20915 (mg/L)	105.46976	2.37
1/18/2022 13:12:13	2201A74-005C	P (213.618 nm)	0.50	4.06874 (mg/L)	1380.63158	0.50
1/18/2022 13:12:13	2201A74-005C	Pb (220.353 nm)	2.45	0.31313 (mg/L)	105.08424	2.49
1/18/2022 13:12:13	2201A74-005C	S (181.972 nm)	0.17	32.64091 (mg/L)	932.11178	0.17
1/18/2022 13:12:13	2201A74-005C	Sb (217.582 nm)	63.50	0.01037 (mg/L)	1.90299	99.61
1/18/2022 13:12:13	2201A74-005C	Se (196.026 nm)	> 100.00	0.00592 u (mg/L)	3.78954	51.84
1/18/2022 13:12:13	2201A74-005C	Sn (189.925 nm)	68.47	0.01846 (mg/L)	4.90885	44.20
1/18/2022 13:12:13	2201A74-005C	Sr (407.771 nm)	0.27	0.56023 (mg/L)	877100.37864	0.27
1/18/2022 13:12:13	2201A74-005C	Ti (337.280 nm)	0.12	5.65231 (mg/L)	84669.78075	0.12
1/18/2022 13:12:13	2201A74-005C	Tl (351.923 nm)	0.66	-0.18139 u (mg/L)	-107.72379	0.50
1/18/2022 13:12:13	2201A74-005C	V (311.837 nm)	0.32	0.74780 (mg/L)	12278.29056	0.32
1/18/2022 13:12:13	2201A74-005C	Zn (206.200 nm)	0.37	0.73050 (mg/L)	390.66633	0.37
1/18/2022 13:15:19	2201A74-006C	Ag (328.068 nm)	> 100.00	-0.00003 u (mg/L)	0.17591	> 100.00
1/18/2022 13:15:19	2201A74-006C	Al (308.215 nm)	0.42	118.97014 (mg/L)	230629.99968	0.42
1/18/2022 13:15:19	2201A74-006C	As (193.696 nm)	> 100.00	0.00174 u (mg/L)	3.90098	33.27
1/18/2022 13:15:19	2201A74-006C	B (249.772 nm)	0.32	0.16597 (mg/L)	1372.28558	0.31
1/18/2022 13:15:19	2201A74-006C	Ba (413.064 nm)	0.19	1.80292 (mg/L)	10395.80589	0.19
1/18/2022 13:15:19	2201A74-006C	Be (313.042 nm)	0.25	0.02091 (mg/L)	14899.73622	0.25
1/18/2022 13:15:19	2201A74-006C	Ca (373.690 nm)	0.21	64.02342 (mg/L)	150490.36251	0.21
1/18/2022 13:15:19	2201A74-006C	Cd (228.802 nm)	18.91	0.00100 (mg/L)	14.98722	7.71
1/18/2022 13:15:19	2201A74-006C	Co (230.786 nm)	0.83	0.06091 (mg/L)	160.80431	0.81
1/18/2022 13:15:19	2201A74-006C	Cr (267.716 nm)	0.11	0.13506 (mg/L)	1434.99715	0.11
1/18/2022 13:15:19	2201A74-006C	Cu (327.395 nm)	0.46	0.18624 (mg/L)	2254.04553	0.46
1/18/2022 13:15:19	2201A74-006C	Fe (238.204 nm)	0.21	78.58353 (mg/L)	711526.10501	0.21
1/18/2022 13:15:19	2201A74-006C	K (766.491 nm)	0.13	27.98020 (mg/L)	31854.77312	0.13
1/18/2022 13:15:19	2201A74-006C	Mg (279.800 nm)	0.32	20.50359 (mg/L)	13229.97216	0.32
1/18/2022 13:15:19	2201A74-006C	Mn (257.610 nm)	0.24	6.12365 (mg/L)	475180.56495	0.24

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 13:15:19	2201A74-006C	Mo (204.598 nm)	7.26	0.00685 (mg/L)	6.75192	5.53
1/18/2022 13:15:19	2201A74-006C	Na (589.592 nm)	0.16	9.61624 (mg/L)	51353.18177	0.16
1/18/2022 13:15:19	2201A74-006C	Ni (221.648 nm)	1.84	0.09209 (mg/L)	47.87285	1.74
1/18/2022 13:15:19	2201A74-006C	P (213.618 nm)	0.17	0.89684 (mg/L)	305.83756	0.17
1/18/2022 13:15:19	2201A74-006C	Pb (220.353 nm)	2.36	0.43439 (mg/L)	146.38845	2.38
1/18/2022 13:15:19	2201A74-006C	S (181.972 nm)	0.18	7.57524 (mg/L)	217.05968	0.18
1/18/2022 13:15:19	2201A74-006C	Sb (217.582 nm)	49.37	0.00529 (mg/L)	0.44035	> 100.00
1/18/2022 13:15:19	2201A74-006C	Se (196.026 nm)	> 100.00	-0.00228 u (mg/L)	2.56391	70.38
1/18/2022 13:15:19	2201A74-006C	Sn (189.925 nm)	56.27	0.01112 (mg/L)	3.64965	29.44
1/18/2022 13:15:19	2201A74-006C	Sr (407.771 nm)	0.71	0.55053 (mg/L)	861921.52737	0.71
1/18/2022 13:15:19	2201A74-006C	Ti (337.280 nm)	0.45	1.29916 (mg/L)	19469.50793	0.45
1/18/2022 13:15:19	2201A74-006C	Tl (351.923 nm)	5.42	-0.20764 u (mg/L)	-119.45758	4.21
1/18/2022 13:15:19	2201A74-006C	V (311.837 nm)	0.34	0.09498 (mg/L)	1563.20039	0.34
1/18/2022 13:15:19	2201A74-006C	Zn (206.200 nm)	0.85	0.35014 (mg/L)	189.91186	0.82
1/18/2022 13:18:24	2201A74-008C	Ag (328.068 nm)	> 100.00	0.00009 u (mg/L)	2.31682	> 100.00
1/18/2022 13:18:24	2201A74-008C	Al (308.215 nm)	0.66	266.77150 (mg/L)	516739.29631	0.66
1/18/2022 13:18:24	2201A74-008C	As (193.696 nm)	35.03	-0.01154 u (mg/L)	1.66504	40.88
1/18/2022 13:18:24	2201A74-008C	B (249.772 nm)	0.68	0.10009 (mg/L)	840.90899	0.65
1/18/2022 13:18:24	2201A74-008C	Ba (413.064 nm)	0.63	3.00566 (mg/L)	17295.65289	0.63
1/18/2022 13:18:24	2201A74-008C	Be (313.042 nm)	0.71	0.02400 (mg/L)	17140.46849	0.72
1/18/2022 13:18:24	2201A74-008C	Ca (373.690 nm)	0.52	70.63249 (mg/L)	166033.54980	0.52
1/18/2022 13:18:24	2201A74-008C	Cd (228.802 nm)	53.78	0.00040 (mg/L)	11.35083	11.72
1/18/2022 13:18:24	2201A74-008C	Co (230.786 nm)	0.90	0.06558 (mg/L)	172.97195	0.89
1/18/2022 13:18:24	2201A74-008C	Cr (267.716 nm)	0.66	0.16673 (mg/L)	1769.29080	0.65
1/18/2022 13:18:24	2201A74-008C	Cu (327.395 nm)	0.66	0.11601 (mg/L)	1405.94484	0.65
1/18/2022 13:18:24	2201A74-008C	Fe (238.204 nm)	0.60	183.84459 o (mg/L)	1664532.22710	0.60
1/18/2022 13:18:24	2201A74-008C	K (766.491 nm)	0.43	73.03527 (mg/L)	83003.44705	0.43
1/18/2022 13:18:24	2201A74-008C	Mg (279.800 nm)	0.55	69.80328 (mg/L)	45028.69738	0.54
1/18/2022 13:18:24	2201A74-008C	Mn (257.610 nm)	0.59	14.10737 (mg/L)	1094672.49743	0.59
1/18/2022 13:18:24	2201A74-008C	Mo (204.598 nm)	7.81	0.02926 (mg/L)	23.54944	7.28
1/18/2022 13:18:24	2201A74-008C	Na (589.592 nm)	0.37	40.17949 (mg/L)	214802.13921	0.37
1/18/2022 13:18:24	2201A74-008C	Ni (221.648 nm)	2.92	0.14724 (mg/L)	75.00566	2.82
1/18/2022 13:18:24	2201A74-008C	P (213.618 nm)	0.37	1.59204 (mg/L)	541.40461	0.37
1/18/2022 13:18:24	2201A74-008C	Pb (220.353 nm)	1.63	0.26627 (mg/L)	89.12140	1.65
1/18/2022 13:18:24	2201A74-008C	S (181.972 nm)	0.75	8.25809 (mg/L)	236.53948	0.75
1/18/2022 13:18:24	2201A74-008C	Sb (217.582 nm)	> 100.00	-0.00542 u (mg/L)	-2.64198	> 100.00
1/18/2022 13:18:24	2201A74-008C	Se (196.026 nm)	> 100.00	0.01280 u (mg/L)	4.81747	> 100.00
1/18/2022 13:18:24	2201A74-008C	Sn (189.925 nm)	36.00	0.02078 (mg/L)	5.30742	24.19
1/18/2022 13:18:24	2201A74-008C	Sr (407.771 nm)	0.90	0.46598 (mg/L)	729598.02070	0.90
1/18/2022 13:18:24	2201A74-008C	Ti (337.280 nm)	0.69	8.63419 (mg/L)	129331.43818	0.69
1/18/2022 13:18:24	2201A74-008C	Tl (351.923 nm)	4.13	-0.17966 u (mg/L)	-106.95071	3.10
1/18/2022 13:18:24	2201A74-008C	V (311.837 nm)	0.52	0.18925 (mg/L)	3110.56811	0.52
1/18/2022 13:18:24	2201A74-008C	Zn (206.200 nm)	0.18	0.79492 (mg/L)	424.66898	0.18
1/18/2022 13:21:31	2201A78-001C	Ag (328.068 nm)	1.21	0.04231 (mg/L)	738.09133	1.21
1/18/2022 13:21:31	2201A78-001C	Al (308.215 nm)	0.55	67.78857 (mg/L)	131554.30787	0.55
1/18/2022 13:21:31	2201A78-001C	As (193.696 nm)	> 100.00	-0.00168 u (mg/L)	3.32523	50.40
1/18/2022 13:21:31	2201A78-001C	B (249.772 nm)	0.48	1.34713 (mg/L)	10900.10066	0.47
1/18/2022 13:21:31	2201A78-001C	Ba (413.064 nm)	0.29	0.61518 (mg/L)	3582.05532	0.29

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 13:21:31	2201A78-001C	Be (313.042 nm)	0.77	0.00085 (mg/L)	370.09700	1.27
1/18/2022 13:21:31	2201A78-001C	Ca (373.690 nm)	0.65	12.68839 (mg/L)	29760.72814	0.65
1/18/2022 13:21:31	2201A78-001C	Cd (228.802 nm)	7.65	0.00349 (mg/L)	30.24150	5.41
1/18/2022 13:21:31	2201A78-001C	Co (230.786 nm)	1.11	17.42144 (mg/L)	45370.53640	1.11
1/18/2022 13:21:31	2201A78-001C	Cr (267.716 nm)	0.58	0.30365 (mg/L)	3214.59717	0.58
1/18/2022 13:21:31	2201A78-001C	Cu (327.395 nm)	0.99	19.43585 (mg/L)	234724.25530	0.99
1/18/2022 13:21:31	2201A78-001C	Fe (238.204 nm)	0.56	51.78518 (mg/L)	468900.84529	0.56
1/18/2022 13:21:31	2201A78-001C	K (766.491 nm)	1.51	20.71456 (mg/L)	23606.46775	1.51
1/18/2022 13:21:31	2201A78-001C	Mg (279.800 nm)	0.50	5.70090 (mg/L)	3682.10776	0.49
1/18/2022 13:21:31	2201A78-001C	Mn (257.610 nm)	0.48	12.33818 (mg/L)	957393.06815	0.48
1/18/2022 13:21:31	2201A78-001C	Mo (204.598 nm)	39.05	0.01334 (mg/L)	11.61749	33.63
1/18/2022 13:21:31	2201A78-001C	Na (589.592 nm)	0.63	1144.20979 o (mg/L)	6119037.27999	0.63
1/18/2022 13:21:31	2201A78-001C	Ni (221.648 nm)	0.93	37.53987 (mg/L)	18472.54382	0.93
1/18/2022 13:21:31	2201A78-001C	P (213.618 nm)	0.42	46.48082 (mg/L)	15751.91345	0.42
1/18/2022 13:21:31	2201A78-001C	Pb (220.353 nm)	4.44	0.14488 (mg/L)	47.77205	4.59
1/18/2022 13:21:31	2201A78-001C	S (181.972 nm)	0.62	14.19750 (mg/L)	405.97396	0.62
1/18/2022 13:21:31	2201A78-001C	Sb (217.582 nm)	0.15	3.72320 (mg/L)	1070.32245	0.15
1/18/2022 13:21:31	2201A78-001C	Se (196.026 nm)	> 100.00	-0.00081 u (mg/L)	2.78317	11.89
1/18/2022 13:21:31	2201A78-001C	Sn (189.925 nm)	0.35	3.83932 (mg/L)	660.94962	0.35
1/18/2022 13:21:31	2201A78-001C	Sr (407.771 nm)	0.27	0.10709 (mg/L)	167907.91186	0.27
1/18/2022 13:21:31	2201A78-001C	Ti (337.280 nm)	1.03	0.36965 (mg/L)	5547.61384	1.03
1/18/2022 13:21:31	2201A78-001C	Tl (351.923 nm)	63.42	-0.01785 u (mg/L)	-34.61662	14.62
1/18/2022 13:21:31	2201A78-001C	V (311.837 nm)	0.69	0.02558 (mg/L)	424.14432	0.68
1/18/2022 13:21:31	2201A78-001C	Zn (206.200 nm)	0.60	10.26278 (mg/L)	5421.82131	0.60
1/18/2022 13:41:32	2201E32-001B	Ag (328.068 nm)	> 100.00	-0.00009 u (mg/L)	-0.76396	> 100.00
1/18/2022 13:41:32	2201E32-001B	Al (308.215 nm)	2.34	0.28431 (mg/L)	881.64757	1.46
1/18/2022 13:41:32	2201E32-001B	As (193.696 nm)	> 100.00	0.00167 u (mg/L)	3.88917	46.86
1/18/2022 13:41:32	2201E32-001B	B (249.772 nm)	0.30	0.04295 (mg/L)	379.98616	0.27
1/18/2022 13:41:32	2201E32-001B	Ba (413.064 nm)	2.84	0.04026 (mg/L)	283.88403	2.31
1/18/2022 13:41:32	2201E32-001B	Be (313.042 nm)	7.13	0.00003 (mg/L)	-224.27795	0.60
1/18/2022 13:41:32	2201E32-001B	Ca (373.690 nm)	0.20	4.37839 (mg/L)	10217.28266	0.21
1/18/2022 13:41:32	2201E32-001B	Cd (228.802 nm)	> 100.00	0.00005 u (mg/L)	9.18635	28.98
1/18/2022 13:41:32	2201E32-001B	Co (230.786 nm)	42.94	0.00191 (mg/L)	7.16626	29.79
1/18/2022 13:41:32	2201E32-001B	Cr (267.716 nm)	71.81	0.00045 (mg/L)	14.19083	24.30
1/18/2022 13:41:32	2201E32-001B	Cu (327.395 nm)	31.13	0.00098 (mg/L)	16.77585	21.97
1/18/2022 13:41:32	2201E32-001B	Fe (238.204 nm)	0.11	1.94561 (mg/L)	17666.38111	0.11
1/18/2022 13:41:32	2201E32-001B	K (766.491 nm)	2.96	1.99993 (mg/L)	2360.71193	2.85
1/18/2022 13:41:32	2201E32-001B	Mg (279.800 nm)	0.34	1.22593 (mg/L)	795.71643	0.34
1/18/2022 13:41:32	2201E32-001B	Mn (257.610 nm)	0.27	0.37892 (mg/L)	29422.16475	0.27
1/18/2022 13:41:32	2201E32-001B	Mo (204.598 nm)	> 100.00	0.00085 u (mg/L)	2.25403	61.99
1/18/2022 13:41:32	2201E32-001B	Na (589.592 nm)	0.66	4.39978 (mg/L)	23456.10374	0.66
1/18/2022 13:41:32	2201E32-001B	Ni (221.648 nm)	23.03	0.00835 (mg/L)	6.67312	14.18
1/18/2022 13:41:32	2201E32-001B	P (213.618 nm)	4.57	0.02156 (mg/L)	9.24884	3.61
1/18/2022 13:41:32	2201E32-001B	Pb (220.353 nm)	29.77	0.00415 (mg/L)	-0.16423	> 100.00
1/18/2022 13:41:32	2201E32-001B	S (181.972 nm)	3.27	0.79185 (mg/L)	23.54890	3.14
1/18/2022 13:41:32	2201E32-001B	Sb (217.582 nm)	> 100.00	0.00514 u (mg/L)	0.39772	> 100.00
1/18/2022 13:41:32	2201E32-001B	Se (196.026 nm)	> 100.00	-0.00885 u (mg/L)	1.58188	> 100.00
1/18/2022 13:41:32	2201E32-001B	Sn (189.925 nm)	> 100.00	-0.00174 u (mg/L)	1.44181	83.20

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 13:41:32	2201E32-001B	Sr (407.771 nm)	0.53	0.03937 (mg/L)	61919.11459	0.53
1/18/2022 13:41:32	2201E32-001B	Ti (337.280 nm)	2.80	0.00973 (mg/L)	156.72683	2.60
1/18/2022 13:41:32	2201E32-001B	Tl (351.923 nm)	63.31	0.00906 (mg/L)	-22.58875	11.35
1/18/2022 13:41:32	2201E32-001B	V (311.837 nm)	63.01	0.00050 (mg/L)	12.49874	41.72
1/18/2022 13:41:32	2201E32-001B	Zn (206.200 nm)	92.97	-0.00093 u (mg/L)	4.61765	9.88
1/18/2022 13:44:36	2201E32-002B	Ag (328.068 nm)	80.35	0.00011 (mg/L)	2.58769	57.06
1/18/2022 13:44:36	2201E32-002B	Al (308.215 nm)	0.67	0.22564 (mg/L)	768.08302	0.38
1/18/2022 13:44:36	2201E32-002B	As (193.696 nm)	49.42	0.00544 (mg/L)	4.52421	10.01
1/18/2022 13:44:36	2201E32-002B	B (249.772 nm)	2.10	0.00821 (mg/L)	99.75023	1.40
1/18/2022 13:44:36	2201E32-002B	Ba (413.064 nm)	1.79	0.04304 (mg/L)	299.84638	1.48
1/18/2022 13:44:36	2201E32-002B	Be (313.042 nm)	1.86	0.00048 (mg/L)	104.89435	6.17
1/18/2022 13:44:36	2201E32-002B	Ca (373.690 nm)	0.19	3.68452 (mg/L)	8585.43550	0.19
1/18/2022 13:44:36	2201E32-002B	Cd (228.802 nm)	> 100.00	-0.00019 u (mg/L)	7.71296	20.85
1/18/2022 13:44:36	2201E32-002B	Co (230.786 nm)	84.94	-0.00039 u (mg/L)	1.16859	74.64
1/18/2022 13:44:36	2201E32-002B	Cr (267.716 nm)	> 100.00	0.00014 u (mg/L)	10.85547	23.68
1/18/2022 13:44:36	2201E32-002B	Cu (327.395 nm)	83.58	0.00044 (mg/L)	10.26903	43.42
1/18/2022 13:44:36	2201E32-002B	Fe (238.204 nm)	0.13	0.70478 (mg/L)	6432.22575	0.13
1/18/2022 13:44:36	2201E32-002B	K (766.491 nm)	1.68	1.82098 (mg/L)	2157.56202	1.61
1/18/2022 13:44:36	2201E32-002B	Mg (279.800 nm)	0.13	1.41429 (mg/L)	917.20894	0.13
1/18/2022 13:44:36	2201E32-002B	Mn (257.610 nm)	0.25	0.10471 (mg/L)	8144.67250	0.25
1/18/2022 13:44:36	2201E32-002B	Mo (204.598 nm)	> 100.00	0.00043 u (mg/L)	1.93275	18.62
1/18/2022 13:44:36	2201E32-002B	Na (589.592 nm)	0.11	4.53727 (mg/L)	24191.40050	0.11
1/18/2022 13:44:36	2201E32-002B	Ni (221.648 nm)	82.89	0.00808 (mg/L)	6.53991	50.40
1/18/2022 13:44:36	2201E32-002B	P (213.618 nm)	51.77	0.01389 (mg/L)	6.65034	36.63
1/18/2022 13:44:36	2201E32-002B	Pb (220.353 nm)	39.44	-0.00203 u (mg/L)	-2.26904	12.04
1/18/2022 13:44:36	2201E32-002B	S (181.972 nm)	2.69	0.63624 (mg/L)	19.10981	2.55
1/18/2022 13:44:36	2201E32-002B	Sb (217.582 nm)	> 100.00	0.00025 u (mg/L)	-1.01040	> 100.00
1/18/2022 13:44:36	2201E32-002B	Se (196.026 nm)	> 100.00	0.00812 (mg/L)	4.11812	38.96
1/18/2022 13:44:36	2201E32-002B	Sn (189.925 nm)	91.17	-0.00250 u (mg/L)	1.31135	29.81
1/18/2022 13:44:36	2201E32-002B	Sr (407.771 nm)	0.31	0.03284 (mg/L)	51696.03887	0.31
1/18/2022 13:44:36	2201E32-002B	Ti (337.280 nm)	2.15	0.00607 (mg/L)	102.03349	1.91
1/18/2022 13:44:36	2201E32-002B	Tl (351.923 nm)	> 100.00	0.00035 u (mg/L)	-26.48232	6.57
1/18/2022 13:44:36	2201E32-002B	V (311.837 nm)	37.30	0.00037 (mg/L)	10.27456	21.97
1/18/2022 13:44:36	2201E32-002B	Zn (206.200 nm)	> 100.00	0.00106 u (mg/L)	5.67028	23.43
1/18/2022 13:47:40	2201E33-001B	Ag (328.068 nm)	49.21	0.00002 (mg/L)	1.05127	14.10
1/18/2022 13:47:40	2201E33-001B	Al (308.215 nm)	0.19	0.76122 (mg/L)	1804.83647	0.16
1/18/2022 13:47:40	2201E33-001B	As (193.696 nm)	> 100.00	-0.00673 u (mg/L)	2.47485	61.96
1/18/2022 13:47:40	2201E33-001B	B (249.772 nm)	0.27	0.00615 (mg/L)	83.14741	0.16
1/18/2022 13:47:40	2201E33-001B	Ba (413.064 nm)	1.69	0.06031 (mg/L)	398.88727	1.46
1/18/2022 13:47:40	2201E33-001B	Be (313.042 nm)	6.30	0.00006 (mg/L)	-197.17412	1.47
1/18/2022 13:47:40	2201E33-001B	Ca (373.690 nm)	0.45	11.02954 (mg/L)	25859.44385	0.45
1/18/2022 13:47:40	2201E33-001B	Cd (228.802 nm)	> 100.00	0.00005 u (mg/L)	9.17805	27.99
1/18/2022 13:47:40	2201E33-001B	Co (230.786 nm)	> 100.00	0.00023 u (mg/L)	2.79910	62.63
1/18/2022 13:47:40	2201E33-001B	Cr (267.716 nm)	42.50	0.00063 (mg/L)	16.06142	17.66
1/18/2022 13:47:40	2201E33-001B	Cu (327.395 nm)	> 100.00	0.00022 u (mg/L)	7.57024	52.93
1/18/2022 13:47:40	2201E33-001B	Fe (238.204 nm)	0.63	1.30459 (mg/L)	11862.76821	0.63
1/18/2022 13:47:40	2201E33-001B	K (766.491 nm)	0.45	2.22844 (mg/L)	2620.12540	0.43
1/18/2022 13:47:40	2201E33-001B	Mg (279.800 nm)	0.65	1.86834 (mg/L)	1210.07314	0.65

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 13:47:40	2201E33-001B	Mn (257.610 nm)	0.50	0.13248 (mg/L)	10299.10829	0.50
1/18/2022 13:47:40	2201E33-001B	Mo (204.598 nm)	> 100.00	-0.00014 u (mg/L)	1.51013	> 100.00
1/18/2022 13:47:40	2201E33-001B	Na (589.592 nm)	0.60	5.69850 (mg/L)	30401.56103	0.60
1/18/2022 13:47:40	2201E33-001B	Ni (221.648 nm)	56.09	0.01092 (mg/L)	7.93423	37.97
1/18/2022 13:47:40	2201E33-001B	P (213.618 nm)	8.20	0.06110 (mg/L)	22.64757	7.49
1/18/2022 13:47:40	2201E33-001B	Pb (220.353 nm)	> 100.00	-0.00142 u (mg/L)	-2.06111	41.50
1/18/2022 13:47:40	2201E33-001B	S (181.972 nm)	0.83	3.94805 (mg/L)	113.58628	0.82
1/18/2022 13:47:40	2201E33-001B	Sb (217.582 nm)	> 100.00	0.00771 (mg/L)	1.13709	> 100.00
1/18/2022 13:47:40	2201E33-001B	Se (196.026 nm)	> 100.00	0.00270 u (mg/L)	3.30808	62.45
1/18/2022 13:47:40	2201E33-001B	Sn (189.925 nm)	> 100.00	0.00366 u (mg/L)	2.36772	33.66
1/18/2022 13:47:40	2201E33-001B	Sr (407.771 nm)	0.27	0.14205 (mg/L)	222614.87817	0.27
1/18/2022 13:47:40	2201E33-001B	Ti (337.280 nm)	1.01	0.03726 (mg/L)	569.13425	0.99
1/18/2022 13:47:40	2201E33-001B	Tl (351.923 nm)	> 100.00	0.00241 u (mg/L)	-25.55995	17.76
1/18/2022 13:47:40	2201E33-001B	V (311.837 nm)	33.98	0.00154 (mg/L)	29.56840	29.13
1/18/2022 13:47:40	2201E33-001B	Zn (206.200 nm)	15.54	0.01027 (mg/L)	10.52659	8.00
1/18/2022 13:50:44	2201801-037A/100x	Ag (328.068 nm)	38.54	0.00012 (mg/L)	2.79940	28.21
1/18/2022 13:50:44	2201801-037A/100x	Al (308.215 nm)	24.75	0.00501 (mg/L)	340.99194	0.70
1/18/2022 13:50:44	2201801-037A/100x	As (193.696 nm)	> 100.00	-0.00655 u (mg/L)	2.50595	53.04
1/18/2022 13:50:44	2201801-037A/100x	B (249.772 nm)	78.22	0.00041 (mg/L)	36.79404	6.96
1/18/2022 13:50:44	2201801-037A/100x	Ba (413.064 nm)	12.87	0.01239 (mg/L)	124.01020	7.37
1/18/2022 13:50:44	2201801-037A/100x	Be (313.042 nm)	3.20	0.00045 (mg/L)	79.19590	13.01
1/18/2022 13:50:44	2201801-037A/100x	Ca (373.690 nm)	3.05	0.05046 (mg/L)	38.87501	9.30
1/18/2022 13:50:44	2201801-037A/100x	Cd (228.802 nm)	66.53	-0.00032 u (mg/L)	6.93344	18.66
1/18/2022 13:50:44	2201801-037A/100x	Co (230.786 nm)	55.24	0.00056 (mg/L)	3.66289	22.13
1/18/2022 13:50:44	2201801-037A/100x	Cr (267.716 nm)	44.33	0.00056 (mg/L)	15.25783	17.05
1/18/2022 13:50:44	2201801-037A/100x	Cu (327.395 nm)	> 100.00	-0.00003 u (mg/L)	4.59351	43.42
1/18/2022 13:50:44	2201801-037A/100x	Fe (238.204 nm)	5.42	0.00143 (mg/L)	64.27691	1.09
1/18/2022 13:50:44	2201801-037A/100x	K (766.491 nm)	13.22	0.06618 (mg/L)	165.43272	6.00
1/18/2022 13:50:44	2201801-037A/100x	Mg (279.800 nm)	> 100.00	-0.00035 u (mg/L)	4.75154	11.44
1/18/2022 13:50:44	2201801-037A/100x	Mn (257.610 nm)	> 100.00	0.00003 u (mg/L)	22.39222	19.76
1/18/2022 13:50:44	2201801-037A/100x	Mo (204.598 nm)	> 100.00	0.00034 u (mg/L)	1.86538	80.81
1/18/2022 13:50:44	2201801-037A/100x	Na (589.592 nm)	3.18	0.13483 (mg/L)	647.64613	3.55
1/18/2022 13:50:44	2201801-037A/100x	Ni (221.648 nm)	76.15	-0.00251 u (mg/L)	1.33085	70.55
1/18/2022 13:50:44	2201801-037A/100x	P (213.618 nm)	63.50	-0.00249 u (mg/L)	1.10175	48.59
1/18/2022 13:50:44	2201801-037A/100x	Pb (220.353 nm)	13.17	1.44474 (mg/L)	490.53543	13.21
1/18/2022 13:50:44	2201801-037A/100x	S (181.972 nm)	> 100.00	0.02258 u (mg/L)	1.60377	58.99
1/18/2022 13:50:44	2201801-037A/100x	Sb (217.582 nm)	20.90	0.01055 (mg/L)	1.95449	32.48
1/18/2022 13:50:44	2201801-037A/100x	Se (196.026 nm)	> 100.00	-0.00478 u (mg/L)	2.18932	59.03
1/18/2022 13:50:44	2201801-037A/100x	Sn (189.925 nm)	28.39	-0.01053 u (mg/L)	-0.06733	> 100.00
1/18/2022 13:50:44	2201801-037A/100x	Sr (407.771 nm)	9.34	0.00008 (mg/L)	431.59972	2.77
1/18/2022 13:50:44	2201801-037A/100x	Ti (337.280 nm)	> 100.00	-0.00002 u (mg/L)	10.67463	31.30
1/18/2022 13:50:44	2201801-037A/100x	Tl (351.923 nm)	> 100.00	-0.01644 u (mg/L)	-33.98800	29.90
1/18/2022 13:50:44	2201801-037A/100x	V (311.837 nm)	> 100.00	0.00004 u (mg/L)	4.89473	34.57
1/18/2022 13:50:44	2201801-037A/100x	Zn (206.200 nm)	9.95	0.00771 (mg/L)	9.17631	4.41
1/18/2022 13:53:48	2201E33-002B	Ag (328.068 nm)	72.97	0.00016 (mg/L)	3.48637	57.27
1/18/2022 13:53:48	2201E33-002B	Al (308.215 nm)	0.53	0.22819 (mg/L)	773.01741	0.30
1/18/2022 13:53:48	2201E33-002B	As (193.696 nm)	> 100.00	0.00038 u (mg/L)	3.67209	27.97
1/18/2022 13:53:48	2201E33-002B	B (249.772 nm)	6.96	0.00567 (mg/L)	79.24576	4.02

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 13:53:48	2201E33-002B	Ba (413.064 nm)	2.94	0.05339 (mg/L)	359.23147	2.51
1/18/2022 13:53:48	2201E33-002B	Be (313.042 nm)	0.61	0.00056 (mg/L)	160.12016	1.53
1/18/2022 13:53:48	2201E33-002B	Ca (373.690 nm)	0.58	6.54866 (mg/L)	15321.32204	0.58
1/18/2022 13:53:48	2201E33-002B	Cd (228.802 nm)	27.32	-0.00058 u (mg/L)	5.34731	18.04
1/18/2022 13:53:48	2201E33-002B	Co (230.786 nm)	> 100.00	-0.00023 u (mg/L)	1.60814	44.81
1/18/2022 13:53:48	2201E33-002B	Cr (267.716 nm)	39.85	0.00049 (mg/L)	14.58198	14.20
1/18/2022 13:53:48	2201E33-002B	Cu (327.395 nm)	81.13	0.00049 (mg/L)	10.88980	44.37
1/18/2022 13:53:48	2201E33-002B	Fe (238.204 nm)	0.58	0.98171 (mg/L)	8939.46848	0.57
1/18/2022 13:53:48	2201E33-002B	K (766.491 nm)	1.21	1.46989 (mg/L)	1758.98626	1.15
1/18/2022 13:53:48	2201E33-002B	Mg (279.800 nm)	0.88	1.45639 (mg/L)	944.36720	0.87
1/18/2022 13:53:48	2201E33-002B	Mn (257.610 nm)	0.47	0.11038 (mg/L)	8584.82625	0.47
1/18/2022 13:53:48	2201E33-002B	Mo (204.598 nm)	41.61	0.00266 (mg/L)	3.60527	22.99
1/18/2022 13:53:48	2201E33-002B	Na (589.592 nm)	0.27	5.31729 (mg/L)	28362.87589	0.27
1/18/2022 13:53:48	2201E33-002B	Ni (221.648 nm)	30.98	0.01122 (mg/L)	8.08303	21.15
1/18/2022 13:53:48	2201E33-002B	P (213.618 nm)	12.65	0.02145 (mg/L)	9.21336	9.98
1/18/2022 13:53:48	2201E33-002B	Pb (220.353 nm)	> 100.00	0.00320 u (mg/L)	-0.48763	> 100.00
1/18/2022 13:53:48	2201E33-002B	S (181.972 nm)	10.38	0.84987 (mg/L)	25.20392	9.98
1/18/2022 13:53:48	2201E33-002B	Sb (217.582 nm)	> 100.00	0.00002 u (mg/L)	-1.07723	> 100.00
1/18/2022 13:53:48	2201E33-002B	Se (196.026 nm)	> 100.00	0.00127 u (mg/L)	3.09409	33.48
1/18/2022 13:53:48	2201E33-002B	Sn (189.925 nm)	> 100.00	-0.00106 u (mg/L)	1.55894	61.64
1/18/2022 13:53:48	2201E33-002B	Sr (407.771 nm)	1.07	0.04689 (mg/L)	73692.78512	1.07
1/18/2022 13:53:48	2201E33-002B	Ti (337.280 nm)	2.00	0.00516 (mg/L)	88.33331	1.75
1/18/2022 13:53:48	2201E33-002B	Tl (351.923 nm)	> 100.00	-0.00522 u (mg/L)	-28.97121	13.36
1/18/2022 13:53:48	2201E33-002B	V (311.837 nm)	7.00	0.00067 (mg/L)	15.18505	5.05
1/18/2022 13:53:48	2201E33-002B	Zn (206.200 nm)	21.90	0.00565 (mg/L)	8.08993	8.07
1/18/2022 13:56:53	2201F55-003A	Ag (328.068 nm)	> 100.00	0.00009 u (mg/L)	2.36848	83.11
1/18/2022 13:56:53	2201F55-003A	Al (308.215 nm)	4.44	0.21071 (mg/L)	739.17646	2.45
1/18/2022 13:56:53	2201F55-003A	As (193.696 nm)	> 100.00	0.00918 u (mg/L)	5.15293	51.31
1/18/2022 13:56:53	2201F55-003A	B (249.772 nm)	0.52	0.07246 (mg/L)	618.03881	0.49
1/18/2022 13:56:53	2201F55-003A	Ba (413.064 nm)	4.95	0.01730 (mg/L)	152.16063	3.23
1/18/2022 13:56:53	2201F55-003A	Be (313.042 nm)	2.66	0.00051 (mg/L)	124.36348	7.85
1/18/2022 13:56:53	2201F55-003A	Ca (373.690 nm)	0.42	7.14643 (mg/L)	16727.14711	0.42
1/18/2022 13:56:53	2201F55-003A	Cd (228.802 nm)	81.32	-0.00011 u (mg/L)	8.21332	6.58
1/18/2022 13:56:53	2201F55-003A	Co (230.786 nm)	> 100.00	0.00020 u (mg/L)	2.70975	35.36
1/18/2022 13:56:53	2201F55-003A	Cr (267.716 nm)	26.88	0.00105 (mg/L)	20.47481	14.55
1/18/2022 13:56:53	2201F55-003A	Cu (327.395 nm)	37.80	0.00105 (mg/L)	17.66939	27.24
1/18/2022 13:56:53	2201F55-003A	Fe (238.204 nm)	1.51	1.28749 (mg/L)	11707.88089	1.50
1/18/2022 13:56:53	2201F55-003A	K (766.491 nm)	0.02	4.07967 (mg/L)	4721.73373	0.02
1/18/2022 13:56:53	2201F55-003A	Mg (279.800 nm)	0.15	1.76249 (mg/L)	1141.80025	0.15
1/18/2022 13:56:53	2201F55-003A	Mn (257.610 nm)	0.36	0.09201 (mg/L)	7159.09786	0.36
1/18/2022 13:56:53	2201F55-003A	Mo (204.598 nm)	8.76	0.02045 (mg/L)	16.94946	7.93
1/18/2022 13:56:53	2201F55-003A	Na (589.592 nm)	0.19	37.39128 (mg/L)	199891.11177	0.19
1/18/2022 13:56:53	2201F55-003A	Ni (221.648 nm)	31.20	0.01156 (mg/L)	8.25183	21.51
1/18/2022 13:56:53	2201F55-003A	P (213.618 nm)	0.18	3.24459 (mg/L)	1101.36870	0.18
1/18/2022 13:56:53	2201F55-003A	Pb (220.353 nm)	> 100.00	0.00172 u (mg/L)	-0.99170	> 100.00
1/18/2022 13:56:53	2201F55-003A	S (181.972 nm)	0.67	11.60559 (mg/L)	332.03392	0.67
1/18/2022 13:56:53	2201F55-003A	Sb (217.582 nm)	76.06	-0.00309 u (mg/L)	-1.97086	34.30
1/18/2022 13:56:53	2201F55-003A	Se (196.026 nm)	> 100.00	-0.00032 u (mg/L)	2.85572	32.84

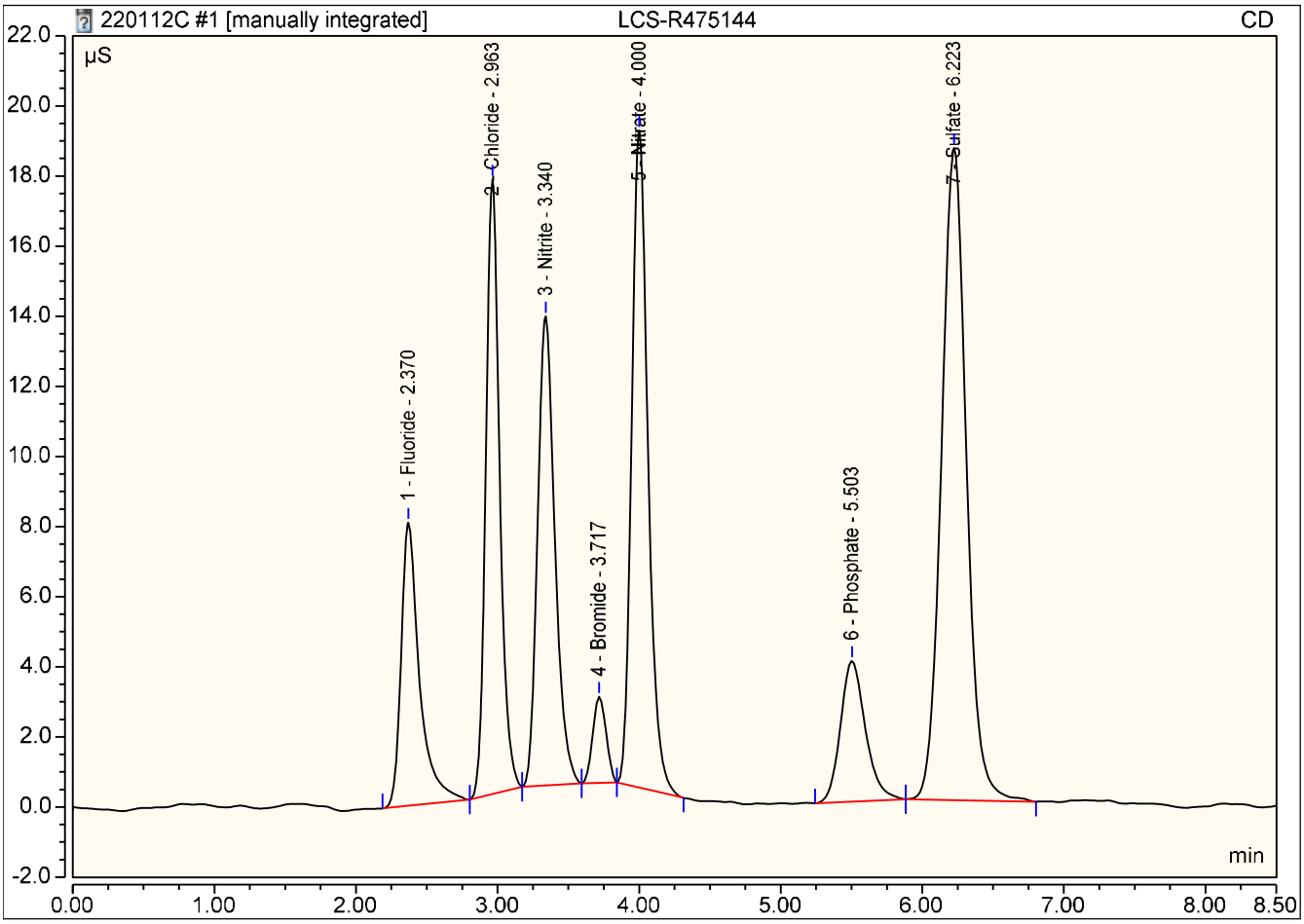
Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 13:56:53	2201F55-003A	Sn (189.925 nm)	8.31	-0.00950 u (mg/L)	0.10928	> 100.00
1/18/2022 13:56:53	2201F55-003A	Sr (407.771 nm)	0.75	0.03795 (mg/L)	59700.02177	0.74
1/18/2022 13:56:53	2201F55-003A	Ti (337.280 nm)	5.18	0.00690 (mg/L)	114.43464	4.68
1/18/2022 13:56:53	2201F55-003A	Tl (351.923 nm)	57.89	-0.01198 u (mg/L)	-31.99407	9.69
1/18/2022 13:56:53	2201F55-003A	V (311.837 nm)	14.48	0.00061 (mg/L)	14.20173	10.17
1/18/2022 13:56:53	2201F55-003A	Zn (206.200 nm)	5.01	0.02123 (mg/L)	16.31235	3.44
1/18/2022 13:59:59	Cont Calib Verif	Ag (328.068 nm)	0.38	0.09882 (mg/L)	1723.06746	0.38
1/18/2022 13:59:59	Cont Calib Verif	Al (308.215 nm)	0.48	10.06111 (mg/L)	19807.27319	0.47
1/18/2022 13:59:59	Cont Calib Verif	As (193.696 nm)	0.17	0.98747 (mg/L)	169.84127	0.17
1/18/2022 13:59:59	Cont Calib Verif	B (249.772 nm)	0.31	0.98249 (mg/L)	7958.72228	0.31
1/18/2022 13:59:59	Cont Calib Verif	Ba (413.064 nm)	0.67	1.01142 (mg/L)	5855.19046	0.67
1/18/2022 13:59:59	Cont Calib Verif	Be (313.042 nm)	0.63	1.00634 (mg/L)	728658.86278	0.63
1/18/2022 13:59:59	Cont Calib Verif	Ca (373.690 nm)	0.38	10.05938 (mg/L)	23577.83068	0.38
1/18/2022 13:59:59	Cont Calib Verif	Cd (228.802 nm)	0.39	1.00121 (mg/L)	6138.76594	0.39
1/18/2022 13:59:59	Cont Calib Verif	Co (230.786 nm)	0.88	1.01855 (mg/L)	2654.66734	0.88
1/18/2022 13:59:59	Cont Calib Verif	Cr (267.716 nm)	0.47	1.01530 (mg/L)	10726.34768	0.47
1/18/2022 13:59:59	Cont Calib Verif	Cu (327.395 nm)	0.46	0.98138 (mg/L)	11856.72259	0.46
1/18/2022 13:59:59	Cont Calib Verif	Fe (238.204 nm)	0.49	10.16758 (mg/L)	92105.95653	0.49
1/18/2022 13:59:59	Cont Calib Verif	K (766.491 nm)	0.41	9.95302 (mg/L)	11389.44159	0.40
1/18/2022 13:59:59	Cont Calib Verif	Mg (279.800 nm)	0.28	10.05486 (mg/L)	6490.45110	0.28
1/18/2022 13:59:59	Cont Calib Verif	Mn (257.610 nm)	0.14	1.01608 (mg/L)	78861.83372	0.14
1/18/2022 13:59:59	Cont Calib Verif	Mo (204.598 nm)	0.45	1.01286 (mg/L)	761.06192	0.45
1/18/2022 13:59:59	Cont Calib Verif	Na (589.592 nm)	0.16	9.95215 (mg/L)	53149.59740	0.16
1/18/2022 13:59:59	Cont Calib Verif	Ni (221.648 nm)	0.53	1.02466 (mg/L)	506.70841	0.53
1/18/2022 13:59:59	Cont Calib Verif	P (213.618 nm)	0.55	0.99927 (mg/L)	340.54693	0.54
1/18/2022 13:59:59	Cont Calib Verif	Pb (220.353 nm)	0.95	1.02425 (mg/L)	347.30830	0.95
1/18/2022 13:59:59	Cont Calib Verif	S (181.972 nm)	0.63	1.01915 (mg/L)	30.03307	0.61
1/18/2022 13:59:59	Cont Calib Verif	Sb (217.582 nm)	0.62	1.00254 (mg/L)	287.41240	0.62
1/18/2022 13:59:59	Cont Calib Verif	Se (196.026 nm)	1.35	1.02645 (mg/L)	156.33857	1.32
1/18/2022 13:59:59	Cont Calib Verif	Sn (189.925 nm)	0.72	1.03154 (mg/L)	178.85593	0.71
1/18/2022 13:59:59	Cont Calib Verif	Sr (407.771 nm)	0.66	1.04076 (mg/L)	1629173.65159	0.66
1/18/2022 13:59:59	Cont Calib Verif	Ti (337.280 nm)	0.50	0.99664 (mg/L)	14938.41464	0.50
1/18/2022 13:59:59	Cont Calib Verif	Tl (351.923 nm)	3.00	1.00598 (mg/L)	423.05562	3.18
1/18/2022 13:59:59	Cont Calib Verif	V (311.837 nm)	0.48	0.99930 (mg/L)	16406.40762	0.48
1/18/2022 13:59:59	Cont Calib Verif	Zn (206.200 nm)	0.63	1.01255 (mg/L)	539.53243	0.62
1/18/2022 14:03:07	Cont Calib Blank	Ag (328.068 nm)	> 100.00	0.00006 (mg/L)	1.82977	80.88
1/18/2022 14:03:07	Cont Calib Blank	Al (308.215 nm)	34.82	0.00305 (mg/L)	337.19879	0.61
1/18/2022 14:03:07	Cont Calib Blank	As (193.696 nm)	> 100.00	0.00165 u (mg/L)	3.88545	40.76
1/18/2022 14:03:07	Cont Calib Blank	B (249.772 nm)	48.98	0.00079 (mg/L)	39.89566	7.82
1/18/2022 14:03:07	Cont Calib Blank	Ba (413.064 nm)	68.27	0.00071 (mg/L)	56.98040	4.86
1/18/2022 14:03:07	Cont Calib Blank	Be (313.042 nm)	0.85	0.00068 (mg/L)	251.69792	1.67
1/18/2022 14:03:07	Cont Calib Blank	Ca (373.690 nm)	6.24	0.03756 (mg/L)	8.52538	64.68
1/18/2022 14:03:07	Cont Calib Blank	Cd (228.802 nm)	42.42	-0.00058 u (mg/L)	5.31222	28.48
1/18/2022 14:03:07	Cont Calib Blank	Co (230.786 nm)	> 100.00	0.00003 u (mg/L)	2.27194	31.31
1/18/2022 14:03:07	Cont Calib Blank	Cr (267.716 nm)	> 100.00	0.00014 u (mg/L)	10.89919	24.47
1/18/2022 14:03:07	Cont Calib Blank	Cu (327.395 nm)	> 100.00	-0.00004 u (mg/L)	4.42157	33.26
1/18/2022 14:03:07	Cont Calib Blank	Fe (238.204 nm)	14.55	0.00190 (mg/L)	68.54737	3.66
1/18/2022 14:03:07	Cont Calib Blank	K (766.491 nm)	26.53	0.06112 (mg/L)	159.68257	11.53

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
1/18/2022 14:03:07	Cont Calib Blank	Mg (279.800 nm)	71.42	0.00133 (mg/L)	5.84008	10.52
1/18/2022 14:03:07	Cont Calib Blank	Mn (257.610 nm)	59.72	0.00007 (mg/L)	25.39871	13.29
1/18/2022 14:03:07	Cont Calib Blank	Mo (204.598 nm)	> 100.00	0.00083 u (mg/L)	2.23604	82.07
1/18/2022 14:03:07	Cont Calib Blank	Na (589.592 nm)	1.33	0.10647 (mg/L)	495.95849	1.52
1/18/2022 14:03:07	Cont Calib Blank	Ni (221.648 nm)	> 100.00	0.00077 u (mg/L)	2.94310	26.28
1/18/2022 14:03:07	Cont Calib Blank	P (213.618 nm)	41.05	0.00130 (mg/L)	2.38552	7.59
1/18/2022 14:03:07	Cont Calib Blank	Pb (220.353 nm)	20.43	-0.00380 u (mg/L)	-2.87207	9.22
1/18/2022 14:03:07	Cont Calib Blank	S (181.972 nm)	59.78	0.00345 (mg/L)	1.05799	5.56
1/18/2022 14:03:07	Cont Calib Blank	Sb (217.582 nm)	> 100.00	0.00101 u (mg/L)	-0.79089	> 100.00
1/18/2022 14:03:07	Cont Calib Blank	Se (196.026 nm)	92.28	0.00632 u (mg/L)	3.84826	22.64
1/18/2022 14:03:07	Cont Calib Blank	Sn (189.925 nm)	89.04	0.00427 (mg/L)	2.47267	26.38
1/18/2022 14:03:07	Cont Calib Blank	Sr (407.771 nm)	12.89	0.00005 (mg/L)	386.63565	2.78
1/18/2022 14:03:07	Cont Calib Blank	Ti (337.280 nm)	56.95	0.00056 (mg/L)	19.41733	24.55
1/18/2022 14:03:07	Cont Calib Blank	Tl (351.923 nm)	> 100.00	-0.00112 u (mg/L)	-27.13802	10.06
1/18/2022 14:03:07	Cont Calib Blank	V (311.837 nm)	> 100.00	-0.00005 u (mg/L)	3.33735	78.17
1/18/2022 14:03:07	Cont Calib Blank	Zn (206.200 nm)	92.40	-0.00219 u (mg/L)	3.95099	27.07
1/18/2022 14:06:13	2201F89-001B	Ag (328.068 nm)	> 100.00	-0.00002 u (mg/L)	0.44812	> 100.00
1/18/2022 14:06:13	2201F89-001B	Al (308.215 nm)	2.84	0.10996 (mg/L)	544.15528	1.11
1/18/2022 14:06:13	2201F89-001B	As (193.696 nm)	> 100.00	-0.00613 u (mg/L)	2.57651	50.71
1/18/2022 14:06:13	2201F89-001B	B (249.772 nm)	4.84	0.00960 (mg/L)	110.97844	3.38
1/18/2022 14:06:13	2201F89-001B	Ba (413.064 nm)	2.35	0.03534 (mg/L)	255.63846	1.86
1/18/2022 14:06:13	2201F89-001B	Be (313.042 nm)	28.66	0.00002 (mg/L)	-231.89581	1.39
1/18/2022 14:06:13	2201F89-001B	Ca (373.690 nm)	0.35	7.73651 (mg/L)	18114.91078	0.35
1/18/2022 14:06:13	2201F89-001B	Cd (228.802 nm)	> 100.00	-0.00012 u (mg/L)	8.14176	20.76
1/18/2022 14:06:13	2201F89-001B	Co (230.786 nm)	> 100.00	-0.00021 u (mg/L)	1.64488	69.53
1/18/2022 14:06:13	2201F89-001B	Cr (267.716 nm)	37.36	-0.00027 u (mg/L)	6.54636	16.22
1/18/2022 14:06:13	2201F89-001B	Cu (327.395 nm)	96.97	0.00035 (mg/L)	9.10456	44.42
1/18/2022 14:06:13	2201F89-001B	Fe (238.204 nm)	0.40	0.68743 (mg/L)	6275.08831	0.40
1/18/2022 14:06:13	2201F89-001B	K (766.491 nm)	0.31	2.08694 (mg/L)	2459.49571	0.29
1/18/2022 14:06:13	2201F89-001B	Mg (279.800 nm)	0.24	2.84742 (mg/L)	1841.58829	0.24
1/18/2022 14:06:13	2201F89-001B	Mn (257.610 nm)	0.36	0.16772 (mg/L)	13034.05122	0.36
1/18/2022 14:06:13	2201F89-001B	Mo (204.598 nm)	> 100.00	0.00075 u (mg/L)	2.17216	38.95
1/18/2022 14:06:13	2201F89-001B	Na (589.592 nm)	0.22	5.64299 (mg/L)	30104.70136	0.22
1/18/2022 14:06:13	2201F89-001B	Ni (221.648 nm)	57.18	0.00479 (mg/L)	4.92098	27.39
1/18/2022 14:06:13	2201F89-001B	P (213.618 nm)	40.78	0.00662 (mg/L)	4.18796	21.84
1/18/2022 14:06:13	2201F89-001B	Pb (220.353 nm)	20.37	-0.00502 u (mg/L)	-3.28622	10.60
1/18/2022 14:06:13	2201F89-001B	S (181.972 nm)	2.06	1.67921 (mg/L)	48.86276	2.02
1/18/2022 14:06:13	2201F89-001B	Sb (217.582 nm)	> 100.00	0.00276 u (mg/L)	-0.28919	> 100.00
1/18/2022 14:06:13	2201F89-001B	Se (196.026 nm)	> 100.00	0.00080 u (mg/L)	3.02390	26.62
1/18/2022 14:06:13	2201F89-001B	Sn (189.925 nm)	> 100.00	0.00099 u (mg/L)	1.91092	31.43
1/18/2022 14:06:13	2201F89-001B	Sr (407.771 nm)	0.86	0.05519 (mg/L)	86672.89294	0.86
1/18/2022 14:06:13	2201F89-001B	Ti (337.280 nm)	6.90	0.00498 (mg/L)	85.58565	6.01
1/18/2022 14:06:13	2201F89-001B	Tl (351.923 nm)	> 100.00	-0.00437 u (mg/L)	-28.59169	18.21
1/18/2022 14:06:13	2201F89-001B	V (311.837 nm)	> 100.00	0.00012 u (mg/L)	6.27139	48.53
1/18/2022 14:06:13	2201F89-001B	Zn (206.200 nm)	> 100.00	0.00041 u (mg/L)	5.32557	28.34
1/18/2022 14:09:18	2201801-051A/25x	Ag (328.068 nm)	34.69	0.00043 (mg/L)	8.19646	31.51
1/18/2022 14:09:18	2201801-051A/25x	Al (308.215 nm)	21.48	0.00305 (mg/L)	337.20493	0.38
1/18/2022 14:09:18	2201801-051A/25x	As (193.696 nm)	> 100.00	-0.00235 u (mg/L)	3.21250	55.03

Peak Integration Report

Sample Name:	**LCS-R475144**	*Inj. Vol.:*	**5.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**300_9056 .25 FLOW**	*Operator:*	**Chemist**
Inj. Date / Time:	**12-Jan-2022 / 20:34**	*Run Time:*	**8.50**

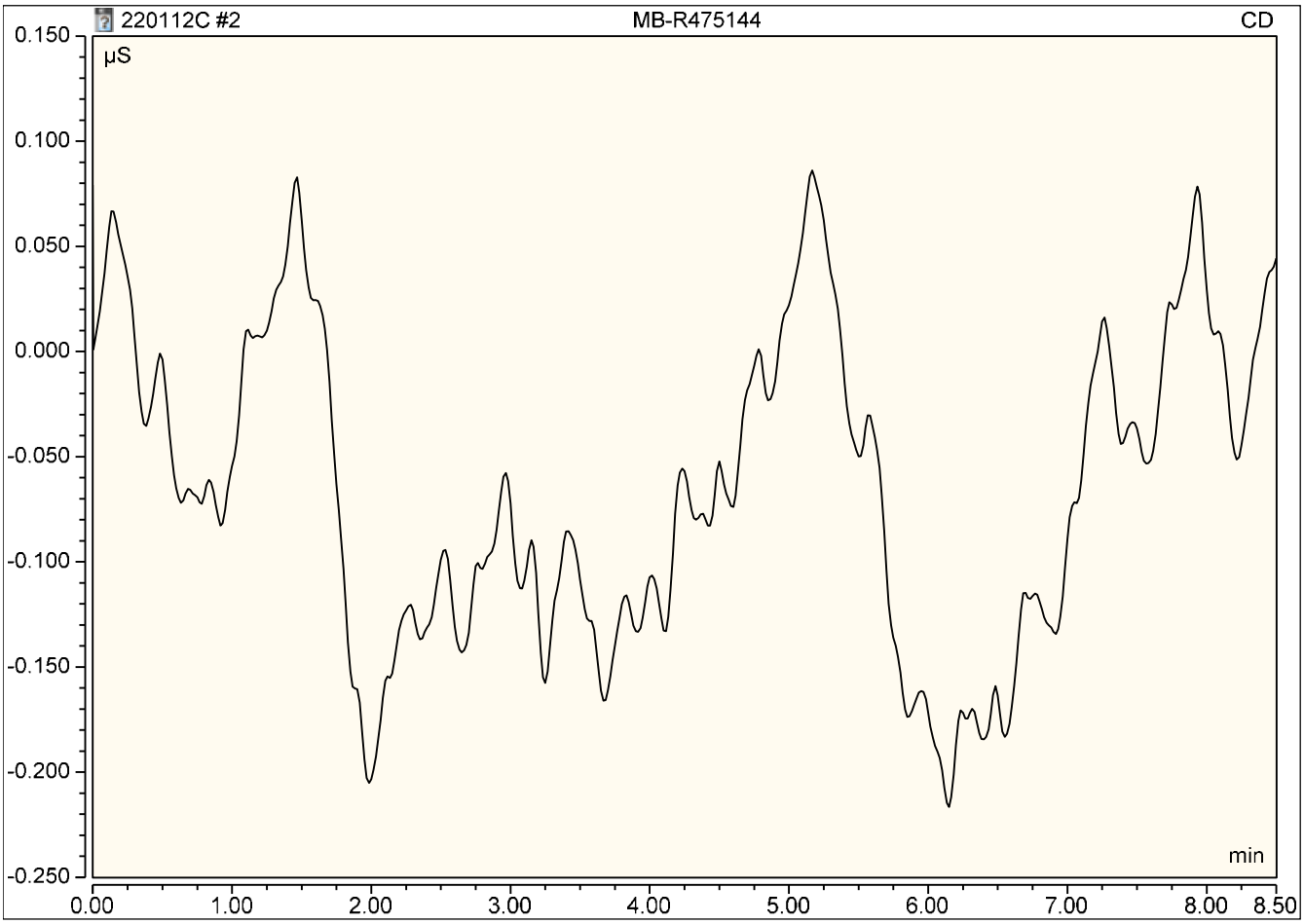
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.37	**Fluoride**	BMb*	1.207	8.081	5.3547
2	2.96	**Chloride**	bMB*	1.985	17.526	9.5110
3	3.34	**Nitrite**	BMB	1.891	13.379	4.7911
4	3.72	**Bromide**	BMB	0.269	2.460	4.0748
5	4.00	**Nitrate**	BMB	2.492	18.745	4.8839
6	5.50	**Phosphate**	BMB	0.819	4.012	5.4158
7	6.22	**Sulfate**	BMB	3.785	18.599	23.7693
TOTAL:				12.45	82.80	57.80



Peak Integration Report

Sample Name:	**MB-R475144**	*Inj. Vol.:*	**5.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**300_9056 .25 FLOW**	*Operator:*	**Chemist**
Inj. Date / Time:	**12-Jan-2022 / 20:45**	*Run Time:*	**8.50**

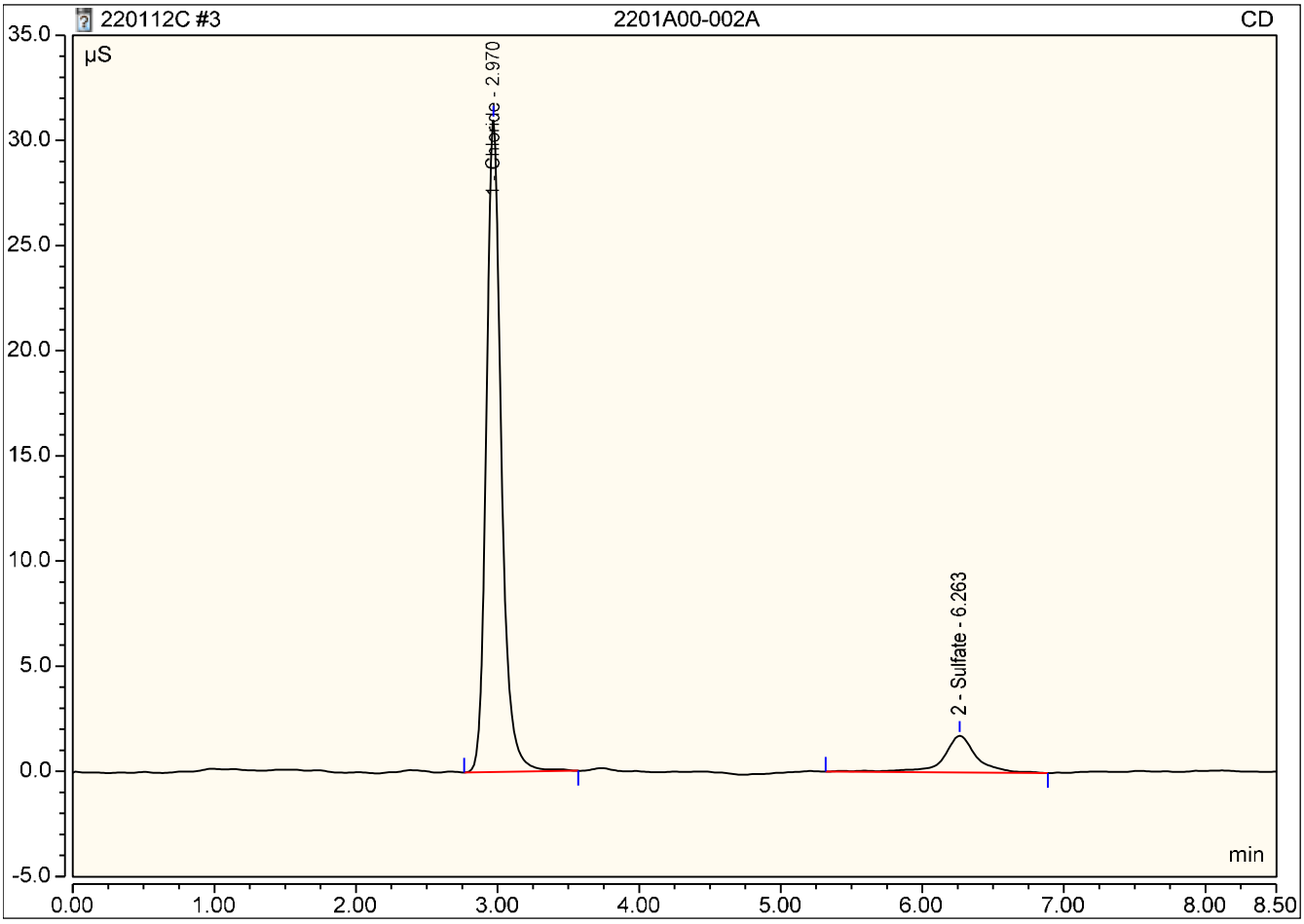
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount n.a.
TOTAL:				0.00	0.00	0.00



Peak Integration Report

Sample Name:	**2201A00-002A**	*Inj. Vol.:*	**5.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**300_9056 .25 FLOW**	*Operator:*	**Chemist**
Inj. Date / Time:	**12-Jan-2022 / 21:28**	*Run Time:*	**8.50**

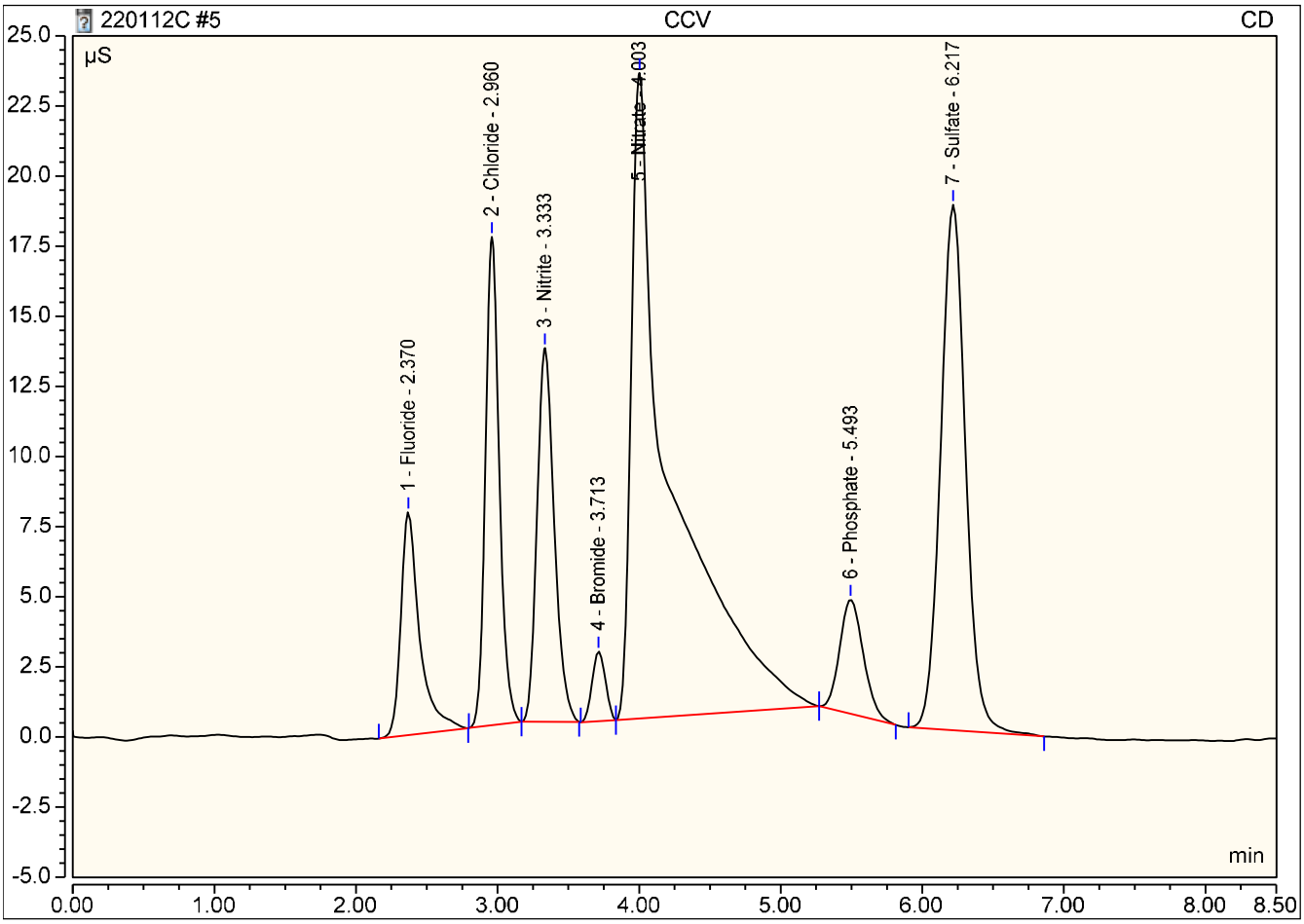
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.97	**Chloride**	BMB	3.813	30.987	17.6975
2	6.26	**Sulfate**	BMB	0.490	1.753	3.6479
TOTAL:				4.30	32.74	21.35



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**5.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**300_9056 .25 FLOW**	*Operator:*	**Chemist**
Inj. Date / Time:	**12-Jan-2022 / 22:43**	*Run Time:*	**8.50**

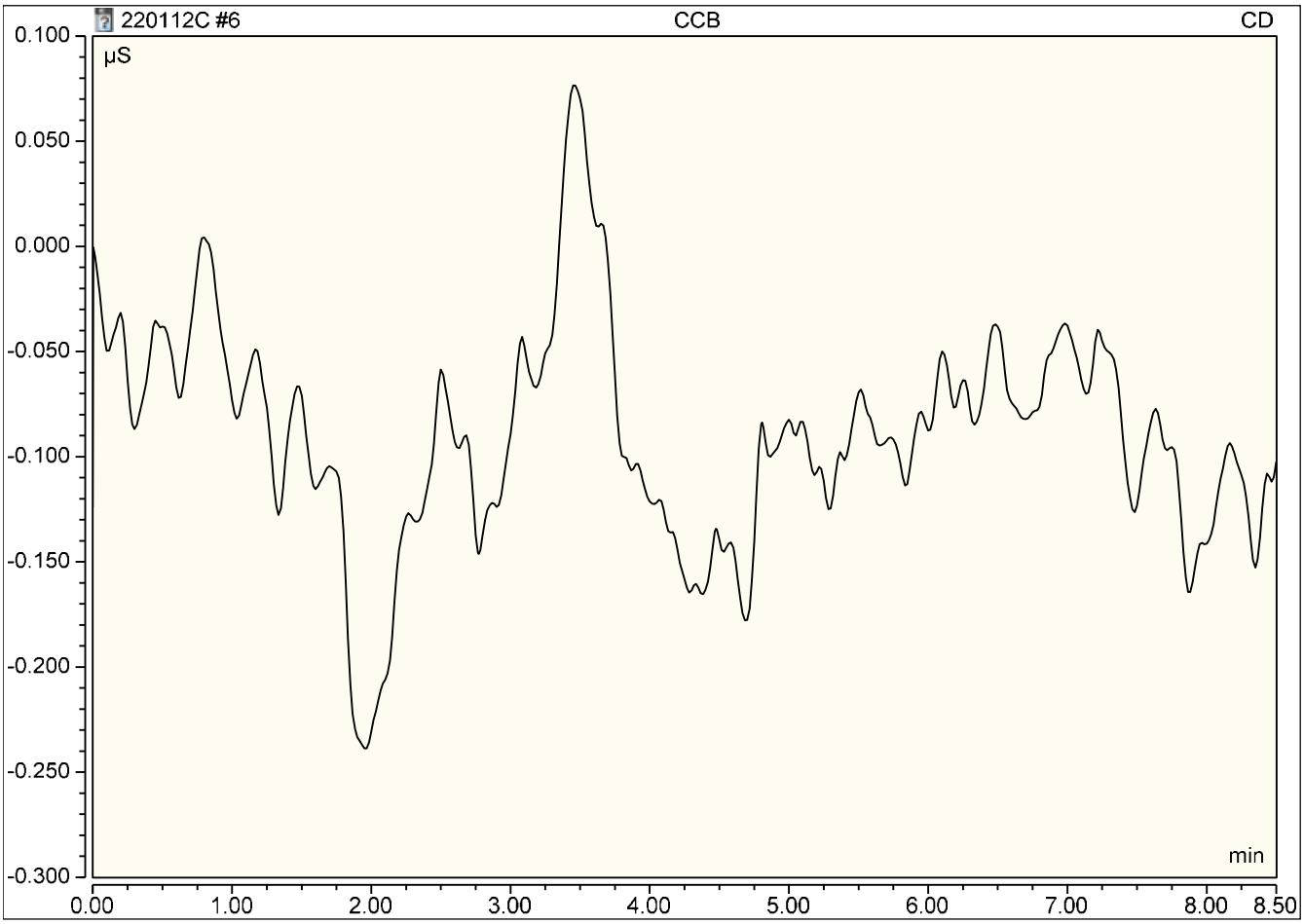
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.37	**Fluoride**	BMB	1.220	7.949	5.4085
2	2.96	**Chloride**	BMB	1.968	17.417	9.4375
3	3.33	**Nitrite**	BMB	1.880	13.328	4.7641
4	3.71	**Bromide**	BMB	0.271	2.493	4.1096
5	4.00	**Nitrate**	BMB	7.516	23.017	13.2035
6	5.49	**Phosphate**	BMB	0.791	4.072	5.2692
7	6.22	**Sulfate**	BMB	3.826	18.734	24.0136
TOTAL:				17.47	87.01	66.21



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**5.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**300_9056 .25 FLOW**	*Operator:*	**Chemist**
Inj. Date / Time:	**12-Jan-2022 / 22:54**	*Run Time:*	**8.50**

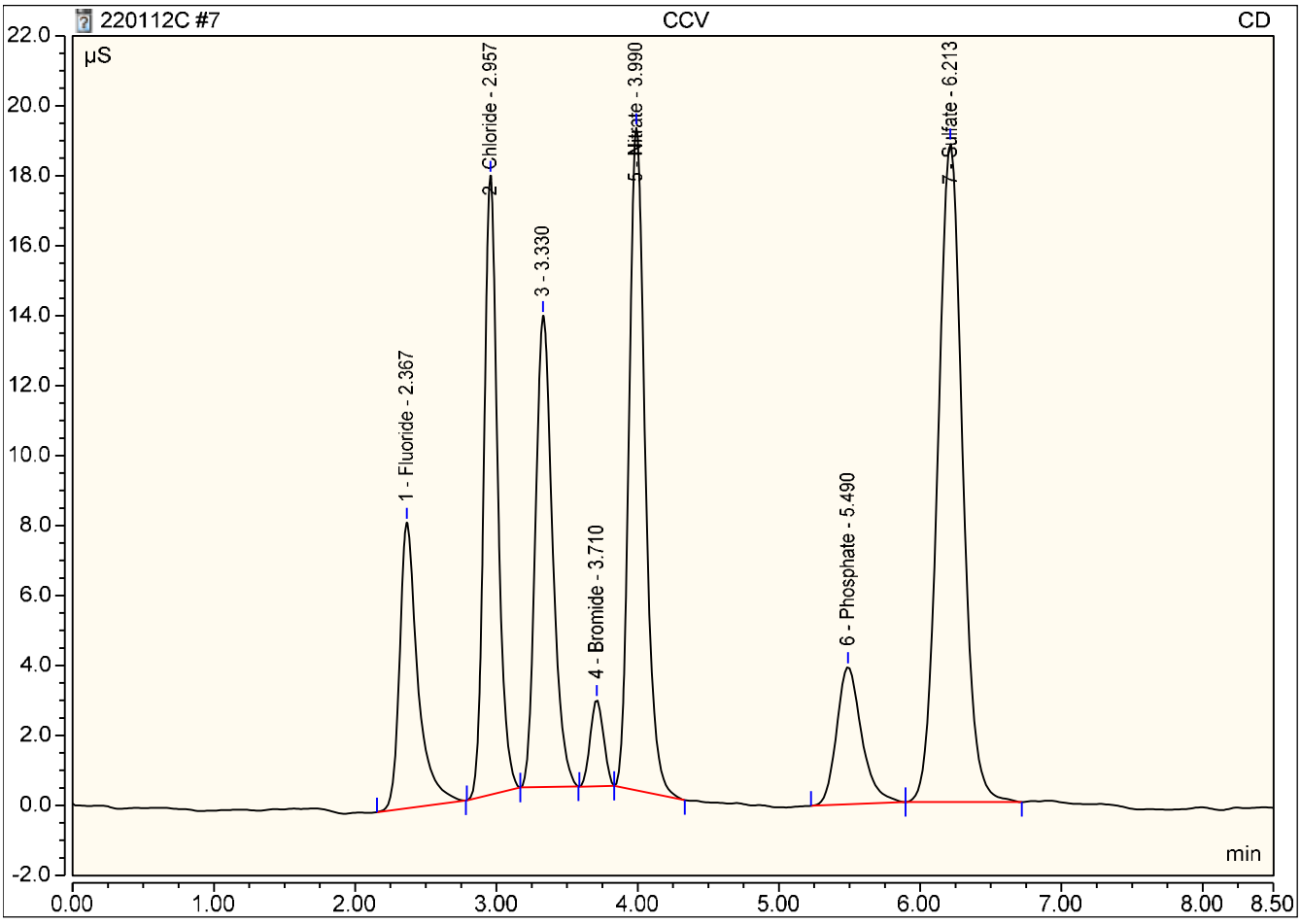
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount n.a.
TOTAL:				0.00	0.00	0.00



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**5.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**300_9056 .25 FLOW**	*Operator:*	**Chemist**
Inj. Date / Time:	**13-Jan-2022 / 11:33**	*Run Time:*	**8.50**

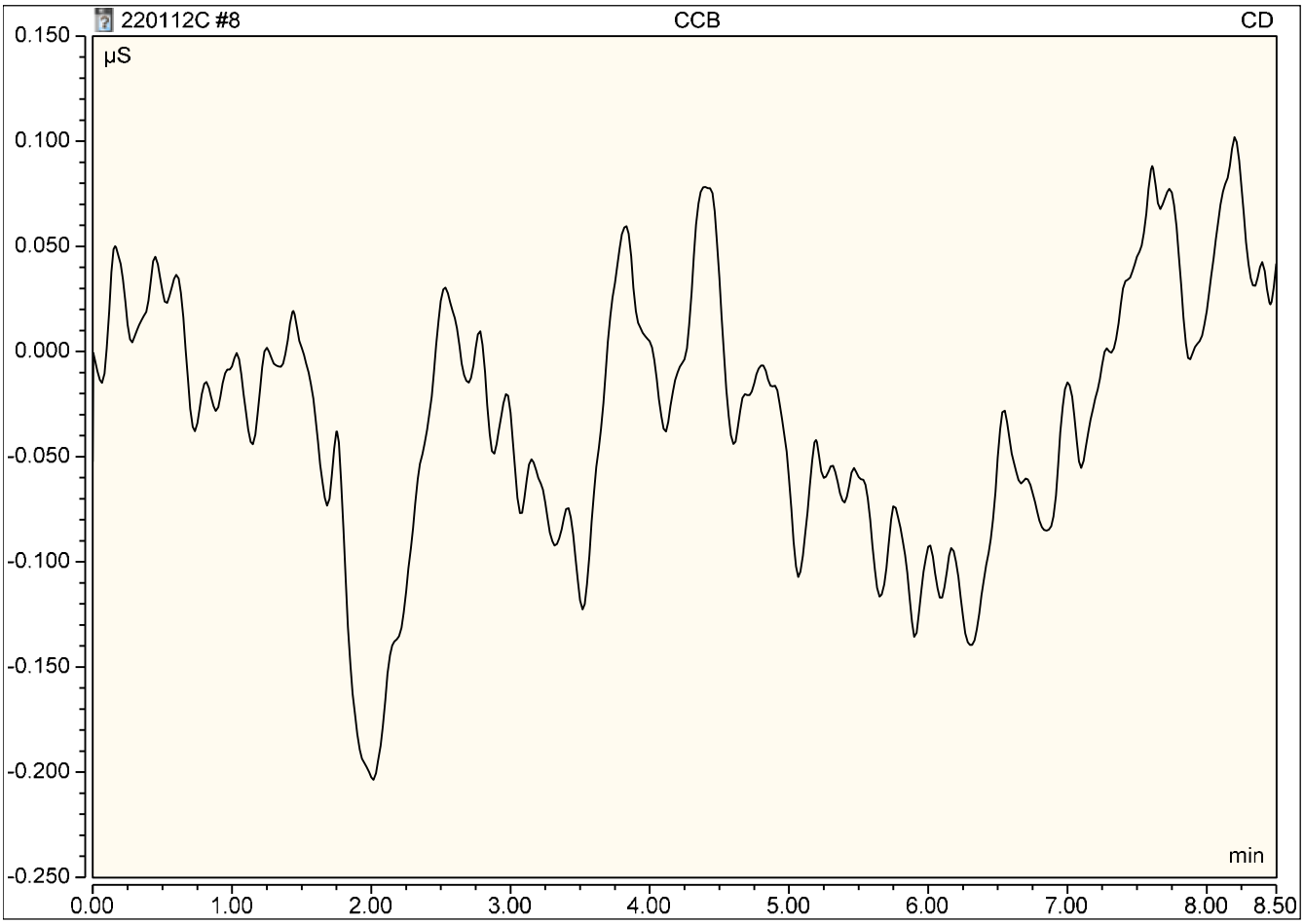
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.37	**Fluoride**	BMB	1.209	8.167	5.3627
2	2.96	**Chloride**	BMB	1.994	17.700	9.5517
4	3.71	**Bromide**	BMB	0.270	2.478	4.0882
5	3.99	**Nitrate**	BMB	2.507	18.939	4.9117
6	5.49	**Phosphate**	BMB	0.805	3.929	5.3447
7	6.21	**Sulfate**	BMB	3.801	18.833	23.8623
TOTAL:				10.59	70.05	53.12



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**5.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**300_9056 .25 FLOW**	*Operator:*	**Chemist**
Inj. Date / Time:	**13-Jan-2022 / 11:44**	*Run Time:*	**8.50**

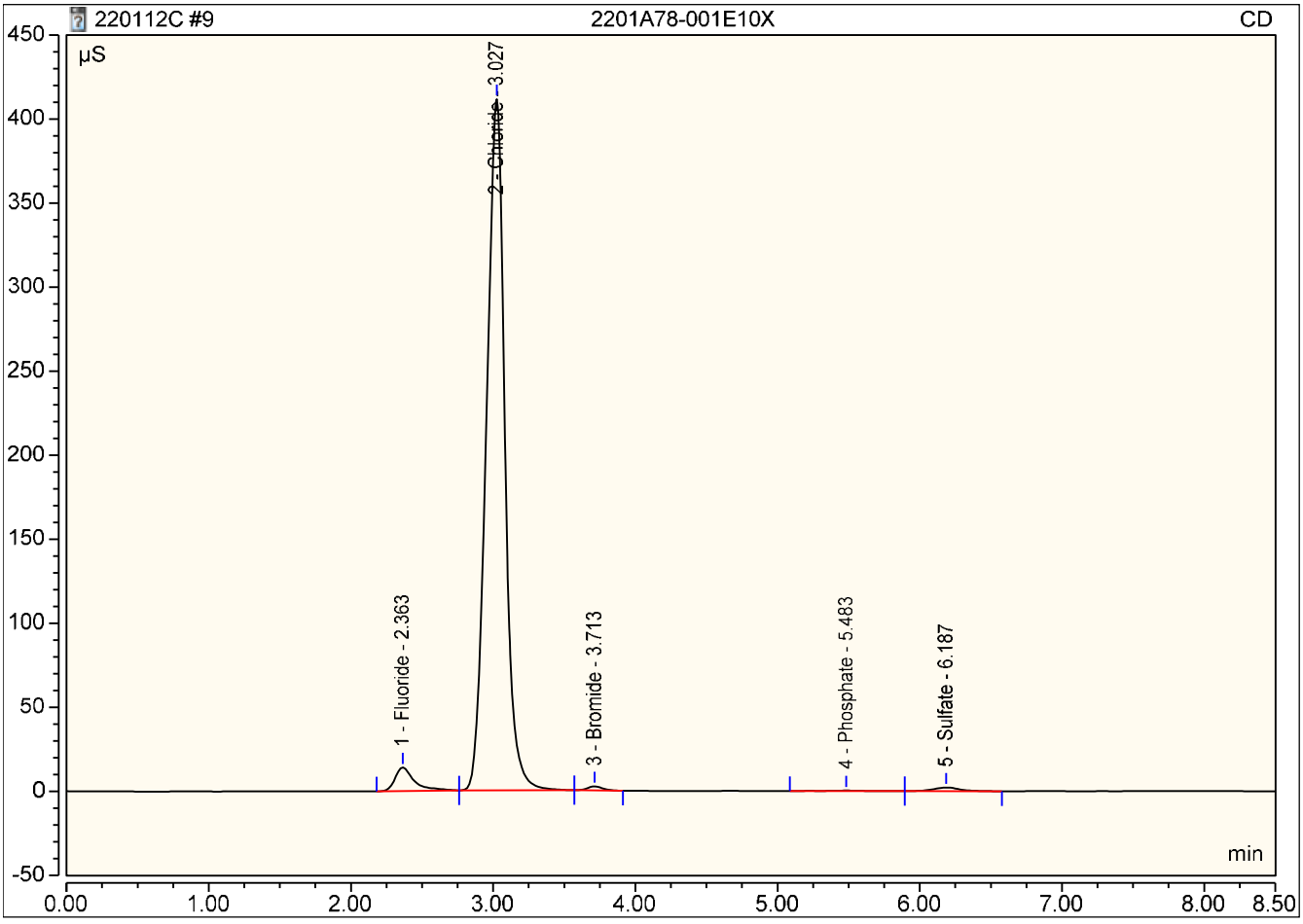
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount n.a.
TOTAL:				0.00	0.00	0.00



Peak Integration Report

Sample Name:	**2201A78-001E10X**	*Inj. Vol.:*	**5.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**300_9056 .25 FLOW**	*Operator:*	**Chemist**
Inj. Date / Time:	**13-Jan-2022 / 13:07**	*Run Time:*	**8.50**

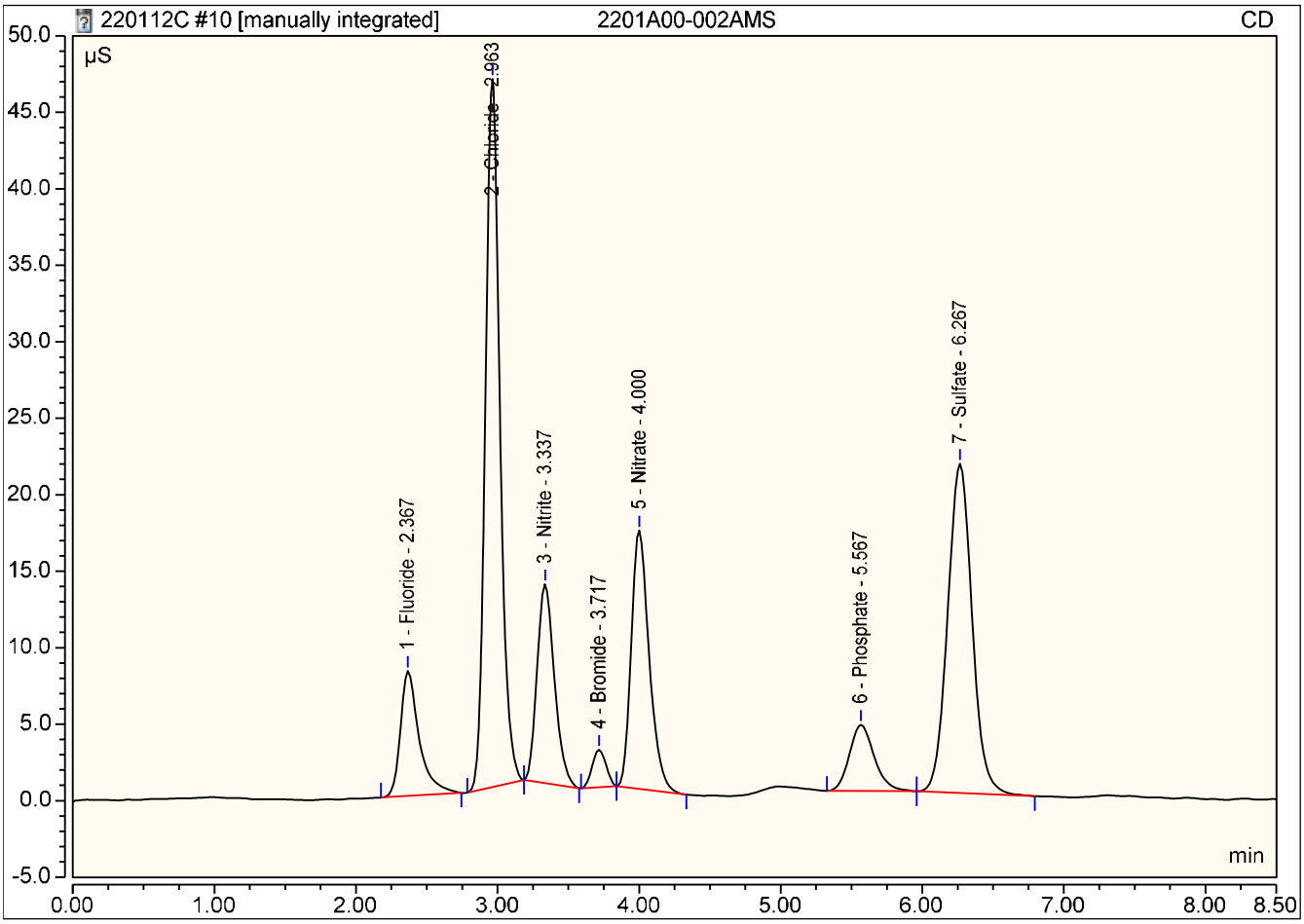
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.36	**Fluoride**	BMB	2.205	14.022	9.0477
2	3.03	**Chloride**	BMB	61.498	411.210	264.4319
3	3.71	**Bromide**	BMB	0.300	2.431	4.4947
4	5.48	**Phosphate**	BMB	0.073	0.290	0.3662
5	6.19	**Sulfate**	BMB	0.470	2.172	3.5216
TOTAL:				64.55	430.13	281.86



Peak Integration Report

Sample Name:	**2201A00-002AMS**	*Inj. Vol.:*	**5.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**300_9056 .25 FLOW**	*Operator:*	**Chemist**
Inj. Date / Time:	**13-Jan-2022 / 13:18**	*Run Time:*	**8.50**

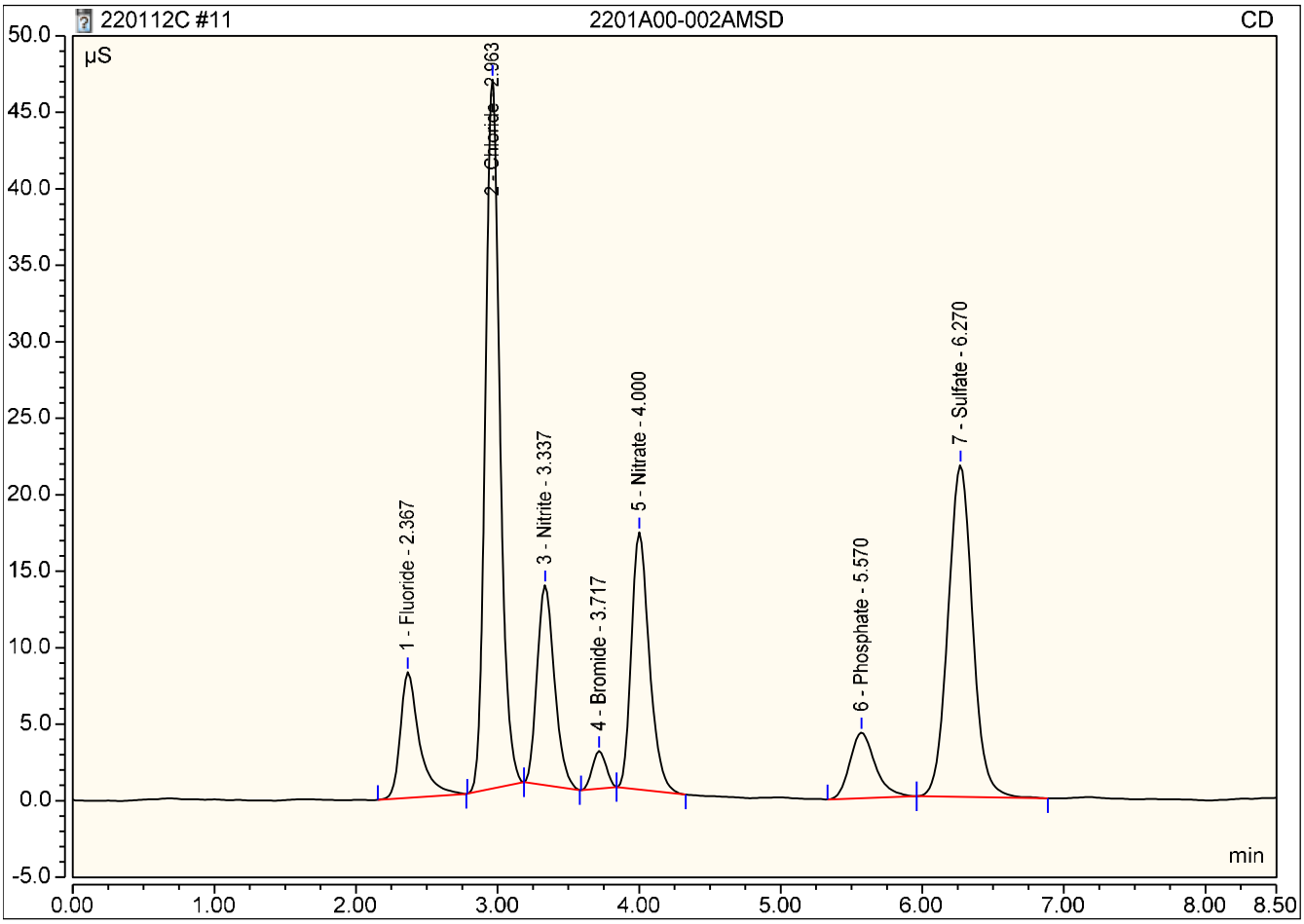
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.37	**Fluoride**	BMB	1.247	8.165	5.5132
2	2.96	**Chloride**	BMB	5.500	46.291	25.2266
3	3.34	**Nitrite**	BMB	1.850	13.004	4.6874
4	3.72	**Bromide**	BMB	0.279	2.461	4.2052
5	4.00	**Nitrate**	BMB	2.476	16.897	4.8557
6	5.57	**Phosphate**	BMB	0.881	4.330	5.7458
7	6.27	**Sulfate**	BMB	4.307	21.534	26.8927
TOTAL:				16.54	112.68	77.13



Peak Integration Report

Sample Name:	**2201A00-002AMSD**	*Inj. Vol.:*	**5.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**300_9056 .25 FLOW**	*Operator:*	**Chemist**
Inj. Date / Time:	**13-Jan-2022 / 13:29**	*Run Time:*	**8.50**

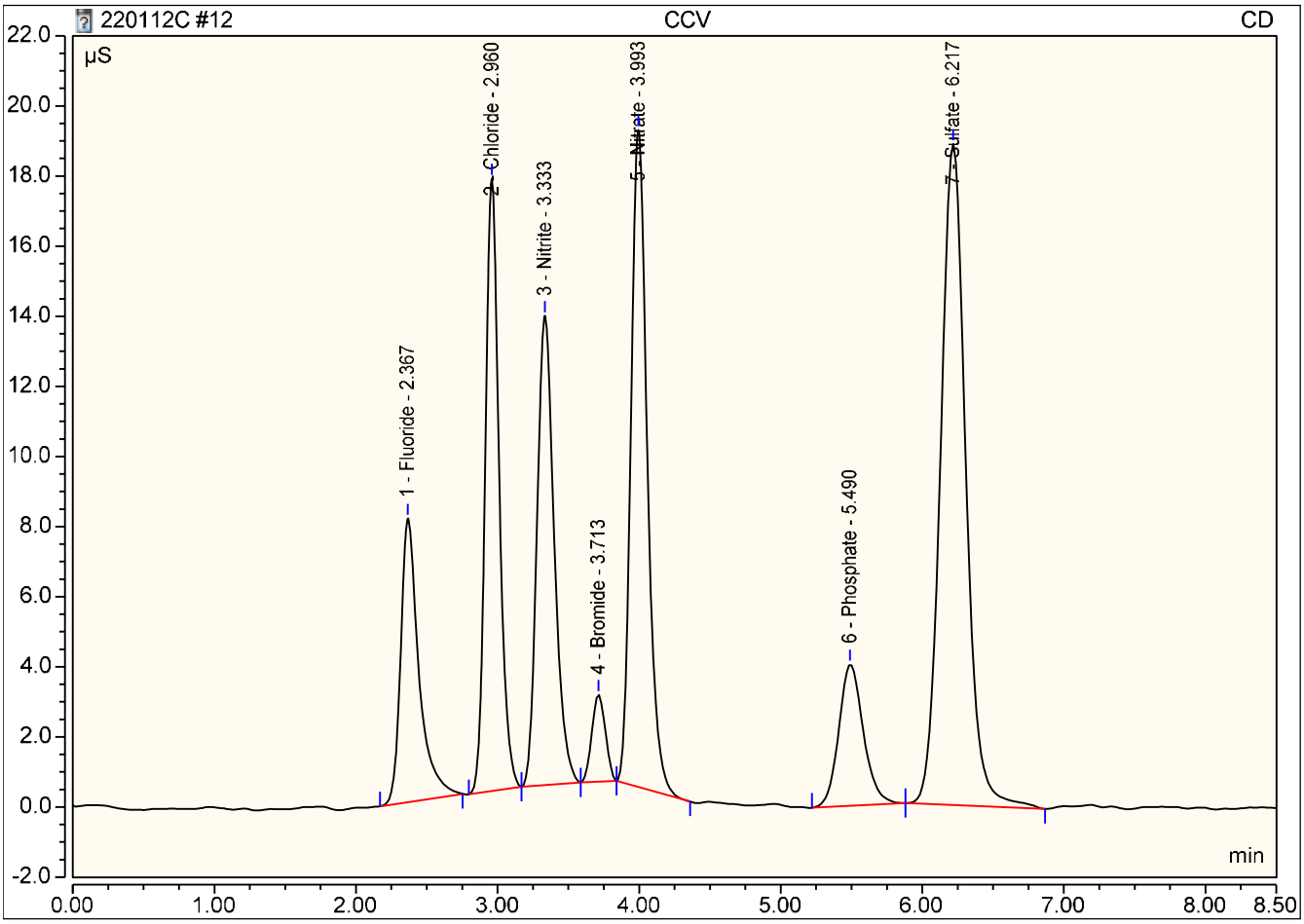
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.37	**Fluoride**	BMB	1.272	8.204	5.6135
2	2.96	**Chloride**	BMB	5.525	46.359	25.3401
3	3.34	**Nitrite**	BMB	1.869	13.073	4.7353
4	3.72	**Bromide**	BMB	0.277	2.457	4.1906
5	4.00	**Nitrate**	BMB	2.474	16.835	4.8512
6	5.57	**Phosphate**	BMB	0.891	4.304	5.7950
7	6.27	**Sulfate**	BMB	4.368	21.682	27.2552
TOTAL:				16.68	112.91	77.78



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**5.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**300_9056 .25 FLOW**	*Operator:*	**Chemist**
Inj. Date / Time:	**13-Jan-2022 / 13:40**	*Run Time:*	**8.50**

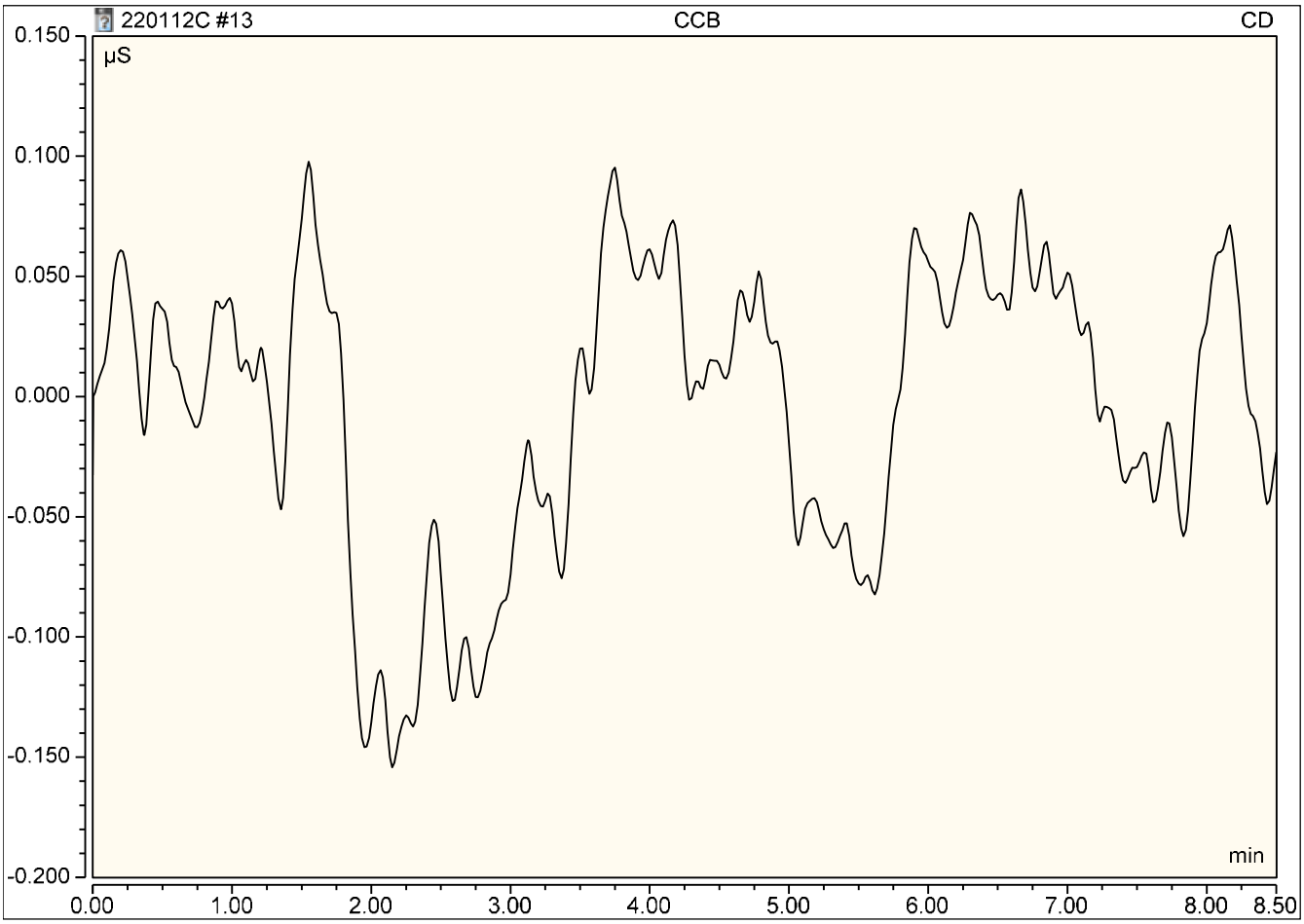
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.37	**Fluoride**	BMB	1.195	8.091	5.3079
2	2.96	**Chloride**	BMB	1.973	17.473	9.4595
3	3.33	**Nitrite**	BMB	1.887	13.385	4.7813
4	3.71	**Bromide**	BMB	0.275	2.484	4.1536
5	3.99	**Nitrate**	BMB	2.487	18.742	4.8756
6	5.49	**Phosphate**	BMB	0.810	4.035	5.3714
7	6.22	**Sulfate**	BMB	3.882	18.859	24.3511
TOTAL:				12.51	83.07	58.30



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**5.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**300_9056 .25 FLOW**	*Operator:*	**Chemist**
Inj. Date / Time:	**13-Jan-2022 / 13:50**	*Run Time:*	**8.50**

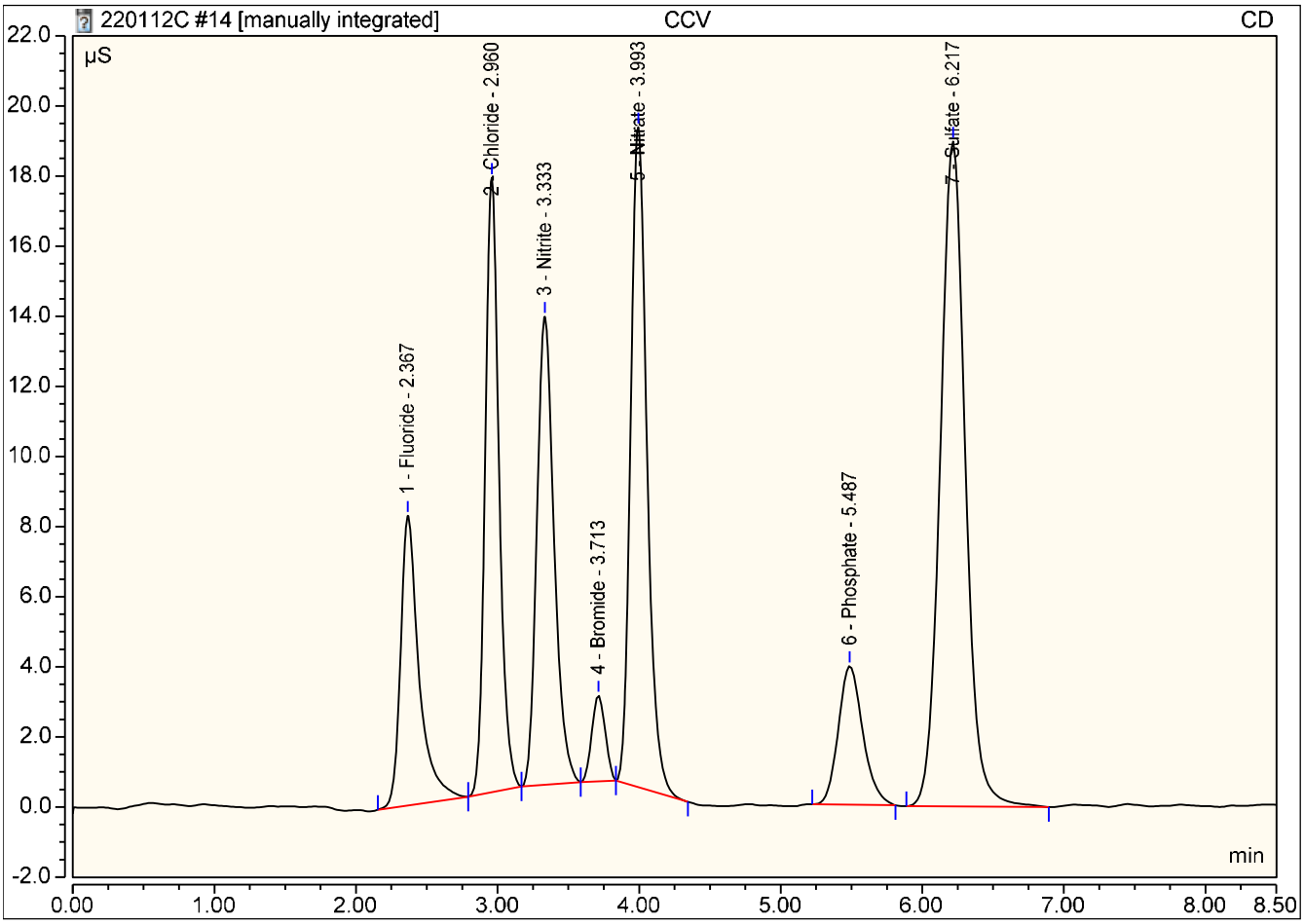
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount n.a.
TOTAL:				0.00	0.00	0.00



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**5.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**300_9056 .25 FLOW**	*Operator:*	**Chemist**
Inj. Date / Time:	**13-Jan-2022 / 23:08**	*Run Time:*	**8.50**

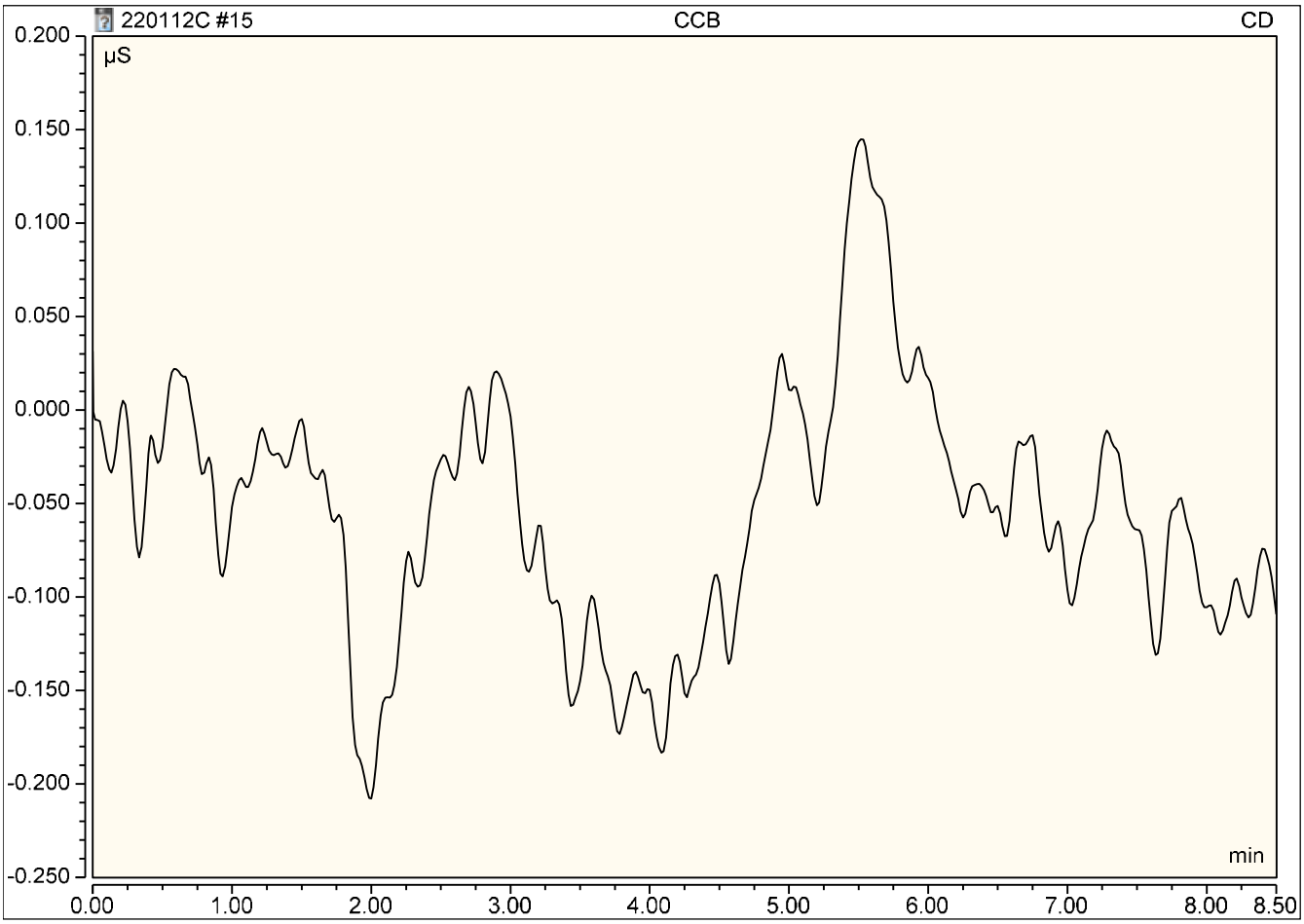
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.37	**Fluoride**	BMb*	1.243	8.263	5.4970
2	2.96	**Chloride**	bMB*	1.989	17.525	9.5329
3	3.33	**Nitrite**	BMB	1.887	13.358	4.7804
4	3.71	**Bromide**	BMB	0.269	2.450	4.0822
5	3.99	**Nitrate**	BMB	2.505	18.829	4.9079
6	5.49	**Phosphate**	BMB	0.793	3.956	5.2752
7	6.22	**Sulfate**	BMB	3.884	18.967	24.3633
TOTAL:				12.57	83.35	58.44



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**5.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**300_9056 .25 FLOW**	*Operator:*	**Chemist**
Inj. Date / Time:	**13-Jan-2022 / 23:19**	*Run Time:*	**8.50**

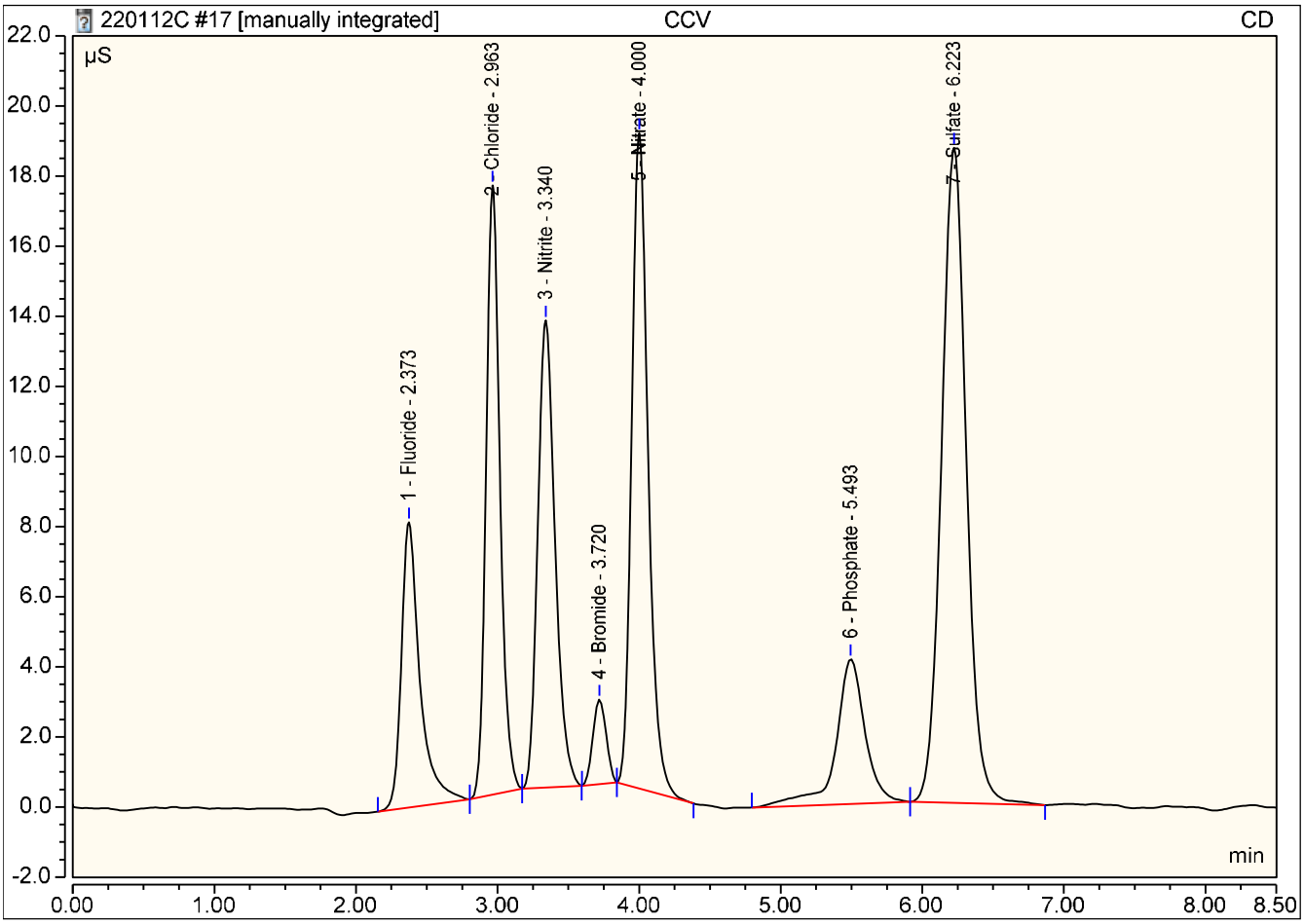
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount n.a.
TOTAL:				0.00	0.00	0.00



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**5.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**300_9056 .25 FLOW**	*Operator:*	**Chemist**
Inj. Date / Time:	**13-Jan-2022 / 23:41**	*Run Time:*	**8.50**

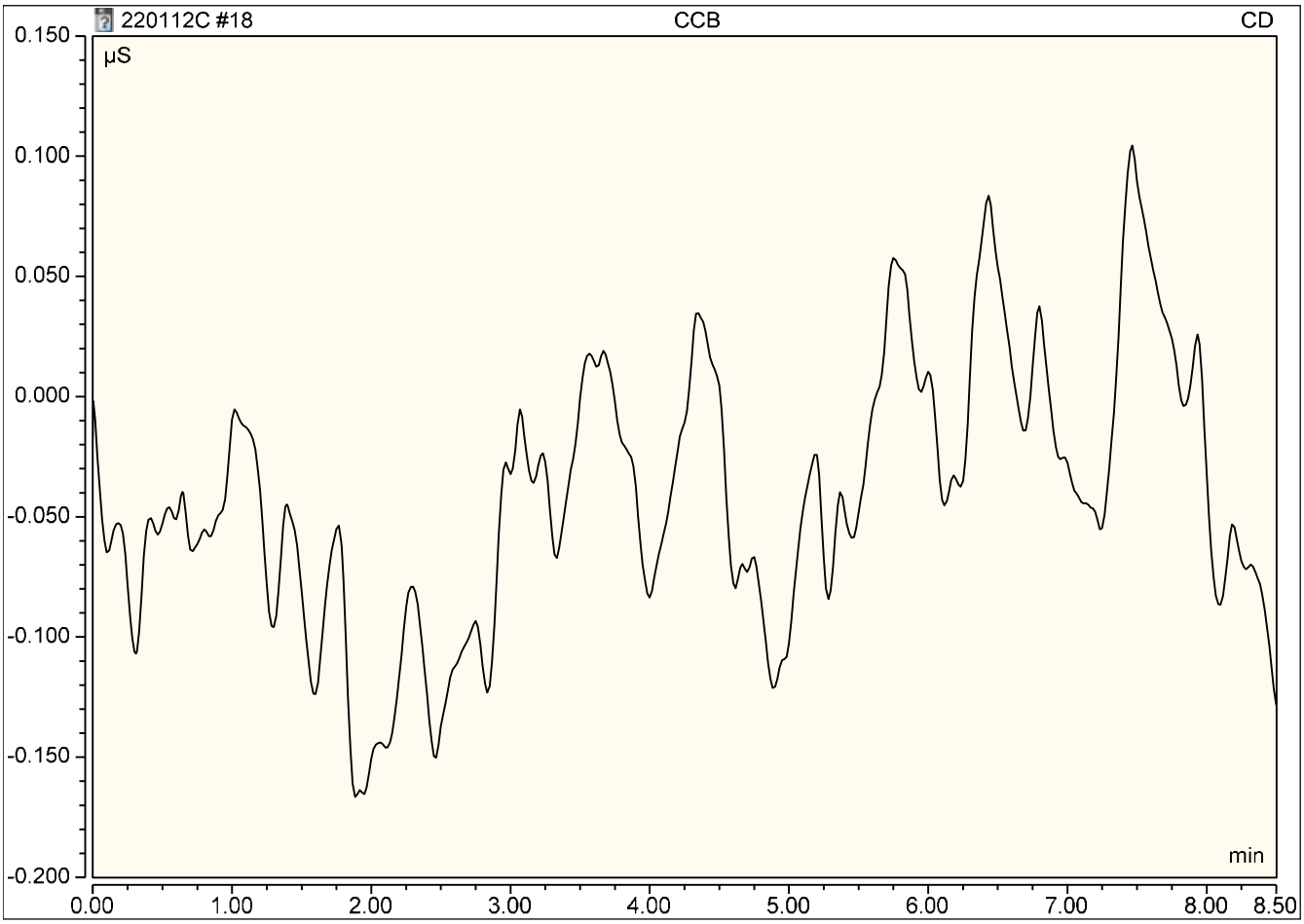
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.37	**Fluoride**	BMB	1.224	8.133	5.4232
2	2.96	**Chloride**	BMB	1.967	17.380	9.4340
3	3.34	**Nitrite**	BMB	1.887	13.323	4.7810
4	3.72	**Bromide**	BMB	0.262	2.411	3.9909
5	4.00	**Nitrate**	BMB	2.504	18.696	4.9057
6	5.49	**Phosphate**	BMB	0.987	4.131	6.2833
7	6.22	**Sulfate**	BMB	3.792	18.692	23.8076
TOTAL:				12.62	82.77	58.63



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**5.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**300_9056 .25 FLOW**	*Operator:*	**Chemist**
Inj. Date / Time:	**13-Jan-2022 / 23:52**	*Run Time:*	**8.50**

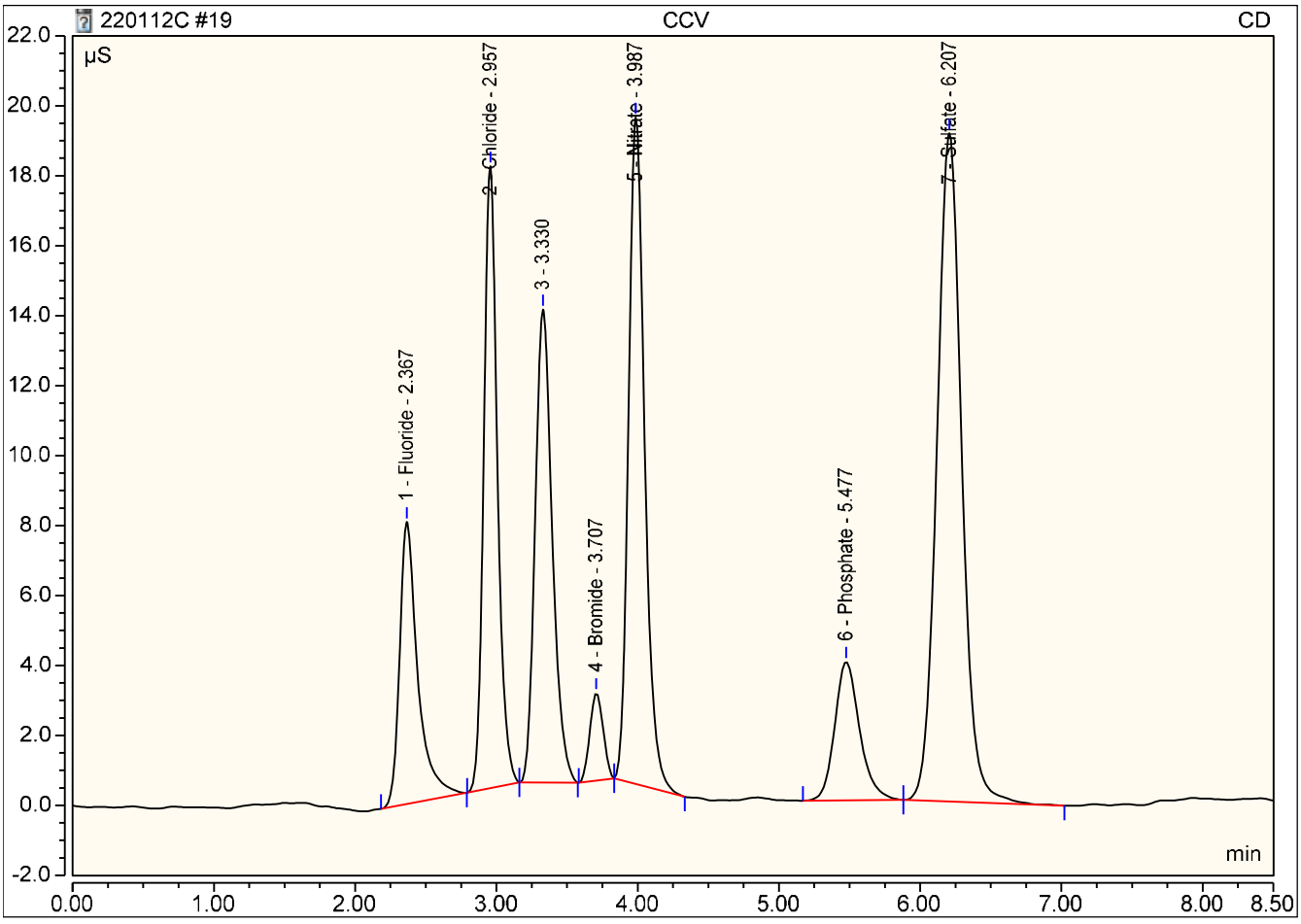
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount n.a.
TOTAL:				0.00	0.00	0.00



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**5.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**300_9056 .25 FLOW**	*Operator:*	**Chemist**
Inj. Date / Time:	**14-Jan-2022 / 11:32**	*Run Time:*	**8.50**

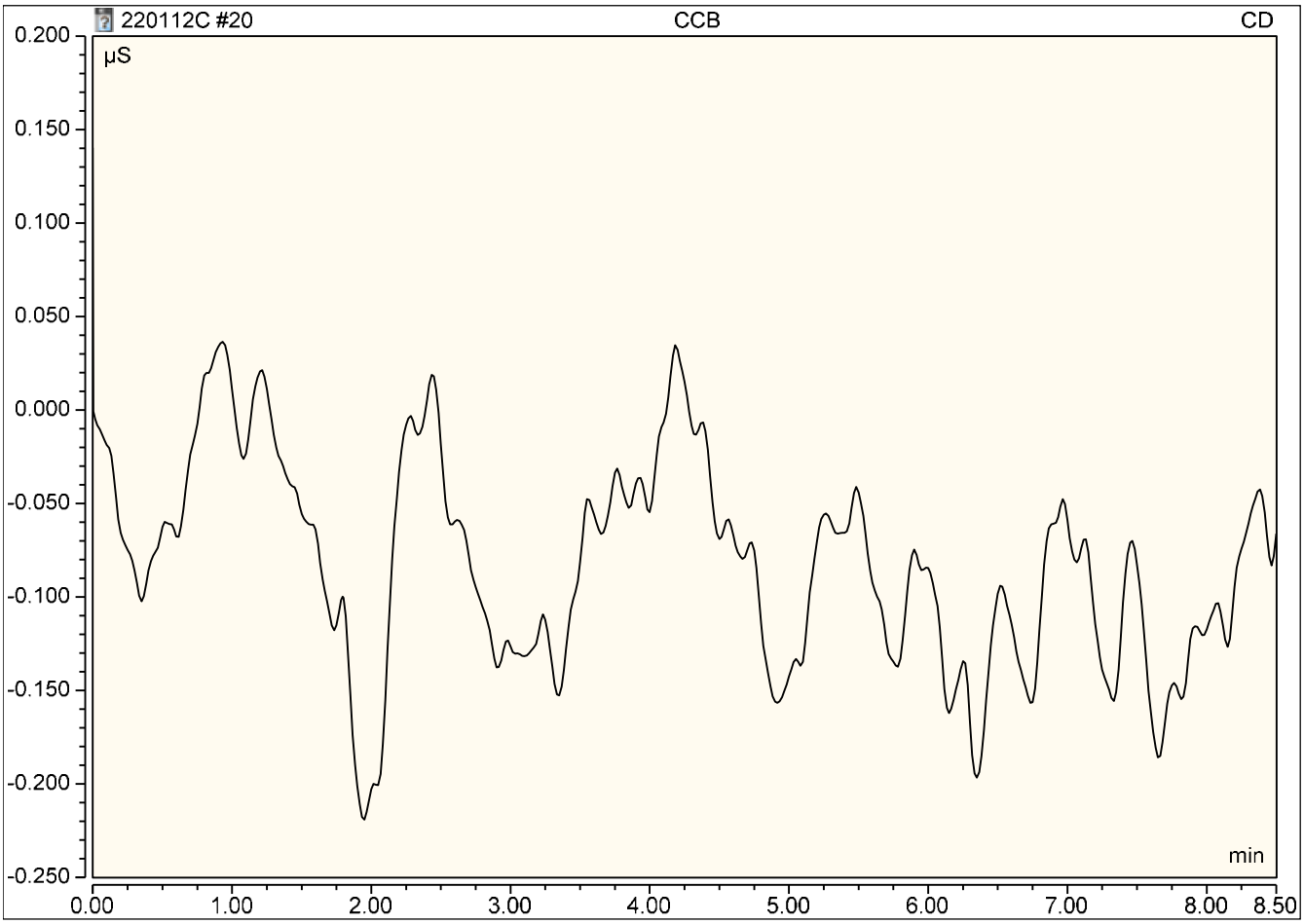
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.37	**Fluoride**	BMB	1.197	8.062	5.3174
2	2.96	**Chloride**	BMB	1.993	17.779	9.5465
4	3.71	**Bromide**	BMB	0.274	2.510	4.1518
5	3.99	**Nitrate**	BMB	2.518	19.057	4.9319
6	5.48	**Phosphate**	BMB	0.810	3.965	5.3692
7	6.21	**Sulfate**	BMB	3.884	19.108	24.3595
TOTAL:				10.68	70.48	53.68



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**5.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**300_9056 .25 FLOW**	*Operator:*	**Chemist**
Inj. Date / Time:	**14-Jan-2022 / 11:43**	*Run Time:*	**8.50**

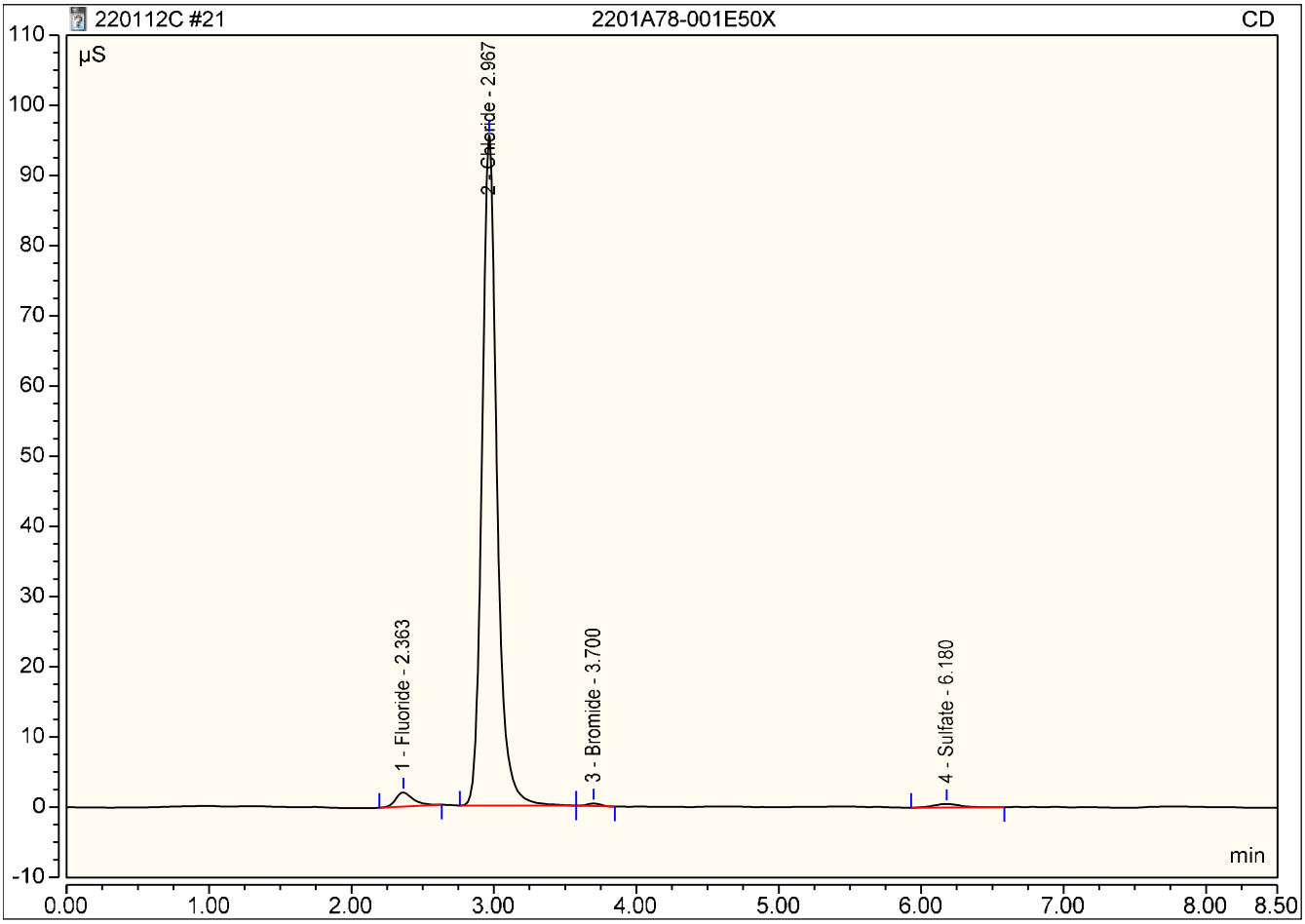
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount n.a.
TOTAL:				0.00	0.00	0.00



Peak Integration Report

Sample Name:	**2201A78-001E50X**	*Inj. Vol.:*	**5.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**300_9056 .25 FLOW**	*Operator:*	**Chemist**
Inj. Date / Time:	**14-Jan-2022 / 12:26**	*Run Time:*	**8.50**

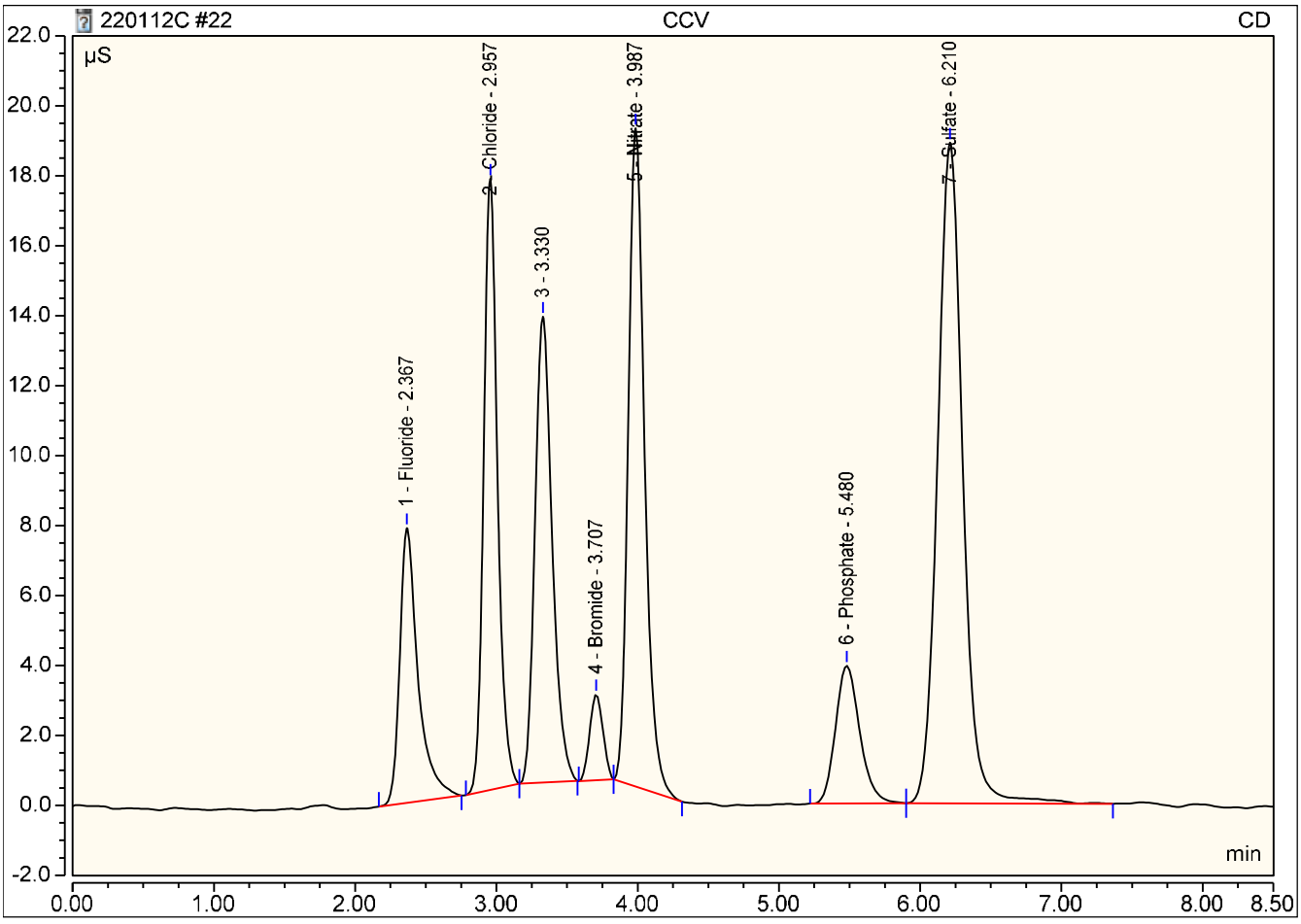
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.36	**Fluoride**	BMB	0.290	2.024	1.3892
2	2.97	**Chloride**	BMB	11.579	95.475	52.1974
3	3.70	**Bromide**	BMB	0.042	0.378	1.0660
4	6.18	**Sulfate**	BMB	0.110	0.507	1.2797
TOTAL:				12.02	98.38	55.93



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**5.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**300_9056 .25 FLOW**	*Operator:*	**Chemist**
Inj. Date / Time:	**14-Jan-2022 / 13:09**	*Run Time:*	**8.50**

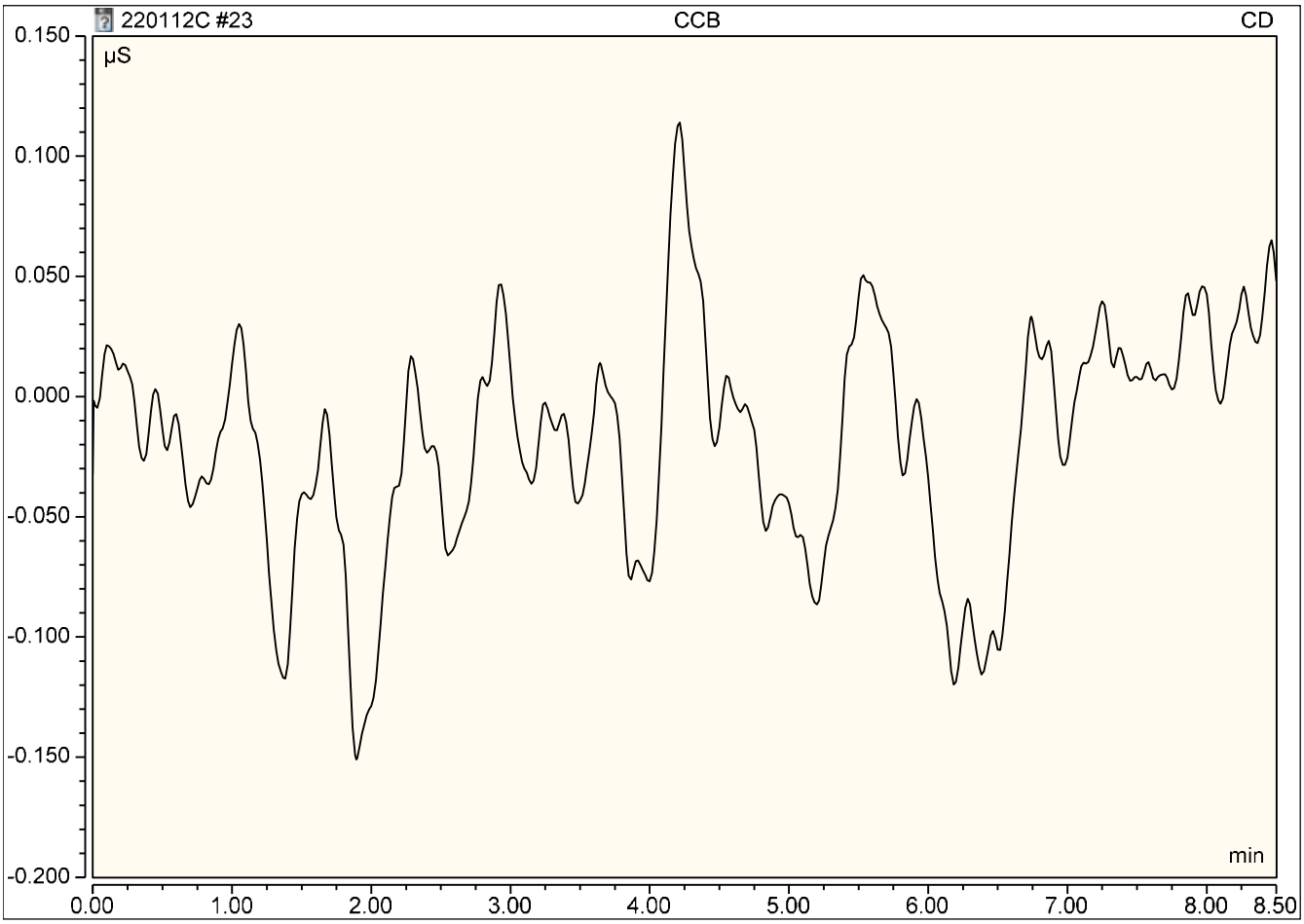
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.37	**Fluoride**	BMB	1.171	7.852	5.2123
2	2.96	**Chloride**	BMB	1.980	17.472	9.4886
4	3.71	**Bromide**	BMB	0.267	2.456	4.0572
5	3.99	**Nitrate**	BMB	2.516	18.816	4.9285
6	5.48	**Phosphate**	BMB	0.784	3.940	5.2304
7	6.21	**Sulfate**	BMB	3.898	18.884	24.4445
TOTAL:				10.62	69.42	53.36



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**5.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**300_9056 .25 FLOW**	*Operator:*	**Chemist**
Inj. Date / Time:	**14-Jan-2022 / 13:20**	*Run Time:*	**8.50**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Anion Summary Report

No.	Name	Inject Time	Amount CD Fluoride	Amount CD Chloride	Amount CD Nitrite	Amount CD Bromide	Amount CD Nitrate
1	LCS-R475144	##########	5.3547	9.5110	4.7911	4.0748	4.8839
2	MB-R475144	##########	n.a.	n.a.	n.a.	n.a.	n.a.
3	2201A00-002A	##########	n.a.	17.6975	n.a.	n.a.	n.a.
4	2201A78-001E	##########	45.8544	1968.7929	n.a.	44.2910	n.a.
5	CCV	##########	5.4085	9.4375	4.7641	4.1096	13.2035
6	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
7	CCV	##########	5.3627	9.5517	n.a.	4.0882	4.9117
8	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
9	2201A78-001E10X	##########	9.0477	264.4319	n.a.	4.4947	n.a.
10	2201A00-002AMS	##########	5.5132	25.2266	4.6874	4.2052	4.8557
11	2201A00-002AMSD	##########	5.6135	25.3401	4.7353	4.1906	4.8512
12	CCV	##########	5.3079	9.4595	4.7813	4.1536	4.8756
13	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
14	CCV	##########	5.4970	9.5329	4.7804	4.0822	4.9079
15	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
16	2201A78-01E20X	##########	4.5259	133.8474	n.a.	2.3449	n.a.
17	CCV	##########	5.4232	9.4340	4.7810	3.9909	4.9057
18	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
19	CCV	##########	5.3174	9.5465	n.a.	4.1518	4.9319
20	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
21	2201A78-001E50X	##########	1.3892	52.1974	n.a.	1.0660	n.a.
22	CCV	##########	5.2123	9.4886	n.a.	4.0572	4.9285
23	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
	Sum:	##########	114.828	2563.495	33.321	93.301	
	Average:	44574.684	8.202	170.900	4.760	6.664	
	Rel.Std.Dev:	0.001 %	133.427 %	293.859 %	0.776 %	163.091 %	

No.	Name	Inject Time	Amount CD Fluoride	Amount CD Chloride	Amount CD Nitrite	Amount CD Bromide	Amount CD Nitrate
1	LCS-R475144	##########	5.3547	9.5110	4.7911	4.0748	4.8839
2	MB-R475144	##########	n.a.	n.a.	n.a.	n.a.	n.a.
3	2201A00-002A	##########	n.a.	17.6975	n.a.	n.a.	n.a.
4	2201A78-001E	##########	45.8544	1968.7929	n.a.	44.2910	n.a.
5	CCV	##########	5.4085	9.4375	4.7641	4.1096	13.2035
6	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
7	CCV	##########	5.3627	9.5517	n.a.	4.0882	4.9117
8	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
9	2201A78-001E10X	##########	9.0477	264.4319	n.a.	4.4947	n.a.
10	2201A00-002AMS	##########	5.5132	25.2266	4.6874	4.2052	4.8557
11	2201A00-002AMSD	##########	5.6135	25.3401	4.7353	4.1906	4.8512
12	CCV	##########	5.3079	9.4595	4.7813	4.1536	4.8756
13	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
14	CCV	##########	5.4970	9.5329	4.7804	4.0822	4.9079
15	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.

16	2201A78-01E20X	##########	4.5259	133.8474	n.a.	2.3449	n.a.
17	CCV	##########	5.4232	9.4340	4.7810	3.9909	4.9057
18	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
19	CCV	##########	5.3174	9.5465	n.a.	4.1518	4.9319
20	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
21	2201A78-001E50X	##########	1.3892	52.1974	n.a.	1.0660	n.a.
22	CCV	##########	5.2123	9.4886	n.a.	4.0572	4.9285
23	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
	Sum:	##########	114.828	2563.495	33.321	93.301	
	Average:	44574.684	8.202	170.900	4.760	6.664	
	Rel.Std.Dev:	0.001 %	133.427 %	293.859 %	0.776 %	163.091 %	

No.	Name	Inject Time	Amount CD Fluoride	Amount CD Chloride	Amount CD Nitrite	Amount CD Bromide	Amount CD Nitrate
1	LCS-R475144	##########	5.3547	9.5110	4.7911	4.0748	4.8839
2	MB-R475144	##########	n.a.	n.a.	n.a.	n.a.	n.a.
3	2201A00-002A	##########	n.a.	17.6975	n.a.	n.a.	n.a.
4	2201A78-001E	##########	45.8544	1968.7929	n.a.	44.2910	n.a.
5	CCV	##########	5.4085	9.4375	4.7641	4.1096	13.2035
6	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
7	CCV	##########	5.3627	9.5517	n.a.	4.0882	4.9117
8	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
9	2201A78-001E10X	##########	9.0477	264.4319	n.a.	4.4947	n.a.
10	2201A00-002AMS	##########	5.5132	25.2266	4.6874	4.2052	4.8557
11	2201A00-002AMSD	##########	5.6135	25.3401	4.7353	4.1906	4.8512
12	CCV	##########	5.3079	9.4595	4.7813	4.1536	4.8756
13	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
14	CCV	##########	5.4970	9.5329	4.7804	4.0822	4.9079
15	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
16	2201A78-01E20X	##########	4.5259	133.8474	n.a.	2.3449	n.a.
17	CCV	##########	5.4232	9.4340	4.7810	3.9909	4.9057
18	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
19	CCV	##########	5.3174	9.5465	n.a.	4.1518	4.9319
20	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
21	2201A78-001E50X	##########	1.3892	52.1974	n.a.	1.0660	n.a.
22	CCV	##########	5.2123	9.4886	n.a.	4.0572	4.9285
23	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
	Sum:	##########	114.828	2563.495	33.321	93.301	
	Average:	44574.684	8.202	170.900	4.760	6.664	
	Rel.Std.Dev:	0.001 %	133.427 %	293.859 %	0.776 %	163.091 %	

No.	Name	Inject Time	Amount CD Fluoride	Amount CD Chloride	Amount CD Nitrite	Amount CD Bromide	Amount CD Nitrate
1	LCS-R475144	##########	5.3547	9.5110	4.7911	4.0748	4.8839
2	MB-R475144	##########	n.a.	n.a.	n.a.	n.a.	n.a.
3	2201A00-002A	##########	n.a.	17.6975	n.a.	n.a.	n.a.
4	2201A78-001E	##########	45.8544	1968.7929	n.a.	44.2910	n.a.
5	CCV	##########	5.4085	9.4375	4.7641	4.1096	13.2035

6	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
7	CCV	##########	5.3627	9.5517	n.a.	4.0882	4.9117
8	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
9	2201A78-001E10X	##########	9.0477	264.4319	n.a.	4.4947	n.a.
10	2201A00-002AMS	##########	5.5132	25.2266	4.6874	4.2052	4.8557
11	2201A00-002AMSD	##########	5.6135	25.3401	4.7353	4.1906	4.8512
12	CCV	##########	5.3079	9.4595	4.7813	4.1536	4.8756
13	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
14	CCV	##########	5.4970	9.5329	4.7804	4.0822	4.9079
15	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
16	2201A78-01E20X	##########	4.5259	133.8474	n.a.	2.3449	n.a.
17	CCV	##########	5.4232	9.4340	4.7810	3.9909	4.9057
18	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
19	CCV	##########	5.3174	9.5465	n.a.	4.1518	4.9319
20	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
21	2201A78-001E50X	##########	1.3892	52.1974	n.a.	1.0660	n.a.
22	CCV	##########	5.2123	9.4886	n.a.	4.0572	4.9285
23	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
	Sum:	##########	114.828	2563.495	33.321	93.301	
	Average:	44574.684	8.202	170.900	4.760	6.664	
	Rel.Std.Dev:	0.001 %	133.427 %	293.859 %	0.776 %	163.091 %	

No.	Name	Inject Time	Amount CD Fluoride	Amount CD Chloride	Amount CD Nitrite	Amount CD Bromide	Amount CD Nitrate
1	LCS-R475144	##########	5.3547	9.5110	4.7911	4.0748	4.8839
2	MB-R475144	##########	n.a.	n.a.	n.a.	n.a.	n.a.
3	2201A00-002A	##########	n.a.	17.6975	n.a.	n.a.	n.a.
4	2201A78-001E	##########	45.8544	1968.7929	n.a.	44.2910	n.a.
5	CCV	##########	5.4085	9.4375	4.7641	4.1096	13.2035
6	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
7	CCV	##########	5.3627	9.5517	n.a.	4.0882	4.9117
8	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
9	2201A78-001E10X	##########	9.0477	264.4319	n.a.	4.4947	n.a.
10	2201A00-002AMS	##########	5.5132	25.2266	4.6874	4.2052	4.8557
11	2201A00-002AMSD	##########	5.6135	25.3401	4.7353	4.1906	4.8512
12	CCV	##########	5.3079	9.4595	4.7813	4.1536	4.8756
13	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
14	CCV	##########	5.4970	9.5329	4.7804	4.0822	4.9079
15	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
16	2201A78-01E20X	##########	4.5259	133.8474	n.a.	2.3449	n.a.
17	CCV	##########	5.4232	9.4340	4.7810	3.9909	4.9057
18	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
19	CCV	##########	5.3174	9.5465	n.a.	4.1518	4.9319
20	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
21	2201A78-001E50X	##########	1.3892	52.1974	n.a.	1.0660	n.a.
22	CCV	##########	5.2123	9.4886	n.a.	4.0572	4.9285
23	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
	Sum:	##########	114.828	2563.495	33.321	93.301	
	Average:	44574.684	8.202	170.900	4.760	6.664	
	Rel.Std.Dev:	0.001 %	133.427 %	293.859 %	0.776 %	163.091 %	

No.	Name	Inject Time	Amount CD Fluoride	Amount CD Chloride	Amount CD Nitrite	Amount CD Bromide	Amount CD Nitrate
1	LCS-R475144	##########	5.3547	9.5110	4.7911	4.0748	4.8839
2	MB-R475144	##########	n.a.	n.a.	n.a.	n.a.	n.a.
3	2201A00-002A	##########	n.a.	17.6975	n.a.	n.a.	n.a.
4	2201A78-001E	##########	45.8544	1968.7929	n.a.	44.2910	n.a.
5	CCV	##########	5.4085	9.4375	4.7641	4.1096	13.2035
6	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
7	CCV	##########	5.3627	9.5517	n.a.	4.0882	4.9117
8	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
9	2201A78-001E10X	##########	9.0477	264.4319	n.a.	4.4947	n.a.
10	2201A00-002AMS	##########	5.5132	25.2266	4.6874	4.2052	4.8557
11	2201A00-002AMSD	##########	5.6135	25.3401	4.7353	4.1906	4.8512
12	CCV	##########	5.3079	9.4595	4.7813	4.1536	4.8756
13	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
14	CCV	##########	5.4970	9.5329	4.7804	4.0822	4.9079
15	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
16	2201A78-01E20X	##########	4.5259	133.8474	n.a.	2.3449	n.a.
17	CCV	##########	5.4232	9.4340	4.7810	3.9909	4.9057
18	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
19	CCV	##########	5.3174	9.5465	n.a.	4.1518	4.9319
20	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
21	2201A78-001E50X	##########	1.3892	52.1974	n.a.	1.0660	n.a.
22	CCV	##########	5.2123	9.4886	n.a.	4.0572	4.9285
23	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
	Sum:	##########	114.828	2563.495	33.321	93.301	
	Average:	44574.684	8.202	170.900	4.760	6.664	
	Rel.Std.Dev:	0.001 %	133.427 %	293.859 %	0.776 %	163.091 %	

No.	Name	Inject Time	Amount CD Fluoride	Amount CD Chloride	Amount CD Nitrite	Amount CD Bromide	Amount CD Nitrate
1	LCS-R475144	##########	5.3547	9.5110	4.7911	4.0748	4.8839
2	MB-R475144	##########	n.a.	n.a.	n.a.	n.a.	n.a.
3	2201A00-002A	##########	n.a.	17.6975	n.a.	n.a.	n.a.
4	2201A78-001E	##########	45.8544	1968.7929	n.a.	44.2910	n.a.
5	CCV	##########	5.4085	9.4375	4.7641	4.1096	13.2035
6	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
7	CCV	##########	5.3627	9.5517	n.a.	4.0882	4.9117
8	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
9	2201A78-001E10X	##########	9.0477	264.4319	n.a.	4.4947	n.a.
10	2201A00-002AMS	##########	5.5132	25.2266	4.6874	4.2052	4.8557
11	2201A00-002AMSD	##########	5.6135	25.3401	4.7353	4.1906	4.8512
12	CCV	##########	5.3079	9.4595	4.7813	4.1536	4.8756
13	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
14	CCV	##########	5.4970	9.5329	4.7804	4.0822	4.9079
15	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
16	2201A78-01E20X	##########	4.5259	133.8474	n.a.	2.3449	n.a.

17	CCV	##########	5.4232	9.4340	4.7810	3.9909	4.9057
18	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
19	CCV	##########	5.3174	9.5465	n.a.	4.1518	4.9319
20	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
21	2201A78-001E50X	##########	1.3892	52.1974	n.a.	1.0660	n.a.
22	CCV	##########	5.2123	9.4886	n.a.	4.0572	4.9285
23	CCB	##########	n.a.	n.a.	n.a.	n.a.	n.a.
	Sum:	##########	114.828	2563.495	33.321	93.301	
	Average:	44574.684	8.202	170.900	4.760	6.664	
	Rel.Std.Dev:	0.001 %	133.427 %	293.859 %	0.776 %	163.091 %	

Amount CD Phosphate	Amount CD Sulfate
5.4158	23.7693
n.a.	n.a.
n.a.	3.6479
5.5288	32.7026
5.2692	24.0136
n.a.	n.a.
5.3447	23.8623
n.a.	n.a.
0.3662	3.5216
5.7458	26.8927
5.7950	27.2552
5.3714	24.3511
n.a.	n.a.
5.2752	24.3633
n.a.	n.a.
n.a.	2.5231
6.2833	23.8076
n.a.	n.a.
5.3692	24.3595
n.a.	n.a.
n.a.	1.2797
5.2304	24.4445
n.a.	n.a.
	290.794
	19.386
	54.922 %

Amount CD Phosphate	Amount CD Sulfate
5.4158	23.7693
n.a.	n.a.
n.a.	3.6479
5.5288	32.7026
5.2692	24.0136
n.a.	n.a.
5.3447	23.8623
n.a.	n.a.
0.3662	3.5216
5.7458	26.8927
5.7950	27.2552
5.3714	24.3511
n.a.	n.a.
5.2752	24.3633
n.a.	n.a.

n.a.	2.5231
6.2833	23.8076
n.a.	n.a.
5.3692	24.3595
n.a.	n.a.
n.a.	1.2797
5.2304	24.4445
n.a.	n.a.
	290.794
	19.386
	54.922 %

Amount CD Phosphate	Amount CD Sulfate
5.4158	23.7693
n.a.	n.a.
n.a.	3.6479
5.5288	32.7026
5.2692	24.0136
n.a.	n.a.
5.3447	23.8623
n.a.	n.a.
0.3662	3.5216
5.7458	26.8927
5.7950	27.2552
5.3714	24.3511
n.a.	n.a.
5.2752	24.3633
n.a.	n.a.
n.a.	2.5231
6.2833	23.8076
n.a.	n.a.
5.3692	24.3595
n.a.	n.a.
n.a.	1.2797
5.2304	24.4445
n.a.	n.a.
	290.794
	19.386
	54.922 %

Amount CD Phosphate	Amount CD Sulfate
5.4158	23.7693
n.a.	n.a.
n.a.	3.6479
5.5288	32.7026
5.2692	24.0136

n.a.	n.a.
5.3447	23.8623
n.a.	n.a.
0.3662	3.5216
5.7458	26.8927
5.7950	27.2552
5.3714	24.3511
n.a.	n.a.
5.2752	24.3633
n.a.	n.a.
n.a.	2.5231
6.2833	23.8076
n.a.	n.a.
5.3692	24.3595
n.a.	n.a.
n.a.	1.2797
5.2304	24.4445
n.a.	n.a.
	290.794
	19.386
	54.922 %

Amount CD Phosphate	Amount CD Sulfate
5.4158	23.7693
n.a.	n.a.
n.a.	3.6479
5.5288	32.7026
5.2692	24.0136
n.a.	n.a.
5.3447	23.8623
n.a.	n.a.
0.3662	3.5216
5.7458	26.8927
5.7950	27.2552
5.3714	24.3511
n.a.	n.a.
5.2752	24.3633
n.a.	n.a.
n.a.	2.5231
6.2833	23.8076
n.a.	n.a.
5.3692	24.3595
n.a.	n.a.
n.a.	1.2797
5.2304	24.4445
n.a.	n.a.
	290.794
	19.386
	54.922 %

Amount CD Phosphate	Amount CD Sulfate
5.4158	23.7693
n.a.	n.a.
n.a.	3.6479
5.5288	32.7026
5.2692	24.0136
n.a.	n.a.
5.3447	23.8623
n.a.	n.a.
0.3662	3.5216
5.7458	26.8927
5.7950	27.2552
5.3714	24.3511
n.a.	n.a.
5.2752	24.3633
n.a.	n.a.
n.a.	2.5231
6.2833	23.8076
n.a.	n.a.
5.3692	24.3595
n.a.	n.a.
n.a.	1.2797
5.2304	24.4445
n.a.	n.a.
	290.794
	19.386
	54.922 %

Amount CD Phosphate	Amount CD Sulfate
5.4158	23.7693
n.a.	n.a.
n.a.	3.6479
5.5288	32.7026
5.2692	24.0136
n.a.	n.a.
5.3447	23.8623
n.a.	n.a.
0.3662	3.5216
5.7458	26.8927
5.7950	27.2552
5.3714	24.3511
n.a.	n.a.
5.2752	24.3633
n.a.	n.a.
n.a.	2.5231

6.2833	23.8076
n.a.	n.a.
5.3692	24.3595
n.a.	n.a.
n.a.	1.2797
5.2304	24.4445
n.a.	n.a.
	290.794
	19.386
	54.922 %

pH of Aqueous Samples

SM4500-H^+ B-2011 (SOP GL-08067)

Run No:	R474932	**Analyzed by:**	GY	**pH Meter ID**	**2696**
Instrument Run ID:	**MT-1_220112B**	**Start Date:**	1/12/2022 15:17	**pH Probe ID:**	**2701**
		End Date:	1/12/2022 16:13		

	Sample ID	Certified pH Units	Sample Amt. (mL)	Temp. (°C)	pH Reading	Time Analyzed	Comments
**	LCS-R474932	7	10	23.56	7.0752	15:27	
**	ICV-R474932	6.86	10	23.53	6.8734	15:29	
	2201967-002B		10	23.87	7.0793	15:32	
*	2201967-002BDUP		10	23.94	7.1580	15:34	
	2112L61-001C		10	23.60	6.3296	15:50	
	2112L61-002C		10	23.83	7.0497	15:36	
	2201666-001A		10	23.81	7.0497	15:38	
	2201666-002A		10	23.67	7.1389	15:39	
	2201666-003A		10	23.58	9.0712	15:41	
	2201242-008A		10	23.66	7.0391	15:43	
	2201242-008B		10	23.64	7.0369	15:45	
	2201242-008C		10	23.67	7.0370	15:46	
	2201242-008D		10	23.72	7.0348	15:48	
**	CCV1-R474932	4	10	23.73	3.9912	15:52	
**	CCV2-R474932	10	10	23.61	10.0291	15:53	
	2201A78-001D		10	23.81	10.6704	15:55	
	2201A93-001A		10	23.71	7.5997	15:57	
	2201B35-001B		10	22.14	6.8412	15:59	
	2201B45-001C		10	22.30	7.5098	16:00	
	2201B51-001A		10	22.54	7.2947	16:02	
	2201A62-001C		10	23.76	7.3492	16:04	
	2201B94-001B		10	21.78	7.0669	16:06	
**	CCV3-R474932	4	10	23.48	3.9948	16:07	
**	CCV4-R474932	10	10	23.60	10.0273	16:09	
***	CCV5-R474932						
****	CCV6-R474932	13	10	23.75	12.9788	16:11	

	Calibration Level 1	Calibration Level 2	Calibration Level 3	Calibration Level 4	Calibration Level 5
STD Conc	1	4	7	10	13
Millivolts	328.4910	156.8600	-18.1880	-191.2840	-360.4740
Calc pH	-6.0034	-3.0204	0.0221	3.0305	5.9712
Final Calc pH	0.9966	3.9796	7.0221	10.0305	12.9712
%RE	0.3393	0.5091	0.3151	0.3055	0.2219

	Certified pH Unit	Acceptance Criteria	%RE AC	AES ID
Calibration Level /CCV1 & 3:	4.00	3.9-4.1	±2.5%	29030
Calibration Level & LCS:	7.00	6.9-7.1	±1.4%	30326
Calibration Level/CCV2 & 4:	10.00	9.9-10.1	±1%	30778
Initial Calibration Verification (ICV):	6.86	6.76-6.96	±1.5%	30595
Calibration Verification Low / CCV5:	1.00	0.9-1.1	±10%	N/A
Calibration Verification High / CCV6:	13.00	12.9-13.1	±0.8%	30673

	Result	Acceptance Criteria
Slope	-57.5358	-60.9 to -56.2
Y-Intercept	-16.9190	-25 to 25
Slope %	100.55%	95% to 103%

*Duplicate pH Readings must be less than 0.1 pH units apart.

**ICV, CCV and LCS pH readings must be within 0.1 pH units from certified pH unit.

***A low level CCV is required when any sample pH reading is less than 4.00 pH units

****A high level CCV is required when any sample pH reading is greater than 10.00 pH units.

Note: The cells corresponding to the low and high level calibration verifications (pH units of 1 and 13) have been blacked out. These cells will only be accessible when the pH reading for any unknown sample falls below 4 or above 10, respectively. When the low and/or the high reading cells become accessible the corresponding pH unit level CCV must be analyzed and the result must fall within the specified limits. Cells will be highlighted yellow if they exceed the limits stated on this sheet.

Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **1/19/2022 09:15:00**
Prep End Date: **1/19/2022 14:30:00**

Prep Batch **329295** Prep Code: **7.3.3.2CN_P** Technician: **Ashilee Thomas**

Prep Factor Units: **mL / g**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2201A71-001C	Solid		1	0	0	50	50.000	1/19/2022	1/19/2022
2201A71-002C	Solid		1	0	0	50	50.000	1/19/2022	1/19/2022
2201A71-003C	Solid		1	0	0	50	50.000	1/19/2022	1/19/2022
2201A71-004B	Oil		1	0	0	50	50.000	1/19/2022	1/19/2022
2201A71-004BMS	Oil		1	0	0	50	50.000	1/19/2022	1/19/2022
2201A71-004BMSD	Oil		1	0	0	50	50.000	1/19/2022	1/19/2022
2201A71-005B	Oil		1	0	0	50	50.000	1/19/2022	1/19/2022
2201A78-001D	Waste Water		1	0	0	50	50.000	1/19/2022	1/19/2022
CCV-329295			1	0	0	50	50.000	1/19/2022	1/19/2022
LCS-329295			1	0	0	50	50.000	1/19/2022	1/19/2022
MB-329295			1	0	0	50	50.000	1/19/2022	1/19/2022

AES, Inc.
3080 Presidential Drive
Atlanta, GA 30340

Document ID: WC-171

18-TOTAL, REACTIVE AND AMENABLE CYANIDE
MIDI DISTALLATION / MICRO DISTALLATION WET CHEMISTRY PREP
SW-846 9010B / 9014 WET CHEMISTRY ANALYSIS (AES SOP GL-08101)

SW-846 Sec. 7.3 (AES SOP GL-08031)

Calibration Curve ID: CN-220114
Curve Prep. Date: 1/14/22
Curve Expiration Date: 7/14/22
Curve Prepared By: AG
Slope: 1.480916279
Intercept: 0.002706987
Wavelength: 578 nm

Batch No.: 329295 Balance ID#: 2673 Hotblock Distillation (Waters): AES # — Temperature: — (125 ± 2°C)
Instrument Run ID: SPEC-6_220119A AES # 2462 Hotblock Distillation (Soils): AES # 2374 Temperature: — (125 ± 2°C)
Prepared By: AG Date: 1/19/22 Start Time: 2:00 pm End Time: 4:30 pm
Analyzed By: AG Date: 1/19/22 Start Time: 5:53 pm End Time: 6:20 pm

No #	Sample ID	Initial Vol/Wt (mL/g)	Final Vol.(mL)	D.F.	Distillation Times Start	Distillation Times End	pH >12*	Sulfide Check	Total or Reactive Cyanide: Absorb.	Total or Reactive Cyanide: Calculated Value (mg/L or mg/Kg)	Total or Reactive Cyanide: Corrected Value (mg/L or mg/Kg)	Amenable Cyanide: Absorb.	Amenable Cyanide: Calculated Value (mg/L or mg/Kg)	Amenable Cyanide: Corrected Value (mg/L or mg/Kg)	Comments (Include if Bismuth check was done and results after check)
QC	MB	1.00	50	1	2:20	2:50	N/A	N/A	0.000	0	0	N/A	N/A	N/A	
QC	LCS	1.00							0.424	0.126	0.189	9.45			AG 1/19/22
1	2201A71-004B	1.02							0.002	0.006	0				
QC	004B MS	1.02							0.0030	0.109	0.164	4.2			
QC	004B MSD	1.02							0.0030	0.094	0.142	7.1			
2	2201A71-001C	1.02							0.001	0.004	0				
3	-002C	1.01							0.004	0.009	0				
4	-003C	1.01			4:00	4:30			0.0066	0.012	0				
5	-005B	1.03							0.002	0.006	0				
6	2201A78-001D	1.05							0.002	0.006	0				
7															
8															
9															
10									0.307						
QC	CCV	1.00							0.302	0.457	22.85				
QC	CCB	1.00							0.000	0	0				
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
QC	CCV														
QC	CCB														

CCV LOT # WX-229-33-31009 TV= 20 mg/L 114.25 %Rec. (85-115%)
LCS LOT # WX-229-32-30752 TV= 12.5 mg/L 75.60 %Rec. (85-115%)
MS & MSD Lot # ↓ TV= ↓ mg/L MS 85.6 % MSD 82.4 % (90-110%) % RPD 14.8 (<20%)

Pyridine-Barbituric Acid Reagent Lot # WC-229-29-29934
Chloramine-T Solution Lot # WX-229-34-26770
Cyanide Buffer Lot # WX-229-29-30581

Cyanide Standard # 31009 | 30752
0.4 N Sulfamic Acid # —
Prepared By: AG

2.5M MgCl2 # —
18N H2SO4 # —
Date: 1/19/22

0.25N NaOH # WX-229-23-30432
(Reactive Cyanide ONLY) 0.1N H2SO4 # 30984

* Preservation Check

Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **1/17/2022 11:30:00**
Prep End Date: **1/18/2022 13:35:00**

Prep Batch **329177** Prep Code: **7.3.4.2SO2_P** Technician: **Azfar Dhanani**

Prep Factor Units: **mL / g**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2201A62-001C	Waste Water		1	0	0	1	1.000	1/17/2022	1/17/2022
2201A62-001CMS	Waste Water		1	0	0	1	1.000	1/17/2022	1/17/2022
2201A62-001CMSD	Waste Water		1	0	0	1	1.000	1/17/2022	1/17/2022
2201A71-001C	Solid		1	0	0	1	1.000	1/17/2022	1/17/2022
2201A71-002C	Solid		1	0	0	1	1.000	1/17/2022	1/17/2022
2201A71-003C	Solid		1	0	0	1	1.000	1/17/2022	1/17/2022
2201A71-004B	Oil		1	0	0	1	1.000	1/17/2022	1/17/2022
2201A71-005B	Oil		1	0	0	1	1.000	1/17/2022	1/17/2022
2201A78-001D	Waste Water		1	0	0	1	1.000	1/17/2022	1/17/2022
2201B45-001C	Waste Water		1	0	0	1	1.000	1/18/2022	1/18/2022
LCS-329177			1	0	0	1	1.000	1/17/2022	1/17/2022
MB-329177			1	0	0	1	1.000	1/17/2022	1/17/2022

AES, Inc.
3080 Presidential Drive
Atlanta, GA 30340

TOTAL AND REACTIVE SULFIDE
Sample Preparation & Analysis Data Sheet
SM4500S F-2011 (AES SOP GL-08083), SW-846 9030B (AES SOP GL-08109) / 9034A (AES SOP GL-08084), SW-846 Sec. 7.3 (AES SOP GL-08086)

Reactive Sulfide

Batch No.: 329177 Prepared by: AD Start Date/Time: 1/17/22 11:30 AM End Date/Time: 1/17/22 4:30
Analyzed by: AD Start Date/Time: 1/18/22 5:00 PM End Date/Time: 1/18/22 ~~5:00~~ 1:35
Instrument Run ID: Titration 220117B Balance ID: AES #1717

Sample ID	Vol/Wt (ml/gm)	Iodide Vol (mL)	Sodium Thiosulfate (ml)	Result S^{-2} (mg/L or mg/Kg)	Corrected Result (mg/L or mg/Kg)	Dewater (Y/N)	Distillation Times Start	End	Comments
MB - 329177	2.50	10	~~9.745~~ 9.65	0	0	NA	1:30	2:00	
LCS1 - 329177	↓	↓	~~9.85~~ 9.60	648	648	↓	↓	↓	
220 A62-001C	2.53	↓	9.65	0	0	↓	↓	↓	
MS	↓	↓	5.05	736	727.273	↓	↓	↓	
MSD	2.55	↓	5.00	744	729.412	↓	↓	↓	
A71-001C	2.53	↓	6.55	496	490.119	↓	↓	↓	
A71-002C	2.54	↓	9.40	40	39.37	↓	↓	↓	
-003C	2.51	↓	9.60	8	7.968	↓	4:00	4:30	
-004B	↓	↓	9.70	0	0	↓	↓	↓	
-005B	2.53	↓	9.35	48	47.431	↓	↓	↓	
A78-001D	↓	↓	9.60	8	7.905	↓	↓	↓	
A45-001C	2.51	↓	9.75	0	0	↓	1:05	1:35	← 1/18/22

Na Thiosulfate Normality: 0.025
NaThio ID #: 31079

Iodine/Iodate Normality: ~~0.02625~~ 0.024129
Lot #: 31000

mls I2: 10
mls NaThio Titrant: 9.65

LCS/MS Stock Concentration: 648 mg/L
LCS/MS Stock ID #: WC-229-30-30734

mls I2: 10
mls Stock Titrated: 5
mls NaThio Titrant: 5.60

LCS: mls stock std added
MS: mls stock std added
MSD: mls stock std added

TV = 648 mg/L or mg/Kg 100 % Rec.
TV = mg/L or mg/Kg 112.23 % Rec.
TV = mg/L or mg/Kg 112.56 % Rec.
0.29 % RPD.

1:1 H2SO4 ID #: WC-229-26-30
Starch Indicator ID #: 30474
0.25N NaOH ID #: WC-229-23-304
6N HCl ID #: WC-209-49-30639
Zinc Acetate ID #: 29866

Monthly Titration Against Primary Standard Performed 4 **(Y or N)**

Calculation: $S^{-2} = \frac{(\text{Vol } I_2 * \text{N } I_2) - (\text{Vol Thios} * \text{N Thios}) * 16{,}000}{\text{Vol/Weight(mls/g)}}$

DWM 1/17/2022 10:30 AM

Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **1/18/2022 16:02:00**
Prep End Date: **1/19/2022 09:45:00**

Prep Batch **329296** Prep Code: **TS_P** Technician: **Shannon King**

Prep Factor Units: **mL / mL**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2201A78-001D	Waste Water		100	0	0	1	0.010	1/18/2022	1/19/2022
	PREPPED ON LAST DAY OF HOLD								
2201H85-003A	Drinking Water		100	0	0	1	0.010	1/18/2022	1/19/2022
	The prep HoldTime was exceeded by 43.2 days. The prep HoldTime was exceeded by 43.3 days.								
2201H85-003ADUP	Drinking Water		100	0	0	1	0.010	1/18/2022	1/19/2022
	The prep HoldTime was exceeded by 43.2 days. The prep HoldTime was exceeded by 43.3 days.								
MB-329296			100	0	0	1	0.010	1/18/2022	1/19/2022

AES, Inc
3080 Presidential Drive
Atlanta, GA 30340

Document ID:WC-213

Total Solids (TS)

SM2540B (AES SOP GL-08077)

Batch No.: 329296 / R475451
Instrument Run ID: AB-1 - 220118B
Balance ID: AES # 2673

SM2540B (Target 104°C): (Acceptance Range: 103 - 105 °C)

In Date/Time: 01/18/22 16:02 Analyst: SK/ST Oven Temp.: 105 °C
Out Date/Time: 01/19/22 9:45 Analyst: SK/ST Oven Temp.: 105 °C

Oven ID: AES # 2158
Oven 1 Thermometer ID: AES # 2675

Sample ID	Boat #	Boat Wt g (A)	Sample Vol. mL (Waters only)	Wet Wt. Sample + Boat g (B)	Dry Wt. (after 103°C) 1st weighing Sample + Boat g (C)	Dry Wt. (after 103°C) 2nd weighing Sample + Boat g (C)	1st - 2nd weighing (<4% Diff. or <0.0005 g)	If needed 3rd weighing Sample + Boat g (C)	2nd - 3rd weighing (<4% Diff. or <0.0005 g)	% Moisture	TS wt% or mg/L SM2540B	Comments
Blank	0	2.0669	N/A	36.7564	2.0670	2.0672	0.0002	N/A	N/A	100	0	
2201H85-010A	1	2.0477	N/A	32.6720	2.0526	2.0526	0.0000	↓	↓	99.98	0.02	
2201H85-010A DUP	2	2.0309	N/A	32.3459	2.0358	2.0359	0.0001			99.98	0.02	
2201A78-001D	3	2.0207	N/A	29.0896	2.2117	2.2119	0.0002			99.29	0.71	LAST DAY OF HOLD
DUP												

TS % RPD 0.0 / _____ (<30%)

Calcs: **Soil/Sludge** TS= $\frac{(C-A)}{(B-A)} \times 100$ % Moisture = 100 - %TS

Waters TS= $\frac{(C-A)}{\text{Sample Vol. (mL)}} \times 1{,}000{,}000$

DWM 8/4/2021 8:47 AM

Injection Log

Directory: C:\msdchem\1\DATA\R220114

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	R2011401.D	1.	DFTPP	TUNE DFTPP_4	14 Jan 2022 08:41
2	2	R2011404.D	1.	SIM 2.0 989-39/	ICAL 8270_SIM_PAH_W	14 Jan 2022 09:06
3	6	R2011410.D	1.	MB-328958	MBLK 8270_SIM_PAH_W	14 Jan 2022 09:31
4	7	R2011411.D	1.	LCS-328958	LCS 8270_SIM_PAH_W	14 Jan 2022 09:56
5	8	R2011412.D	1.	LCSD-328958	LCSD 8270_SIM_PAH_W	14 Jan 2022 10:22
6	9	R2011413.D	1.	2201B78-004B	SAMP 8270_SIM_PAH_W	14 Jan 2022 10:47
7	7	R2011414.D	1.	LCS-328958	LCS 8270_SIM_PAH_W	14 Jan 2022 11:46
8	8	R2011415.D	1.	LCSD-328958	LCSD 8270_SIM_PAH_W	14 Jan 2022 12:12
9	10	R2011417.D	1.	2201B78-004B 100X	SAMP 8270_SIM_PAH_W	14 Jan 2022 12:38
10	11	R2011418.D	1.	BNA5	CCV 8270_TCL4.2_W	14 Jan 2022 13:04
11	12	R2011419.D	1.	BNA40 982-99/	ICV 8270_TCL4.2_W	14 Jan 2022 13:29
12	13	R2011420.D	1.	BNA80 982-99/	ICV 8270_TCL4.2_W	14 Jan 2022 14:28
13	14	R2011421.D	1.	EX60 989-34/	CCV 8270_TCL4.2_W	14 Jan 2022 14:54
14	1	R2011430.D	1.	DFTPP	TUNE DFTPP_4	14 Jan 2022 15:19
15	4	R2011434.D	1.	SIM 2.0 989-39/	ICAL 8270_SIM_PAH_W	14 Jan 2022 15:44
16	5	R2011437.D	1.	EX40 989-34/	ICV 8270_TCL4.2_W	14 Jan 2022 16:09
17	3	R2011438.D	1.	EX40 989-29/	CCV 8270_TCL4.2_W	14 Jan 2022 16:37
18	2	R2011439.D	1.	BNA40	CCV 8270_TCL4.2_W	14 Jan 2022 17:03
19	15	R2011445.D	1.	MB-328999	MBLK 625.1	14 Jan 2022 17:35
20	16	R2011446.D	1.	LCS-328999	LCS 625.1	14 Jan 2022 18:01
21	17	R2011447.D	1.	2201D29-001B 5X	SAMP 625.1	14 Jan 2022 18:27
22	18	R2011448.D	1.	2201D29-001BMS 5X	MS 625.1	14 Jan 2022 18:53
23	19	R2011449.D	1.	2201D29-001BMSD 5X	MSD 625.1	14 Jan 2022 19:19
24	20	R2011450.D	1.	2201A74-001B	SAMP 8270_TCL4.2_W	14 Jan 2022 19:43
25	21	R2011451.D	1.	2201AQ74-002B	SAMP 8270_TCL4.2_W	14 Jan 2022 20:09
26	22	R2011452.D	1.	2201A74-003B	SAMP 8270_TCL4.2_W	14 Jan 2022 20:34
27	23	R2011453.D	1.	2201A74-004B	SAMP 8270_TCL4.2_W	14 Jan 2022 20:59
28	24	R2011454.D	1.	2201A74-005B	SAMP 8270_TCL4.2_W	14 Jan 2022 21:24
29	25	R2011455.D	1.	2201A74-008B	SAMP 8270_TCL4.2_W	14 Jan 2022 21:50
30	26	R2011456.D	1.	2201A78-001B	SAMP 8270_TCL4.2_W	14 Jan 2022 22:16
31	27	R2011457.D	1.	2201E99-001A 5X	SAMP 625.1_SC	14 Jan 2022 22:42
32	28	R2011458.D	1.	2201F00-001B	SAMP 625.1_SC	14 Jan 2022 23:07

Injection Log

Directory: C:\msdchem\1\DATA\R220114

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
33	29	R2011459.D	1.	2201E81-001A	SAMP 625.1_SC	14 Jan 2022 23:33
34	30	R2011460.D	1.	2201E78-001D	SAMP 625.1_SC	14 Jan 2022 23:58
35	31	R2011461.D	1.	2201A68-001B	SAMP 8270_TCL4.2_S	15 Jan 2022 00:24
36	32	R2011462.D	1.	2201A68-003B	SAMP 8270_TCL4.2_S	15 Jan 2022 00:50
37	33	R2011463.D	1.	2201A68-005B	SAMP 8270_TCL4.2_S	15 Jan 2022 01:15
38	34	R2011464.D	1.	2201AQ68-007B	SAMP 8270_TCL4.2_S	15 Jan 2022 01:41
39	35	R2011465.D	1.	2201A68-009B	SAMP 8270_TCL4.2_S	15 Jan 2022 02:06
40	36	R2011466.D	1.	2201A74-009B	SAMP 8270_TCL4.2_S	15 Jan 2022 02:32
41	37	R2011467.D	1.	2201A74-011B	SAMP 8270_TCL4.2_S	15 Jan 2022 02:58
42	38	R2011468.D	1.	2201A74-012B	SAMP 8270_TCL4.2_S	15 Jan 2022 03:23
43	39	R2011469.D	1.	2201A74-013B	SAMP 8270_TCL4.2_S	15 Jan 2022 03:48
44		R2011470.D	1.			

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R220114\
Data File : R2011439.D
Acq On : 14 Jan 2022 5:03 pm
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 17 14:52:27 2022
Quant Method : C:\msdchem\1\METHODS\B011322.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Jan 14 14:09:55 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	100	0.00
2		Pyridine	40.000	40.607	-1.5	99	0.00
3	T	2-Picoline	40.000	40.715	-1.8	99	0.00
4	T	Methyl methanesulfonate	40.000	39.051	2.4	98	-0.01
5	S	2-Fluorophenol	40.000	39.874	0.3	100	-0.01
6	T	Ethyl methanesulfonate	40.000	39.127	2.2	97	-0.01
7	C	Benzaldehyde	40.000	42.297	-5.7#	98	0.00
8	T	Aniline	40.000	40.292	-0.7	95	0.00
9	S	Phenol-d5	40.000	39.560	1.1	99	-0.02
10	C	Phenol	40.000	39.912	0.2	100	-0.02
11	T	Bis(2-chloroethyl)ether	40.000	40.148	-0.4	99	-0.01
12	T	2-Chlorophenol	40.000	39.378	1.6	98	-0.01
13	T	1,3-Dichlorobenzene	40.000	40.280	-0.7	101	0.00
14	CCC	1,4-Dichlorobenzene	40.000	40.113	-0.3	100	0.00
15	T	1,2-Dichlorobenzene	40.000	40.286	-0.7	100	0.00
16	T	Benzyl alcohol	40.000	39.253	1.9	98	-0.02
17	T	Bis(2-chloroisopropyl)ether	40.000	39.116	2.2	97	0.00
18	T	2-Methylphenol	40.000	39.946	0.1	100	-0.02
19	T	3,4-Methylphenol	80.000	80.316	-0.4	99	-0.03
20	PC	N-Nitrosodi-n-propylamine	40.000	39.416	1.5	98	-0.02
21	T	N-Nitrosodimethylamine	40.000	38.192	4.5	98	0.00
22	T	Hexachloroethane	40.000	39.745	0.6	99	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	101	0.00
24	S	Nitrobenzene-d5	40.000	38.666	3.3	98	-0.01
25	T	Acetophenone	80.000	80.800	-1.0	100	-0.02
26	M	Nitrobenzene	40.000	39.123	2.2	99	-0.02
27	T	N-Nitrosopiperidine	40.000	38.817	3.0	99	-0.02
28	T	Isophorone	40.000	39.327	1.7	99	-0.02
29	CCC	2-Nitrophenol	40.000	37.000	7.5	98	0.00
30	T	2,4-Dimethylphenol	40.000	40.033	-0.1	101	-0.02
31	T	Bis(2-chloroethoxy)methane	40.000	39.767	0.6	99	-0.01
32	CCC	2,4-Dichlorophenol	40.000	39.383	1.5	99	-0.02
33	T	1,2,4-Trichlorobenzene	40.000	39.879	0.3	101	0.00
34	T	Naphthalene	40.000	40.631	-1.6	101	-0.01
35	T	Benzoic acid	40.000	41.089	-2.7	88	-0.09
36	T	2,6-Dichlorophenol	40.000	39.724	0.7	100	-0.01
37	T	4-Chloroaniline	40.000	39.683	0.8	99	-0.02
38	CCC	Hexachlorobutadiene	40.000	39.414	1.5	100	0.00
39	T	a,a-Dimethylphenethylamine	40.000	36.982	7.5	93	-0.14
40		Caprolactam	40.000	38.342	4.1	97	-0.09
41	CCC	4-Chloro-3-methylphenol	40.000	39.399	1.5	100	-0.02
42	T	N-Nitroso-di-n-butylamine	40.000	35.547	11.1	99	-0.02
43	T	2-Methylnaphthalene	40.000	40.090	-0.2	99	-0.01
44	T	1-Methylnaphthalene	40.000	40.064	-0.2	99	0.00
45	I	Acenaphthene-d10	40.000	40.000	0.0	101	0.00
46	T	1,2,4,5-Tetrachlorobenzene	40.000	39.069	2.3	99	-0.01
47	PC	Hexachlorocyclopentadiene	40.000	35.108	12.2	90	0.00
48	CCC	2,4,6-Trichlorophenol	40.000	39.003	2.5	101	-0.01
49	T	2,4,5-Trichlorophenol	40.000	39.831	0.4	98	-0.02
50	S	2-Fluorobiphenyl	40.000	39.749	0.6	99	-0.01
51		Biphenyl	40.000	40.261	-0.7	100	-0.01

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R220114\
Data File : R2011439.D
Acq On : 14 Jan 2022 5:03 pm
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 17 14:52:27 2022
Quant Method : C:\msdchem\1\METHODS\B011322.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Jan 14 14:09:55 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	2-Chloronaphthalene	40.000	37.618	6.0	100	-0.02
53	T	1-Chloronaphthalene	40.000	42.432	-6.1	100	-0.01
54	T	2-Nitroaniline	40.000	38.462	3.8	99	-0.02
55	T	3-Nitroaniline	40.000	39.023	2.4	100	-0.02
56	T	Pentachlorobenzene	40.000	39.420	1.4	100	-0.01
57	T	4-Nitroaniline	40.000	38.553	3.6	99	-0.04
58	T	2-Naphthylamine	40.000	39.727	0.7	100	-0.02
59	T	1-Naphthylamine	40.000	40.025	-0.1	101	-0.02
60	T	Dimethyl phthalate	40.000	39.700	0.7	101	-0.02
61	T	Acenaphthylene	40.000	40.078	-0.2	99	-0.01
62	T	2,6-Dinitrotoluene	40.000	38.479	3.8	99	-0.02
63	CCC	Acenaphthene	40.000	40.108	-0.3	100	-0.01
64	PC	2,4-Dinitrophenol	40.000	35.559	11.1	86	-0.02
65	T	Dibenzofuran	40.000	40.000	0.0	99	-0.01
66	PC	4-Nitrophenol	40.000	39.102	2.2	99	-0.03
67	M	2,4-Dinitrotoluene	40.000	38.895	2.8	99	-0.02
68	T	2,3,4,6-Tetrachlorophenol	40.000	39.377	1.6	103	-0.02
69	T	Diethyl phthalate	40.000	39.361	1.6	100	-0.02
70	T	Fluorene	40.000	39.665	0.8	99	-0.01
71	T	4-Chlorophenyl phenyl ether	40.000	39.318	1.7	100	0.00
72	S	2,4,6-Tribromophenol	40.000	39.139	2.2	103	-0.02
73	I	Phenanthrene-d10	40.000	40.000	0.0	100	0.00
74	T	4,6-Dinitro-2-methylphenol	40.000	33.498	16.3	92	-0.03
75	T	Azobenzene	40.000	39.554	1.1	97	-0.01
76	T	1,2-Diphenylhydrazine	40.000	39.775	0.6	100	-0.01
77	CCC	Diphenylamine	40.000	39.924	0.2	100	-0.02
78	T	N-Nitrosodiphenylamine	40.000	39.723	0.7	98	-0.02
79	T	4-Bromophenyl phenyl ether	40.000	39.858	0.4	100	-0.01
80	T	Phenacetin	40.000	38.596	3.5	97	-0.03
81	T	Hexachlorobenzene	40.000	39.812	0.5	101	-0.01
82		Atrazine	40.000	39.869	0.3	98	-0.02
83	T	4-Aminobiphenyl	40.000	40.387	-1.0	99	-0.02
84	CCC	Pentachlorophenol	40.000	38.506	3.7	103	-0.02
85	T	Pentachloronitrobenzene	40.000	40.127	-0.3	101	-0.02
86	T	Pronamide	40.000	38.960	2.6	98	-0.02
87	T	Phenanthrene	40.000	40.063	-0.2	99	-0.01
88	T	Anthracene	40.000	40.197	-0.5	99	-0.02
89	T	Carbazole	40.000	40.405	-1.0	100	-0.02
90	T	Di-n-butyl phthalate	40.000	39.560	1.1	97	-0.01
91	CCC	Fluoranthene	40.000	39.904	0.2	99	-0.02
92	I	Chrysene-d12	40.000	40.000	0.0	99	-0.01
93	T	Pyrene	40.000	40.592	-1.5	100	-0.01
94	S	4-Terphenyl-d14	40.000	39.888	0.3	99	-0.01
95	T	Benzidine	40.000	37.507	6.2	87	-0.01
96	T	p-Dimethylaminoazobenzene	40.000	39.130	2.2	98	-0.01
97	T	Butyl benzyl phthalate	40.000	38.905	2.7	96	0.00
98	T	Benz(a)anthracene	40.000	39.740	0.6	99	-0.01
99	T	3,3'-Dichlorobenzidine	40.000	39.421	1.4	93	-0.01
100	T	Chrysene	40.000	40.167	-0.4	98	-0.02
101	T	Bis(2-ethylhexyl)phthalate	40.000	40.355	-0.9	96	0.00
102	CCC	Di-n-octyl phthalate	40.000	37.368	6.6	93	-0.01

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R220114\
Data File : R2011439.D
Acq On : 14 Jan 2022 5:03 pm
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 17 14:52:27 2022
Quant Method : C:\msdchem\1\METHODS\B011322.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Jan 14 14:09:55 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	40.000	37.694	5.8	94	-0.02
104	T	Indeno[1,2,3-cd]pyrene	40.000	38.116	4.7	97	-0.03
105	I	Perylene-d12	40.000	40.000	0.0	99	0.00
106	T	Benzo[b]fluoranthene	40.000	38.058	4.9	98	0.00
107	T	Benzo[k]fluoranthene	40.000	44.168	-10.4	102	-0.02
108	CCC	Benzo[a]pyrene	40.000	39.523	1.2	98	-0.02
109	T	Dibenz(a,j)acridine	40.000	38.171	4.6	96	-0.02
110	T	Dibenz(a,h)anthracene	40.000	39.257	1.9	98	-0.02
111	T	Benzo[g,h,i]perylene	40.000	38.518	3.7	97	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R220114\
Data File : R2011439.D
Acq On : 14 Jan 2022 5:03 pm
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 17 14:52:27 2022
Quant Method : C:\msdchem\1\METHODS\B011322.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Jan 14 14:09:55 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
2		Pyridine	1.519	1.542	-1.5	99	0.00
3	T	2-Picoline	1.566	1.594	-1.8	99	0.00
4	T	Methyl methanesulfonate	0.723	0.706	2.4	98	-0.01
5	S	2-Fluorophenol	1.290	1.286	0.3	100	-0.01
6	T	Ethyl methanesulfonate	0.994	0.972	2.2	97	-0.01
7	C	Benzaldehyde	0.852	0.901	-5.8#	98	0.00
8	T	Aniline	0.894	0.900	-0.7	95	0.00
9	S	Phenol-d5	1.550	1.533	1.1	99	-0.02
10	C	Phenol	1.883	1.879	0.2	100	-0.02
11	T	Bis(2-chloroethyl)ether	1.333	1.338	-0.4	99	-0.01
12	T	2-Chlorophenol	1.415	1.393	1.6	98	-0.01
13	T	1,3-Dichlorobenzene	1.610	1.621	-0.7	101	0.00
14	CCC	1,4-Dichlorobenzene	1.619	1.624	-0.3	100	0.00
15	T	1,2-Dichlorobenzene	1.524	1.535	-0.7	100	0.00
16	T	Benzyl alcohol	0.939	0.921	1.9	98	-0.02
17	T	Bis(2-chloroisopropyl)ether	1.722	1.684	2.2	97	0.00
18	T	2-Methylphenol	1.076	1.074	0.2	100	-0.02
19	T	3,4-Methylphenol	1.396	1.401	-0.4	99	-0.03
20	PC	N-Nitrosodi-n-propylamine	0.985	0.970	1.5	98	-0.02
21	T	N-Nitrosodimethylamine	0.608	0.581	4.4	98	0.00
22	T	Hexachloroethane	0.590	0.587	0.5	99	0.00
23	I	Naphthalene-d8	1.000	1.000	0.0	101	0.00
24	S	Nitrobenzene-d5	0.344	0.332	3.5	98	-0.01
25	T	Acetophenone	0.474	0.479	-1.1	100	-0.02
26	M	Nitrobenzene	0.182	0.178	2.2	99	-0.02
27	T	N-Nitrosopiperidine	0.180	0.175	2.8	99	-0.02
28	T	Isophorone	0.680	0.669	1.6	99	-0.02
29	CCC	2-Nitrophenol	0.177	0.164	7.3	98	0.00
30	T	2,4-Dimethylphenol	0.324	0.324	0.0	101	-0.02
31	T	Bis(2-chloroethoxy)methane	0.416	0.413	0.7	99	-0.01
32	CCC	2,4-Dichlorophenol	0.310	0.305	1.6	99	-0.02
33	T	1,2,4-Trichlorobenzene	0.352	0.351	0.3	101	0.00
34	T	Naphthalene	1.062	1.079	-1.6	101	-0.01
35	T	Benzoic acid	0.092	0.060	34.8#	88	-0.09
36	T	2,6-Dichlorophenol	0.305	0.303	0.7	100	-0.01
37	T	4-Chloroaniline	0.472	0.468	0.8	99	-0.02
38	CCC	Hexachlorobutadiene	0.210	0.207	1.4	100	0.00
39	T	a,a-Dimethylphenethylamine	0.841	0.778	7.5	93	-0.14
40		Caprolactam	0.121	0.116	4.1	97	-0.09
41	CCC	4-Chloro-3-methylphenol	0.307	0.303	1.3	100	-0.02
42	T	N-Nitroso-di-n-butylamine	0.265	0.235	11.3	99	-0.02
43	T	2-Methylnaphthalene	0.618	0.619	-0.2	99	-0.01
44	T	1-Methylnaphthalene	0.611	0.612	-0.2	99	0.00
45	I	Acenaphthene-d10	1.000	1.000	0.0	101	0.00
46	T	1,2,4,5-Tetrachlorobenzene	0.612	0.598	2.3	99	-0.01
47	PC	Hexachlorocyclopentadiene	0.322	0.283	12.1	90	0.00
48	CCC	2,4,6-Trichlorophenol	0.370	0.361	2.4	101	-0.01
49	T	2,4,5-Trichlorophenol	0.414	0.412	0.5	98	-0.02
50	S	2-Fluorobiphenyl	1.344	1.335	0.7	99	-0.01
51		Biphenyl	1.481	1.491	-0.7	100	-0.01

Data Path : C:\msdchem\1\DATA\R220114\
Data File : R2011439.D
Acq On : 14 Jan 2022 5:03 pm
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 17 14:52:27 2022
Quant Method : C:\msdchem\1\METHODS\B011322.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Jan 14 14:09:55 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	T	2-Chloronaphthalene	1.218	1.145	6.0	100	-0.02
53	T	1-Chloronaphthalene	1.057	1.121	-6.1	100	-0.01
54	T	2-Nitroaniline	0.310	0.298	3.9	99	-0.02
55	T	3-Nitroaniline	0.346	0.338	2.3	100	-0.02
56	T	Pentachlorobenzene	0.548	0.540	1.5	100	-0.01
57	T	4-Nitroaniline	0.365	0.352	3.6	99	-0.04
58	T	2-Naphthylamine	1.241	1.232	0.7	100	-0.02
59	T	1-Naphthylamine	1.283	1.283	0.0	101	-0.02
60	T	Dimethyl phthalate	1.309	1.299	0.8	101	-0.02
61	T	Acenaphthylene	1.808	1.811	-0.2	99	-0.01
62	T	2,6-Dinitrotoluene	0.292	0.281	3.8	99	-0.02
63	CCC	Acenaphthene	1.096	1.099	-0.3	100	-0.01
64	PC	2,4-Dinitrophenol	0.093	0.054	41.9#	86	-0.02
65	T	Dibenzofuran	1.685	1.685	0.0	99	-0.01
66	PC	4-Nitrophenol	0.175	0.171	2.3	99	-0.03
67	M	2,4-Dinitrotoluene	0.409	0.398	2.7	99	-0.02
68	T	2,3,4,6-Tetrachlorophenol	0.318	0.313	1.6	103	-0.02
69	T	Diethyl phthalate	1.313	1.292	1.6	100	-0.02
70	T	Fluorene	1.400	1.389	0.8	99	-0.01
71	T	4-Chlorophenyl phenyl ether	0.698	0.686	1.7	100	0.00
72	S	2,4,6-Tribromophenol	0.185	0.181	2.2	103	-0.02
73	I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
74	T	4,6-Dinitro-2-methylphenol	0.090	0.068	24.4#	92	-0.03
75	T	Azobenzene	0.623	0.616	1.1	97	-0.01
76	T	1,2-Diphenylhydrazine	0.187	0.186	0.5	100	-0.01
77	CCC	Diphenylamine	0.124	0.124	0.0	100	-0.02
78	T	N-Nitrosodiphenylamine	0.593	0.589	0.7	98	-0.02
79	T	4-Bromophenyl phenyl ether	0.236	0.235	0.4	100	-0.01
80	T	Phenacetin	0.349	0.337	3.4	97	-0.03
81	T	Hexachlorobenzene	0.251	0.250	0.4	101	-0.01
82		Atrazine	0.215	0.214	0.5	98	-0.02
83	T	4-Aminobiphenyl	0.808	0.815	-0.9	99	-0.02
84	CCC	Pentachlorophenol	0.142	0.136	4.2	103	-0.02
85	T	Pentachloronitrobenzene	0.094	0.094	0.0	101	-0.02
86	T	Pronamide	0.257	0.250	2.7	98	-0.02
87	T	Phenanthrene	1.083	1.085	-0.2	99	-0.01
88	T	Anthracene	1.105	1.110	-0.5	99	-0.02
89	T	Carbazole	1.051	1.061	-1.0	100	-0.02
90	T	Di-n-butyl phthalate	1.226	1.212	1.1	97	-0.01
91	CCC	Fluoranthene	1.255	1.252	0.2	99	-0.02
92	I	Chrysene-d12	1.000	1.000	0.0	99	-0.01
93	T	Pyrene	1.253	1.271	-1.4	100	-0.01
94	S	4-Terphenyl-d14	0.966	0.963	0.3	99	-0.01
95	T	Benzidine	0.508	0.476	6.3	87	-0.01
96	T	p-Dimethylaminoazobenzene	0.287	0.280	2.4	98	-0.01
97	T	Butyl benzyl phthalate	0.543	0.528	2.8	96	0.00
98	T	Benz(a)anthracene	1.262	1.254	0.6	99	-0.01
99	T	3,3'-Dichlorobenzidine	0.455	0.449	1.3	93	-0.01
100	T	Chrysene	1.223	1.228	-0.4	98	-0.02
101	T	Bis(2-ethylhexyl)phthalate	0.731	0.737	-0.8	96	0.00
102	CCC	Di-n-octyl phthalate	1.265	1.182	6.6	93	-0.01

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R220114\
Data File : R2011439.D
Acq On : 14 Jan 2022 5:03 pm
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 17 14:52:27 2022
Quant Method : C:\msdchem\1\METHODS\B011322.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Jan 14 14:09:55 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	0.451	0.425	5.8	94	-0.02
104	T	Indeno[1,2,3-cd]pyrene	1.156	1.102	4.7	97	-0.03
105	I	Perylene-d12	1.000	1.000	0.0	99	0.00
106	T	Benzo[b]fluoranthene	1.294	1.232	4.8	98	0.00
107	T	Benzo[k]fluoranthene	1.146	1.265	-10.4	102	-0.02
108	CCC	Benzo[a]pyrene	1.083	1.070	1.2	98	-0.02
109	T	Dibenz(a,j)acridine	0.975	0.931	4.5	96	-0.02
110	T	Dibenz(a,h)anthracene	1.141	1.120	1.8	98	-0.02
111	T	Benzo[g,h,i]perylene	1.106	1.065	3.7	97	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 2

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\DATA\R220114\R2011439.D
Tune Time : 14 Jan 2022 5:03 pm

Daily Calibration File : C:\msdchem\1\DATA\R220114\R2011439.D

(2FP)	(PHL)	(NBZ)	(FBP)	(DCB)	(NPT)	(ANT)
				140098	550935	327561

(TPH)	(PHN)	(CRY)	(PRY)
	606316	613656	639038

File	Sample	Surrogate Recovery %				Internal Standard Responses		
R2011445.D								
	MB-328999	61	40	92	95	112611	442586	258806
		87	103			478735	481461	514672
R2011446.D								
	LCS-328999	62	44	102	108	107667	426764	252851
		103	117			477270	487223	508232
R2011447.D								
	2201D29-00	5*	4*	14*	16*	137742	529915	312924
		10*	19*			592751	586332	619480
R2011448.D								
	2201D29-00	6*	5*	14*	17*	134457	524782	307973
		12	18*			581170	586230	620247
R2011449.D								
	2201D29-00	8*	6*	16*	19*	135572	532346	316669
		14	20*			590235	590491	624411
R2011450.D								
	2201A74-00	29	18	71	74	145147	566118	337276
		64	75			627701	632956	677477
R2011451.D								
	2201A74-00	14*	12	69	73	148324	587458	343741
		26	77			658064	651441	695342
R2011452.D								
	2201A74-00	27	21	100	106	104648	417586	243407
		66	121			454876	455917	484571
R2011453.D								
	2201A74-00	37	27	77	77	152134	589489	350451
		62	89			653335	653138	695279
R2011454.D								
	2201A74-00	27	17	58	61	145622	570867	341692
		53	68			640085	643952	675879
R2011455.D								
	2201A74-00	0*	1*	46	48	143912	569119	335847
		0*	53			633752	636950	677118
R2011456.D								
	2201A78-00	42	25	85	85	156298	612783	382777
		673*	85			717908	714849	777426
R2011457.D								
	2201E99-00	0*	0*	12*	12*	161335	644780	378581
		0*	9*			697033	710014	779378
R2011458.D								
	2201F00-00	31	18	73	73	161168	626104	374929
		77	72			695890	713446	777225

R2011459.D								
	2201E81-00	35	20	77	77	146305	570602	337753
		84	63			632312	643568	733535
R2011460.D								
	2201E78-00	33	19	75	74	137933	540491	317798
		71	63			590798	604426	658540
R2011461.D								
	2201A68-00	96	93	101	100	141274	556755	334549
		109	110			632077	639297	502179
R2011462.D								
	2201A68-00	90	90	89	99	140017	552201	329024
		113	109			621477	620453	526543
R2011463.D								
	2201A68-00	83	83	86	95	146887	571484	340961
		104	106			652306	647180	547544
R2011464.D								
	2201A68-00	79	81	83	94	144325	570497	338667
		104	106			639458	639791	546113
R2011465.D								
	2201A68-00	89	90	89	99	131256	522041	310623
		116	110			585971	598872	504390
R2011466.D								
	2201A74-00	90	91	95	103	144050	570585	343309
		117	111			644525	653384	543017
R2011467.D								
	2201A74-01	96	95	100	106	130406	509719	306348
		121	117			577349	581975	494466
R2011468.D								
	2201A74-01	89	90	95	101	143212	568487	341211
		114	114			621498	634345	543489
R2011469.D								
	2201A74-01	97	95	100	106	151219	598600	358567
		118	121			680357	665813	511795

(fails) - fails 12hr time check * - fails criteria

Created: Mon Jan 17 15:48:24 2022 Instrument #10

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R220114\
Data File : R2011439.D
Acq On : 14 Jan 2022 5:03 pm
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 17 14:52:27 2022
Quant Method : C:\msdchem\1\METHODS\B011322.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Jan 14 14:09:55 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.354	152	140098	40.00	ng		0.00
23) Naphthalene-d8	...	5.946	136	550935	40.00	ng		0.00
45) Acenaphthene-d10	...	7.991	164	327561	40.00	ng		0.00
73) Phenanthrene-d10	...	9.647	188	606316	40.00	ng		0.00
92) Chrysene-d12	...	12.579	240	613656	40.00	ng		-0.01
105) Perylene-d12	...	14.043	264	639038	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.794	112	180181	39.87	ng		-0.01
Spiked Amount 100.000	Range 21 - 110		Recovery = 39.87%					
9) Phenol-d5	...	3.937	99	214767	39.56	ng		-0.02
Spiked Amount 100.000	Range 10 - 110		Recovery = 39.56%					
24) Nitrobenzene-d5	...	5.070	82	182998	38.67	ng		-0.01
Spiked Amount 50.000	Range 34 - 114		Recovery = 77.34%					
50) 2-Fluorobiphenyl	...	7.254	172	437327	39.75	ng		-0.01
Spiked Amount 50.000	Range 43 - 116		Recovery = 79.50%					
72) 2,4,6-Tribromophenol	...	8.878	330	59391	39.14	ng		-0.02
Spiked Amount 100.000	Range 10 - 123		Recovery = 39.14%					
94) 4-Terphenyl-d14	...	11.452	244	590997	39.89	ng		-0.01
Spiked Amount 50.000	Range 33 - 141		Recovery = 79.78%					
Target Compounds								Qvalue
2) Pyridine	...	1.523	79	216080	40.61	ng		96
3) 2-Picoline	...	2.175	93	223335	40.72	ng		99
4) Methyl methanesulfonate	...	2.613	80	98939	39.05	ng		98
6) Ethyl methanesulfonate	...	3.414	79	136242	39.13	ng		99
7) Benzaldehyde	...	3.783	105	126279	42.30	ng		99
8) Aniline	...	3.937	66	126128	40.29	ng		90
10) Phenol	...	3.959	94	263243	39.91	ng	#	33
11) Bis(2-chloroethyl)ether	...	4.050	93	187433	40.15	ng		96
12) 2-Chlorophenol	...	4.082	128	195135	39.38	ng		99
13) 1,3-Dichlorobenzene	...	4.279	146	227100	40.28	ng		100
14) 1,4-Dichlorobenzene	...	4.375	146	227506	40.11	ng		99
15) 1,2-Dichlorobenzene	...	4.568	146	215039	40.29	ng		99
16) Benzyl alcohol	...	4.568	108	129053	39.25	ng		98
17) Bis(2-chloroisopropyl)ether	...	4.765	45	235942	39.12	ng		87
18) 2-Methylphenol	...	4.749	107	150497	39.95	ng		98
19) 3,4-Methylphenol	...	4.952	107	392653	80.32	ng		99
20) N-Nitrosodi-n-propylamine	...	4.926	70	135941	39.42	ng		96
21) N-Nitrosodimethylamine	...	1.507	42	81359	38.19	ng		89
22) Hexachloroethane	...	4.995	117	82193	39.75	ng		98
25) Acetophenone	...	4.894	105	527682	80.80	ng		99
26) Nitrobenzene	...	5.091	123	98070	39.12	ng		98
27) N-Nitrosopiperidine	...	5.278	114	96324	38.82	ng		89
28) Isophorone	...	5.406	82	368473	39.33	ng		99
29) 2-Nitrophenol	...	5.497	139	90326	37.00	ng		97
30) 2,4-Dimethylphenol	...	5.609	122	178548	40.03	ng		97
31) Bis(2-chloroethoxy)methane	...	5.721	93	227688	39.77	ng		99
32) 2,4-Dichlorophenol	...	5.796	162	168102	39.38	ng		99
33) 1,2,4-Trichlorobenzene	...	5.892	180	193244	39.88	ng		99
34) Naphthalene	...	5.967	128	594550	40.63	ng		100
35) Benzoic acid	...	5.753	122	33266	41.09	ng	#	68
36) 2,6-Dichlorophenol	...	6.074	162	166707	39.72	ng		99
37) 4-Chloroaniline	...	6.069	127	257771	39.68	ng		99
38) Hexachlorobutadiene	...	6.165	225	114093	39.41	ng		99
39) a,a-Dimethylphenethylamine	...	5.855	58	428571	36.98	ng		79
40) Caprolactam	...	6.485	113	63656	38.34	ng	#	77

Data Path : C:\msdchem\1\DATA\R220114\
Data File : R2011439.D
Acq On : 14 Jan 2022 5:03 pm
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 17 14:52:27 2022
Quant Method : C:\msdchem\1\METHODS\B011322.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Jan 14 14:09:55 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.693	107	166816	39.40	ng		97
42) N-Nitroso-di-n-butylamine	6.512	84	129616	35.55	ng		86
43) 2-Methylnaphthalene	6.800	141	341044	40.09	ng		98
44) 1-Methylnaphthalene	6.912	141	337257	40.06	ng		98
46) 1,2,4,5-Tetrachlorobenzene	7.003	216	195845	39.07	ng		99
47) Hexachlorocyclopentadiene	7.009	237	92701	35.11	ng		99
48) 2,4,6-Trichlorophenol	7.153	196	118161	39.00	ng		98
49) 2,4,5-Trichlorophenol	7.190	196	135068	39.83	ng		99
51) Biphenyl	7.356	154	488355	40.26	ng		98
52) 2-Chloronaphthalene	7.356	162	375175	37.62	ng		98
53) 1-Chloronaphthalene	7.382	162	367196	42.43	ng		100
54) 2-Nitroaniline	7.495	65	97721	38.46	ng		97
55) 3-Nitroaniline	7.970	138	110608	39.02	ng	#	94
56) Pentachlorobenzene	8.184	250	176849	39.42	ng		99
57) 4-Nitroaniline	8.654	138	115352	38.55	ng		98
58) 2-Naphthylamine	8.312	143	403665	39.73	ng		100
59) 1-Naphthylamine	8.408	143	420417	40.03	ng		99
60) Dimethyl phthalate	7.746	163	425631	39.70	ng		100
61) Acenaphthylene	7.820	152	593276	40.08	ng		100
62) 2,6-Dinitrotoluene	7.788	165	91985	38.48	ng		99
63) Acenaphthene	8.023	154	359846	40.11	ng		99
64) 2,4-Dinitrophenol	8.087	184	17678	35.56	ng		91
65) Dibenzofuran	8.226	168	552004	40.00	ng		100
66) 4-Nitrophenol	8.205	109	55881	39.10	ng	#	78
67) 2,4-Dinitrotoluene	8.242	165	130306	38.90	ng	#	88
68) 2,3,4,6-Tetrachlorophenol	8.381	232	102669	39.38	ng		99
69) Diethyl phthalate	8.552	149	423114	39.36	ng		99
70) Fluorene	8.611	166	454842	39.67	ng		99
71) 4-Chlorophenyl phenyl ether	8.638	204	224724	39.32	ng		99
74) 4,6-Dinitro-2-methylphenol	8.691	198	41312	33.50	ng		98
75) Azobenzene	8.809	77	373428	39.55	ng		99
76) 1,2-Diphenylhydrazine	8.814	182	112536	39.78	ng		97
77) Diphenylamine	8.776	170	75332	39.92	ng		99
78) N-Nitrosodiphenylamine	8.776	168	356992	39.72	ng		99
79) 4-Bromophenyl phenyl ether	9.177	248	142303	39.86	ng		99
80) Phenacetin	9.156	108	204252	38.60	ng		99
81) Hexachlorobenzene	9.230	284	151540	39.81	ng		99
82) Atrazine	9.407	200	129796	39.87	ng		95
83) 4-Aminobiphenyl	9.465	169	494345	40.39	ng		100
84) Pentachlorophenol	9.460	266	82675	38.51	ng		99
85) Pentachloronitrobenzene	9.476	237	57290	40.13	ng		98
86) Pronamide	9.578	173	151790	38.96	ng		99
87) Phenanthrene	9.674	178	657556	40.06	ng		99
88) Anthracene	9.727	178	673296	40.20	ng		100
89) Carbazole	9.925	167	643533	40.40	ng		99
90) Di-n-butyl phthalate	10.384	149	734901	39.56	ng		100
91) Fluoranthene	10.988	202	759199	39.90	ng		99
93) Pyrene	11.233	202	780071	40.59	ng		100
95) Benzidine	11.169	184	292146	37.51	ng		99
96) p-Dimethylaminoazobenzene	11.618	225	172000	39.13	ng		98
97) Butyl benzyl phthalate	12.035	149	324302	38.90	ng		98
98) Benz(a)anthracene	12.569	228	769223	39.74	ng		99
99) 3,3'-Dichlorobenzidine	12.574	252	275352	39.42	ng		100
100) Chrysene	12.606	228	753359	40.17	ng		99
101) Bis(2-ethylhexyl)phthalate	12.707	149	452367	40.35	ng		98
102) Di-n-octyl phthalate	13.386	149	725439	37.37	ng		97
103) 3-Methylcholanthrene	14.315	268	260863	37.69	ng		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R220114\
Data File : R2011439.D
Acq On : 14 Jan 2022 5:03 pm
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 17 14:52:27 2022
Quant Method : C:\msdchem\1\METHODS\B011322.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Jan 14 14:09:55 2022
Response via : Initial Calibration

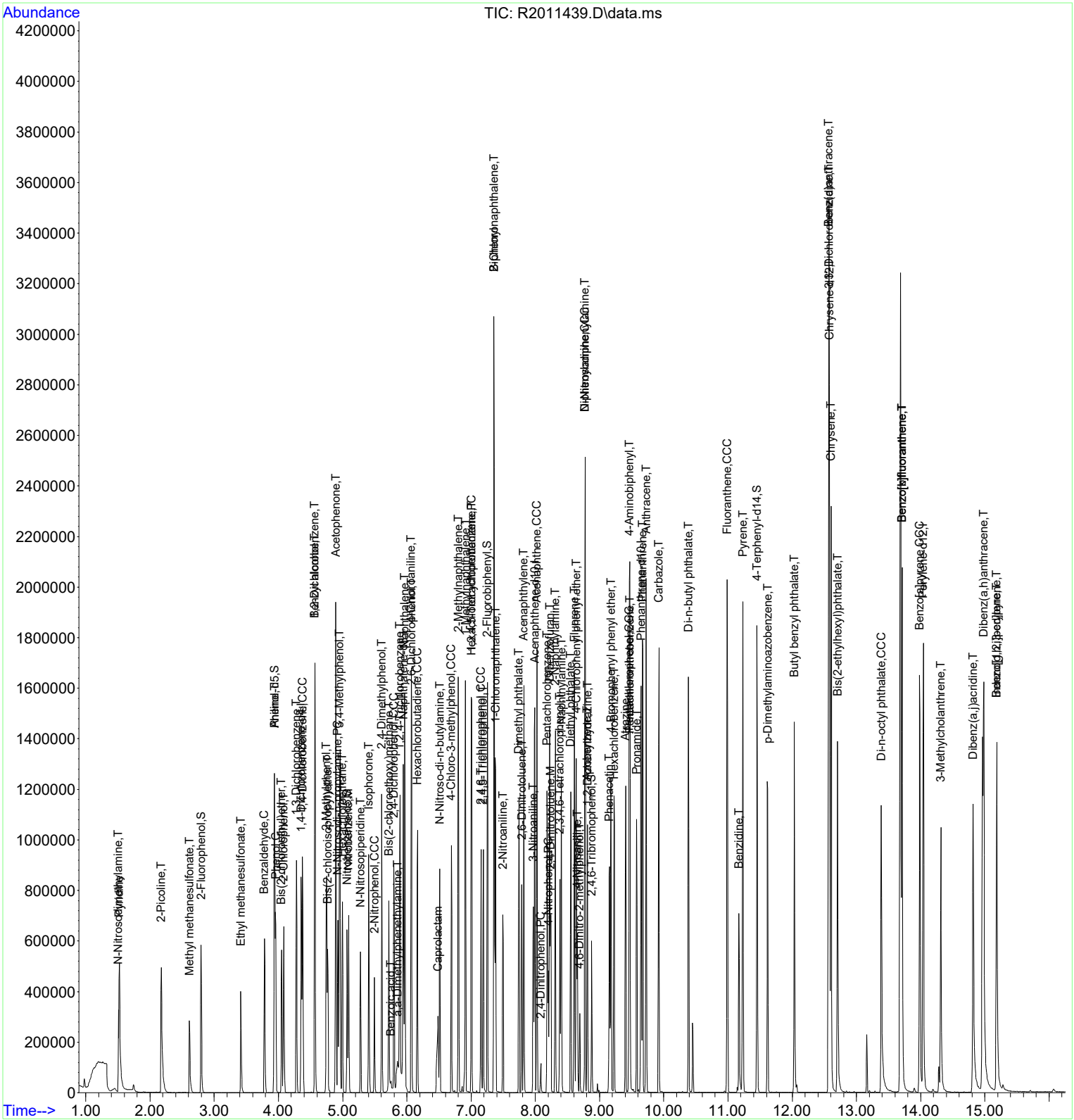
Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	15.186	276	675952	38.12	ng	95
106) Benzo[b]fluoranthene	...	13.712	252	787019	38.06	ng	97
107) Benzo[k]fluoranthene	...	13.712	252	808584	44.17	ng	98
108) Benzo[a]pyrene	...	13.984	252	683710	39.52	ng	99
109) Dibenz(a,j)acridine	...	14.817	279	594849	38.17	ng	99
110) Dibenz(a,h)anthracene	...	14.983	278	715478	39.26	ng	98
111) Benzo[g,h,i]perylene	...	15.186	276	680682	38.52	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R220114\
Data File : R2011439.D
Acq On : 14 Jan 2022 5:03 pm
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 17 14:52:27 2022
Quant Method : C:\msdchem\1\METHODS\B011322.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Jan 14 14:09:55 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R220114\
Data File : R2011456.D
Acq On : 14 Jan 2022 10:16 pm
Operator : YH
Sample : 2201A78-001B
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jan 17 15:30:11 2022
Quant Method : C:\msdchem\1\METHODS\B011322.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Jan 14 14:09:55 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.362	152	156298	40.00	ng		0.00
23) Naphthalene-d8	...	5.949	136	612783	40.00	ng		0.00
45) Acenaphthene-d10	...	7.994	164	382777	40.00	ng		0.00
73) Phenanthrene-d10	...	9.650	188	717908	40.00	ng		0.00
92) Chrysene-d12	...	12.588	240	714849	40.00	ng		0.00
105) Perylene-d12	...	14.051	264	777426	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.803	112	212211	42.10	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 42.10%					
9) Phenol-d5	...	4.005	99	151629	25.04	ng		0.05
Spiked Amount 100.000	Range 10 - 110		Recovery = 25.04%					
24) Nitrobenzene-d5	...	5.078	82	222629	42.29	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 84.58%					
50) 2-Fluorobiphenyl	...	7.263	172	543704	42.29	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 84.58%					
72) 2,4,6-Tribromophenol	...	8.902	330	1192847	672.69	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 672.69%#					
94) 4-Terphenyl-d14	...	11.471	244	729682	42.28	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 84.56%					
Target Compounds								Qvalue
2) Pyridine	...	0.000	79	0	N.D.	d		
3) 2-Picoline	...	0.000	93	0	N.D.	d		
4) Methyl methanesulfonate	...	0.000	80	0	N.D.	d		
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.	d		
7) Benzaldehyde	...	0.000	105	0	N.D.	d		
8) Aniline	...	0.000	66	0	N.D.			
10) Phenol	...	4.031	94	11040023	1500.37	ng	#	63
11) Bis(2-chloroethyl)ether	...	0.000	93	0	N.D.	d		
12) 2-Chlorophenol	...	4.095	128	203074	36.73	ng		81
13) 1,3-Dichlorobenzene	...	0.000	146	0	N.D.			
14) 1,4-Dichlorobenzene	...	0.000	146	0	N.D.			
15) 1,2-Dichlorobenzene	...	0.000	146	0	N.D.			
16) Benzyl alcohol	...	4.603	108	104416	28.47	ng		97
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0	N.D.	d		
18) 2-Methylphenol	...	4.774	107	295925	70.41	ng	#	86
19) 3,4-Methylphenol	...	4.993	107	1563132	286.59	ng	#	92
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.	d		
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D.	d		
22) Hexachloroethane	...	0.000	117	0	N.D.	d		
25) Acetophenone	...	4.918	105	742529	102.22	ng		97
26) Nitrobenzene	...	0.000	123	0	N.D.	d		
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.	d		
28) Isophorone	...	0.000	82	0	N.D.	d		
29) 2-Nitrophenol	...	0.000	139	0	N.D.	d		
30) 2,4-Dimethylphenol	...	5.623	122	74829	15.08	ng		96
31) Bis(2-chloroethoxy)methane	...	0.000	93	0	N.D.	d		
32) 2,4-Dichlorophenol	...	0.000	162	0	N.D.	d		
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.			
34) Naphthalene	...	5.970	128	673600	41.39	ng		99
35) Benzoic acid	...	6.109	122	1945950	974.18	ng		88
36) 2,6-Dichlorophenol	...	0.000	162	0	N.D.	d		
37) 4-Chloroaniline	...	0.000	127	0	N.D.	d		
38) Hexachlorobutadiene	...	0.000	225	0	N.D.			
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D.	d		
40) Caprolactam	...	6.648	113	133310	72.19	ng		95

Data Path : C:\msdchem\1\DATA\R220114\
Data File : R2011456.D
Acq On : 14 Jan 2022 10:16 pm
Operator : YH
Sample : 2201A78-001B
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jan 17 15:30:11 2022
Quant Method : C:\msdchem\1\METHODS\B011322.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Jan 14 14:09:55 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	...	0.000	107	0	N.D. d		
42) N-Nitroso-di-n-butylamine	...	0.000	84	0	N.D. d		
43) 2-Methylnaphthalene	...	6.809	141	43616	4.61 ng		88
44) 1-Methylnaphthalene	...	6.915	141	86753	9.27 ng		95
46) 1,2,4,5-Tetrachlorobenzene	...	0.000	216	0	N.D. d		
47) Hexachlorocyclopentadiene	...	0.000	237	0	N.D.		
48) 2,4,6-Trichlorophenol	...	7.182	196	8933	2.52 ng	#	78
49) 2,4,5-Trichlorophenol	...	7.182	196	8933	2.25 ng	#	23
51) Biphenyl	...	7.369	154	134040	9.46 ng		98
52) 2-Chloronaphthalene	...	0.000	162	0	N.D.		
53) 1-Chloronaphthalene	...	0.000	162	0	N.D.		
54) 2-Nitroaniline	...	0.000	65	0	N.D. d		
55) 3-Nitroaniline	...	0.000	138	0	N.D.		
56) Pentachlorobenzene	...	0.000	250	0	N.D. d		
57) 4-Nitroaniline	...	0.000	138	0	N.D. d		
58) 2-Naphthylamine	...	0.000	143	0	N.D. d		
59) 1-Naphthylamine	...	0.000	143	0	N.D. d		
60) Dimethyl phthalate	...	0.000	163	0	N.D. d		
61) Acenaphthylene	...	7.829	152	101894	5.89 ng		94
62) 2,6-Dinitrotoluene	...	0.000	165	0	N.D. d		
63) Acenaphthene	...	0.000	154	0	N.D. d		
64) 2,4-Dinitrophenol	...	0.000	184	0	N.D. d		
65) Dibenzofuran	...	0.000	168	0	N.D. d		
66) 4-Nitrophenol	...	0.000	109	0	N.D.		
67) 2,4-Dinitrotoluene	...	0.000	165	0	N.D. d		
68) 2,3,4,6-Tetrachlorophenol	...	0.000	232	0	N.D.		
69) Diethyl phthalate	...	0.000	149	0	N.D. d		
70) Fluorene	...	8.608	166	41575	3.10 ng	#	83
71) 4-Chlorophenyl phenyl ether	...	0.000	204	0	N.D.		
74) 4,6-Dinitro-2-methylphenol	...	0.000	198	0	N.D. d		
75) Azobenzene	...	0.000	77	0	N.D. d		
76) 1,2-Diphenylhydrazine	...	0.000	182	0	N.D. d		
77) Diphenylamine	...	0.000	170	0	N.D. d		
78) N-Nitrosodiphenylamine	...	0.000	168	0	N.D. d		
79) 4-Bromophenyl phenyl ether	...	0.000	248	0	N.D.		
80) Phenacetin	...	0.000	108	0	N.D. d		
81) Hexachlorobenzene	...	0.000	284	0	N.D.		
82) Atrazine	...	0.000	200	0	N.D. d		
83) 4-Aminobiphenyl	...	0.000	169	0	N.D. d		
84) Pentachlorophenol	...	0.000	266	0	N.D.		
85) Pentachloronitrobenzene	...	0.000	237	0	N.D. d		
86) Pronamide	...	0.000	173	0	N.D. d		
87) Phenanthrene	...	9.671	178	88282	4.54 ng		93
88) Anthracene	...	9.725	178	14033	0.71 ng	#	18
89) Carbazole	...	0.000	167	0	N.D. d		
90) Di-n-butyl phthalate	...	0.000	149	0	N.D. d		
91) Fluoranthene	...	0.000	202	0	N.D. d		
93) Pyrene	...	0.000	202	0	N.D. d		
95) Benzidine	...	0.000	184	0	N.D. d		
96) p-Dimethylaminoazobenzene	...	0.000	225	0	N.D.		
97) Butyl benzyl phthalate	...	0.000	149	0	N.D. d		
98) Benz(a)anthracene	...	0.000	228	0	N.D. d		
99) 3,3'-Dichlorobenzidine	...	0.000	252	0	N.D. d		
100) Chrysene	...	0.000	228	0	N.D. d		
101) Bis(2-ethylhexyl)phthalate	...	12.710	149	144882	11.10 ng		98
102) Di-n-octyl phthalate	...	0.000	149	0	N.D. d		
103) 3-Methylcholanthrene	...	0.000	268	0	N.D. d		

Data Path : C:\msdchem\1\DATA\R220114\
Data File : R2011456.D
Acq On : 14 Jan 2022 10:16 pm
Operator : YH
Sample : 2201A78-001B
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 26 Sample Multiplier: 1

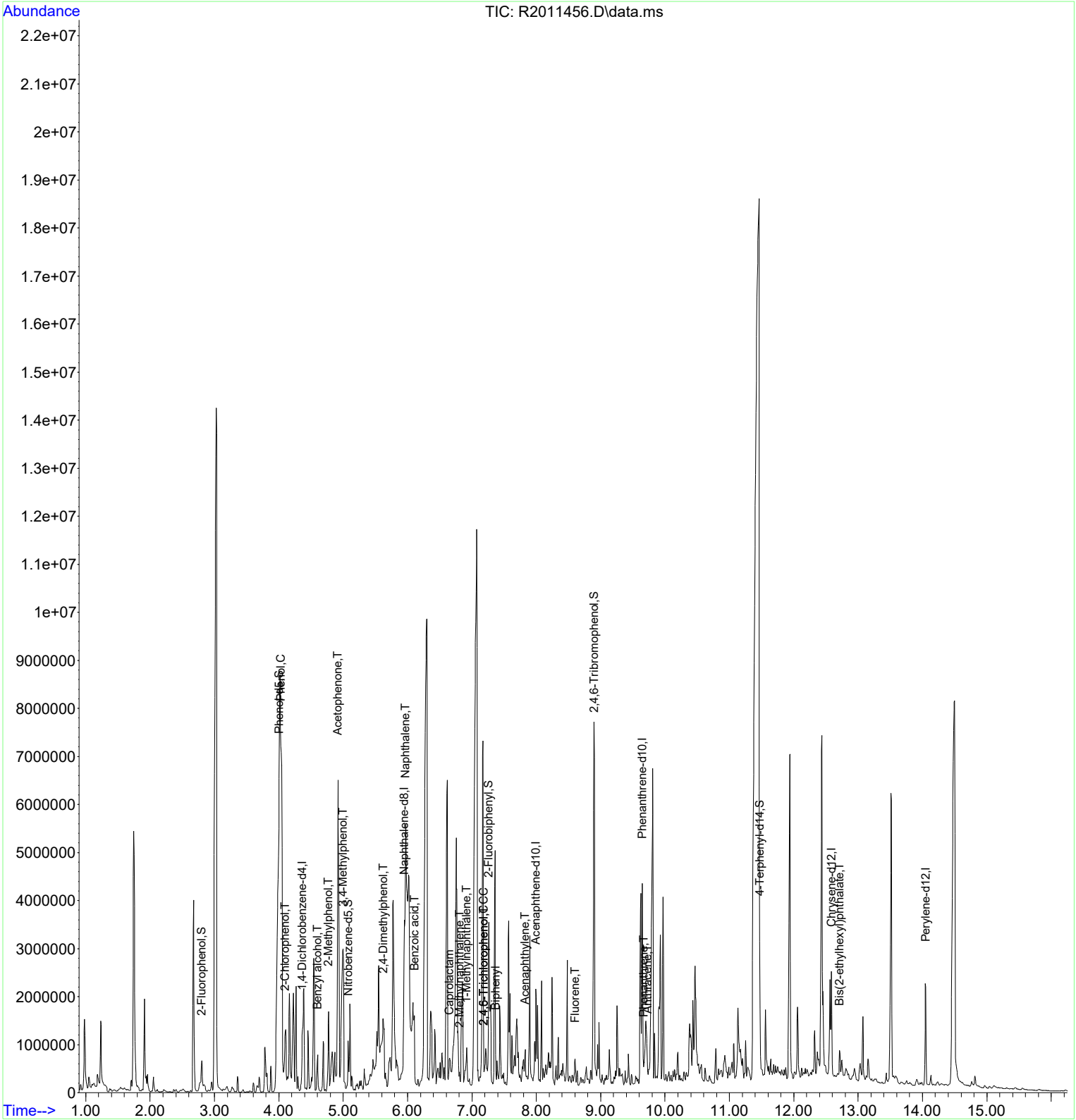
Quant Time: Jan 17 15:30:11 2022
Quant Method : C:\msdchem\1\METHODS\B011322.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Jan 14 14:09:55 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	0.000	276	0		N.D.
106) Benzo[b]fluoranthene	...	0.000	252	0		N.D. d
107) Benzo[k]fluoranthene	...	0.000	252	0		N.D. d
108) Benzo[a]pyrene	...	0.000	252	0		N.D. d
109) Dibenz(a,j)acridine	...	0.000	279	0		N.D. d
110) Dibenz(a,h)anthracene	...	0.000	278	0		N.D.
111) Benzo[g,h,i]perylene	...	0.000	276	0		N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\R220114\
Data File : R2011456.D
Acq On : 14 Jan 2022 10:16 pm
Operator : YH
Sample : 2201A78-001B
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jan 17 15:30:11 2022
Quant Method : C:\msdchem\1\METHODS\B011322.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Jan 14 14:09:55 2022
Response via : Initial Calibration



Injection Log

Directory: C:\msdchem\1\data\T220113

Line	Vial	FileName	Multiplier	SampleName		Misc Info	Injected
1	1	T22011301.D	1.	DFTPP		TUNE DFTPP_4	13 Jan 2022 10:01
2	2	T22011303.D	1.	BNA40		CCV 8270_TCL4.2_W	13 Jan 2022 10:30
3	3	T22011304.D	1.	EX60		CCV 8270_TCL4.2_W	13 Jan 2022 11:01
4	4	T22011305.D	1.	ORP977-7		CCV 8270_TCL4.2_W	13 Jan 2022 11:27
5	2	T22011306.D	1.	BNA40		CCV 8270_TCL4.2_W	13 Jan 2022 17:44
6	6	T22011310.D	1.	2112P72-007D	5X	SAMP 1311_B	13 Jan 2022 11:56
7	7	T22011311.D	1.	2112P72-008D	5X	SAMP 1311_B	13 Jan 2022 12:25
8	8	T22011312.D	1.	2112P72-009D	5X	SAMP 1311_B	13 Jan 2022 12:53
9	9	T22011313.D	1.	2112P72-010D	5X	SAMP 1311_B	13 Jan 2022 13:23
10	10	T22011314.D	1.	2112P72-011D	5X	SAMP 1311_B	13 Jan 2022 13:52
11	11	T22011315.D	1.	2201682-001B	5X	SAMP 1311_B	13 Jan 2022 14:21
12	12	T22011316.D	1.	2201799-001B	5X	SAMP 1311_B	13 Jan 2022 15:48
13	13	T22011317.D	1.	2201799-002B	5X	SAMP 1311_B	13 Jan 2022 16:17
14	14	T22011318.D	1.	2201799-003B	5X	SAMP 1311_B	13 Jan 2022 16:46
15	15	T22011319.D	1.	2201925-004D		SAMP 8270C_W	13 Jan 2022 17:15
16	16	T22011320.D	1.	MB-328401		MBLK 8270_TCL4.2_X	13 Jan 2022 14:50
17	17	T22011321.D	1.	LCS-328401		LCS 8270_TCL4.2_X	13 Jan 2022 15:19
18	18	T22011322.D	1.	MB-328904		MBLK 8270_TCL4.2_W	13 Jan 2022 18:13
19	19	T22011323.D	1.	LCS-328904		LCS 8270_TCL4.2_W	13 Jan 2022 18:42
20	20	T22011324.D	1.	2201A74-006B		SAMP 8270_TCL4.2_W	13 Jan 2022 19:10
21	21	T22011325.D	1.	2201A74-006BMS		MS 8270_TCL4.2_W	13 Jan 2022 19:38
22	22	T22011326.D	1.	2201A74-006BMSD		MSD 8270_TCL4.2_W	13 Jan 2022 20:05
23	23	T22011329.D	1.	MB-328821		MBLK 8270_TCL4.2_S	13 Jan 2022 20:32
24	24	T22011330.D	1.	LCS-328821		LCS 8270_TCL4.2_S	13 Jan 2022 20:59
25	25	T22011331.D	1.	2201A68-020C		SAMP 8270_TCL4.2_S	13 Jan 2022 21:27
26	26	T22011332.D	1.	2201A68-020CMS		MS 8270_TCL4.2_S	13 Jan 2022 21:56
27	27	T22011333.D	1.	2201A68-020CMSD		MSD 8270_TCL4.2_S	13 Jan 2022 22:25

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011303.D
Acq On : 13 Jan 2022 10:30 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 13 15:56:48 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	126	-0.01
2		Pyridine	40.000	36.471	8.8	113	-0.01
3	T	2-Picoline	40.000	39.289	1.8	124	-0.02
4	T	Methyl methanesulfonate	40.000	49.989	-25.0	160	0.00
5	S	2-Fluorophenol	40.000	39.017	2.5	123	0.00
6	T	Ethyl methanesulfonate	40.000	38.744	3.1	124	0.00
7	P	Benzaldehyde	40.000	46.697	-16.7	150	0.00
8	T	Aniline	40.000	51.139	-27.8#	170	0.00
9	S	Phenol-d5	40.000	41.927	-4.8	130	0.01
10	P	Phenol	40.000	41.803	-4.5	127	0.01
11	P	Bis(2-chloroethyl)ether	40.000	43.103	-7.8	132	0.00
12	P	2-Chlorophenol	40.000	41.152	-2.9	129	0.00
13	T	1,3-Dichlorobenzene	40.000	38.995	2.5	121	-0.01
14	CCC	1,4-Dichlorobenzene	40.000	40.080	-0.2	125	-0.01
15	T	1,2-Dichlorobenzene	40.000	40.400	-1.0	127	-0.01
16	T	Benzyl alcohol	40.000	40.655	-1.6	128	0.00
17	T	Bis(2-chloroisopropyl)ether	40.000	49.464	-23.7	153	0.00
18	P	2-Methylphenol	40.000	43.431	-8.6	135	0.00
19	P	3,4-Methylphenol	80.000	84.002	-5.0	130	0.00
20	P	N-Nitrosodi-n-propylamine	40.000	45.680	-14.2	140	-0.01
21	T	N-Nitrosodimethylamine	40.000	36.349	9.1	116	0.00
22	P	Hexachloroethane	40.000	45.008	-12.5	139	-0.01
23	I	Naphthalene-d8	40.000	40.000	0.0	131	0.00
24	S	Nitrobenzene-d5	40.000	44.812	-12.0	145	0.00
25	P	Acetophenone	80.000	82.184	-2.7	131	-0.01
26	P	Nitrobenzene	40.000	39.559	1.1	129	0.00
27	T	N-Nitrosopiperidine	40.000	39.756	0.6	131	0.00
28	P	Isophorone	40.000	43.524	-8.8	140	-0.01
29	P	2-Nitrophenol	40.000	42.086	-5.2	141	0.00
30	P	2,4-Dimethylphenol	40.000	37.838	5.4	122	0.00
31	P	Bis(2-chloroethoxy)methane	40.000	39.828	0.4	128	0.00
32	P	2,4-Dichlorophenol	40.000	39.692	0.8	127	0.03
33	T	1,2,4-Trichlorobenzene	40.000	38.631	3.4	125	0.00
34	P	Naphthalene	40.000	39.112	2.2	124	0.00
35	T	Benzoic acid	40.000	39.257	1.9	38	-0.02
36	T	2,6-Dichlorophenol	40.000	39.829	0.4	127	0.00
37	P	4-Chloroaniline	40.000	43.966	-9.9	146	0.00
38	P	Hexachlorobutadiene	40.000	39.639	0.9	129	0.00
39	T	a,a-Dimethylphenethylamine	40.000	38.923	2.7	129	0.00
40	P	Caprolactam	40.000	41.215	-3.0	131	-0.02
41	P	4-Chloro-3-methylphenol	40.000	40.225	-0.6	130	0.00
42	T	N-Nitroso-di-n-butylamine	40.000	57.241	-43.1#	188	0.00
43	P	2-Methylnaphthalene	40.000	40.038	-0.1	126	0.00
44	T	1-Methylnaphthalene	40.000	39.024	2.4	124	0.00
45	I	Acenaphthene-d10	40.000	40.000	0.0	130	0.00
46	T	1,2,4,5-Tetrachlorobenzene	40.000	37.945	5.1	120	0.00
47	P	Hexachlorocyclopentadiene	40.000	30.407	24.0	97	0.00
48	P	2,4,6-Trichlorophenol	40.000	39.021	2.4	130	0.00
49	P	2,4,5-Trichlorophenol	40.000	36.076	9.8	118	0.00
50	S	2-Fluorobiphenyl	40.000	39.030	2.4	123	0.00
51		Biphenyl	40.000	39.305	1.7	120	0.00
52	P	2-Chloronaphthalene	40.000	39.115	2.2	125	0.00

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011303.D
Acq On : 13 Jan 2022 10:30 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 13 15:56:48 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
53	T	1-Chloronaphthalene	40.000	40.530	-1.3	126	0.00
54	P	2-Nitroaniline	40.000	49.091	-22.7	163	0.00
55	P	3-Nitroaniline	40.000	42.235	-5.6	142	0.00
56	T	Pentachlorobenzene	40.000	38.164	4.6	123	0.00
57	P	4-Nitroaniline	40.000	44.627	-11.6	149	0.00
58	T	2-Naphthylamine	40.000	32.601	18.5	105	0.00
59	T	1-Naphthylamine	40.000	40.022	-0.1	145	0.00
60	P	Dimethyl phthalate	40.000	40.116	-0.3	130	0.00
61	P	Acenaphthylene	40.000	40.007	-0.0	125	0.00
62	P	2,6-Dinitrotoluene	40.000	45.102	-12.8	146	0.00
63	P	Acenaphthene	40.000	38.457	3.9	121	0.00
64	P	2,4-Dinitrophenol	40.000	42.986	-7.5	182	0.00
65	P	Dibenzofuran	40.000	39.150	2.1	123	0.00
66	P	4-Nitrophenol	40.000	40.724	-1.8	136	0.01
67	P	2,4-Dinitrotoluene	40.000	44.653	-11.6	146	0.00
68	T	2,3,4,6-Tetrachlorophenol	40.000	28.192	29.5#	93	0.00
69	P	Diethyl phthalate	40.000	41.204	-3.0	131	0.00
70	P	Fluorene	40.000	39.517	1.2	124	0.00
71	P	4-Chlorophenyl phenyl ether	40.000	37.974	5.1	122	0.00
72	S	2,4,6-Tribromophenol	40.000	35.073	12.3	117	0.00
73	I	Phenanthrene-d10	40.000	40.000	0.0	124	0.00
74	P	4,6-Dinitro-2-methylphenol	40.000	42.832	-7.1	161	0.00
75	T	Azobenzene	40.000	43.060	-7.7	132	0.00
76	T	1,2-Diphenylhydrazine	40.000	39.442	1.4	119	0.00
77	CCC	Diphenylamine	40.000	40.488	-1.2	122	0.00
78	P	N-Nitrosodiphenylamine	40.000	40.959	-2.4	124	0.00
79	P	4-Bromophenyl phenyl ether	40.000	39.424	1.4	122	0.00
80	T	Phenacetin	40.000	47.161	-17.9	143	0.00
81	P	Hexachlorobenzene	40.000	37.958	5.1	116	0.00
82	P	Atrazine	40.000	48.622	-21.6	148	0.00
83	T	4-Aminobiphenyl	40.000	46.272	-15.7	181	0.00
84	P	Pentachlorophenol	40.000	30.365	24.1	92	0.00
85	T	Pentachloronitrobenzene	40.000	44.518	-11.3	138	0.00
86	T	Pronamide	40.000	43.891	-9.7	136	0.00
87	P	Phenanthrene	40.000	38.928	2.7	119	0.00
88	P	Anthracene	40.000	40.151	-0.4	121	0.00
89	P	Carbazole	40.000	41.532	-3.8	130	0.00
90	P	Di-n-butyl phthalate	40.000	46.676	-16.7	143	0.00
91	P	Fluoranthene	40.000	40.832	-2.1	122	0.00
92	I	Chrysene-d12	40.000	40.000	0.0	120	0.00
93	P	Pyrene	40.000	40.440	-1.1	120	0.00
94	S	4-Terphenyl-d14	40.000	40.199	-0.5	123	0.00
95	T	Benzidine	40.000	39.002	2.5	125	0.00
96	T	p-Dimethylaminoazobenzene	40.000	43.111	-7.8	142	0.00
97	P	Butyl benzyl phthalate	40.000	48.836	-22.1	155	0.00
98	P	Benz(a)anthracene	40.000	41.408	-3.5	127	0.00
99	P	3,3'-Dichlorobenzidine	40.000	44.535	-11.3	142	0.00
100	P	Chrysene	40.000	38.994	2.5	120	0.00
101	P	Bis(2-ethylhexyl)phthalate	40.000	45.774	-14.4	151	0.00
102	P	Di-n-octyl phthalate	40.000	49.786	-24.5	171	0.00
103	T	3-Methylcholanthrene	40.000	40.925	-2.3	132	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011303.D
Acq On : 13 Jan 2022 10:30 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 13 15:56:48 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
104	I	Perylene-d12	40.000	40.000	0.0	129	0.00
105	P	Benzo[b]fluoranthene	40.000	36.027	9.9	117	0.00
106	P	Benzo[k]fluoranthene	40.000	42.269	-5.7	124	0.00
107	P	Benzo[a]pyrene	40.000	40.573	-1.4	129	0.00
108	T	Dibenz(a,j)acridine	40.000	42.766	-6.9	139	0.00
109		Indeno[1,2,3-cd]pyrene	40.000	42.954	-7.4	152	0.00
110	P	Dibenz(a,h)anthracene	40.000	40.158	-0.4	128	0.00
111	P	Benzo[g,h,i]perylene	40.000	40.553	-1.4	131	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011303.D
Acq On : 13 Jan 2022 10:30 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 13 15:56:48 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	126	-0.01
2		Pyridine	1.590	1.450	8.8	113	-0.01
3	T	2-Picoline	1.540	1.512	1.8	124	-0.02
4	T	Methyl methanesulfonate	0.593	0.741	-25.0	160#	0.00
5	S	2-Fluorophenol	1.267	1.236	2.4	123	0.00
6	T	Ethyl methanesulfonate	1.127	1.091	3.2	124	0.00
7	P	Benzaldehyde	0.690	0.805	-16.7	150	0.00
8	T	Aniline	0.620	0.793	-27.9#	170#	0.00
9	S	Phenol-d5	1.486	1.558	-4.8	130	0.01
10	P	Phenol	1.592	1.664	-4.5	127	0.01
11	P	Bis(2-chloroethyl)ether	1.271	1.369	-7.7	132	0.00
12	P	2-Chlorophenol	1.303	1.340	-2.8	129	0.00
13	T	1,3-Dichlorobenzene	1.538	1.499	2.5	121	-0.01
14	CCC	1,4-Dichlorobenzene	1.481	1.484	-0.2	125	-0.01
15	T	1,2-Dichlorobenzene	1.470	1.485	-1.0	127	-0.01
16	T	Benzyl alcohol	0.820	0.833	-1.6	128	0.00
17	T	Bis(2-chloroisopropyl)ether	1.632	2.018	-23.7	153#	0.00
18	P	2-Methylphenol	0.983	1.067	-8.5	135	0.00
19	P	3,4-Methylphenol	1.265	1.328	-5.0	130	0.00
20	P	N-Nitrosodi-n-propylamine	0.832	0.950	-14.2	140	-0.01
21	T	N-Nitrosodimethylamine	0.890	0.809	9.1	116	0.00
22	P	Hexachloroethane	0.511	0.575	-12.5	139	-0.01
23	I	Naphthalene-d8	1.000	1.000	0.0	131	0.00
24	S	Nitrobenzene-d5	0.317	0.355	-12.0	145	0.00
25	P	Acetophenone	0.443	0.455	-2.7	131	-0.01
26	P	Nitrobenzene	0.163	0.161#	1.2	129	0.00
27	T	N-Nitrosopiperidine	0.168	0.167	0.6	131	0.00
28	P	Isophorone	0.640	0.696	-8.7	140	-0.01
29	P	2-Nitrophenol	0.173	0.182	-5.2	141	0.00
30	P	2,4-Dimethylphenol	0.302	0.286	5.3	122	0.00
31	P	Bis(2-chloroethoxy)methane	0.398	0.397	0.3	128	0.00
32	P	2,4-Dichlorophenol	0.268	0.265	1.1	127	0.03
33	T	1,2,4-Trichlorobenzene	0.325	0.314	3.4	125	0.00
34	P	Naphthalene	0.990	0.968	2.2	124	0.00
35	T	Benzoic acid	0.057	0.008	86.0#	38#	-0.02
36	T	2,6-Dichlorophenol	0.268	0.266	0.7	127	0.00
37	P	4-Chloroaniline	0.368	0.404	-9.8	146	0.00
38	P	Hexachlorobutadiene	0.172	0.171	0.6	129	0.00
39	T	a,a-Dimethylphenethylamine	0.781	0.760	2.7	129	0.00
40	P	Caprolactam	0.111	0.114	-2.7	131	-0.02
41	P	4-Chloro-3-methylphenol	0.276	0.278	-0.7	130	0.00
42	T	N-Nitroso-di-n-butylamine	0.214	0.306	-43.0#	188#	0.00
43	P	2-Methylnaphthalene	0.581	0.581	0.0	126	0.00
44	T	1-Methylnaphthalene	0.571	0.557	2.5	124	0.00
45	I	Acenaphthene-d10	1.000	1.000	0.0	130	0.00
46	T	1,2,4,5-Tetrachlorobenzene	0.526	0.499	5.1	120	0.00
47	P	Hexachlorocyclopentadiene	0.268	0.204	23.9	97	0.00
48	P	2,4,6-Trichlorophenol	0.337	0.328	2.7	130	0.00
49	P	2,4,5-Trichlorophenol	0.353	0.319	9.6	118	0.00
50	S	2-Fluorobiphenyl	1.221	1.192	2.4	123	0.00
51		Biphenyl	1.336	1.313	1.7	120	0.00
52	P	2-Chloronaphthalene	1.052	1.029	2.2	125	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011303.D
Acq On : 13 Jan 2022 10:30 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 13 15:56:48 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
53	T	1-Chloronaphthalene	0.934	0.947	-1.4	126	0.00
54	P	2-Nitroaniline	0.287	0.352	-22.6	163#	0.00
55	P	3-Nitroaniline	0.286	0.302	-5.6	142	0.00
56	T	Pentachlorobenzene	0.476	0.454	4.6	123	0.00
57	P	4-Nitroaniline	0.287	0.321	-11.8	149	0.00
58	T	2-Naphthylamine	0.976	0.795	18.5	105	0.00
59	T	1-Naphthylamine	0.724	0.725	-0.1	145	0.00
60	P	Dimethyl phthalate	1.215	1.219	-0.3	130	0.00
61	P	Acenaphthylene	1.608	1.609	-0.1	125	0.00
62	P	2,6-Dinitrotoluene	0.246	0.278	-13.0	146	0.00
63	P	Acenaphthene	0.992	0.953	3.9	121	0.00
64	P	2,4-Dinitrophenol	0.088	0.072	18.2	182#	0.00
65	P	Dibenzofuran	1.524	1.492	2.1	123	0.00
66	P	4-Nitrophenol	0.133	0.135	-1.5	136	0.01
67	P	2,4-Dinitrotoluene	0.325	0.363	-11.7	146	0.00
68	T	2,3,4,6-Tetrachlorophenol	0.278	0.196	29.5#	93	0.00
69	P	Diethyl phthalate	1.163	1.198	-3.0	131	0.00
70	P	Fluorene	1.250	1.234	1.3	124	0.00
71	P	4-Chlorophenyl phenyl ether	0.588	0.558	5.1	122	0.00
72	S	2,4,6-Tribromophenol	0.153	0.134	12.4	117	0.00
73	I	Phenanthrene-d10	1.000	1.000	0.0	124	0.00
74	P	4,6-Dinitro-2-methylphenol	0.094	0.106	-12.8	161#	0.00
75	T	Azobenzene	0.598	0.644	-7.7	132	0.00
76	T	1,2-Diphenylhydrazine	0.164	0.162	1.2	119	0.00
77	CCC	Diphenylamine	0.114	0.115	-0.9	122	0.00
78	P	N-Nitrosodiphenylamine	0.545	0.558	-2.4	124	0.00
79	P	4-Bromophenyl phenyl ether	0.212	0.209	1.4	122	0.00
80	T	Phenacetin	0.299	0.352	-17.7	143	0.00
81	P	Hexachlorobenzene	0.222	0.210	5.4	116	0.00
82	P	Atrazine	0.168	0.204	-21.4	148	0.00
83	T	4-Aminobiphenyl	0.544	0.629	-15.6	181#	0.00
84	P	Pentachlorophenol	0.133	0.101	24.1	92	0.00
85	T	Pentachloronitrobenzene	0.078	0.087	-11.5	138	0.00
86	T	Pronamide	0.217	0.238	-9.7	136	0.00
87	P	Phenanthrene	1.032	1.005	2.6	119	0.00
88	P	Anthracene	1.027	1.031	-0.4	121	0.00
89	P	Carbazole	0.933	0.969	-3.9	130	0.00
90	P	Di-n-butyl phthalate	1.129	1.318	-16.7	143	0.00
91	P	Fluoranthene	1.213	1.239	-2.1	122	0.00
92	I	Chrysene-d12	1.000	1.000	0.0	120	0.00
93	P	Pyrene	1.328	1.342	-1.1	120	0.00
94	S	4-Terphenyl-d14	0.973	0.978	-0.5	123	0.00
95	T	Benzidine	0.409	0.390	4.6	125	0.00
96	T	p-Dimethylaminoazobenzene	0.245	0.272	-11.0	142	0.00
97	P	Butyl benzyl phthalate	0.528	0.644	-22.0	155#	0.00
98	P	Benz(a)anthracene	1.251	1.295	-3.5	127	0.00
99	P	3,3'-Dichlorobenzidine	0.375	0.417	-11.2	142	0.00
100	P	Chrysene	1.181	1.151	2.5	120	0.00
101	P	Bis(2-ethylhexyl)phthalate	0.658	0.828	-25.8#	151#	0.00
102	P	Di-n-octyl phthalate	1.152	1.534	-33.2#	171#	0.00
103	T	3-Methylcholanthrene	0.415	0.425	-2.4	132	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011303.D
Acq On : 13 Jan 2022 10:30 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 13 15:56:48 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
104	I	Perylene-d12	1.000	1.000	0.0	129	0.00
105	P	Benzo[b]fluoranthene	1.244	1.120	10.0	117	0.00
106	P	Benzo[k]fluoranthene	1.023	1.081	-5.7	124	0.00
107	P	Benzo[a]pyrene	1.024	1.038	-1.4	129	0.00
108	T	Dibenz(a,j)acridine	0.888	0.949	-6.9	139	0.00
109		Indeno[1,2,3-cd]pyrene	1.172	1.258	-7.3	152#	0.00
110	P	Dibenz(a,h)anthracene	1.023	1.027	-0.4	128	0.00
111	P	Benzo[g,h,i]perylene	1.055	1.070	-1.4	131	0.00

(#) = Out of Range SPCC's out = 1 CCC's out = 0

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\data\T220113\T22011303.D
Tune Time : 13 Jan 2022 10:30 am

Daily Calibration File : C:\msdchem\1\data\T220113\T22011303.D

(2FP)	(PHL)	(NBZ)	(FBP)	(DCB)	(NPT)	(ANT)
				147797	578901	337917

(TPH)	(PHN)	(CRY)	(PRY)
	569798	521639	567717

File	Sample	Surrogate Recovery %				Internal Standard Responses		
T22011310.D								
	2112P72-00	11*	11	14*	15*	151060	610662	349867
		16	16*			608322	566781	558770
T22011311.D								
	2112P72-00	13*	13	16*	16*	149873	604970	339232
		16	16*			590757	552910	551117
T22011312.D								
	2112P72-00	12*	12	17*	14*	148200	542831	336155
		16	16*			595033	550402	565212
T22011313.D								
	2112P72-01	12*	13	21*	18*	132975	480106	307106
		16	19*			542334	505402	507859
T22011314.D								
	2112P72-01	14*	14	18*	18*	147509	600138	337514
		18	18*			589444	551033	558640
T22011315.D								
	2201682-00	9*	8*	11*	12*	152329	620648	350927
		13	15*			609934	561640	593331
T22011316.D								
	2201799-00	12*	11	14*	15*	141106	588261	332084
		14	16*			583078	528104	574441
T22011317.D								
	2201799-00	11*	11	22*	15*	141232	485374	329977
		14	16*			576233	517834	537251
T22011318.D								
	2201799-00	15*	15	17*	13*	131415	594417	333218
		16	15*			588787	538944	544287
T22011319.D								
	2201925-00	45	35	59	56	74022	313901	178564
		53	61			311010	289726	302375
T22011320.D								
	MB-328401	103	103	115*	106	144591	603802	340059
		94	107			597745	540941	597680
T22011321.D								
	LCS-328401	111*	115*	124*	109	133252	530086	316314
		103	108			535727	499602	557475
T22011322.D								
	MB-328904	59	43	99	91	125446	513075	290279
		76	94			512207	470210	493076
T22011323.D								
	LCS-328904	55	44	99	88	123128	488646	290631
		73	89			497783	451760	480073

T22011324.D								
	2201A74-00	50	35	85	85	95785	384802	215470
		81	100			377041	342889	362668
T22011325.D								
	2201A74-00	57	50	112	104	84680	328718	191568
		97	117			332280	301465	331887
T22011326.D								
	2201A74-00	76	61	136*	131*	75380	296009	170642
		120	141			296925	268022	287624
T22011329.D								
	MB-328821	94	99	112	108	114692	473642	264643
		100	114			459633	423859	448838
T22011330.D								
	LCS-328821	102	111*	122*	113	106103	426850	251090
		109	119			427034	391207	413475
T22011331.D								
	2201A68-02	99	103	119*	113	106837	438735	247862
		109	119			435057	398722	432879
T22011332.D								
	2201A68-02	99	111*	125*	114	114964	451511	269456
		111	119			449267	420318	447582
T22011333.D								
	2201A68-02	104	112*	124*	113	119702	479646	281205
		111	115			479682	440199	464108

(fails) - fails 12hr time check * - fails criteria

Created: Fri Jan 14 09:33:17 2022 MS-14

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011303.D
Acq On : 13 Jan 2022 10:30 am
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 13 15:56:48 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.359	152	147797	40.00	ng		-0.01
23) Naphthalene-d8	...	5.956	136	578901	40.00	ng		0.00
45) Acenaphthene-d10	...	8.005	164	337917	40.00	ng		0.00
73) Phenanthrene-d10	...	9.670	188	569798	40.00	ng		0.00
92) Chrysene-d12	...	12.611	240	521639	40.00	ng		0.00
104) Perylene-d12	...	14.077	264	567717	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.958	112	182611	39.02	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 39.02%					
9) Phenol-d5	...	4.163	99	230223	41.93	ng		0.01
Spiked Amount 100.000	Range 10 - 110		Recovery = 41.93%					
24) Nitrobenzene-d5	...	5.089	82	205578	44.81	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 89.62%					
50) 2-Fluorobiphenyl	...	7.266	172	402640	39.03	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 78.06%					
72) 2,4,6-Tribromophenol	...	8.922	330	45439	35.07	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 35.07%					
94) 4-Terphenyl-d14	...	11.477	244	509941	40.20	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 80.40%					
Target Compounds					Qvalue			
2) Pyridine	...	1.540	79	214240	36.47	ng		96
3) 2-Picoline	...	2.188	93	223504	39.29	ng		96
4) Methyl methanesulfonate	...	2.660	80	109449	49.99	ng		98
6) Ethyl methanesulfonate	...	3.453	79	161310	38.74	ng		96
7) Benzaldehyde	...	3.802	105	118981	46.70	ng		96
8) Aniline	...	3.984	66	117229	51.14	ng		92
10) Phenol	...	4.180	94	245893	41.80	ng	#	82
11) Bis(2-chloroethyl)ether	...	4.063	93	202376	43.10	ng		94
12) 2-Chlorophenol	...	4.174	128	198088	41.15	ng		91
13) 1,3-Dichlorobenzene	...	4.282	146	221566	38.99	ng		98
14) 1,4-Dichlorobenzene	...	4.382	146	219326	40.08	ng		98
15) 1,2-Dichlorobenzene	...	4.575	146	219475	40.40	ng		99
16) Benzyl alcohol	...	4.643	108	123163	40.66	ng		96
17) Bis(2-chloroisopropyl)ether	...	4.774	45	298263	49.46	ng		99
18) 2-Methylphenol	...	4.893	107	157713	43.43	ng	#	1
19) 3,4-Methylphenol	...	5.109	107	392550	84.00	ng	#	72
20) N-Nitrosodi-n-propylamine	...	4.936	70	140433	45.68	ng		95
21) N-Nitrosodimethylamine	...	1.532	74	119573	36.35	ng		92
22) Hexachloroethane	...	4.990	117	84948	45.01	ng		93
25) Acetophenone	...	4.910	105	526336	82.18	ng	#	83
26) Nitrobenzene	...	5.115	123	93045	39.56	ng	#	1
27) N-Nitrosopiperidine	...	5.302	114	96672	39.76	ng	#	82
28) Isophorone	...	5.427	82	403065	43.52	ng		96
29) 2-Nitrophenol	...	5.515	139	105607	42.09	ng		90
30) 2,4-Dimethylphenol	...	5.714	122	165379	37.84	ng		95
31) Bis(2-chloroethoxy)methane	...	5.737	93	229651	39.83	ng		99
32) 2,4-Dichlorophenol	...	5.905	162	153685	39.69	ng		98
33) 1,2,4-Trichlorobenzene	...	5.899	180	181512	38.63	ng		98
34) Naphthalene	...	5.979	128	560363	39.11	ng		99
35) Benzoic acid	...	6.072	122	4894	39.26	ng		99
36) 2,6-Dichlorophenol	...	6.132	162	154217	39.83	ng		97
37) 4-Chloroaniline	...	6.121	127	233879	43.97	ng		97
38) Hexachlorobutadiene	...	6.158	225	98792	39.64	ng		100
39) a,a-Dimethylphenethylamine	...	5.945	58	440226	38.92	ng		88
40) Caprolactam	...	6.530	113	66267	41.22	ng	#	1
41) 4-Chloro-3-methylphenol	...	6.840	107	160862	40.23	ng		95

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011303.D
Acq On : 13 Jan 2022 10:30 am
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 13 15:56:48 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) N-Nitroso-di-n-butylamine	6.521	84	177073	57.24	ng		93
43) 2-Methylnaphthalene	6.811	141	336621	40.04	ng		98
44) 1-Methylnaphthalene	6.925	141	322478	39.02	ng		98
46) 1,2,4,5-Tetrachlorobenzene	7.013	216	168709	37.94	ng		98
47) Hexachlorocyclopentadiene	7.010	237	68896	30.41	ng		96
48) 2,4,6-Trichlorophenol	7.220	196	111000	39.02	ng		98
49) 2,4,5-Trichlorophenol	7.311	196	107631	36.08	ng	#	94
51) Biphenyl	7.371	154	443635	39.30	ng		98
52) 2-Chloronaphthalene	7.374	162	347661	39.11	ng		99
53) 1-Chloronaphthalene	7.394	162	319882	40.53	ng		99
54) 2-Nitroaniline	7.558	65	119088	49.09	ng	#	86
55) 3-Nitroaniline	8.041	138	102162	42.23	ng	#	96
56) Pentachlorobenzene	8.195	250	153456	38.16	ng	#	98
57) 4-Nitroaniline	8.740	138	108364	44.63	ng	#	82
58) 2-Naphthylamine	8.354	143	268666	32.60	ng		95
59) 1-Naphthylamine	8.445	143	244829	40.02	ng		91
60) Dimethyl phthalate	7.769	163	411770	40.12	ng		100
61) Acenaphthylene	7.840	152	543587	40.01	ng		99
62) 2,6-Dinitrotoluene	7.826	165	93837	45.10	ng		84
63) Acenaphthene	8.039	154	322122	38.46	ng		98
64) 2,4-Dinitrophenol	8.158	184	24300	42.99	ng		90
65) Dibenzofuran	8.240	168	504115	39.15	ng		97
66) 4-Nitrophenol	8.428	109	45614	40.72	ng	#	60
67) 2,4-Dinitrotoluene	8.280	165	122751	44.65	ng		89
68) 2,3,4,6-Tetrachlorophenol	8.448	232	66199	28.19	ng		94
69) Diethyl phthalate	8.570	149	404922	41.20	ng		98
70) Fluorene	8.627	166	417139	39.52	ng		98
71) 4-Chlorophenyl phenyl ether	8.652	204	188672	37.97	ng		96
74) 4,6-Dinitro-2-methylphenol	8.740	198	60478	42.83	ng		83
75) Azobenzene	8.829	77	366929	43.06	ng		95
76) 1,2-Diphenylhydrazine	8.829	182	92037	39.44	ng	#	68
77) Diphenylamine	8.809	170	65748	40.49	ng		97
78) N-Nitrosodiphenylamine	8.809	168	317942	40.96	ng		99
79) 4-Bromophenyl phenyl ether	9.195	248	118912	39.42	ng		93
80) Phenacetin	9.215	108	200806	47.16	ng		96
81) Hexachlorobenzene	9.243	284	119784	37.96	ng		93
82) Atrazine	9.448	200	116350	48.62	ng	#	89
83) 4-Aminobiphenyl	9.505	169	358668	46.27	ng		99
84) Pentachlorophenol	9.528	266	57449	30.36	ng		99
85) Pentachloronitrobenzene	9.493	237	49422	44.52	ng		96
86) Pronamide	9.616	173	135838	43.89	ng		99
87) Phenanthrene	9.695	178	572479	38.93	ng		99
88) Anthracene	9.752	178	587668	40.15	ng		99
89) Carbazole	9.982	167	552178	41.53	ng		99
90) Di-n-butyl phthalate	10.400	149	750872	46.68	ng		99
91) Fluoranthene	11.016	202	705696	40.83	ng		99
93) Pyrene	11.261	202	700297	40.44	ng		99
95) Benzidine	11.221	184	203310	39.00	ng		99
96) p-Dimethylaminoazobenzene	11.644	225	141761	43.11	ng	#	84
97) Butyl benzyl phthalate	12.056	149	336160	48.84	ng		94
98) Benz(a)anthracene	12.599	228	675335	41.41	ng		99
99) 3,3'-Dichlorobenzidine	12.616	252	217596	44.53	ng		97
100) Chrysene	12.639	228	600613	38.99	ng		99
101) Bis(2-ethylhexyl)phthalate	12.713	149	431665	45.77	ng		99
102) Di-n-octyl phthalate	13.395	149	800005	49.79	ng		96
103) 3-Methylcholanthrene	14.344	268	221714	40.93	ng		97
105) Benzo[b]fluoranthene	13.716	252	635948	36.03	ng		99
106) Benzo[k]fluoranthene	13.744	252	613537	42.27	ng		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011303.D
Acq On : 13 Jan 2022 10:30 am
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 13 15:56:48 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

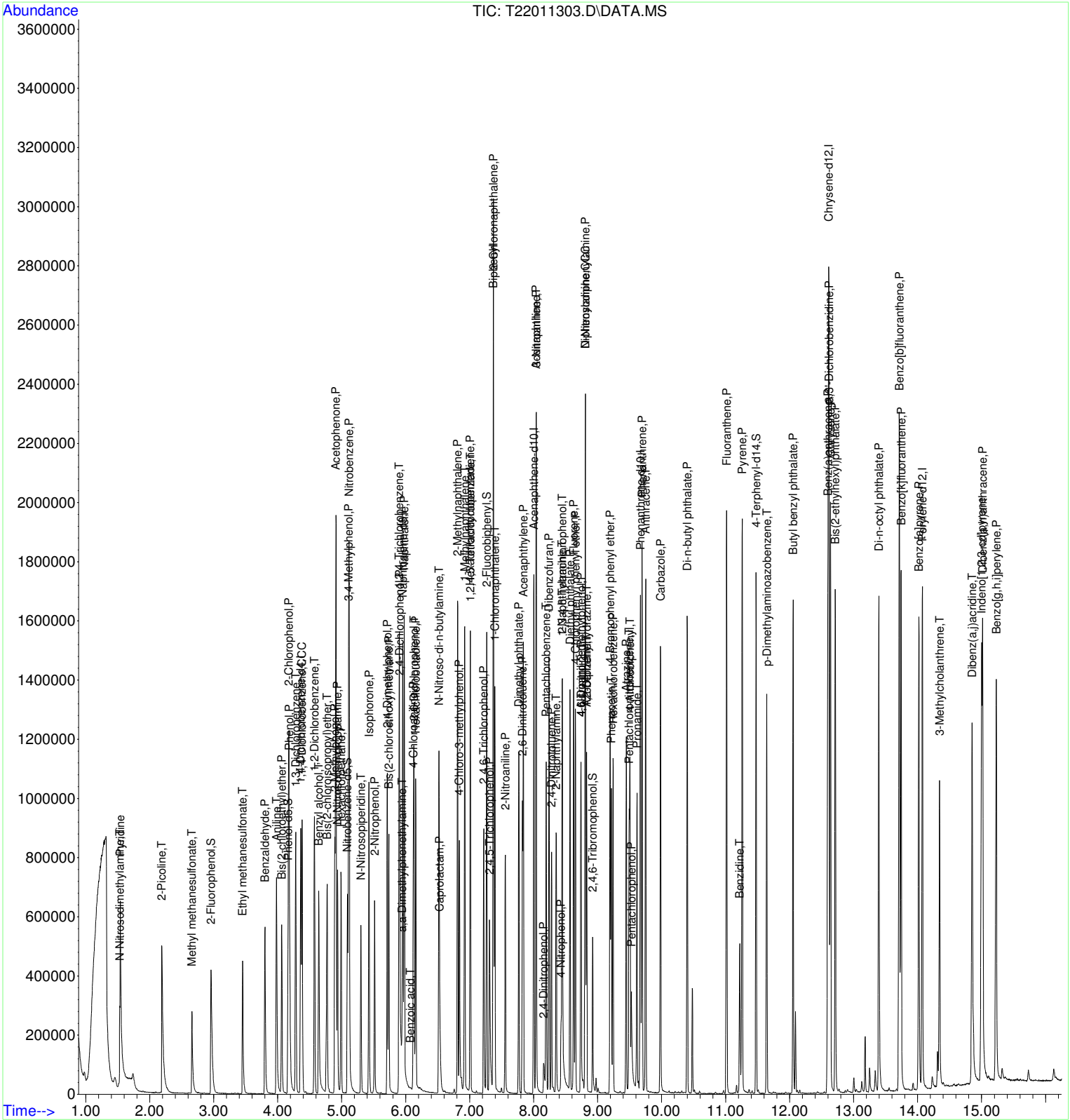
Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
107) Benzo[a]pyrene	...	14.020	252	589424	40.57	ng		99
108) Dibenz(a,j)acridine	...	14.852	279	538930	42.77	ng		100
109) Indeno[1,2,3-cd]pyrene	...	15.000	276	714327	42.95	ng	#	89
110) Dibenz(a,h)anthracene	...	15.017	278	583257	40.16	ng		99
111) Benzo[g,h,i]perylene	...	15.230	276	607421	40.55	ng		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011303.D
Acq On : 13 Jan 2022 10:30 am
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 13 15:56:48 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011322.D
Acq On : 13 Jan 2022 6:13 pm
Operator : YH
Sample : MB-328904
Misc : MBLK 8270_TCL4.2_W
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 14 08:57:49 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.359	152	125446	40.00	ng	-0.01
23) Naphthalene-d8	...	5.950	136	513075	40.00	ng	-0.01
45) Acenaphthene-d10	...	8.002	164	290279	40.00	ng	-0.01
73) Phenanthrene-d10	...	9.664	188	512207	40.00	ng	-0.01
92) Chrysene-d12	...	12.605	240	470210	40.00	ng	-0.01
104) Perylene-d12	...	14.071	264	493076	40.00	ng	0.00
System Monitoring Compounds							
5) 2-Fluorophenol	...	2.950	112	235942	59.39	ng	0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 59.39%				
9) Phenol-d5	...	4.155	99	202647	43.48	ng	0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 43.48%				
24) Nitrobenzene-d5	...	5.087	82	201627	49.59	ng	-0.01
Spiked Amount 50.000	Range 34 - 114		Recovery = 99.18%				
50) 2-Fluorobiphenyl	...	7.263	172	403718	45.56	ng	-0.01
Spiked Amount 50.000	Range 43 - 116		Recovery = 91.12%				
72) 2,4,6-Tribromophenol	...	8.920	330	89031	76.23	ng	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 76.23%				
94) 4-Terphenyl-d14	...	11.477	244	535034	46.79	ng	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 93.58%				

Target Compounds					Qvalue
2) Pyridine	...	0.000	79	0	N.D.
3) 2-Picoline	...	0.000	93	0	N.D.
4) Methyl methanesulfonate	...	0.000	80	0	N.D.
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.
7) Benzaldehyde	...	0.000	105	0	N.D.
8) Aniline	...	0.000	66	0	N.D.
10) Phenol	...	0.000	94	0	N.D.
11) Bis(2-chloroethyl)ether	...	0.000	93	0	N.D.
12) 2-Chlorophenol	...	0.000	128	0	N.D.
13) 1,3-Dichlorobenzene	...	0.000	146	0	N.D.
14) 1,4-Dichlorobenzene	...	0.000	146	0	N.D.
15) 1,2-Dichlorobenzene	...	0.000	146	0	N.D.
16) Benzyl alcohol	...	0.000	108	0	N.D. d
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0	N.D.
18) 2-Methylphenol	...	0.000	107	0	N.D.
19) 3,4-Methylphenol	...	0.000	107	0	N.D.
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.
21) N-Nitrosodimethylamine	...	0.000	74	0	N.D.
22) Hexachloroethane	...	0.000	117	0	N.D.
25) Acetophenone	...	0.000	105	0	N.D.
26) Nitrobenzene	...	0.000	123	0	N.D.
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.
28) Isophorone	...	0.000	82	0	N.D.
29) 2-Nitrophenol	...	0.000	139	0	N.D.
30) 2,4-Dimethylphenol	...	0.000	122	0	N.D.
31) Bis(2-chloroethoxy)methane	...	0.000	93	0	N.D.
32) 2,4-Dichlorophenol	...	0.000	162	0	N.D.
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.
34) Naphthalene	...	0.000	128	0	N.D.
35) Benzoic acid	...	0.000	122	0	N.D.
36) 2,6-Dichlorophenol	...	0.000	162	0	N.D.
37) 4-Chloroaniline	...	0.000	127	0	N.D.
38) Hexachlorobutadiene	...	0.000	225	0	N.D.
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D. d
40) Caprolactam	...	0.000	113	0	N.D.
41) 4-Chloro-3-methylphenol	...	0.000	107	0	N.D.

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011322.D
Acq On : 13 Jan 2022 6:13 pm
Operator : YH
Sample : MB-328904
Misc : MBLK 8270_TCL4.2_W
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 14 08:57:49 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) N-Nitroso-di-n-butylamine	...	0.000	84	0		N.D.
43) 2-Methylnaphthalene	...	0.000	141	0		N.D.
44) 1-Methylnaphthalene	...	0.000	141	0		N.D.
46) 1,2,4,5-Tetrachlorobenzene	...	0.000	216	0		N.D.
47) Hexachlorocyclopentadiene	...	0.000	237	0		N.D.
48) 2,4,6-Trichlorophenol	...	0.000	196	0		N.D.
49) 2,4,5-Trichlorophenol	...	0.000	196	0		N.D.
51) Biphenyl	...	0.000	154	0		N.D.
52) 2-Chloronaphthalene	...	0.000	162	0		N.D.
53) 1-Chloronaphthalene	...	0.000	162	0		N.D.
54) 2-Nitroaniline	...	0.000	65	0		N.D.
55) 3-Nitroaniline	...	0.000	138	0		N.D.
56) Pentachlorobenzene	...	0.000	250	0		N.D.
57) 4-Nitroaniline	...	0.000	138	0		N.D.
58) 2-Naphthylamine	...	0.000	143	0		N.D.
59) 1-Naphthylamine	...	0.000	143	0		N.D.
60) Dimethyl phthalate	...	0.000	163	0		N.D.
61) Acenaphthylene	...	0.000	152	0		N.D.
62) 2,6-Dinitrotoluene	...	0.000	165	0		N.D.
63) Acenaphthene	...	0.000	154	0		N.D.
64) 2,4-Dinitrophenol	...	0.000	184	0		N.D.
65) Dibenzofuran	...	0.000	168	0		N.D.
66) 4-Nitrophenol	...	0.000	109	0		N.D.
67) 2,4-Dinitrotoluene	...	0.000	165	0		N.D.
68) 2,3,4,6-Tetrachlorophenol	...	0.000	232	0		N.D.
69) Diethyl phthalate	...	0.000	149	0		N.D.
70) Fluorene	...	0.000	166	0		N.D.
71) 4-Chlorophenyl phenyl ether	...	0.000	204	0		N.D.
74) 4,6-Dinitro-2-methylphenol	...	0.000	198	0		N.D.
75) Azobenzene	...	0.000	77	0		N.D.
76) 1,2-Diphenylhydrazine	...	0.000	182	0		N.D.
77) Diphenylamine	...	0.000	170	0		N.D.
78) N-Nitrosodiphenylamine	...	0.000	168	0		N.D.
79) 4-Bromophenyl phenyl ether	...	0.000	248	0		N.D.
80) Phenacetin	...	0.000	108	0		N.D. d
81) Hexachlorobenzene	...	0.000	284	0		N.D.
82) Atrazine	...	0.000	200	0		N.D.
83) 4-Aminobiphenyl	...	0.000	169	0		N.D.
84) Pentachlorophenol	...	0.000	266	0		N.D.
85) Pentachloronitrobenzene	...	0.000	237	0		N.D.
86) Pronamide	...	0.000	173	0		N.D.
87) Phenanthrene	...	0.000	178	0		N.D.
88) Anthracene	...	0.000	178	0		N.D.
89) Carbazole	...	0.000	167	0		N.D.
90) Di-n-butyl phthalate	...	0.000	149	0		N.D.
91) Fluoranthene	...	0.000	202	0		N.D.
93) Pyrene	...	0.000	202	0		N.D.
95) Benzidine	...	0.000	184	0		N.D.
96) p-Dimethylaminoazobenzene	...	0.000	225	0		N.D.
97) Butyl benzyl phthalate	...	0.000	149	0		N.D.
98) Benz(a)anthracene	...	0.000	228	0		N.D.
99) 3,3'-Dichlorobenzidine	...	0.000	252	0		N.D.
100) Chrysene	...	0.000	228	0		N.D.
101) Bis(2-ethylhexyl)phthalate	...	0.000	149	0		N.D.
102) Di-n-octyl phthalate	...	0.000	149	0		N.D.
103) 3-Methylcholanthrene	...	0.000	268	0		N.D.
105) Benzo[b]fluoranthene	...	0.000	252	0		N.D.
106) Benzo[k]fluoranthene	...	0.000	252	0		N.D.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011322.D
Acq On : 13 Jan 2022 6:13 pm
Operator : YH
Sample : MB-328904
Misc : MBLK 8270_TCL4.2_W
ALS Vial : 18 Sample Multiplier: 1

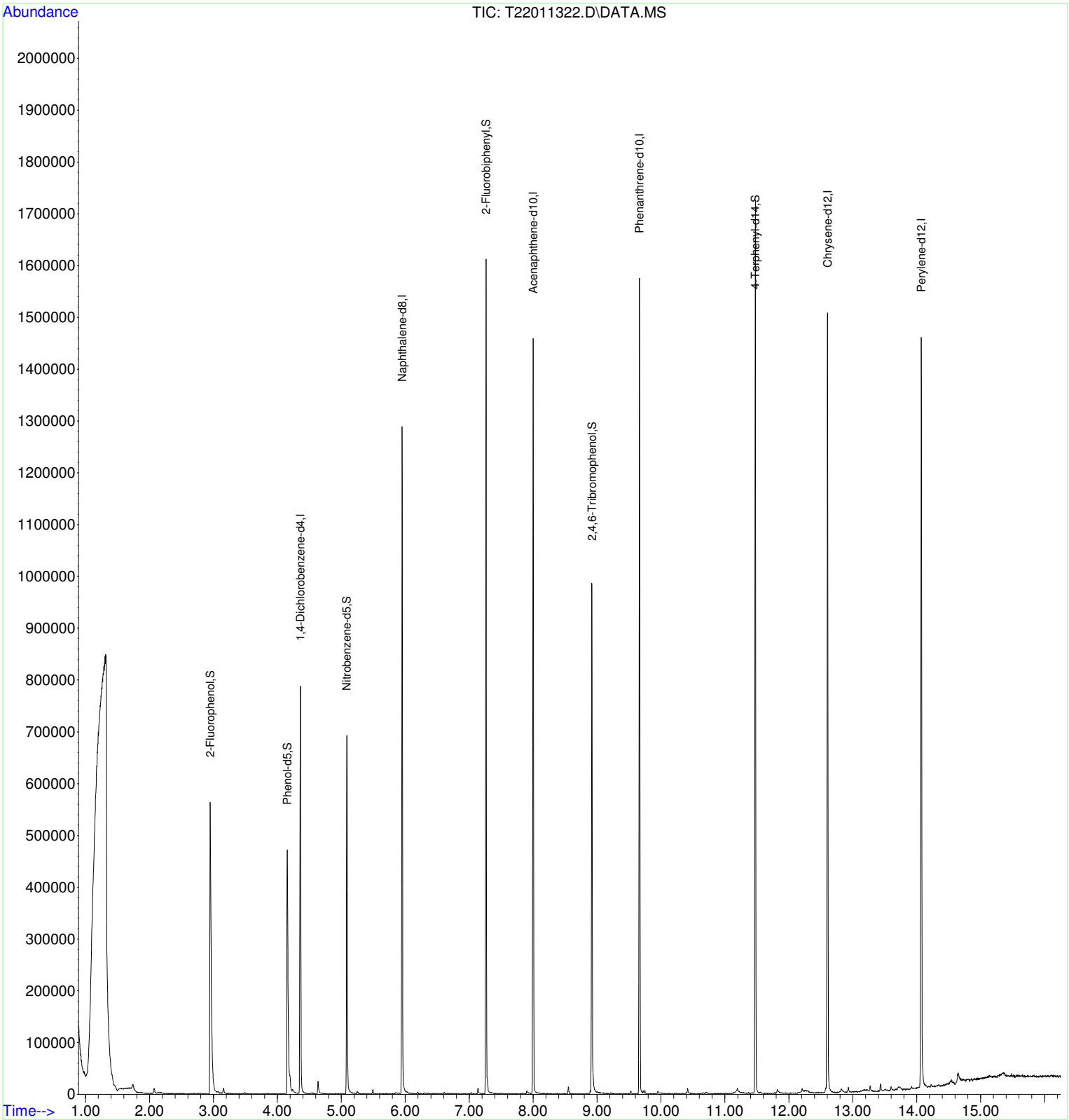
Quant Time: Jan 14 08:57:49 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) Benzo[a]pyrene	...	0.000	252	0		N.D.
108) Dibenz(a,j)acridine	...	0.000	279	0		N.D.
109) Indeno[1,2,3-cd]pyrene	...	0.000	276	0		N.D.
110) Dibenz(a,h)anthracene	...	0.000	278	0		N.D.
111) Benzo[g,h,i]perylene	...	0.000	276	0		N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011322.D
Acq On : 13 Jan 2022 6:13 pm
Operator : YH
Sample : MB-328904
Misc : MBLK 8270_TCL4.2_W
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 14 08:57:49 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011323.D
Acq On : 13 Jan 2022 6:42 pm
Operator : YH
Sample : LCS-328904
Misc : LCS 8270_TCL4.2_W
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 14 09:14:07 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.359	152	123128	40.00	ng		-0.01
23) Naphthalene-d8	...	5.950	136	488646	40.00	ng		-0.01
45) Acenaphthene-d10	...	8.002	164	290631	40.00	ng		-0.01
73) Phenanthrene-d10	...	9.664	188	497783	40.00	ng		-0.01
92) Chrysene-d12	...	12.605	240	451760	40.00	ng		-0.01
104) Perylene-d12	...	14.071	264	480073	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.950	112	213619	54.79	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 54.79%					
9) Phenol-d5	...	4.152	99	203511	44.49	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 44.49%					
24) Nitrobenzene-d5	...	5.087	82	192155	49.62	ng		-0.01
Spiked Amount 50.000	Range 34 - 114		Recovery = 99.24%					
50) 2-Fluorobiphenyl	...	7.263	172	392347	44.22	ng		-0.01
Spiked Amount 50.000	Range 43 - 116		Recovery = 88.44%					
72) 2,4,6-Tribromophenol	...	8.920	330	85469	73.21	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 73.21%					
94) 4-Terphenyl-d14	...	11.474	244	488546	44.47	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 88.94%					
Target Compounds								Qvalue
2) Pyridine	...	0.000	79	0	N.D.			
3) 2-Picoline	...	0.000	93	0	N.D.			
4) Methyl methanesulfonate	...	0.000	80	0	N.D.			
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.			
7) Benzaldehyde	...	0.000	105	0	N.D.			
8) Aniline	...	0.000	66	0	N.D.			
10) Phenol	...	4.166	94	211749	43.21	ng	#	73
11) Bis(2-chloroethyl)ether	...	0.000	93	0	N.D.	d		
12) 2-Chlorophenol	...	4.166	128	316040	78.81	ng		94
13) 1,3-Dichlorobenzene	...	0.000	146	0	N.D.	d		
14) 1,4-Dichlorobenzene	...	4.382	146	368430	80.82	ng		98
15) 1,2-Dichlorobenzene	...	0.000	146	0	N.D.	d		
16) Benzyl alcohol	...	0.000	108	0	N.D.			
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0	N.D.			
18) 2-Methylphenol	...	0.000	107	0	N.D.			
19) 3,4-Methylphenol	...	0.000	107	0	N.D.			
20) N-Nitrosodi-n-propylamine	...	4.933	70	262363	102.44	ng		94
21) N-Nitrosodimethylamine	...	0.000	74	0	N.D.			
22) Hexachloroethane	...	0.000	117	0	N.D.			
25) Acetophenone	...	0.000	105	0	N.D.			
26) Nitrobenzene	...	0.000	123	0	N.D.			
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.			
28) Isophorone	...	0.000	82	0	N.D.			
29) 2-Nitrophenol	...	0.000	139	0	N.D.			
30) 2,4-Dimethylphenol	...	0.000	122	0	N.D.			
31) Bis(2-chloroethoxy)methane	...	0.000	93	0	N.D.			
32) 2,4-Dichlorophenol	...	0.000	162	0	N.D.			
33) 1,2,4-Trichlorobenzene	...	5.896	180	326662	82.36	ng		100
34) Naphthalene	...	0.000	128	0	N.D.			
35) Benzoic acid	...	0.000	122	0	N.D.			
36) 2,6-Dichlorophenol	...	0.000	162	0	N.D.			
37) 4-Chloroaniline	...	0.000	127	0	N.D.			
38) Hexachlorobutadiene	...	0.000	225	0	N.D.			
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D.	d		
40) Caprolactam	...	0.000	113	0	N.D.	d		
41) 4-Chloro-3-methylphenol	...	6.828	107	282032	83.55	ng		96

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011323.D
Acq On : 13 Jan 2022 6:42 pm
Operator : YH
Sample : LCS-328904
Misc : LCS 8270_TCL4.2_W
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 14 09:14:07 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) N-Nitroso-di-n-butylamine	...	0.000	84	0	N.D.		
43) 2-Methylnaphthalene	...	0.000	141	0	N.D.	d	
44) 1-Methylnaphthalene	...	0.000	141	0	N.D.	d	
46) 1,2,4,5-Tetrachlorobenzene	...	0.000	216	0	N.D.		
47) Hexachlorocyclopentadiene	...	0.000	237	0	N.D.		
48) 2,4,6-Trichlorophenol	...	0.000	196	0	N.D.		
49) 2,4,5-Trichlorophenol	...	0.000	196	0	N.D.		
51) Biphenyl	...	0.000	154	0	N.D.		
52) 2-Chloronaphthalene	...	0.000	162	0	N.D.		
53) 1-Chloronaphthalene	...	0.000	162	0	N.D.		
54) 2-Nitroaniline	...	0.000	65	0	N.D.		
55) 3-Nitroaniline	...	0.000	138	0	N.D.		
56) Pentachlorobenzene	...	0.000	250	0	N.D.		
57) 4-Nitroaniline	...	0.000	138	0	N.D.		
58) 2-Naphthylamine	...	0.000	143	0	N.D.		
59) 1-Naphthylamine	...	0.000	143	0	N.D.		
60) Dimethyl phthalate	...	0.000	163	0	N.D.		
61) Acenaphthylene	...	0.000	152	0	N.D.	d	
62) 2,6-Dinitrotoluene	...	0.000	165	0	N.D.		
63) Acenaphthene	...	8.039	154	594441	82.51	ng	98
64) 2,4-Dinitrophenol	...	0.000	184	0	N.D.		
65) Dibenzofuran	...	0.000	168	0	N.D.		
66) 4-Nitrophenol	...	8.417	109	34041	35.34	ng #	85
67) 2,4-Dinitrotoluene	...	8.277	165	207469	87.75	ng	87
68) 2,3,4,6-Tetrachlorophenol	...	0.000	232	0	N.D.		
69) Diethyl phthalate	...	0.000	149	0	N.D.	d	
70) Fluorene	...	0.000	166	0	N.D.		
71) 4-Chlorophenyl phenyl ether	...	0.000	204	0	N.D.		
74) 4,6-Dinitro-2-methylphenol	...	0.000	198	0	N.D.		
75) Azobenzene	...	0.000	77	0	N.D.		
76) 1,2-Diphenylhydrazine	...	0.000	182	0	N.D.		
77) Diphenylamine	...	0.000	170	0	N.D.		
78) N-Nitrosodiphenylamine	...	0.000	168	0	N.D.		
79) 4-Bromophenyl phenyl ether	...	0.000	248	0	N.D.		
80) Phenacetin	...	0.000	108	0	N.D.	d	
81) Hexachlorobenzene	...	0.000	284	0	N.D.		
82) Atrazine	...	0.000	200	0	N.D.	d	
83) 4-Aminobiphenyl	...	0.000	169	0	N.D.	d	
84) Pentachlorophenol	...	9.519	266	78701	47.62	ng	96
85) Pentachloronitrobenzene	...	0.000	237	0	N.D.		
86) Pronamide	...	0.000	173	0	N.D.		
87) Phenanthrene	...	0.000	178	0	N.D.		
88) Anthracene	...	0.000	178	0	N.D.		
89) Carbazole	...	0.000	167	0	N.D.	d	
90) Di-n-butyl phthalate	...	0.000	149	0	N.D.		
91) Fluoranthene	...	0.000	202	0	N.D.	d	
93) Pyrene	...	11.261	202	1258093	83.89	ng	99
95) Benzidine	...	0.000	184	0	N.D.		
96) p-Dimethylaminoazobenzene	...	0.000	225	0	N.D.		
97) Butyl benzyl phthalate	...	0.000	149	0	N.D.		
98) Benz(a)anthracene	...	0.000	228	0	N.D.		
99) 3,3'-Dichlorobenzidine	...	0.000	252	0	N.D.		
100) Chrysene	...	0.000	228	0	N.D.		
101) Bis(2-ethylhexyl)phthalate	...	0.000	149	0	N.D.		
102) Di-n-octyl phthalate	...	0.000	149	0	N.D.		
103) 3-Methylcholanthrene	...	0.000	268	0	N.D.		
105) Benzo[b]fluoranthene	...	0.000	252	0	N.D.		
106) Benzo[k]fluoranthene	...	0.000	252	0	N.D.		

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011323.D
Acq On : 13 Jan 2022 6:42 pm
Operator : YH
Sample : LCS-328904
Misc : LCS 8270_TCL4.2_W
ALS Vial : 19 Sample Multiplier: 1

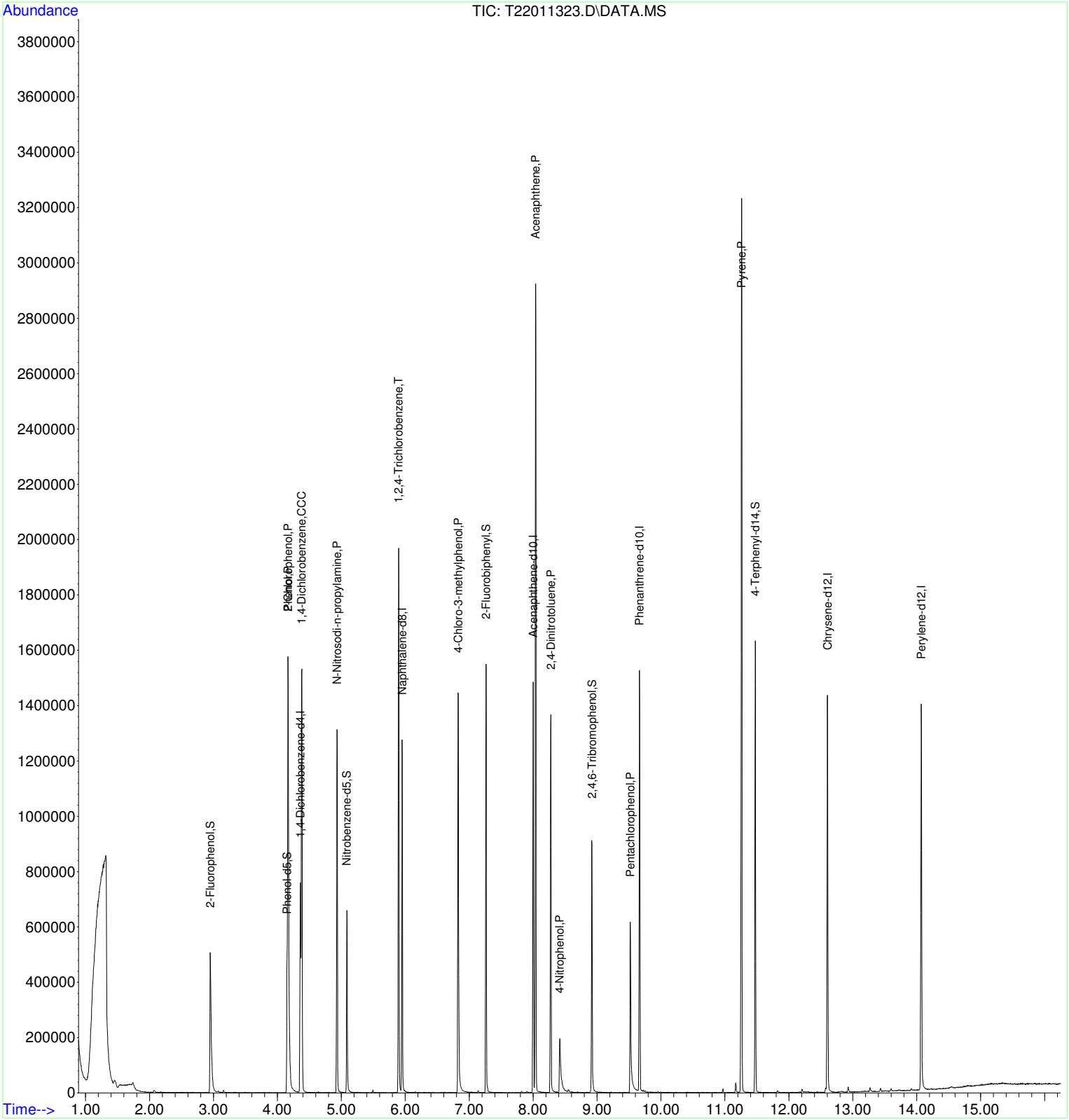
Quant Time: Jan 14 09:14:07 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) Benzo[a]pyrene	...	0.000	252	0		N.D.
108) Dibenz(a,j)acridine	...	0.000	279	0		N.D.
109) Indeno[1,2,3-cd]pyrene	...	0.000	276	0		N.D.
110) Dibenz(a,h)anthracene	...	0.000	278	0		N.D.
111) Benzo[g,h,i]perylene	...	0.000	276	0		N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011323.D
Acq On : 13 Jan 2022 6:42 pm
Operator : YH
Sample : LCS-328904
Misc : LCS 8270_TCL4.2_W
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 14 09:14:07 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011324.D
Acq On : 13 Jan 2022 7:10 pm
Operator : YH
Sample : 2201A74-006B
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 14 09:16:03 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.359	152	95785	40.00	ng	-0.01
23) Naphthalene-d8	...	5.950	136	384802	40.00	ng	-0.01
45) Acenaphthene-d10	...	7.999	164	215470	40.00	ng	-0.01
73) Phenanthrene-d10	...	9.664	188	377041	40.00	ng	-0.01
92) Chrysene-d12	...	12.602	240	342889	40.00	ng	-0.01
104) Perylene-d12	...	14.068	264	362668	40.00	ng	-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	...	2.953	112	151356	49.90	ng	0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 49.90%				
9) Phenol-d5	...	4.154	99	122785	34.50	ng	0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 34.50%				
24) Nitrobenzene-d5	...	5.086	82	130241	42.71	ng	-0.01
Spiked Amount 50.000	Range 34 - 114		Recovery = 85.42%				
50) 2-Fluorobiphenyl	...	7.263	172	277972	42.26	ng	-0.01
Spiked Amount 50.000	Range 43 - 116		Recovery = 84.52%				
72) 2,4,6-Tribromophenol	...	8.917	330	70228	80.82	ng	-0.01
Spiked Amount 100.000	Range 10 - 123		Recovery = 80.82%				
94) 4-Terphenyl-d14	...	11.474	244	417497	50.07	ng	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 100.14%				

Target Compounds					Qvalue
2) Pyridine	...	0.000	79	0	N.D.
3) 2-Picoline	...	0.000	93	0	N.D.
4) Methyl methanesulfonate	...	0.000	80	0	N.D.
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.
7) Benzaldehyde	...	0.000	105	0	N.D.
8) Aniline	...	0.000	66	0	N.D.
10) Phenol	...	0.000	94	0	N.D.
11) Bis(2-chloroethyl)ether	...	0.000	93	0	N.D.
12) 2-Chlorophenol	...	0.000	128	0	N.D.
13) 1,3-Dichlorobenzene	...	0.000	146	0	N.D.
14) 1,4-Dichlorobenzene	...	0.000	146	0	N.D.
15) 1,2-Dichlorobenzene	...	0.000	146	0	N.D.
16) Benzyl alcohol	...	0.000	108	0	N.D.
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0	N.D.
18) 2-Methylphenol	...	0.000	107	0	N.D.
19) 3,4-Methylphenol	...	0.000	107	0	N.D.
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.
21) N-Nitrosodimethylamine	...	0.000	74	0	N.D.
22) Hexachloroethane	...	0.000	117	0	N.D.
25) Acetophenone	...	0.000	105	0	N.D.
26) Nitrobenzene	...	0.000	123	0	N.D.
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.
28) Isophorone	...	0.000	82	0	N.D.
29) 2-Nitrophenol	...	0.000	139	0	N.D.
30) 2,4-Dimethylphenol	...	0.000	122	0	N.D.
31) Bis(2-chloroethoxy)methane	...	0.000	93	0	N.D.
32) 2,4-Dichlorophenol	...	0.000	162	0	N.D.
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.
34) Naphthalene	...	0.000	128	0	N.D.
35) Benzoic acid	...	0.000	122	0	N.D.
36) 2,6-Dichlorophenol	...	0.000	162	0	N.D.
37) 4-Chloroaniline	...	0.000	127	0	N.D.
38) Hexachlorobutadiene	...	0.000	225	0	N.D.
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D. d
40) Caprolactam	...	0.000	113	0	N.D.
41) 4-Chloro-3-methylphenol	...	0.000	107	0	N.D.

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011324.D
Acq On : 13 Jan 2022 7:10 pm
Operator : YH
Sample : 2201A74-006B
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 14 09:16:03 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) N-Nitroso-di-n-butylamine	...	0.000	84	0		N.D.
43) 2-Methylnaphthalene	...	0.000	141	0		N.D.
44) 1-Methylnaphthalene	...	0.000	141	0		N.D.
46) 1,2,4,5-Tetrachlorobenzene	...	0.000	216	0		N.D.
47) Hexachlorocyclopentadiene	...	0.000	237	0		N.D.
48) 2,4,6-Trichlorophenol	...	0.000	196	0		N.D.
49) 2,4,5-Trichlorophenol	...	0.000	196	0		N.D.
51) Biphenyl	...	0.000	154	0		N.D.
52) 2-Chloronaphthalene	...	0.000	162	0		N.D.
53) 1-Chloronaphthalene	...	0.000	162	0		N.D.
54) 2-Nitroaniline	...	0.000	65	0		N.D.
55) 3-Nitroaniline	...	0.000	138	0		N.D.
56) Pentachlorobenzene	...	0.000	250	0		N.D.
57) 4-Nitroaniline	...	0.000	138	0		N.D.
58) 2-Naphthylamine	...	0.000	143	0		N.D.
59) 1-Naphthylamine	...	0.000	143	0		N.D.
60) Dimethyl phthalate	...	0.000	163	0		N.D.
61) Acenaphthylene	...	0.000	152	0		N.D.
62) 2,6-Dinitrotoluene	...	0.000	165	0		N.D.
63) Acenaphthene	...	0.000	154	0		N.D.
64) 2,4-Dinitrophenol	...	0.000	184	0		N.D.
65) Dibenzofuran	...	0.000	168	0		N.D.
66) 4-Nitrophenol	...	0.000	109	0		N.D.
67) 2,4-Dinitrotoluene	...	0.000	165	0		N.D.
68) 2,3,4,6-Tetrachlorophenol	...	0.000	232	0		N.D.
69) Diethyl phthalate	...	0.000	149	0		N.D.
70) Fluorene	...	0.000	166	0		N.D.
71) 4-Chlorophenyl phenyl ether	...	0.000	204	0		N.D.
74) 4,6-Dinitro-2-methylphenol	...	0.000	198	0		N.D.
75) Azobenzene	...	0.000	77	0		N.D.
76) 1,2-Diphenylhydrazine	...	0.000	182	0		N.D.
77) Diphenylamine	...	0.000	170	0		N.D.
78) N-Nitrosodiphenylamine	...	0.000	168	0		N.D.
79) 4-Bromophenyl phenyl ether	...	0.000	248	0		N.D.
80) Phenacetin	...	0.000	108	0		N.D.
81) Hexachlorobenzene	...	0.000	284	0		N.D.
82) Atrazine	...	0.000	200	0		N.D.
83) 4-Aminobiphenyl	...	0.000	169	0		N.D.
84) Pentachlorophenol	...	0.000	266	0		N.D.
85) Pentachloronitrobenzene	...	0.000	237	0		N.D.
86) Pronamide	...	0.000	173	0		N.D.
87) Phenanthrene	...	0.000	178	0		N.D.
88) Anthracene	...	0.000	178	0		N.D.
89) Carbazole	...	0.000	167	0		N.D.
90) Di-n-butyl phthalate	...	0.000	149	0		N.D.
91) Fluoranthene	...	0.000	202	0		N.D.
93) Pyrene	...	0.000	202	0		N.D.
95) Benzidine	...	0.000	184	0		N.D.
96) p-Dimethylaminoazobenzene	...	0.000	225	0		N.D.
97) Butyl benzyl phthalate	...	0.000	149	0		N.D.
98) Benz(a)anthracene	...	0.000	228	0		N.D.
99) 3,3'-Dichlorobenzidine	...	0.000	252	0		N.D.
100) Chrysene	...	0.000	228	0		N.D.
101) Bis(2-ethylhexyl)phthalate	...	0.000	149	0		N.D.
102) Di-n-octyl phthalate	...	0.000	149	0		N.D.
103) 3-Methylcholanthrene	...	0.000	268	0		N.D.
105) Benzo[b]fluoranthene	...	0.000	252	0		N.D.
106) Benzo[k]fluoranthene	...	0.000	252	0		N.D.

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011324.D
Acq On : 13 Jan 2022 7:10 pm
Operator : YH
Sample : 2201A74-006B
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 20 Sample Multiplier: 1

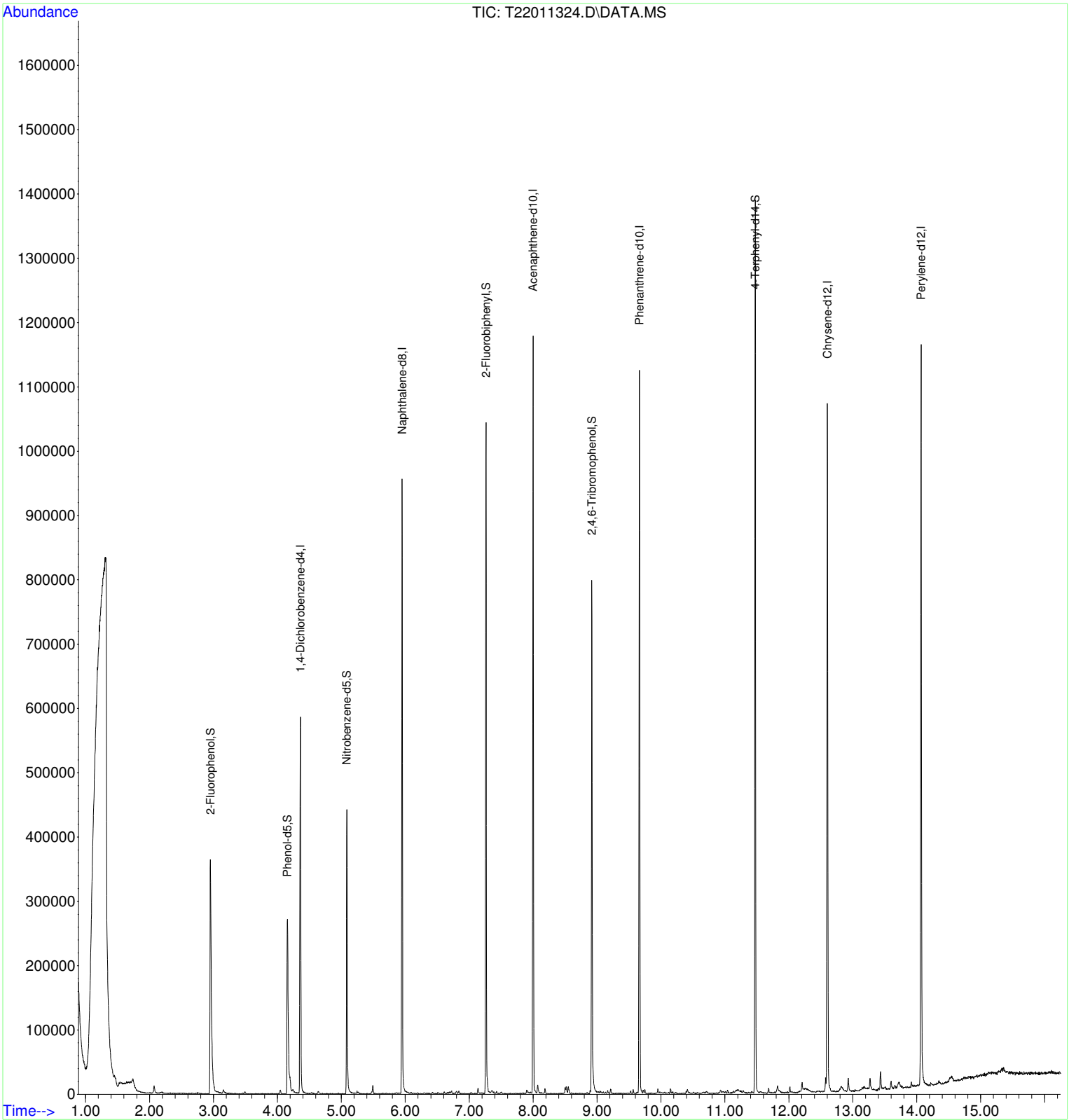
Quant Time: Jan 14 09:16:03 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) Benzo[a]pyrene	...	0.000	252	0		N.D.
108) Dibenz(a,j)acridine	...	0.000	279	0		N.D.
109) Indeno[1,2,3-cd]pyrene	...	0.000	276	0		N.D.
110) Dibenz(a,h)anthracene	...	0.000	278	0		N.D.
111) Benzo[g,h,i]perylene	...	0.000	276	0		N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011324.D
Acq On : 13 Jan 2022 7:10 pm
Operator : YH
Sample : 2201A74-006B
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 14 09:16:03 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011325.D
Acq On : 13 Jan 2022 7:38 pm
Operator : YH
Sample : 2201A74-006BMS
Misc : MS 8270_TCL4.2_W
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 14 09:17:41 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.359	152	84680	40.00	ng		-0.01
23) Naphthalene-d8	...	5.950	136	328718	40.00	ng		-0.01
45) Acenaphthene-d10	...	7.999	164	191568	40.00	ng		-0.01
73) Phenanthrene-d10	...	9.664	188	332280	40.00	ng		-0.01
92) Chrysene-d12	...	12.602	240	301465	40.00	ng		-0.01
104) Perylene-d12	...	14.068	264	331887	40.00	ng		-0.01
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.953	112	153209	57.13	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 57.13%					
9) Phenol-d5	...	4.152	99	156450	49.73	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 49.73%					
24) Nitrobenzene-d5	...	5.087	82	145771	55.96	ng		-0.01
Spiked Amount 50.000	Range 34 - 114		Recovery = 111.92%					
50) 2-Fluorobiphenyl	...	7.263	172	304646	52.09	ng		-0.01
Spiked Amount 50.000	Range 43 - 116		Recovery = 104.18%					
72) 2,4,6-Tribromophenol	...	8.920	330	75767	97.45	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 97.45%					
94) 4-Terphenyl-d14	...	11.474	244	427694	58.34	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 116.68%					
Target Compounds								Qvalue
2) Pyridine	...	0.000	79	0	N.D.			
3) 2-Picoline	...	0.000	93	0	N.D.			
4) Methyl methanesulfonate	...	0.000	80	0	N.D.			
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.			
7) Benzaldehyde	...	0.000	105	0	N.D.			
8) Aniline	...	0.000	66	0	N.D.			
10) Phenol	...	4.166	94	164002	48.66	ng	#	74
11) Bis(2-chloroethyl)ether	...	0.000	93	0	N.D.	d		
12) 2-Chlorophenol	...	4.166	128	231927	84.10	ng		91
13) 1,3-Dichlorobenzene	...	0.000	146	0	N.D.	d		
14) 1,4-Dichlorobenzene	...	4.379	146	273780	87.32	ng		98
15) 1,2-Dichlorobenzene	...	0.000	146	0	N.D.	d		
16) Benzyl alcohol	...	0.000	108	0	N.D.			
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0	N.D.			
18) 2-Methylphenol	...	0.000	107	0	N.D.			
19) 3,4-Methylphenol	...	0.000	107	0	N.D.			
20) N-Nitrosodi-n-propylamine	...	4.930	70	202530	114.98	ng		93
21) N-Nitrosodimethylamine	...	0.000	74	0	N.D.			
22) Hexachloroethane	...	0.000	117	0	N.D.			
25) Acetophenone	...	0.000	105	0	N.D.			
26) Nitrobenzene	...	0.000	123	0	N.D.			
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.			
28) Isophorone	...	0.000	82	0	N.D.			
29) 2-Nitrophenol	...	0.000	139	0	N.D.			
30) 2,4-Dimethylphenol	...	0.000	122	0	N.D.			
31) Bis(2-chloroethoxy)methane	...	0.000	93	0	N.D.			
32) 2,4-Dichlorophenol	...	0.000	162	0	N.D.			
33) 1,2,4-Trichlorobenzene	...	5.896	180	242922	91.05	ng		100
34) Naphthalene	...	0.000	128	0	N.D.			
35) Benzoic acid	...	0.000	122	0	N.D.			
36) 2,6-Dichlorophenol	...	0.000	162	0	N.D.			
37) 4-Chloroaniline	...	0.000	127	0	N.D.			
38) Hexachlorobutadiene	...	0.000	225	0	N.D.			
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D.			
40) Caprolactam	...	0.000	113	0	N.D.			
41) 4-Chloro-3-methylphenol	...	6.825	107	226998	99.97	ng		96

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011325.D
Acq On : 13 Jan 2022 7:38 pm
Operator : YH
Sample : 2201A74-006BMS
Misc : MS 8270_TCL4.2_W
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 14 09:17:41 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) N-Nitroso-di-n-butylamine	...	0.000	84	0	N.D.		
43) 2-Methylnaphthalene	...	0.000	141	0	N.D. d		
44) 1-Methylnaphthalene	...	0.000	141	0	N.D. d		
46) 1,2,4,5-Tetrachlorobenzene	...	0.000	216	0	N.D.		
47) Hexachlorocyclopentadiene	...	0.000	237	0	N.D.		
48) 2,4,6-Trichlorophenol	...	0.000	196	0	N.D.		
49) 2,4,5-Trichlorophenol	...	0.000	196	0	N.D.		
51) Biphenyl	...	0.000	154	0	N.D.		
52) 2-Chloronaphthalene	...	0.000	162	0	N.D.		
53) 1-Chloronaphthalene	...	0.000	162	0	N.D.		
54) 2-Nitroaniline	...	0.000	65	0	N.D.		
55) 3-Nitroaniline	...	0.000	138	0	N.D.		
56) Pentachlorobenzene	...	0.000	250	0	N.D.		
57) 4-Nitroaniline	...	0.000	138	0	N.D.		
58) 2-Naphthylamine	...	0.000	143	0	N.D.		
59) 1-Naphthylamine	...	0.000	143	0	N.D.		
60) Dimethyl phthalate	...	0.000	163	0	N.D.		
61) Acenaphthylene	...	0.000	152	0	N.D. d		
62) 2,6-Dinitrotoluene	...	0.000	165	0	N.D.		
63) Acenaphthene	...	8.039	154	488573	102.89 ng		98
64) 2,4-Dinitrophenol	...	0.000	184	0	N.D.		
65) Dibenzofuran	...	0.000	168	0	N.D.		
66) 4-Nitrophenol	...	8.417	109	32163	50.65 ng	#	88
67) 2,4-Dinitrotoluene	...	8.275	165	178197	114.34 ng		89
68) 2,3,4,6-Tetrachlorophenol	...	0.000	232	0	N.D.		
69) Diethyl phthalate	...	0.000	149	0	N.D. d		
70) Fluorene	...	0.000	166	0	N.D.		
71) 4-Chlorophenyl phenyl ether	...	0.000	204	0	N.D.		
74) 4,6-Dinitro-2-methylphenol	...	0.000	198	0	N.D.		
75) Azobenzene	...	0.000	77	0	N.D.		
76) 1,2-Diphenylhydrazine	...	0.000	182	0	N.D.		
77) Diphenylamine	...	0.000	170	0	N.D.		
78) N-Nitrosodiphenylamine	...	0.000	168	0	N.D.		
79) 4-Bromophenyl phenyl ether	...	0.000	248	0	N.D.		
80) Phenacetin	...	0.000	108	0	N.D.		
81) Hexachlorobenzene	...	0.000	284	0	N.D.		
82) Atrazine	...	0.000	200	0	N.D. d		
83) 4-Aminobiphenyl	...	0.000	169	0	N.D. d		
84) Pentachlorophenol	...	9.519	266	71330	64.65 ng		97
85) Pentachloronitrobenzene	...	0.000	237	0	N.D.		
86) Pronamide	...	0.000	173	0	N.D.		
87) Phenanthrene	...	0.000	178	0	N.D.		
88) Anthracene	...	0.000	178	0	N.D.		
89) Carbazole	...	0.000	167	0	N.D. d		
90) Di-n-butyl phthalate	...	0.000	149	0	N.D.		
91) Fluoranthene	...	0.000	202	0	N.D. d		
93) Pyrene	...	11.258	202	1110731	110.99 ng		99
95) Benzidine	...	0.000	184	0	N.D.		
96) p-Dimethylaminoazobenzene	...	0.000	225	0	N.D.		
97) Butyl benzyl phthalate	...	0.000	149	0	N.D.		
98) Benz(a)anthracene	...	0.000	228	0	N.D.		
99) 3,3'-Dichlorobenzidine	...	0.000	252	0	N.D.		
100) Chrysene	...	0.000	228	0	N.D.		
101) Bis(2-ethylhexyl)phthalate	...	0.000	149	0	N.D.		
102) Di-n-octyl phthalate	...	0.000	149	0	N.D.		
103) 3-Methylcholanthrene	...	0.000	268	0	N.D.		
105) Benzo[b]fluoranthene	...	0.000	252	0	N.D.		
106) Benzo[k]fluoranthene	...	0.000	252	0	N.D.		

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011325.D
Acq On : 13 Jan 2022 7:38 pm
Operator : YH
Sample : 2201A74-006BMS
Misc : MS 8270_TCL4.2_W
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 14 09:17:41 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

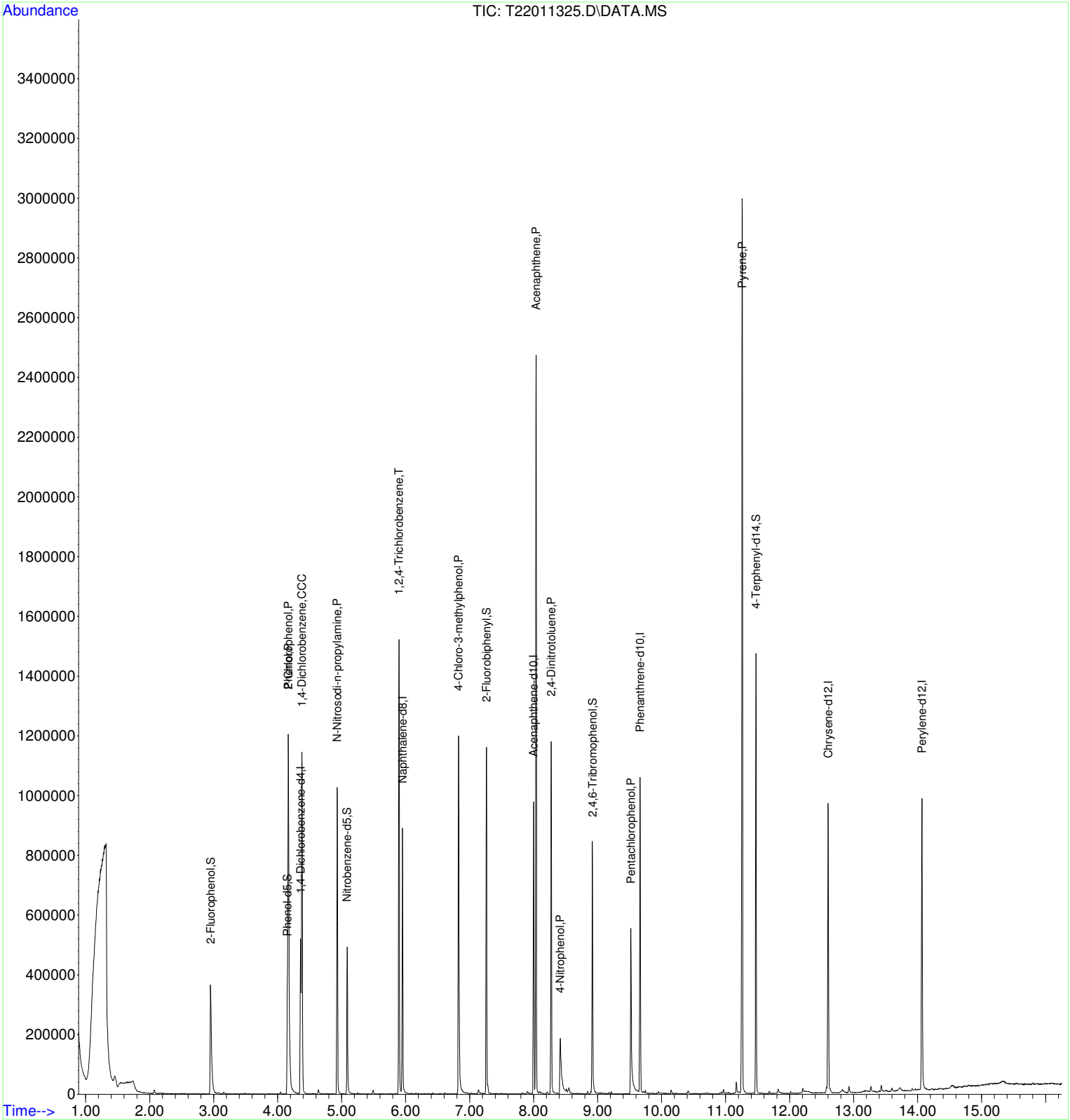
Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
107) Benzo[a]pyrene	...	0.000	252	0			N.D.
108) Dibenz(a,j)acridine	...	0.000	279	0			N.D.
109) Indeno[1,2,3-cd]pyrene	...	0.000	276	0			N.D.
110) Dibenz(a,h)anthracene	...	0.000	278	0			N.D.
111) Benzo[g,h,i]perylene	...	0.000	276	0			N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011325.D
Acq On : 13 Jan 2022 7:38 pm
Operator : YH
Sample : 2201A74-006BMS
Misc : MS 8270_TCL4.2_W
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 14 09:17:41 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011326.D
Acq On : 13 Jan 2022 8:05 pm
Operator : YH
Sample : 2201A74-006BMSD
Misc : MSD 8270_TCL4.2_W
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jan 14 09:19:02 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.359	152	75380	40.00	ng		-0.01
23) Naphthalene-d8	...	5.950	136	296009	40.00	ng		-0.01
45) Acenaphthene-d10	...	7.999	164	170642	40.00	ng		-0.01
73) Phenanthrene-d10	...	9.664	188	296925	40.00	ng		-0.01
92) Chrysene-d12	...	12.602	240	268022	40.00	ng		-0.01
104) Perylene-d12	...	14.068	264	287624	40.00	ng		-0.01
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.950	112	181674	76.11	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 76.11%					
9) Phenol-d5	...	4.152	99	169511	60.53	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 60.53%					
24) Nitrobenzene-d5	...	5.086	82	159704	68.08	ng		-0.01
Spiked Amount 50.000	Range 34 - 114		Recovery = 136.16%#					
50) 2-Fluorobiphenyl	...	7.263	172	340212	65.31	ng		-0.01
Spiked Amount 50.000	Range 43 - 116		Recovery = 130.62%#					
72) 2,4,6-Tribromophenol	...	8.920	330	83498	119.87	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 119.87%					
94) 4-Terphenyl-d14	...	11.474	244	458074	70.28	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 140.56%					
Target Compounds								Qvalue
2) Pyridine	...	0.000	79	0	N.D.			
3) 2-Picoline	...	0.000	93	0	N.D.			
4) Methyl methanesulfonate	...	0.000	80	0	N.D.			
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.			
7) Benzaldehyde	...	0.000	105	0	N.D.			
8) Aniline	...	0.000	66	0	N.D.			
10) Phenol	...	4.166	94	178399	59.47	ng	#	70
11) Bis(2-chloroethyl)ether	...	0.000	93	0	N.D.	d		
12) 2-Chlorophenol	...	4.166	128	276571	112.66	ng		93
13) 1,3-Dichlorobenzene	...	0.000	146	0	N.D.	d		
14) 1,4-Dichlorobenzene	...	4.379	146	318350	114.06	ng		98
15) 1,2-Dichlorobenzene	...	0.000	146	0	N.D.	d		
16) Benzyl alcohol	...	0.000	108	0	N.D.			
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0	N.D.			
18) 2-Methylphenol	...	0.000	107	0	N.D.			
19) 3,4-Methylphenol	...	0.000	107	0	N.D.			
20) N-Nitrosodi-n-propylamine	...	4.933	70	231552	147.68	ng		94
21) N-Nitrosodimethylamine	...	0.000	74	0	N.D.			
22) Hexachloroethane	...	0.000	117	0	N.D.			
25) Acetophenone	...	0.000	105	0	N.D.			
26) Nitrobenzene	...	0.000	123	0	N.D.			
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.			
28) Isophorone	...	0.000	82	0	N.D.			
29) 2-Nitrophenol	...	0.000	139	0	N.D.			
30) 2,4-Dimethylphenol	...	0.000	122	0	N.D.			
31) Bis(2-chloroethoxy)methane	...	0.000	93	0	N.D.			
32) 2,4-Dichlorophenol	...	0.000	162	0	N.D.			
33) 1,2,4-Trichlorobenzene	...	5.896	180	277906	115.67	ng		98
34) Naphthalene	...	0.000	128	0	N.D.			
35) Benzoic acid	...	0.000	122	0	N.D.			
36) 2,6-Dichlorophenol	...	0.000	162	0	N.D.			
37) 4-Chloroaniline	...	0.000	127	0	N.D.			
38) Hexachlorobutadiene	...	0.000	225	0	N.D.			
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D.			
40) Caprolactam	...	0.000	113	0	N.D.			
41) 4-Chloro-3-methylphenol	...	6.825	107	253779	124.11	ng		96

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011326.D
Acq On : 13 Jan 2022 8:05 pm
Operator : YH
Sample : 2201A74-006BMSD
Misc : MSD 8270_TCL4.2_W
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jan 14 09:19:02 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) N-Nitroso-di-n-butylamine	...	0.000	84	0	N.D.		
43) 2-Methylnaphthalene	...	0.000	141	0	N.D. d		
44) 1-Methylnaphthalene	...	0.000	141	0	N.D. d		
46) 1,2,4,5-Tetrachlorobenzene	...	0.000	216	0	N.D.		
47) Hexachlorocyclopentadiene	...	0.000	237	0	N.D.		
48) 2,4,6-Trichlorophenol	...	0.000	196	0	N.D.		
49) 2,4,5-Trichlorophenol	...	0.000	196	0	N.D.		
51) Biphenyl	...	0.000	154	0	N.D.		
52) 2-Chloronaphthalene	...	0.000	162	0	N.D.		
53) 1-Chloronaphthalene	...	0.000	162	0	N.D.		
54) 2-Nitroaniline	...	0.000	65	0	N.D.		
55) 3-Nitroaniline	...	0.000	138	0	N.D.		
56) Pentachlorobenzene	...	0.000	250	0	N.D.		
57) 4-Nitroaniline	...	0.000	138	0	N.D.		
58) 2-Naphthylamine	...	0.000	143	0	N.D.		
59) 1-Naphthylamine	...	0.000	143	0	N.D.		
60) Dimethyl phthalate	...	0.000	163	0	N.D.		
61) Acenaphthylene	...	0.000	152	0	N.D. d		
62) 2,6-Dinitrotoluene	...	0.000	165	0	N.D.		
63) Acenaphthene	...	8.039	154	552569	130.64 ng		98
64) 2,4-Dinitrophenol	...	0.000	184	0	N.D.		
65) Dibenzofuran	...	0.000	168	0	N.D.		
66) 4-Nitrophenol	...	8.414	109	35150	62.14 ng	#	83
67) 2,4-Dinitrotoluene	...	8.277	165	195729	141.00 ng		87
68) 2,3,4,6-Tetrachlorophenol	...	0.000	232	0	N.D.		
69) Diethyl phthalate	...	0.000	149	0	N.D. d		
70) Fluorene	...	0.000	166	0	N.D.		
71) 4-Chlorophenyl phenyl ether	...	0.000	204	0	N.D.		
74) 4,6-Dinitro-2-methylphenol	...	0.000	198	0	N.D.		
75) Azobenzene	...	0.000	77	0	N.D.		
76) 1,2-Diphenylhydrazine	...	0.000	182	0	N.D.		
77) Diphenylamine	...	0.000	170	0	N.D.		
78) N-Nitrosodiphenylamine	...	0.000	168	0	N.D.		
79) 4-Bromophenyl phenyl ether	...	0.000	248	0	N.D.		
80) Phenacetin	...	0.000	108	0	N.D.		
81) Hexachlorobenzene	...	0.000	284	0	N.D.		
82) Atrazine	...	0.000	200	0	N.D. d		
83) 4-Aminobiphenyl	...	0.000	169	0	N.D. d		
84) Pentachlorophenol	...	9.519	266	78516	79.64 ng		97
85) Pentachloronitrobenzene	...	0.000	237	0	N.D.		
86) Pronamide	...	0.000	173	0	N.D.		
87) Phenanthrene	...	0.000	178	0	N.D.		
88) Anthracene	...	0.000	178	0	N.D.		
89) Carbazole	...	0.000	167	0	N.D. d		
90) Di-n-butyl phthalate	...	0.000	149	0	N.D.		
91) Fluoranthene	...	0.000	202	0	N.D. d		
93) Pyrene	...	11.261	202	1192624	134.04 ng		99
95) Benzidine	...	0.000	184	0	N.D.		
96) p-Dimethylaminoazobenzene	...	0.000	225	0	N.D.		
97) Butyl benzyl phthalate	...	0.000	149	0	N.D.		
98) Benz(a)anthracene	...	0.000	228	0	N.D.		
99) 3,3'-Dichlorobenzidine	...	0.000	252	0	N.D.		
100) Chrysene	...	0.000	228	0	N.D.		
101) Bis(2-ethylhexyl)phthalate	...	0.000	149	0	N.D.		
102) Di-n-octyl phthalate	...	0.000	149	0	N.D.		
103) 3-Methylcholanthrene	...	0.000	268	0	N.D.		
105) Benzo[b]fluoranthene	...	0.000	252	0	N.D.		
106) Benzo[k]fluoranthene	...	0.000	252	0	N.D.		

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011326.D
Acq On : 13 Jan 2022 8:05 pm
Operator : YH
Sample : 2201A74-006BMSD
Misc : MSD 8270_TCL4.2_W
ALS Vial : 22 Sample Multiplier: 1

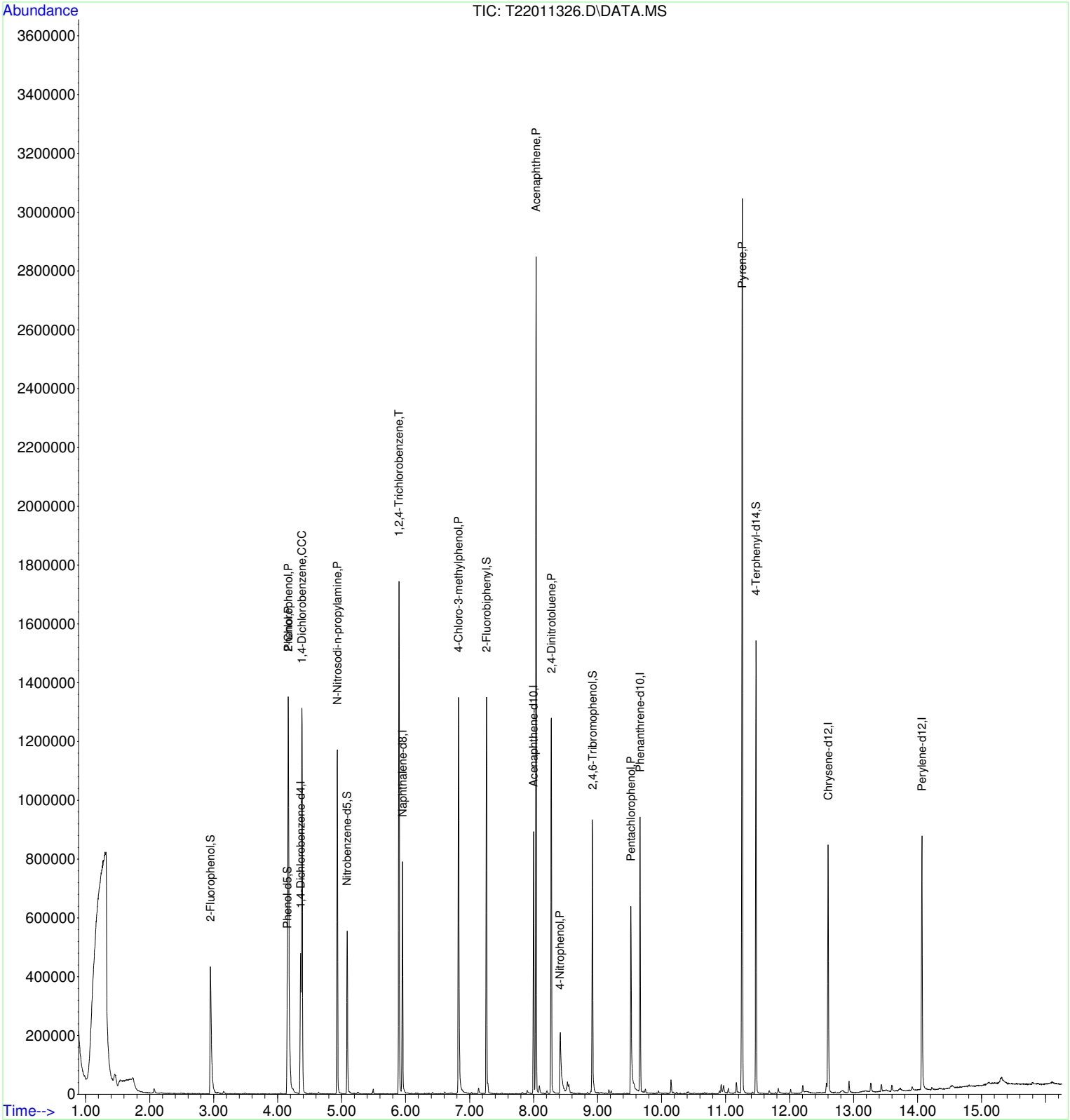
Quant Time: Jan 14 09:19:02 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) Benzo[a]pyrene	...	0.000	252	0		N.D.
108) Dibenz(a,j)acridine	...	0.000	279	0		N.D.
109) Indeno[1,2,3-cd]pyrene	...	0.000	276	0		N.D.
110) Dibenz(a,h)anthracene	...	0.000	278	0		N.D.
111) Benzo[g,h,i]perylene	...	0.000	276	0		N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\T220113\
Data File : T22011326.D
Acq On : 13 Jan 2022 8:05 pm
Operator : YH
Sample : 2201A74-006BMSD
Misc : MSD 8270_TCL4.2_W
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jan 14 09:19:02 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 12 16:50:53 2022
Response via : Initial Calibration



Injection Log

Directory: C:\msdchem\1\data\T220118

Line	Vial	FileName	Multiplier	SampleName		Misc Info	Injected
1	1	T22011802.D	1.	DFTPP		TUNE DFTPP_4	18 Jan 2022 09:14
2	2	T22011803.D	1.	BNA40		CCV 8270_TCL4.2_W	18 Jan 2022 09:42
3	3	T22011804.D	1.	EX40		CCV 8270_TCL4.2_W	18 Jan 2022 10:11
4	1	T22011805.D	1.	DFTPP		TUNE DFTPP_4	18 Jan 2022 11:37
5	2	T22011806.D	1.	BNA40		CCV 8270_TCL4.2_W	18 Jan 2022 12:06
6	3	T22011807.D	1.	EX40		CCV 8270_TCL4.2_W	18 Jan 2022 12:36
7	2	T22011808.D	1.	BNA40		CCV 8270_TCL4.2_W	18 Jan 2022 14:28
8	79	T22011810.D	1.	2201A78-001B	20X	SAMP 8270_TCL4.2_W	18 Jan 2022 13:06
9	74	T22011811.D	1.	LCS-329060		LCS 8270_TCL4.2_W	18 Jan 2022 13:35
10	75	T22011815.D	1.	2201E98-004B		SAMP 8270_TCL4.2_W	18 Jan 2022 14:57
11	76	T22011816.D	1.	2201E98-004BMS		MS 8270_TCL4.2_W	18 Jan 2022 15:26
12	77	T22011817.D	1.	2201498-004BMSD		MSD 8270_TCL4.2_W	18 Jan 2022 15:55
13	78	T22011818.D	1.	2201E98-001B		SAMP 8270_TCL4.2_W	18 Jan 2022 16:24
14	79	T22011819.D	1.	2201A78-001B	20X	SAMP 8270_TCL4.2_W	18 Jan 2022 16:53
15	80	T22011820.D	1.	MB-329097		MBLK 625.1	18 Jan 2022 17:21
16	80	T22011825.D	1.	MB-329097		MBLK 625.1	18 Jan 2022 17:49
17	81	T22011826.D	1.	LCS-329097		LCS 625.1	18 Jan 2022 18:18
18	82	T22011827.D	1.	2201E09-001B		SAMP 625.1	18 Jan 2022 18:45
19	83	T22011828.D	1.	2201E09-001BMS		MS 625.1	18 Jan 2022 19:11
20	84	T22011829.D	1.	2201E09-001BMSD		MSD 625.1	18 Jan 2022 19:38
21	85	T22011830.D	1.	2201G55-002A		SAMP 625.1	18 Jan 2022 20:05
22	86	T22011831.D	1.	2201F80-002A		SAMP 625.1	18 Jan 2022 20:32
23	87	T22011832.D	1.	2201F15-001B		SAMP 625.1	18 Jan 2022 20:59
24	88	T22011833.D	1.	2201D31-008A	5X	SAMP 625.1	18 Jan 2022 21:26
25	89	T22011834.D	1.	MB-329194		MBLK 8270_TCL4.2_W	19 Jan 2022 01:06
26	90	T22011835.D	1.	LCS-329194		LCS 8270_TCL4.2_W	19 Jan 2022 01:34
27	91	T22011836.D	1.	2201H60-002B		SAMP 8270_TCL4.2_W	19 Jan 2022 02:02
28	92	T22011837.D	1.	2201H60-002BMS		MS 8270_TCL4.2_W	19 Jan 2022 02:29
29	93	T22011838.D	1.	2201H60-002BMSD		MSD 8270_TCL4.2_W	19 Jan 2022 02:57
30	94	T22011839.D	1.	2201H60-001B		SAMP 8270_TCL4.2_W	18 Jan 2022 21:54
31	95	T22011840.D	1.	2201H91-001B		SAMP 625.1_SC	18 Jan 2022 22:22
32	96	T22011841.D	1.	2201H92-001B		SAMP 625.1_SC	18 Jan 2022 22:49
33	97	T22011842.D	1.	2201H93-001B		SAMP 625.1_SC	18 Jan 2022 23:16
34	98	T22011843.D	1.	2201H93-002B		SAMP 625.1_SC	18 Jan 2022 23:44
35	99	T22011844.D	1.	2201H94-001A		SAMP 625.1_SC	19 Jan 2022 00:10
36	100	T22011845.D	1.	2201I13-004A		SAMP 625.1_SC	19 Jan 2022 00:38

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T220118\
Data File : T22011806.D
Acq On : 18 Jan 2022 12:06 pm
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 18 12:25:41 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Jan 18 11:26:23 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	100	0.00
2		Pyridine	40.000	34.246	14.4	84	-0.01
3	T	2-Picoline	40.000	37.841	5.4	95	-0.01
4	T	Methyl methanesulfonate	40.000	47.536	-18.8	120	-0.01
5	S	2-Fluorophenol	40.000	37.094	7.3	92	-0.03
6	T	Ethyl methanesulfonate	40.000	37.769	5.6	96	-0.02
7	P	Benzaldehyde	40.000	44.891	-12.2	114	-0.01
8	T	Aniline	40.000	47.913	-19.8	126	-0.02
9	S	Phenol-d5	40.000	38.859	2.9	95	-0.04
10	P	Phenol	40.000	40.631	-1.6	97	-0.04
11	P	Bis(2-chloroethyl)ether	40.000	42.817	-7.0	104	-0.01
12	P	2-Chlorophenol	40.000	41.691	-4.2	103	-0.02
13	T	1,3-Dichlorobenzene	40.000	38.140	4.6	93	0.00
14	CCC	1,4-Dichlorobenzene	40.000	39.551	1.1	97	0.00
15	T	1,2-Dichlorobenzene	40.000	39.276	1.8	97	0.00
16	T	Benzyl alcohol	40.000	39.670	0.8	99	-0.02
17	T	Bis(2-chloroisopropyl)ether	40.000	47.025	-17.6	115	-0.01
18	P	2-Methylphenol	40.000	38.849	2.9	95	-0.03
19	P	3,4-Methylphenol	80.000	84.092	-5.1	103	-0.03
20	P	N-Nitrosodi-n-propylamine	40.000	45.156	-12.9	109	-0.01
21	T	N-Nitrosodimethylamine	40.000	34.440	13.9	87	0.00
22	P	Hexachloroethane	40.000	45.434	-13.6	111	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	104	0.00
24	S	Nitrobenzene-d5	40.000	42.965	-7.4	110	-0.01
25	P	Acetophenone	80.000	83.611	-4.5	106	-0.01
26	P	Nitrobenzene	40.000	41.518	-3.8	107	-0.01
27	T	N-Nitrosopiperidine	40.000	39.518	1.2	103	-0.01
28	P	Isophorone	40.000	42.782	-7.0	109	-0.01
29	P	2-Nitrophenol	40.000	42.008	-5.0	112	-0.01
30	P	2,4-Dimethylphenol	40.000	36.753	8.1	94	-0.02
31	P	Bis(2-chloroethoxy)methane	40.000	40.733	-1.8	104	-0.01
32	P	2,4-Dichlorophenol	40.000	39.062	2.3	99	-0.03
33	T	1,2,4-Trichlorobenzene	40.000	38.764	3.1	99	0.00
34	P	Naphthalene	40.000	39.351	1.6	99	-0.01
35	T	Benzoic acid	40.000	41.179	-2.9	49	-0.04
36	T	2,6-Dichlorophenol	40.000	39.201	2.0	100	-0.02
37	P	4-Chloroaniline	40.000	42.563	-6.4	112	-0.02
38	P	Hexachlorobutadiene	40.000	40.740	-1.9	106	0.00
39	T	a,a-Dimethylphenethylamine	40.000	38.907	2.7	103	0.04
40	P	Caprolactam	40.000	40.886	-2.2	103	-0.03
41	P	4-Chloro-3-methylphenol	40.000	40.404	-1.0	103	-0.03
42	T	N-Nitroso-di-n-butylamine	40.000	57.020	-42.6#	149	0.00
43	P	2-Methylnaphthalene	40.000	40.212	-0.5	100	0.00
44	T	1-Methylnaphthalene	40.000	40.222	-0.6	101	0.00
45	I	Acenaphthene-d10	40.000	40.000	0.0	104	0.00
46	T	1,2,4,5-Tetrachlorobenzene	40.000	38.211	4.5	96	0.00
47	P	Hexachlorocyclopentadiene	40.000	38.674	3.3	99	0.00
48	P	2,4,6-Trichlorophenol	40.000	39.250	1.9	104	-0.02
49	P	2,4,5-Trichlorophenol	40.000	36.524	8.7	96	-0.03
50	S	2-Fluorobiphenyl	40.000	39.753	0.6	100	0.00
51		Biphenyl	40.000	39.509	1.2	96	0.00
52	P	2-Chloronaphthalene	40.000	39.209	2.0	100	-0.01

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T220118\
Data File : T22011806.D
Acq On : 18 Jan 2022 12:06 pm
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 18 12:25:41 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Jan 18 11:26:23 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
53	T	1-Chloronaphthalene	40.000	40.733	-1.8	101	-0.01
54	P	2-Nitroaniline	40.000	47.296	-18.2	126	-0.02
55	P	3-Nitroaniline	40.000	38.896	2.8	104	-0.02
56	T	Pentachlorobenzene	40.000	38.969	2.6	100	0.00
57	P	4-Nitroaniline	40.000	43.945	-9.9	118	-0.02
58	T	2-Naphthylamine	40.000	30.052	24.9	78	-0.01
59	T	1-Naphthylamine	40.000	36.352	9.1	105	-0.01
60	P	Dimethyl phthalate	40.000	41.191	-3.0	107	-0.01
61	P	Acenaphthylene	40.000	39.969	0.1	100	-0.01
62	P	2,6-Dinitrotoluene	40.000	43.520	-8.8	113	-0.01
63	P	Acenaphthene	40.000	38.563	3.6	97	-0.01
64	P	2,4-Dinitrophenol	40.000	53.528	-33.8#	214	-0.04
65	P	Dibenzofuran	40.000	39.526	1.2	99	0.00
66	P	4-Nitrophenol	40.000	33.580	16.1	90	-0.04
67	P	2,4-Dinitrotoluene	40.000	45.690	-14.2	120	-0.01
68	T	2,3,4,6-Tetrachlorophenol	40.000	27.863	30.3#	74	-0.02
69	P	Diethyl phthalate	40.000	42.145	-5.4	107	-0.01
70	P	Fluorene	40.000	39.925	0.2	100	-0.01
71	P	4-Chlorophenyl phenyl ether	40.000	39.135	2.2	101	0.00
72	S	2,4,6-Tribromophenol	40.000	35.806	10.5	96	-0.01
73	I	Phenanthrene-d10	40.000	40.000	0.0	102	-0.01
74	P	4,6-Dinitro-2-methylphenol	40.000	38.988	2.5	116	-0.01
75	T	Azobenzene	40.000	48.413	-21.0	122	0.00
76	T	1,2-Diphenylhydrazine	40.000	39.346	1.6	98	-0.01
77	CCC	Diphenylamine	40.000	40.277	-0.7	100	-0.01
78	P	N-Nitrosodiphenylamine	40.000	40.620	-1.5	101	-0.01
79	P	4-Bromophenyl phenyl ether	40.000	39.574	1.1	100	-0.01
80	T	Phenacetin	40.000	49.426	-23.6	123	-0.02
81	P	Hexachlorobenzene	40.000	38.674	3.3	97	0.00
82	P	Atrazine	40.000	46.511	-16.3	117	-0.02
83	T	4-Aminobiphenyl	40.000	41.141	-2.9	132	-0.01
84	P	Pentachlorophenol	40.000	26.820	33.0#	67	-0.02
85	T	Pentachloronitrobenzene	40.000	45.075	-12.7	115	-0.01
86	T	Pronamide	40.000	43.177	-7.9	110	-0.02
87	P	Phenanthrene	40.000	38.963	2.6	98	-0.01
88	P	Anthracene	40.000	39.332	1.7	98	-0.01
89	P	Carbazole	40.000	40.922	-2.3	106	-0.02
90	P	Di-n-butyl phthalate	40.000	46.721	-16.8	118	-0.01
91	P	Fluoranthene	40.000	40.926	-2.3	101	-0.01
92	I	Chrysene-d12	40.000	40.000	0.0	101	-0.01
93	P	Pyrene	40.000	39.909	0.2	101	-0.01
94	S	4-Terphenyl-d14	40.000	39.312	1.7	102	-0.01
95	T	Benzidine	40.000	34.951	12.6	91	-0.02
96	T	p-Dimethylaminoazobenzene	40.000	41.864	-4.7	116	-0.01
97	P	Butyl benzyl phthalate	40.000	47.959	-19.9	129	-0.01
98	P	Benz(a)anthracene	40.000	40.166	-0.4	104	-0.01
99	P	3,3'-Dichlorobenzidine	40.000	45.947	-14.9	124	-0.02
100	P	Chrysene	40.000	38.438	3.9	100	-0.01
101	P	Bis(2-ethylhexyl)phthalate	40.000	44.944	-12.4	125	-0.01
102	P	Di-n-octyl phthalate	40.000	48.655	-21.6	141	-0.01
103	T	3-Methylcholanthrene	40.000	40.718	-1.8	112	-0.02

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T220118\
Data File : T22011806.D
Acq On : 18 Jan 2022 12:06 pm
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 18 12:25:41 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Jan 18 11:26:23 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
104	I	Perylene-d12	40.000	40.000	0.0	107	-0.02
105	P	Benzo[b]fluoranthene	40.000	36.685	8.3	98	-0.02
106	P	Benzo[k]fluoranthene	40.000	41.679	-4.2	100	-0.01
107	P	Benzo[a]pyrene	40.000	40.578	-1.4	106	-0.02
108	T	Dibenz(a,j)acridine	40.000	42.264	-5.7	113	-0.02
109		Indeno[1,2,3-cd]pyrene	40.000	42.700	-6.8	124	-0.02
110	P	Dibenz(a,h)anthracene	40.000	40.033	-0.1	105	-0.02
111	P	Benzo[g,h,i]perylene	40.000	39.179	2.1	104	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T220118\
Data File : T22011806.D
Acq On : 18 Jan 2022 12:06 pm
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 18 12:25:41 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Jan 18 11:26:23 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
2		Pyridine	1.590	1.361	14.4	84	-0.01
3	T	2-Picoline	1.540	1.457	5.4	95	-0.01
4	T	Methyl methanesulfonate	0.593	0.704	-18.7	120	-0.01
5	S	2-Fluorophenol	1.267	1.175	7.3	92	-0.03
6	T	Ethyl methanesulfonate	1.127	1.064	5.6	96	-0.02
7	P	Benzaldehyde	0.690	0.774	-12.2	114	-0.01
8	T	Aniline	0.620	0.743	-19.8	126	-0.02
9	S	Phenol-d5	1.486	1.444	2.8	95	-0.04
10	P	Phenol	1.592	1.617	-1.6	97	-0.04
11	P	Bis(2-chloroethyl)ether	1.271	1.360	-7.0	104	-0.01
12	P	2-Chlorophenol	1.303	1.358	-4.2	103	-0.02
13	T	1,3-Dichlorobenzene	1.538	1.466	4.7	93	0.00
14	CCC	1,4-Dichlorobenzene	1.481	1.464	1.1	97	0.00
15	T	1,2-Dichlorobenzene	1.470	1.444	1.8	97	0.00
16	T	Benzyl alcohol	0.820	0.813	0.9	99	-0.02
17	T	Bis(2-chloroisopropyl)ether	1.632	1.919	-17.6	115	-0.01
18	P	2-Methylphenol	0.983	0.955	2.8	95	-0.03
19	P	3,4-Methylphenol	1.265	1.329	-5.1	103	-0.03
20	P	N-Nitrosodi-n-propylamine	0.832	0.939	-12.9	109	-0.01
21	T	N-Nitrosodimethylamine	0.890	0.767	13.8	87	0.00
22	P	Hexachloroethane	0.511	0.580	-13.5	111	0.00
23	I	Naphthalene-d8	1.000	1.000	0.0	104	0.00
24	S	Nitrobenzene-d5	0.317	0.340	-7.3	110	-0.01
25	P	Acetophenone	0.443	0.462	-4.3	106	-0.01
26	P	Nitrobenzene	0.163	0.169#	-3.7	107	-0.01
27	T	N-Nitrosopiperidine	0.168	0.166	1.2	103	-0.01
28	P	Isophorone	0.640	0.684	-6.9	109	-0.01
29	P	2-Nitrophenol	0.173	0.182	-5.2	112	-0.01
30	P	2,4-Dimethylphenol	0.302	0.277	8.3	94	-0.02
31	P	Bis(2-chloroethoxy)methane	0.398	0.406	-2.0	104	-0.01
32	P	2,4-Dichlorophenol	0.268	0.261	2.6	99	-0.03
33	T	1,2,4-Trichlorobenzene	0.325	0.315	3.1	99	0.00
34	P	Naphthalene	0.990	0.974	1.6	99	-0.01
35	T	Benzoic acid	0.057	0.014	75.4#	49#	-0.04
36	T	2,6-Dichlorophenol	0.268	0.262	2.2	100	-0.02
37	P	4-Chloroaniline	0.368	0.391	-6.3	112	-0.02
38	P	Hexachlorobutadiene	0.172	0.175	-1.7	106	0.00
39	T	a,a-Dimethylphenethylamine	0.781	0.760	2.7	103	0.04
40	P	Caprolactam	0.111	0.114	-2.7	103	-0.03
41	P	4-Chloro-3-methylphenol	0.276	0.279	-1.1	103	-0.03
42	T	N-Nitroso-di-n-butylamine	0.214	0.305	-42.5#	149	0.00
43	P	2-Methylnaphthalene	0.581	0.584	-0.5	100	0.00
44	T	1-Methylnaphthalene	0.571	0.574	-0.5	101	0.00
45	I	Acenaphthene-d10	1.000	1.000	0.0	104	0.00
46	T	1,2,4,5-Tetrachlorobenzene	0.526	0.503	4.4	96	0.00
47	P	Hexachlorocyclopentadiene	0.268	0.259	3.4	99	0.00
48	P	2,4,6-Trichlorophenol	0.337	0.330	2.1	104	-0.02
49	P	2,4,5-Trichlorophenol	0.353	0.322	8.8	96	-0.03
50	S	2-Fluorobiphenyl	1.221	1.214	0.6	100	0.00
51		Biphenyl	1.336	1.320	1.2	96	0.00
52	P	2-Chloronaphthalene	1.052	1.031	2.0	100	-0.01

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T220118\
Data File : T22011806.D
Acq On : 18 Jan 2022 12:06 pm
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 18 12:25:41 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Jan 18 11:26:23 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
53	T	1-Chloronaphthalene	0.934	0.951	-1.8	101	-0.01
54	P	2-Nitroaniline	0.287	0.340	-18.5	126	-0.02
55	P	3-Nitroaniline	0.286	0.278	2.8	104	-0.02
56	T	Pentachlorobenzene	0.476	0.464	2.5	100	0.00
57	P	4-Nitroaniline	0.287	0.316	-10.1	118	-0.02
58	T	2-Naphthylamine	0.976	0.733	24.9	78	-0.01
59	T	1-Naphthylamine	0.724	0.658	9.1	105	-0.01
60	P	Dimethyl phthalate	1.215	1.251	-3.0	107	-0.01
61	P	Acenaphthylene	1.608	1.607	0.1	100	-0.01
62	P	2,6-Dinitrotoluene	0.246	0.268	-8.9	113	-0.01
63	P	Acenaphthene	0.992	0.956	3.6	97	-0.01
64	P	2,4-Dinitrophenol	0.088	0.105	-19.3	214#	-0.04
65	P	Dibenzofuran	1.524	1.506	1.2	99	0.00
66	P	4-Nitrophenol	0.133	0.111	16.5	90	-0.04
67	P	2,4-Dinitrotoluene	0.325	0.372	-14.5	120	-0.01
68	T	2,3,4,6-Tetrachlorophenol	0.278	0.194	30.2#	74	-0.02
69	P	Diethyl phthalate	1.163	1.226	-5.4	107	-0.01
70	P	Fluorene	1.250	1.247	0.2	100	-0.01
71	P	4-Chlorophenyl phenyl ether	0.588	0.575	2.2	101	0.00
72	S	2,4,6-Tribromophenol	0.153	0.138	9.8	96	-0.01
73	I	Phenanthrene-d10	1.000	1.000	0.0	102	-0.01
74	P	4,6-Dinitro-2-methylphenol	0.094	0.093	1.1	116	-0.01
75	T	Azobenzene	0.598	0.724	-21.1	122	0.00
76	T	1,2-Diphenylhydrazine	0.164	0.161	1.8	98	-0.01
77	CCC	Diphenylamine	0.114	0.115	-0.9	100	-0.01
78	P	N-Nitrosodiphenylamine	0.545	0.553	-1.5	101	-0.01
79	P	4-Bromophenyl phenyl ether	0.212	0.209	1.4	100	-0.01
80	T	Phenacetin	0.299	0.369	-23.4	123	-0.02
81	P	Hexachlorobenzene	0.222	0.214	3.6	97	0.00
82	P	Atrazine	0.168	0.195	-16.1	117	-0.02
83	T	4-Aminobiphenyl	0.544	0.560	-2.9	132	-0.01
84	P	Pentachlorophenol	0.133	0.089	33.1#	67	-0.02
85	T	Pentachloronitrobenzene	0.078	0.088	-12.8	115	-0.01
86	T	Pronamide	0.217	0.235	-8.3	110	-0.02
87	P	Phenanthrene	1.032	1.006	2.5	98	-0.01
88	P	Anthracene	1.027	1.010	1.7	98	-0.01
89	P	Carbazole	0.933	0.955	-2.4	106	-0.02
90	P	Di-n-butyl phthalate	1.129	1.319	-16.8	118	-0.01
91	P	Fluoranthene	1.213	1.241	-2.3	101	-0.01
92	I	Chrysene-d12	1.000	1.000	0.0	101	-0.01
93	P	Pyrene	1.328	1.325	0.2	101	-0.01
94	S	4-Terphenyl-d14	0.973	0.956	1.7	102	-0.01
95	T	Benzidine	0.409	0.334	18.3	91	-0.02
96	T	p-Dimethylaminoazobenzene	0.245	0.262	-6.9	116	-0.01
97	P	Butyl benzyl phthalate	0.528	0.633	-19.9	129	-0.01
98	P	Benz(a)anthracene	1.251	1.256	-0.4	104	-0.01
99	P	3,3'-Dichlorobenzidine	0.375	0.430	-14.7	124	-0.02
100	P	Chrysene	1.181	1.135	3.9	100	-0.01
101	P	Bis(2-ethylhexyl)phthalate	0.658	0.810	-23.1	125	-0.01
102	P	Di-n-octyl phthalate	1.152	1.492	-29.5#	141	-0.01
103	T	3-Methylcholanthrene	0.415	0.423	-1.9	112	-0.02

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T220118\
Data File : T22011806.D
Acq On : 18 Jan 2022 12:06 pm
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 18 12:25:41 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Jan 18 11:26:23 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
104	I	Perylene-d12	1.000	1.000	0.0	107	-0.02
105	P	Benzo[b]fluoranthene	1.244	1.141	8.3	98	-0.02
106	P	Benzo[k]fluoranthene	1.023	1.066	-4.2	100	-0.01
107	P	Benzo[a]pyrene	1.024	1.038	-1.4	106	-0.02
108	T	Dibenz(a,j)acridine	0.888	0.938	-5.6	113	-0.02
109		Indeno[1,2,3-cd]pyrene	1.172	1.251	-6.7	124	-0.02
110	P	Dibenz(a,h)anthracene	1.023	1.024	-0.1	105	-0.02
111	P	Benzo[g,h,i]perylene	1.055	1.034	2.0	104	-0.02

(#) = Out of Range SPCC's out = 1 CCC's out = 0

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\data\T220118\T22011808.D
Tune Time : 18 Jan 2022 2:28 pm

Daily Calibration File : C:\msdchem\1\data\T220118\T22011808.D

(2FP)	(PHL)	(NBZ)	(FBP)	(DCB)	(NPT)	(ANT)
				117072	463020	276172

(TPH)	(PHN)	(CRY)	(PRY)
	469596	450557	472885

File	Sample	Surrogate Recovery %				Internal Standard Responses		
T22011820.D								
	MB-329097	68	47	103	102	100704	410894	235439
		91	107			409197	376181	400113
T22011825.D								
	MB-329097	68	47	108	100	98836	407862	236658
		90	106			410010	377844	398323
T22011826.D								
	LCS-329097	78	54	125*	106	90539	351428	211641
		95	120			352940	339303	362682
T22011827.D								
	2201E09-00	45	32	89	93	100144	409433	226700
		80	106			397435	368592	396492
T22011828.D								
	2201E09-00	46	36	99	89	106853	415038	248924
		78	105			413211	397555	432078
T22011829.D								
	2201E09-00	67	46	131*	116*	88081	338574	202949
		103	134			333806	321733	347181
T22011830.D								
	2201G55-00	93	79	109	102	95370	397166	228910
		102	117			393270	368434	396884
T22011831.D								
	2201F80-00	42	25	96	91	104888	426465	246380
		89	101			420480	396178	419662
T22011833.D								
	2201D31-00	7*	5*	22*	15*	127093	396484	288295
		18	13*			495144	440205	470283
T22011834.D								
	MB-329194	63	44	100	93	109567	450042	258318
		93	107			456407	427900	468331
T22011835.D								
	LCS-329194	72	49	110	103	105891	427568	256064
		105	110			444346	422178	474728
T22011836.D								
	2201H60-00	64	43	104	95	116490	474895	273181
		96	103			477109	448414	497252
T22011837.D								
(fails)	2201H60-00	58	39	97	91	109746	437952	260172
		92	96			455129	437083	486981
T22011838.D								
(fails)	2201H60-00	64	43	102	92	114340	460948	276879
		89	95			474380	455827	509388

T22011839.D								
	2201H60-00	39	22	107	101	109587	446924	258471
		89	113			452373	387112	391429
T22011840.D								
	2201H91-00	35	21	105	102	95424	372887	204804
		97	93			340930	318755	241348
T22011841.D								
	2201H92-00	67	38	99	91	111321	461273	266726
		103	88			485457	420695	333566
T22011842.D								
	2201H93-00	38	22	94	85	131993	531028	304983
		88	94			540542	480471	359052
T22011843.D								
	2201H93-00	33	19	88	82	115250	480420	275072
		85	97			486526	442022	365986
T22011844.D								
	2201H94-00	26	16	97	89	135749	534014	307739
		73	77			534972	486042	448993
T22011845.D								
	2201I13-00	54	13	262*	1148*	97918	119250*	3672*
		7013*	75			451567	402933	379980

(fails) - fails 12hr time check * - fails criteria

Created: Wed Jan 19 15:07:17 2022 MS-14

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T220118\
Data File : T22011806.D
Acq On : 18 Jan 2022 12:06 pm
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 18 12:25:41 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Jan 18 11:26:23 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.353	152	116858	40.00	ng		0.00
23) Naphthalene-d8	...	5.947	136	459627	40.00	ng		0.00
45) Acenaphthene-d10	...	7.996	164	270129	40.00	ng		0.00
73) Phenanthrene-d10	...	9.661	188	468813	40.00	ng		-0.01
92) Chrysene-d12	...	12.602	240	441507	40.00	ng		-0.01
104) Perylene-d12	...	14.065	264	468018	40.00	ng		-0.02
System Monitoring Compounds								
5) 2-Fluorophenol	...	3.012	112	137271	37.09	ng		-0.03
Spiked Amount 100.000	Range 21 - 110		Recovery = 37.09%					
9) Phenol-d5	...	4.240	99	168711	38.86	ng		-0.04
Spiked Amount 100.000	Range 10 - 110		Recovery = 38.86%					
24) Nitrobenzene-d5	...	5.086	82	156494	42.97	ng		-0.01
Spiked Amount 50.000	Range 34 - 114		Recovery = 85.94%					
50) 2-Fluorobiphenyl	...	7.260	172	327832	39.75	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 79.50%					
72) 2,4,6-Tribromophenol	...	8.922	330	37153	35.81	ng		-0.01
Spiked Amount 100.000	Range 10 - 123		Recovery = 35.81%					
94) 4-Terphenyl-d14	...	11.468	244	422082	39.31	ng		-0.01
Spiked Amount 50.000	Range 33 - 141		Recovery = 78.62%					
Target Compounds								Qvalue
2) Pyridine	...	1.535	79	159056	34.25	ng		99
3) 2-Picoline	...	2.182	93	170205	37.84	ng		98
4) Methyl methanesulfonate	...	2.671	80	82290	47.54	ng		97
6) Ethyl methanesulfonate	...	3.458	79	124333	37.77	ng		95
7) Benzaldehyde	...	3.796	105	90436	44.89	ng		94
8) Aniline	...	3.992	66	86842	47.91	ng	#	90
10) Phenol	...	4.254	94	188965	40.63	ng		92
11) Bis(2-chloroethyl)ether	...	4.061	93	158950	42.82	ng		91
12) 2-Chlorophenol	...	4.200	128	158673	41.69	ng		97
13) 1,3-Dichlorobenzene	...	4.274	146	171345	38.14	ng		98
14) 1,4-Dichlorobenzene	...	4.376	146	171125	39.55	ng		98
15) 1,2-Dichlorobenzene	...	4.569	146	168704	39.28	ng		97
16) Benzyl alcohol	...	4.660	108	95020	39.67	ng		91
17) Bis(2-chloroisopropyl)ether	...	4.765	45	224197	47.02	ng		97
18) 2-Methylphenol	...	4.936	107	111544	38.85	ng	#	87
19) 3,4-Methylphenol	...	5.155	107	310710	84.09	ng		87
20) N-Nitrosodi-n-propylamine	...	4.930	70	109761	45.16	ng		95
21) N-Nitrosodimethylamine	...	1.529	74	89575	34.44	ng		91
22) Hexachloroethane	...	4.981	117	67801	45.43	ng		96
25) Acetophenone	...	4.907	105	425148	83.61	ng		98
26) Nitrobenzene	...	5.112	123	77532	41.52	ng		94
27) N-Nitrosopiperidine	...	5.294	114	76295	39.52	ng	#	85
28) Isophorone	...	5.419	82	314563	42.78	ng		96
29) 2-Nitrophenol	...	5.510	139	83694	42.01	ng		91
30) 2,4-Dimethylphenol	...	5.740	122	127541	36.75	ng		96
31) Bis(2-chloroethoxy)methane	...	5.734	93	186477	40.73	ng		95
32) 2,4-Dichlorophenol	...	5.930	162	120085	39.06	ng		99
33) 1,2,4-Trichlorobenzene	...	5.891	180	144610	38.76	ng		97
34) Naphthalene	...	5.970	128	447628	39.35	ng		100
35) Benzoic acid	...	6.109	122	6352	41.18	ng		89
36) 2,6-Dichlorophenol	...	6.141	162	120510	39.20	ng		97
37) 4-Chloroaniline	...	6.132	127	179764	42.56	ng		96
38) Hexachlorobutadiene	...	6.146	225	80616	40.74	ng		99
39) a,a-Dimethylphenethylamine	...	5.925	58	349376	38.91	ng		75
40) Caprolactam	...	6.524	113	52193	40.89	ng	#	5
41) 4-Chloro-3-methylphenol	...	6.877	107	128285	40.40	ng		95

Data Path : C:\msdchem\1\data\T220118\
Data File : T22011806.D
Acq On : 18 Jan 2022 12:06 pm
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 18 12:25:41 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Jan 18 11:26:23 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) N-Nitroso-di-n-butylamine	6.513	84	140047	57.02	ng		97
43) 2-Methylnaphthalene	6.805	141	268430	40.21	ng		97
44) 1-Methylnaphthalene	6.916	141	263896	40.22	ng		99
46) 1,2,4,5-Tetrachlorobenzene	7.004	216	135811	38.21	ng		98
47) Hexachlorocyclopentadiene	6.999	237	70048	38.67	ng		99
48) 2,4,6-Trichlorophenol	7.229	196	89253	39.25	ng		99
49) 2,4,5-Trichlorophenol	7.334	196	87108	36.52	ng	#	94
51) Biphenyl	7.362	154	356487	39.51	ng		99
52) 2-Chloronaphthalene	7.365	162	278588	39.21	ng		100
53) 1-Chloronaphthalene	7.385	162	256996	40.73	ng		99
54) 2-Nitroaniline	7.567	65	91717	47.30	ng		88
55) 3-Nitroaniline	8.056	138	75212	38.90	ng	#	92
56) Pentachlorobenzene	8.186	250	125259	38.97	ng		98
57) 4-Nitroaniline	8.758	138	85302	43.94	ng	#	85
58) 2-Naphthylamine	8.354	143	197981	30.05	ng		95
59) 1-Naphthylamine	8.448	143	177769	36.35	ng		93
60) Dimethyl phthalate	7.766	163	337990	41.19	ng		99
61) Acenaphthylene	7.831	152	434125	39.97	ng		100
62) 2,6-Dinitrotoluene	7.823	165	72382	43.52	ng	#	63
63) Acenaphthene	8.030	154	258217	38.56	ng		98
64) 2,4-Dinitrophenol	8.155	184	28493	53.53	ng		88
65) Dibenzofuran	8.235	168	406857	39.53	ng		97
66) 4-Nitrophenol	8.482	109	30067	33.58	ng	#	87
67) 2,4-Dinitrotoluene	8.277	165	100406	45.69	ng		90
68) 2,3,4,6-Tetrachlorophenol	8.454	232	52302	27.86	ng		96
69) Diethyl phthalate	8.564	149	331085	42.15	ng		98
70) Fluorene	8.618	166	336895	39.92	ng		99
71) 4-Chlorophenyl phenyl ether	8.647	204	155433	39.13	ng		97
74) 4,6-Dinitro-2-methylphenol	8.735	198	43462	38.99	ng		92
75) Azobenzene	8.820	77	339427	48.41	ng		89
76) 1,2-Diphenylhydrazine	8.820	182	75541	39.35	ng	#	44
77) Diphenylamine	8.806	170	53814	40.28	ng		96
78) N-Nitrosodiphenylamine	8.806	168	259429	40.62	ng		100
79) 4-Bromophenyl phenyl ether	9.187	248	98210	39.57	ng		94
80) Phenacetin	9.218	108	173154	49.43	ng		96
81) Hexachlorobenzene	9.232	284	100415	38.67	ng		94
82) Atrazine	9.445	200	91572	46.51	ng	#	91
83) 4-Aminobiphenyl	9.502	169	262379	41.14	ng		99
84) Pentachlorophenol	9.530	266	41750	26.82	ng		98
85) Pentachloronitrobenzene	9.482	237	41172	45.07	ng		94
86) Pronamide	9.613	173	109947	43.18	ng		99
87) Phenanthrene	9.687	178	471437	38.96	ng		99
88) Anthracene	9.744	178	473658	39.33	ng		100
89) Carbazole	9.988	167	447645	40.92	ng		99
90) Di-n-butyl phthalate	10.391	149	618395	46.72	ng		99
91) Fluoranthene	11.008	202	581956	40.93	ng		99
93) Pyrene	11.249	202	584950	39.91	ng		99
95) Benzidine	11.218	184	147248	34.95	ng		88
96) p-Dimethylaminoazobenzene	11.633	225	115610	41.86	ng	#	87
97) Butyl benzyl phthalate	12.045	149	279409	47.96	ng		96
98) Benz(a)anthracene	12.591	228	554451	40.17	ng		99
99) 3,3'-Dichlorobenzidine	12.611	252	190011	45.95	ng		98
100) Chrysene	12.630	228	501095	38.44	ng		100
101) Bis(2-ethylhexyl)phthalate	12.701	149	357824	44.94	ng		98
102) Di-n-octyl phthalate	13.381	149	658661	48.66	ng		96
103) 3-Methylcholanthrene	14.332	268	186707	40.72	ng		98
105) Benzo[b]fluoranthene	13.704	252	533847	36.69	ng		99
106) Benzo[k]fluoranthene	13.733	252	498734	41.68	ng		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T220118\
Data File : T22011806.D
Acq On : 18 Jan 2022 12:06 pm
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 18 12:25:41 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Jan 18 11:26:23 2022
Response via : Initial Calibration

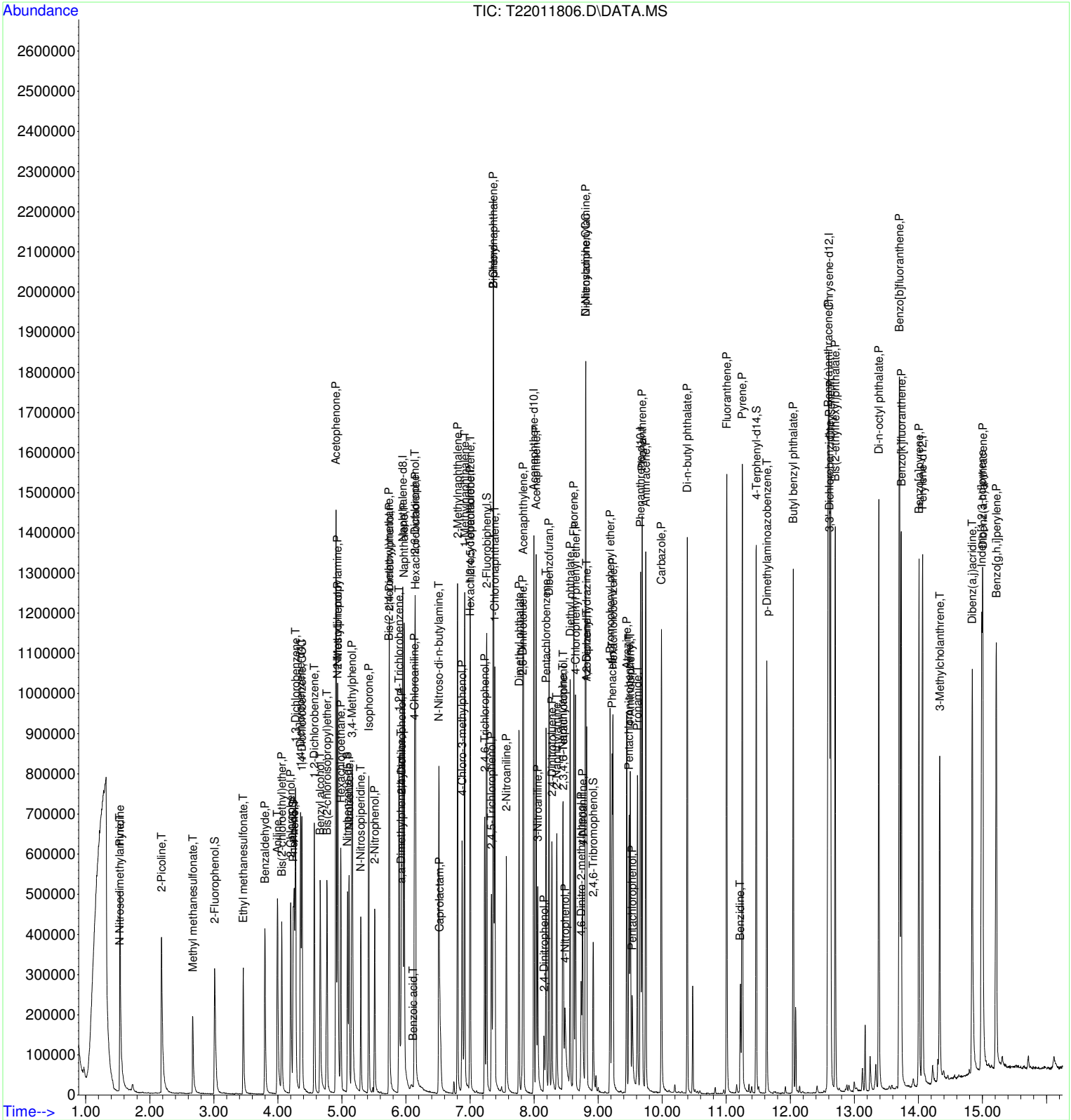
Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
107) Benzo[a]pyrene	...	14.009	252	485972	40.58	ng		100
108) Dibenz(a,j)acridine	...	14.841	279	439070	42.26	ng		99
109) Indeno[1,2,3-cd]pyrene	...	14.989	276	585398	42.70	ng	#	89
110) Dibenz(a,h)anthracene	...	15.006	278	479332	40.03	ng		98
111) Benzo[g,h,i]perylene	...	15.216	276	483782	39.18	ng		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T220118\
Data File : T22011806.D
Acq On : 18 Jan 2022 12:06 pm
Operator : YH
Sample : BNA40
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 18 12:25:41 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Jan 18 11:26:23 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T220118\
Data File : T22011810.D
Acq On : 18 Jan 2022 1:06 pm
Operator : YH
Sample : 2201A78-001B 20X
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 79 Sample Multiplier: 1

Quant Time: Jan 18 14:13:09 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Jan 18 11:26:23 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.354	152	114410	40.00	ng		0.00
23) Naphthalene-d8	...	5.945	136	480078	40.00	ng		-0.01
45) Acenaphthene-d10	...	7.993	164	281632	40.00	ng		-0.01
73) Phenanthrene-d10	...	9.659	188	503937	40.00	ng		-0.01
92) Chrysene-d12	...	12.597	240	464293	40.00	ng		-0.02
104) Perylene-d12	...	14.063	264	472183	40.00	ng		-0.02
System Monitoring Compounds								
5) 2-Fluorophenol	...	3.021	112	9425	2.60	ng		-0.03
Spiked Amount 100.000	Range 21 - 110		Recovery =	2.60%#				
9) Phenol-d5	...	4.231	99	9310	2.19	ng		-0.05
Spiked Amount 100.000	Range 10 - 110		Recovery =	2.19%#				
24) Nitrobenzene-d5	...	5.087	82	13331	3.50	ng		-0.01
Spiked Amount 50.000	Range 34 - 114		Recovery =	7.00%#				
50) 2-Fluorobiphenyl	...	7.257	172	28071	3.26	ng		-0.01
Spiked Amount 50.000	Range 43 - 116		Recovery =	6.52%#				
72) 2,4,6-Tribromophenol	...	8.920	330	46296	42.22	ng		-0.02
Spiked Amount 100.000	Range 10 - 123		Recovery =	42.22%				
94) 4-Terphenyl-d14	...	11.466	244	33163	2.94	ng		-0.01
Spiked Amount 50.000	Range 33 - 141		Recovery =	5.88%#				
Target Compounds					Qvalue			
2) Pyridine	...	0.000	79	0	N.D.			
3) 2-Picoline	...	0.000	93	0	N.D.			
4) Methyl methanesulfonate	...	0.000	80	0	N.D.			
6) Ethyl methanesulfonate	...	0.000	79	0	N.D. d			
7) Benzaldehyde	...	3.802	105	15226	7.72	ng	#	57
8) Aniline	...	0.000	66	0	N.D.			
10) Phenol	...	4.243	94	725169	159.26	ng		96
11) Bis(2-chloroethyl)ether	...	0.000	93	0	N.D. d			
12) 2-Chlorophenol	...	4.206	128	10693	2.87	ng		96
13) 1,3-Dichlorobenzene	...	0.000	146	0	N.D.			
14) 1,4-Dichlorobenzene	...	0.000	146	0	N.D.			
15) 1,2-Dichlorobenzene	...	0.000	146	0	N.D.			
16) Benzyl alcohol	...	0.000	108	0	N.D. d			
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0	N.D. d			
18) 2-Methylphenol	...	4.936	107	16180	5.76	ng	#	83
19) 3,4-Methylphenol	...	5.152	107	87952	24.31	ng	#	80
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.			
21) N-Nitrosodimethylamine	...	0.000	74	0	N.D.			
22) Hexachloroethane	...	0.000	117	0	N.D. d			
25) Acetophenone	...	4.905	105	43347	8.16	ng	#	89
26) Nitrobenzene	...	0.000	123	0	N.D.			
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.			
28) Isophorone	...	0.000	82	0	N.D. d			
29) 2-Nitrophenol	...	0.000	139	0	N.D. d			
30) 2,4-Dimethylphenol	...	5.746	122	3655	1.01	ng	#	69
31) Bis(2-chloroethoxy)methane	...	0.000	93	0	N.D.			
32) 2,4-Dichlorophenol	...	0.000	162	0	N.D.			
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.			
34) Naphthalene	...	5.967	128	37627	3.17	ng		97
35) Benzoic acid	...	6.050	122	55318	77.50	ng		95
36) 2,6-Dichlorophenol	...	0.000	162	0	N.D.			
37) 4-Chloroaniline	...	0.000	127	0	N.D. d			
38) Hexachlorobutadiene	...	0.000	225	0	N.D.			
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D. d			
40) Caprolactam	...	0.000	113	0	N.D.			
41) 4-Chloro-3-methylphenol	...	0.000	107	0	N.D. d			

Data Path : C:\msdchem\1\data\T220118\
Data File : T22011810.D
Acq On : 18 Jan 2022 1:06 pm
Operator : YH
Sample : 2201A78-001B 20X
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 79 Sample Multiplier: 1

Quant Time: Jan 18 14:13:09 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Jan 18 11:26:23 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) N-Nitroso-di-n-butylamine	...	0.000	84	0		N.D. d
43) 2-Methylnaphthalene	...	0.000	141	0		N.D. d
44) 1-Methylnaphthalene	...	0.000	141	0		N.D. d
46) 1,2,4,5-Tetrachlorobenzene	...	0.000	216	0		N.D. d
47) Hexachlorocyclopentadiene	...	0.000	237	0		N.D.
48) 2,4,6-Trichlorophenol	...	0.000	196	0		N.D.
49) 2,4,5-Trichlorophenol	...	0.000	196	0		N.D.
51) Biphenyl	...	0.000	154	0		N.D. d
52) 2-Chloronaphthalene	...	0.000	162	0		N.D.
53) 1-Chloronaphthalene	...	0.000	162	0		N.D.
54) 2-Nitroaniline	...	0.000	65	0		N.D. d
55) 3-Nitroaniline	...	0.000	138	0		N.D.
56) Pentachlorobenzene	...	0.000	250	0		N.D.
57) 4-Nitroaniline	...	0.000	138	0		N.D.
58) 2-Naphthylamine	...	0.000	143	0		N.D.
59) 1-Naphthylamine	...	0.000	143	0		N.D.
60) Dimethyl phthalate	...	0.000	163	0		N.D.
61) Acenaphthylene	...	0.000	152	0		N.D. d
62) 2,6-Dinitrotoluene	...	0.000	165	0		N.D.
63) Acenaphthene	...	0.000	154	0		N.D. d
64) 2,4-Dinitrophenol	...	0.000	184	0		N.D.
65) Dibenzofuran	...	0.000	168	0		N.D.
66) 4-Nitrophenol	...	0.000	109	0		N.D.
67) 2,4-Dinitrotoluene	...	0.000	165	0		N.D.
68) 2,3,4,6-Tetrachlorophenol	...	0.000	232	0		N.D.
69) Diethyl phthalate	...	0.000	149	0		N.D.
70) Fluorene	...	0.000	166	0		N.D.
71) 4-Chlorophenyl phenyl ether	...	0.000	204	0		N.D.
74) 4,6-Dinitro-2-methylphenol	...	0.000	198	0		N.D.
75) Azobenzene	...	0.000	77	0		N.D.
76) 1,2-Diphenylhydrazine	...	0.000	182	0		N.D.
77) Diphenylamine	...	0.000	170	0		N.D.
78) N-Nitrosodiphenylamine	...	0.000	168	0		N.D.
79) 4-Bromophenyl phenyl ether	...	0.000	248	0		N.D.
80) Phenacetin	...	0.000	108	0		N.D. d
81) Hexachlorobenzene	...	0.000	284	0		N.D.
82) Atrazine	...	0.000	200	0		N.D.
83) 4-Aminobiphenyl	...	0.000	169	0		N.D.
84) Pentachlorophenol	...	0.000	266	0		N.D.
85) Pentachloronitrobenzene	...	0.000	237	0		N.D.
86) Pronamide	...	0.000	173	0		N.D.
87) Phenanthrene	...	0.000	178	0		N.D. d
88) Anthracene	...	0.000	178	0		N.D. d
89) Carbazole	...	0.000	167	0		N.D.
90) Di-n-butyl phthalate	...	0.000	149	0		N.D.
91) Fluoranthene	...	0.000	202	0		N.D.
93) Pyrene	...	0.000	202	0		N.D.
95) Benzidine	...	0.000	184	0		N.D.
96) p-Dimethylaminoazobenzene	...	0.000	225	0		N.D.
97) Butyl benzyl phthalate	...	0.000	149	0		N.D.
98) Benz(a)anthracene	...	0.000	228	0		N.D.
99) 3,3'-Dichlorobenzidine	...	0.000	252	0		N.D.
100) Chrysene	...	0.000	228	0		N.D.
101) Bis(2-ethylhexyl)phthalate	...	0.000	149	0		N.D. d
102) Di-n-octyl phthalate	...	0.000	149	0		N.D.
103) 3-Methylcholanthrene	...	0.000	268	0		N.D.
105) Benzo[b]fluoranthene	...	0.000	252	0		N.D.
106) Benzo[k]fluoranthene	...	0.000	252	0		N.D.

Data Path : C:\msdchem\1\data\T220118\
Data File : T22011810.D
Acq On : 18 Jan 2022 1:06 pm
Operator : YH
Sample : 2201A78-001B 20X
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 79 Sample Multiplier: 1

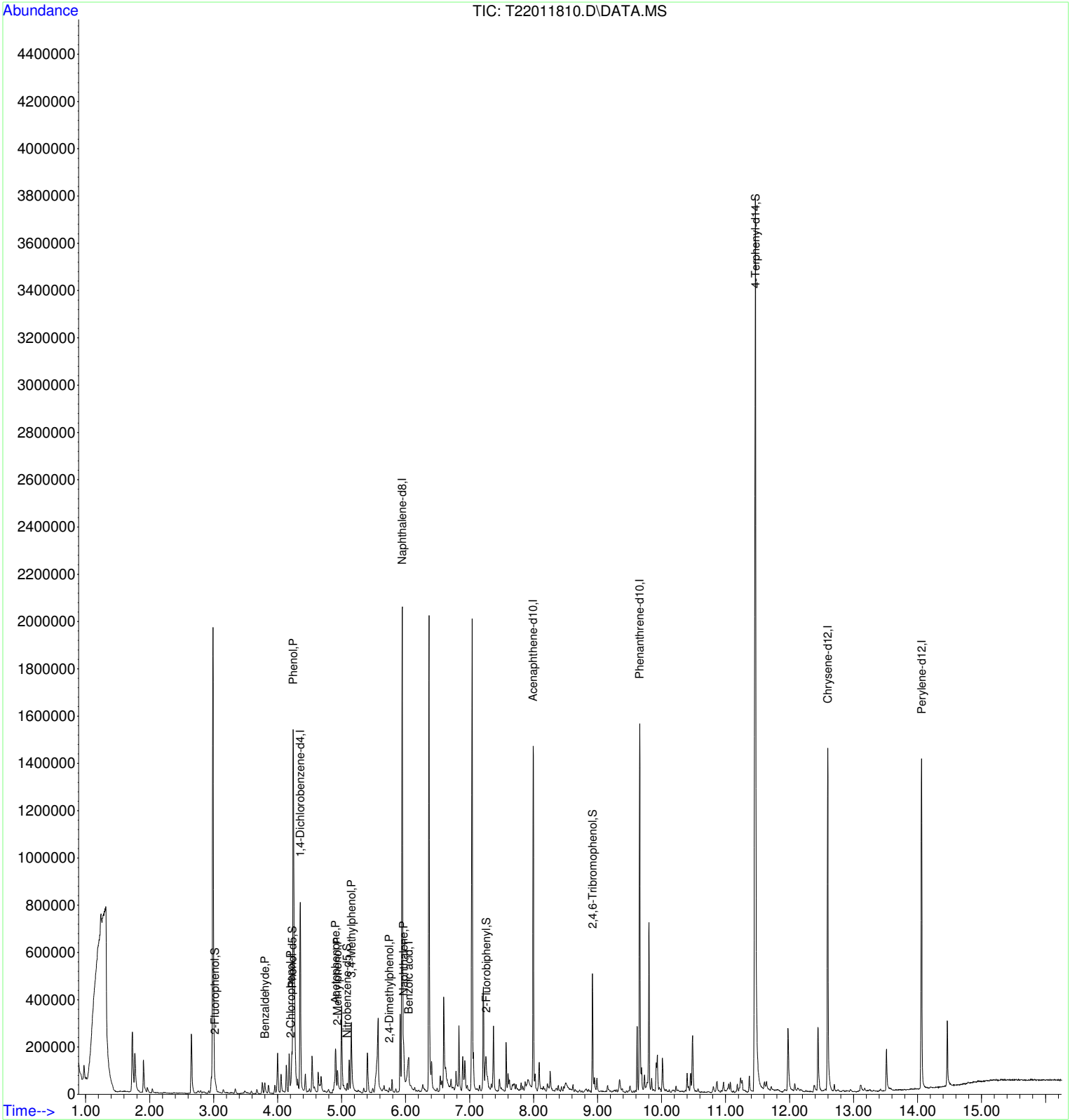
Quant Time: Jan 18 14:13:09 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Jan 18 11:26:23 2022
Response via : Initial Calibration

Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
107) Benzo[a]pyrene	...	0.000	252	0			N.D.
108) Dibenz(a,j)acridine	...	0.000	279	0			N.D.
109) Indeno[1,2,3-cd]pyrene	...	0.000	276	0			N.D.
110) Dibenz(a,h)anthracene	...	0.000	278	0			N.D.
111) Benzo[g,h,i]perylene	...	0.000	276	0			N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\T220118\
Data File : T22011810.D
Acq On : 18 Jan 2022 1:06 pm
Operator : YH
Sample : 2201A78-001B 20X
Misc : SAMP 8270_TCL4.2_W
ALS Vial : 79 Sample Multiplier: 1

Quant Time: Jan 18 14:13:09 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Jan 18 11:26:23 2022
Response via : Initial Calibration



Injection Log

Directory: C:\msdchem\1\DATA\R210422

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	R1042201.D	1.	DFTPP	TUNE DFTPP_4	22 Apr 2021 08:53
2	4	R1042203.D	1.	SIM2	CCV 8270_SIM_PAH_SC_S	22 Apr 2021 09:19
3	1	R1042205.D	1.	DFTPP	TUNE DFTPP_4	22 Apr 2021 09:46
4	8	R1042210.D	1.	bna10 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 10:12
5	9	R1042211.D	1.	bna20 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 10:40
6	10	R1042212.D	1.	bna40 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 11:08
7	11	R1042213.D	1.	bna60 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 11:35
8	12	R1042214.D	1.	bna80 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 12:56
9	13	R1042215.D	1.	bna120 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 12:02
10	14	R1042216.D	1.	bna160 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 12:29
11	13	R1042217.D	1.	bna120 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 13:22
12	14	R1042218.D	1.	bna160 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 13:51
13	15	R1042219.D	1.	bna5 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 14:18
14	16	R1042221.D	1.	BNA 80 973-90/	ICV 8270_TCL4.2_W	22 Apr 2021 14:46
15	17	R1042222.D	1.	BNA 40 973-90/	ICV 8270_TCL4.2_W	22 Apr 2021 15:13
16	16	R1042223.D	1.	BNA 80 973-90/	ICV 8270_TCL4.2_W	22 Apr 2021 15:40
17	4	R1042230.D	1.	SIM3.5	CCV 8270_SIM_PAH_S	22 Apr 2021 16:07
18	10	R1042231.D	1.	bna40 973-73/	ICAL 8270_TCL4.2_W	22 Apr 2021 16:35
19	18	R1042235.D	1.	MB-313930	MBLK 8270_SIM_PAH_SC_W	22 Apr 2021 17:08
20	19	R1042236.D	1.	LCS-313930	LCS 8270_SIM_PAH_SC_W	22 Apr 2021 17:35
21	20	R1042237.D	1.	LCSD-313930	LCSD 8270_SIM_PAH_SC_W	22 Apr 2021 18:02
22	21	R1042238.D	1.	2104K29-001D	SAMP 8270_SIM_PAH_SC_W	22 Apr 2021 18:54
23	22	R1042239.D	1.	2104K29-002D	SAMP 8270_SIM_PAH_SC_W	22 Apr 2021 19:20
24	23	R1042240.D	1.	2104K29-003D	SAMP 8270_SIM_PAH_SC_W	22 Apr 2021 19:47
25	24	R1042241.D	1.	2104K29-004D	SAMP 8270_SIM_PAH_SC_W	22 Apr 2021 20:13
26	25	R1042242.D	1.	2104M08-001B	SAMP 8270_SIM_PAH_SC_W	22 Apr 2021 20:40
27	26	R1042243.D	1.	2104M08-002B	SAMP 8270_SIM_PAH_SC_W	22 Apr 2021 21:05
28	18	R1042290.D	1.	MB-313930	MBLK 8270_SIM_PAH_SC_W	22 Apr 2021 18:28

Calibration Status Report Instrument #10

Method Path : C:\msdchem\1\METHODS\
Method File : B042221.M
Title : MS-10 BNA CURVE 8270E/625
Last Update : Fri Apr 23 14:54:46 2021
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	160	160	40	C:\msdchem\1\DATA\R210422\R1042218.D
2	60	60	40	C:\msdchem\1\DATA\R210422\R1042213.D
3	40	40	40	C:\msdchem\1\DATA\R210422\R1042212.D
4	120	120	40	C:\msdchem\1\DATA\R210422\R1042217.D
5	80	80	40	C:\msdchem\1\DATA\R210422\R1042214.D
6	10	10	40	C:\msdchem\1\DATA\R210422\R1042210.D
7	20	20	40	C:\msdchem\1\DATA\R210422\R1042211.D
8	5	-1	40	C:\msdchem\1\DATA\R210422\R1042219.D

#	ID	Update Time	Quant Time	Acquisition Time
1	160	Apr 23 14:52 2021	Apr 23 14:51 2021	22 Apr 2021 1:51 pm
2	60	Apr 23 14:43 2021	Apr 23 14:42 2021	22 Apr 2021 11:35 am
3	40	Apr 23 14:41 2021	Apr 23 14:39 2021	22 Apr 2021 11:08 am
4	120	Apr 23 14:49 2021	Apr 23 14:48 2021	22 Apr 2021 1:22 pm
5	80	Apr 23 14:46 2021	Apr 23 14:45 2021	22 Apr 2021 12:56 pm
6	10	Apr 22 14:34 2021	Apr 22 14:27 2021	22 Apr 2021 10:12 am
7	20	Apr 23 14:39 2021	Apr 23 14:37 2021	22 Apr 2021 10:40 am
8	5	Apr 23 14:54 2021	Apr 23 14:54 2021	22 Apr 2021 2:18 pm

B042221.M Fri Apr 23 14:56:27 2021

Area Percent Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042205.D
Acq On : 22 Apr 2021 9:46 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\DFTPP.M
Title :

Signal : TIC: R1042205.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.735	119	121	137	rVB2	37278	59313	1.51%	0.485%
2	4.027	544	550	555	rBV	57359	52100	1.33%	0.426%
3	5.522	823	830	838	rVB	50608	39246	1.00%	0.321%
4	9.470	1560	1569	1581	rBV	2487810	2120310	54.16%	17.331%
5	10.095	1678	1686	1693	rVB	2689925	2349016	60.00%	19.201%
6	11.201	1884	1893	1916	rBV	3330958	3915061	100.00%	32.001%
7	12.125	2060	2066	2073	rBV	3842195	3699064	94.48%	30.236%

Sum of corrected areas: 12234110

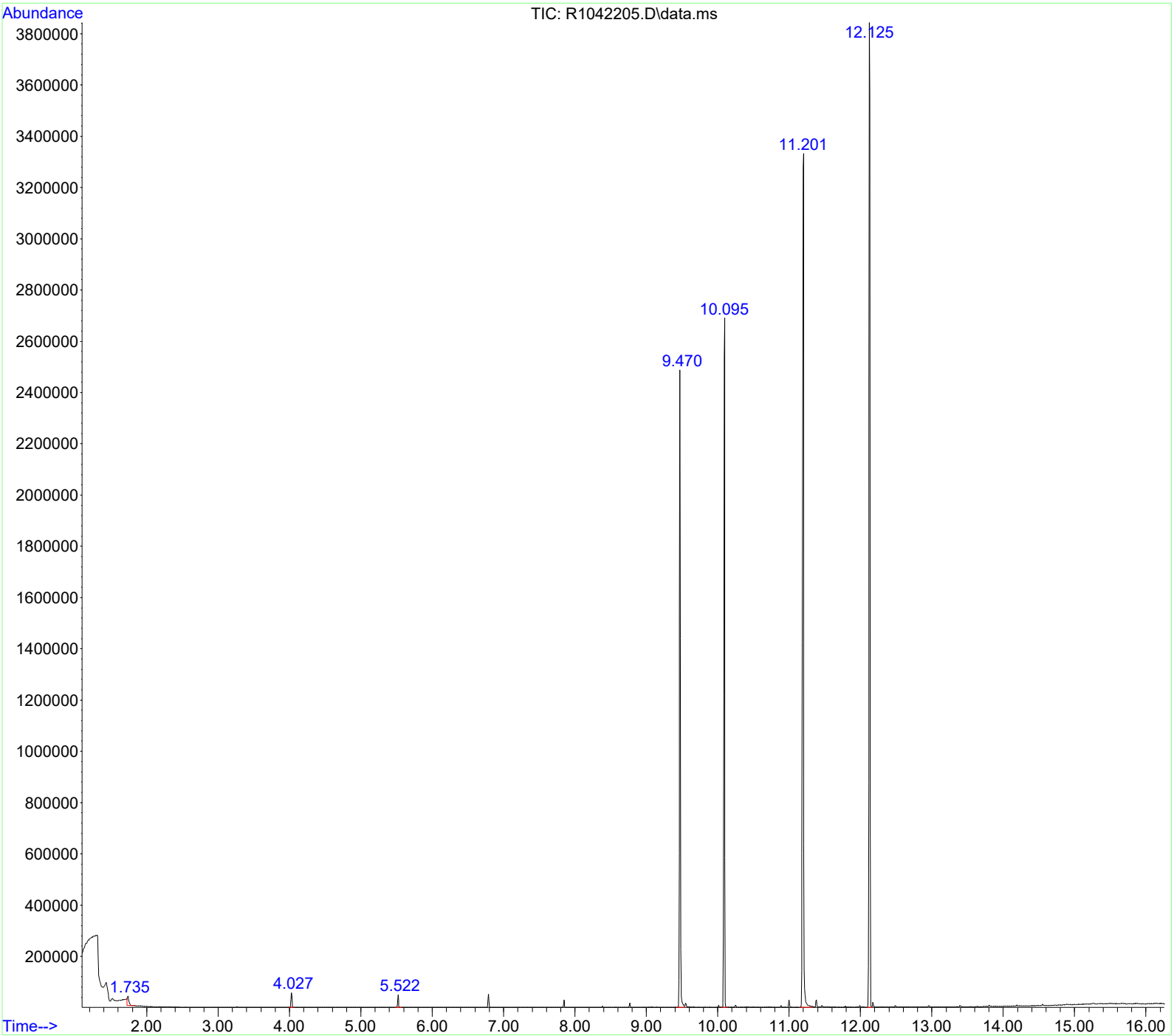
Area Percent Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042205.D
Acq On : 22 Apr 2021 9:46 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\DFTPP.M
Title :



Library Search Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042205.D
Acq On : 22 Apr 2021 9:46 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: C:\Database\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Events: RTE Integrator - RTEINT.P

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.735	0.48	C:\Database\NIST14.L			
			Methylene chloride	1541	000075-09-2	87
			Methylene chloride	1542	000075-09-2	87
			Methylene chloride	1544	000075-09-2	80
2	4.027	0.43	C:\Database\NIST14.L			
			Cyclotetrasiloxane, octamethyl-	155950	000556-67-2	91
			Cyclotetrasiloxane, octamethyl-	155949	000556-67-2	78
			Cyclotetrasiloxane, octamethyl-	155951	000556-67-2	78
3	5.522	0.32	C:\Database\NIST14.L			
			Cyclopentasiloxane, decamethyl-	220036	000541-02-6	72
			3-Amino-2-phenazinol ditms	209406	1000332-15-5	43
			N-(Trifluoroacetyl)-N,O,O',O''-tetrakis(trimethylsilyl)norepinephrin	271041	1000072-26-7	38
4	9.470	17.33	C:\Database\NIST14.L			
			Phenol, pentachloro-	125064	000087-86-5	99
			Phenol, pentachloro-	125062	000087-86-5	99
			Phenol, pentachloro-	125063	000087-86-5	89
5	10.095	19.20	C:\Database\NIST14.L			
			Bis(pentafluorophenyl)phenyl phosphine	254406	005074-71-5	99
			Bis(pentafluorophenyl)phenyl phosphine	254407	005074-71-5	99
			3,4-Diphenyl(1H)anthra[1,2-d]-1,3-diazepine-2(3H),8,13-trione	254710	1000110-45-8	10
6	11.201	32.00	C:\Database\NIST14.L			
			Benzidine	51188	000092-87-5	96
			Benzidine	51192	000092-87-5	96
			Benzidine	51191	000092-87-5	94
7	12.125	30.24	C:\Database\NIST14.L			
			1,1-Dichloro-2,2-bis(p-chlorophenyl)ethane	176322	000072-54-8	97
			p,p'-DDT	206681	000050-29-3	94
			o,p'-DDT	206676	000789-02-6	94

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042205.D
Acq On : 22 Apr 2021 9:46 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\DFTPP.M
Title :
Last Update : Mon Oct 15 09:26:34 1990

Spectrum Information: Scan 1685

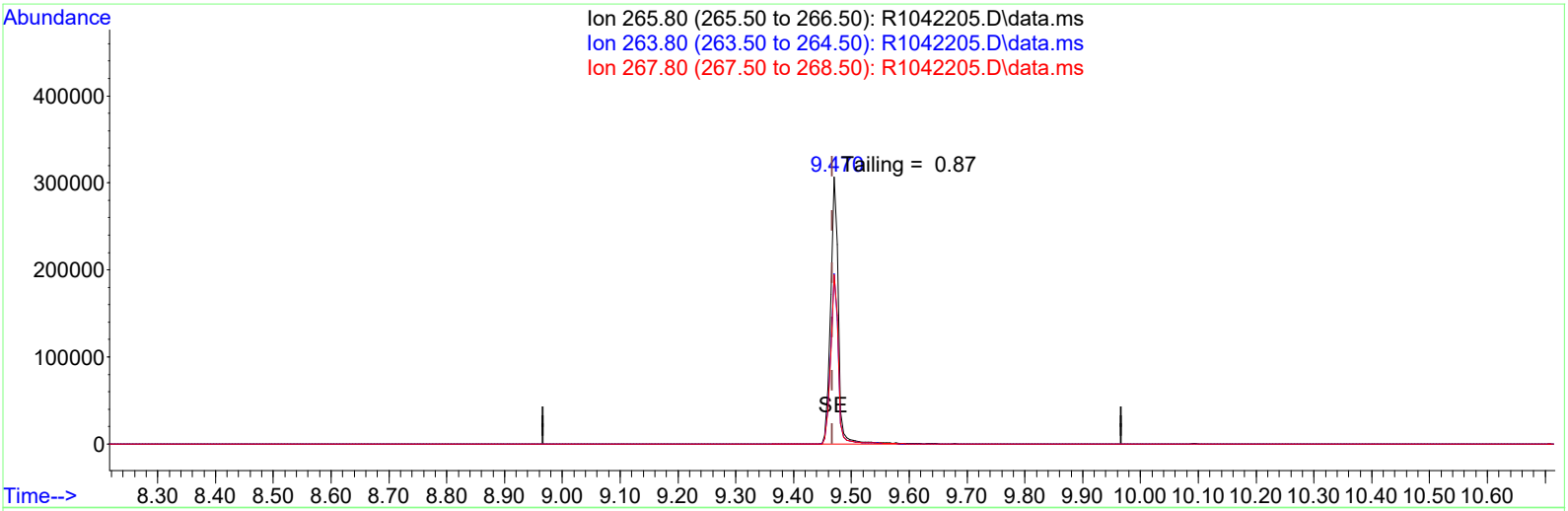
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	30.9	98240	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	35.1	111592	PASS
70	69	0.00	2	0.6	643	PASS
127	198	40	60	49.0	155648	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	317888	PASS
199	198	5	9	7.1	22512	PASS
275	198	10	30	23.7	75280	PASS
365	198	1	100	2.6	8322	PASS
441	443	0.01	100	72.0	29472	PASS
442	198	40	100	63.4	201536	PASS
443	442	17	23	20.3	40952	PASS

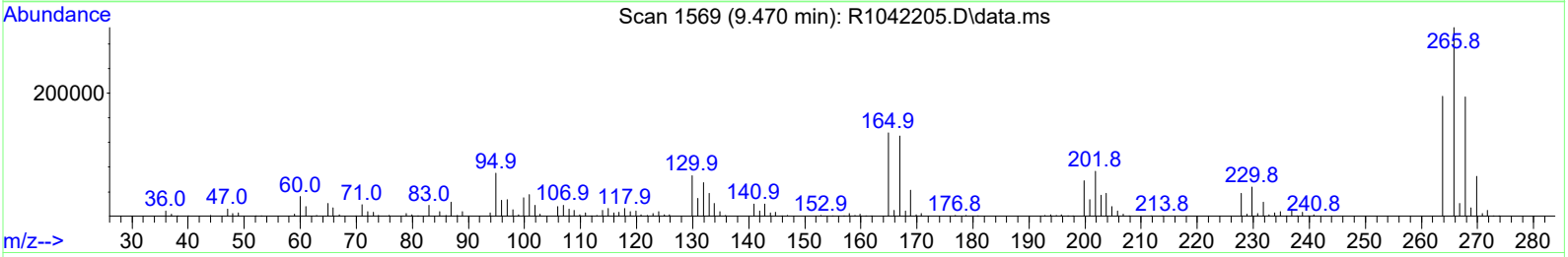
DFTPP.M Mon Apr 26 10:35:57 2021

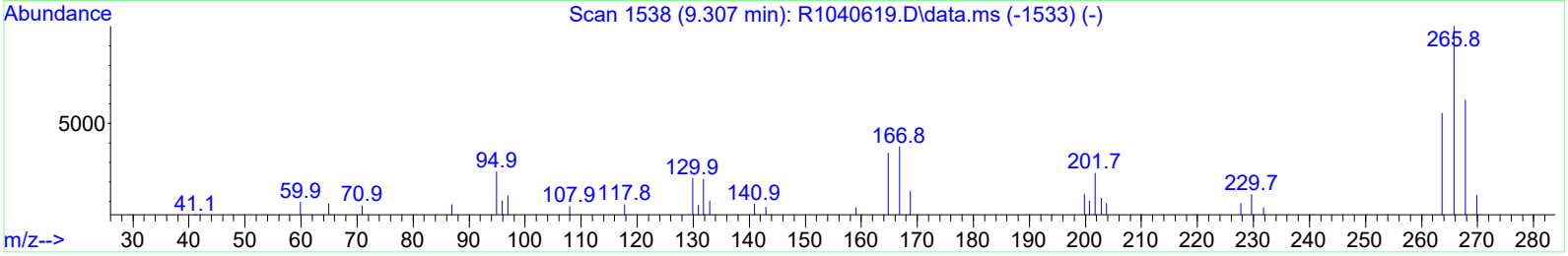
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042205.D
Acq On : 22 Apr 2021 9:46 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 26 10:33:40 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration







TIC: R1042205.D\data.ms

(84) Pentachlorophenol (CCC)

9.470min (+0.003) 81436.72 ng

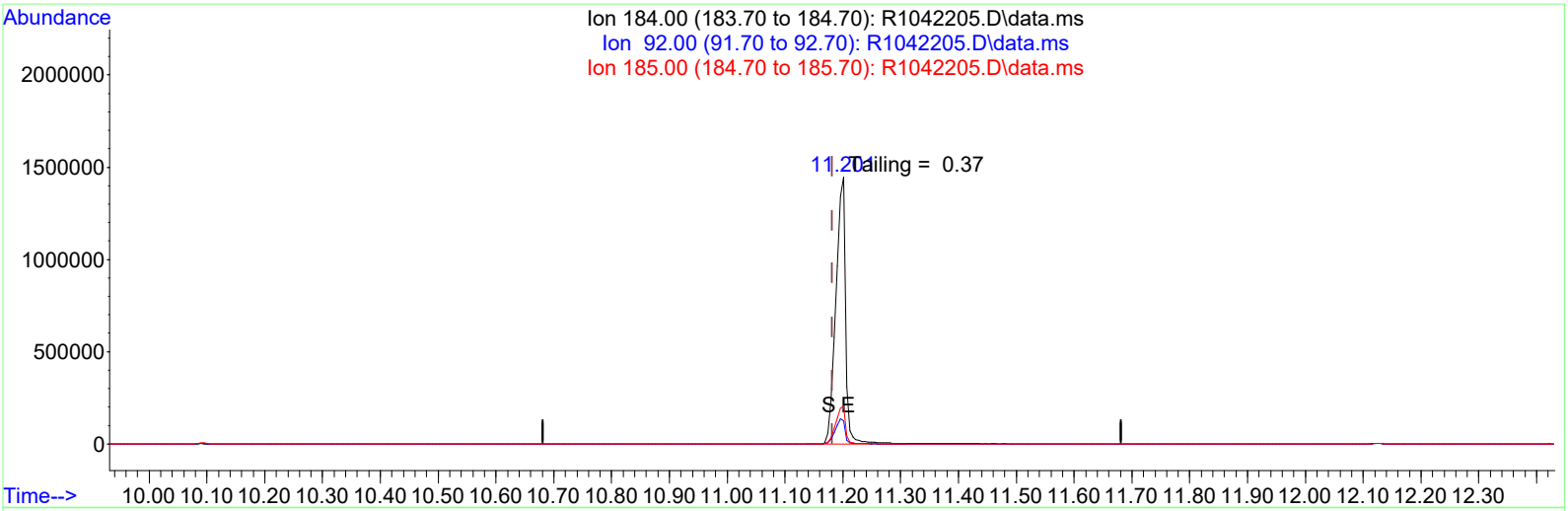
response 278475

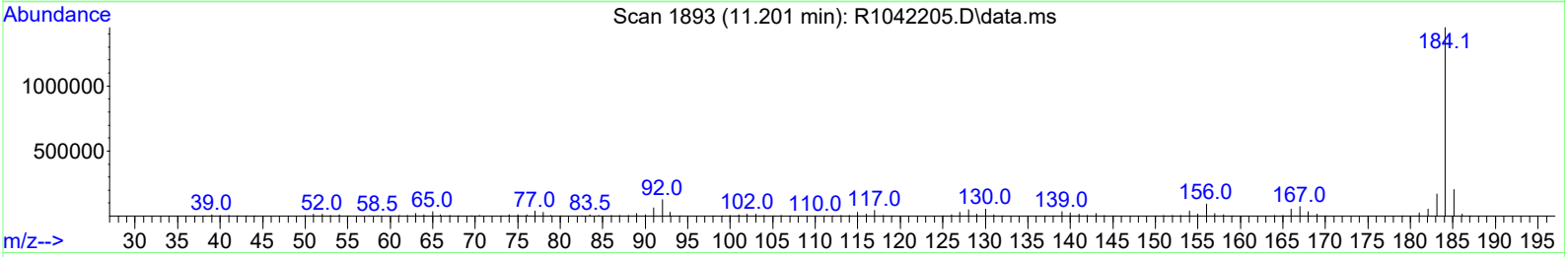
Ion	Exp%	Act%
265.80	100	100
263.80	63.40	63.56
267.80	64.10	63.42
0.00	0.00	0.00

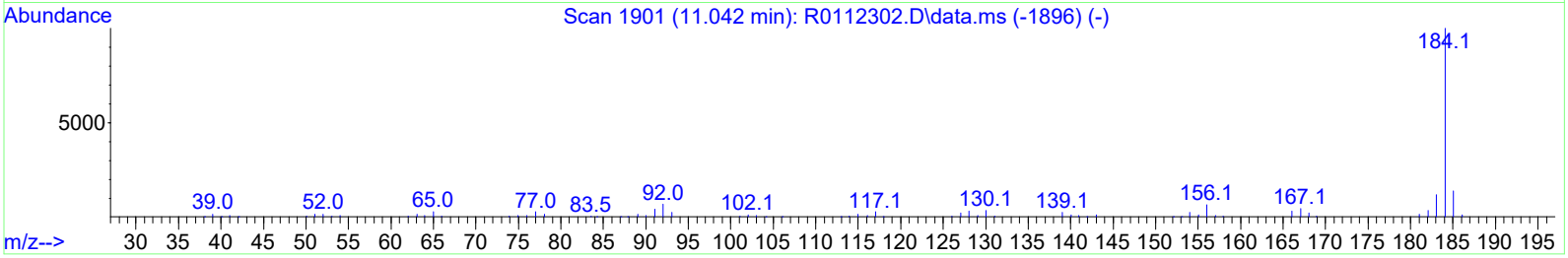
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042205.D
Acq On : 22 Apr 2021 9:46 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 26 10:33:40 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration







TIC: R1042205.D\data.ms

(95) Benzidine (T)

11.201min (+0.019) 0.00 ng

response 1668426

Ion	Exp%	Act%
184.00	100	100
92.00	9.00	9.59
185.00	14.80	14.27
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	97	0.00
2		Pyridine	40.000	37.780	5.5	88	-0.01
3	T	2-Picoline	40.000	24.180	39.6#	57	-0.02
4	T	Methyl methanesulfonate	40.000	21.989	45.0#	53	0.00
5	S	2-Fluorophenol	40.000	39.111	2.2	94	0.00
6	T	Ethyl methanesulfonate	40.000	35.759	10.6	86	0.00
7	C	Benzaldehyde	40.000	46.994	-17.5#	111	0.00
8	T	Aniline	40.000	36.091	9.8	88	0.00
9	S	Phenol-d5	40.000	38.973	2.6	93	0.00
10	C	Phenol	40.000	37.289	6.8#	89	0.00
11	T	Bis(2-chloroethyl)ether	40.000	39.387	1.5	93	0.00
12	T	2-Chlorophenol	40.000	38.006	5.0	92	0.00
13	T	1,3-Dichlorobenzene	40.000	37.929	5.2	90	0.00
14	CCC	1,4-Dichlorobenzene	40.000	38.661	3.3	93	0.00
15	T	1,2-Dichlorobenzene	40.000	38.159	4.6	90	0.00
16	T	Benzyl alcohol	40.000	38.066	4.8	91	0.00
17	T	Bis(2-chloroisopropyl)ether	40.000	33.249	16.9	77	0.00
18	T	2-Methylphenol	40.000	39.160	2.1	93	0.00
19	T	3,4-Methylphenol	80.000	86.193	-7.7	102	0.01
20	PC	N-Nitrosodi-n-propylamine	40.000	36.771	8.1	87	0.00
21	T	N-Nitrosodimethylamine	40.000	38.557	3.6	90	0.00
22	T	Hexachloroethane	40.000	38.493	3.8	92	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	99	0.00
24	S	Nitrobenzene-d5	40.000	38.888	2.8	95	0.00
25	T	Acetophenone	80.000	40.413	49.5#	49	0.00
26	M	Nitrobenzene	40.000	39.024	2.4	95	0.00
27	T	N-Nitrosopiperidine	40.000	39.381	1.5	97	0.00
28	T	Isophorone	40.000	38.085	4.8	92	0.00
29	CCC	2-Nitrophenol	40.000	40.289	-0.7	101	0.00
30	T	2,4-Dimethylphenol	40.000	38.084	4.8	92	0.00
31	T	Bis(2-chloroethoxy)methane	40.000	38.904	2.7	93	0.00
32	CCC	2,4-Dichlorophenol	40.000	39.461	1.3	95	0.00
33	T	1,2,4-Trichlorobenzene	40.000	38.857	2.9	94	0.00
34	T	Naphthalene	40.000	40.003	-0.0	96	0.00
35	T	Benzoic acid	40.000	45.106	-12.8	139	0.02
36	T	2,6-Dichlorophenol	40.000	38.607	3.5	94	0.00
37	T	4-Chloroaniline	40.000	38.429	3.9	92	0.00
38	CCC	Hexachlorobutadiene	40.000	37.892	5.3	91	0.00
39	T	a,a-Dimethylphenethylamine	40.000	37.625	5.9	91	0.03
40		Caprolactam	40.000	47.300	-18.2	116	0.06
41	CCC	4-Chloro-3-methylphenol	40.000	38.389	4.0	94	0.00
42	T	N-Nitroso-di-n-butylamine	40.000	46.249	-15.6	98	0.00
43	T	2-Methylnaphthalene	40.000	38.325	4.2	92	0.00
44	T	1-Methylnaphthalene	40.000	39.172	2.1	94	0.00
45	I	Acenaphthene-d10	40.000	40.000	0.0	100	0.00
46	T	1,2,4,5-Tetrachlorobenzene	40.000	38.612	3.5	94	0.00
47	PC	Hexachlorocyclopentadiene	40.000	30.344	24.1	75	0.00
48	CCC	2,4,6-Trichlorophenol	40.000	38.097	4.8	96	0.00
49	T	2,4,5-Trichlorophenol	40.000	38.587	3.5	95	0.00
50	S	2-Fluorobiphenyl	40.000	39.499	1.3	96	0.00
51		Biphenyl	40.000	45.221	-13.1	107	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	2-Chloronaphthalene	40.000	44.429	-11.1	111	0.00
53	T	1-Chloronaphthalene	40.000	32.728	18.2	76	0.00
54	T	2-Nitroaniline	40.000	39.278	1.8	98	0.00
55	T	3-Nitroaniline	40.000	38.822	2.9	98	0.00
56	T	Pentachlorobenzene	40.000	39.857	0.4	99	0.00
57	T	4-Nitroaniline	40.000	40.024	-0.1	100	0.01
58	T	2-Naphthylamine	40.000	34.981	12.5	85	0.00
59	T	1-Naphthylamine	40.000	33.197	17.0	81	0.00
60	T	Dimethyl phthalate	40.000	38.854	2.9	96	0.00
61	T	Acenaphthylene	40.000	38.643	3.4	93	0.00
62	T	2,6-Dinitrotoluene	40.000	40.017	-0.0	102	0.00
63	CCC	Acenaphthene	40.000	40.216	-0.5	98	0.00
64	PC	2,4-Dinitrophenol	40.000	39.299	1.8	100	0.00
65	T	Dibenzofuran	40.000	39.689	0.8	96	0.00
66	PC	4-Nitrophenol	40.000	38.045	4.9	98	0.00
67	M	2,4-Dinitrotoluene	40.000	38.632	3.4	98	0.00
68	T	2,3,4,6-Tetrachlorophenol	40.000	39.378	1.6	100	0.00
69	T	Diethyl phthalate	40.000	39.009	2.5	96	0.00
70	T	Fluorene	40.000	38.148	4.6	93	0.00
71	T	4-Chlorophenyl phenyl ether	40.000	38.820	2.9	97	0.00
72	S	2,4,6-Tribromophenol	40.000	38.812	3.0	99	0.00
73	I	Phenanthrene-d10	40.000	40.000	0.0	100	0.00
74	T	4,6-Dinitro-2-methylphenol	40.000	36.528	8.7	97	0.01
75	T	Azobenzene	40.000	41.950	-4.9	103	0.00
76	T	1,2-Diphenylhydrazine	40.000	42.296	-5.7	104	0.00
77	CCC	Diphenylamine	40.000	45.392	-13.5	110	0.00
78	T	N-Nitrosodiphenylamine	40.000	45.366	-13.4	110	0.00
79	T	4-Bromophenyl phenyl ether	40.000	38.574	3.6	96	0.00
80	T	Phenacetin	40.000	40.869	-2.2	99	0.01
81	T	Hexachlorobenzene	40.000	37.989	5.0	95	0.00
82		Atrazine	40.000	47.890	-19.7	117	0.01
83	T	4-Aminobiphenyl	40.000	37.691	5.8	90	0.00
84	CCC	Pentachlorophenol	40.000	35.188	12.0	90	0.00
85	T	Pentachloronitrobenzene	40.000	40.689	-1.7	100	0.00
86	T	Pronamide	40.000	44.314	-10.8	108	0.00
87	T	Phenanthrene	40.000	39.102	2.2	95	0.00
88	T	Anthracene	40.000	34.871	12.8	84	0.00
89	T	Carbazole	40.000	47.891	-19.7	116	0.00
90	T	Di-n-butyl phthalate	40.000	38.635	3.4	93	0.00
91	CCC	Fluoranthene	40.000	39.364	1.6	96	0.00
92	I	Chrysene-d12	40.000	40.000	0.0	102	0.00
93	T	Pyrene	40.000	38.772	3.1	98	0.00
94	S	4-Terphenyl-d14	40.000	38.926	2.7	99	0.00
95	T	Benzidine	40.000	35.887	10.3	85	0.00
96	T	p-Dimethylaminoazobenzene	40.000	38.306	4.2	98	0.00
97	T	Butyl benzyl phthalate	40.000	37.511	6.2	97	0.00
98	T	Benz(a)anthracene	40.000	37.884	5.3	96	0.00
99	T	3,3'-Dichlorobenzidine	40.000	38.495	3.8	93	0.00
100	T	Chrysene	40.000	37.498	6.3	95	0.00
101	T	Bis(2-ethylhexyl)phthalate	40.000	39.531	1.2	98	0.00
102	CCC	Di-n-octyl phthalate	40.000	37.085	7.3	96	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	40.000	50.012	-25.0#	131	0.00
104	T	Indeno[1,2,3-cd]pyrene	40.000	37.176	7.1	96	0.00
105	I	Perylene-d12	40.000	40.000	0.0	116	0.00
106	T	Benzo[b]fluoranthene	40.000	33.687	15.8	98	0.00
107	T	Benzo[k]fluoranthene	40.000	36.205	9.5	97	0.00
108	CCC	Benzo[a]pyrene	40.000	33.860	15.4	98	0.00
109	T	Dibenz(a,j)acridine	40.000	31.123	22.2#	91	0.00
110	T	Dibenz(a,h)anthracene	40.000	34.025	14.9	97	0.00
111	T	Benzo[g,h,i]perylene	40.000	34.519	13.7	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 2

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
2		Pyridine	1.534	1.449	5.5	88	-0.01
3	T	2-Picoline	1.557	0.941	39.6#	57	-0.02
4	T	Methyl methanesulfonate	0.651	0.358	45.0#	53	0.00
5	S	2-Fluorophenol	1.248	1.220	2.2	94	0.00
6	T	Ethyl methanesulfonate	1.016	0.908	10.6	86	0.00
7	C	Benzaldehyde	0.809	0.951	-17.6#	111	0.00
8	T	Aniline	0.769	0.693	9.9	88	0.00
9	S	Phenol-d5	1.515	1.476	2.6	93	0.00
10	C	Phenol	1.838	1.714	6.7#	89	0.00
11	T	Bis(2-chloroethyl)ether	1.304	1.284	1.5	93	0.00
12	T	2-Chlorophenol	1.407	1.337	5.0	92	0.00
13	T	1,3-Dichlorobenzene	1.605	1.522	5.2	90	0.00
14	CCC	1,4-Dichlorobenzene	1.623	1.568	3.4	93	0.00
15	T	1,2-Dichlorobenzene	1.512	1.442	4.6	90	0.00
16	T	Benzyl alcohol	0.904	0.860	4.9	91	0.00
17	T	Bis(2-chloroisopropyl)ether	1.364	1.133	16.9	77	0.00
18	T	2-Methylphenol	1.058	1.036	2.1	93	0.00
19	T	3,4-Methylphenol	1.376	1.482	-7.7	102	0.01
20	PC	N-Nitrosodi-n-propylamine	0.868	0.798	8.1	87	0.00
21	T	N-Nitrosodimethylamine	0.471	0.454	3.6	90	0.00
22	T	Hexachloroethane	0.572	0.551	3.7	92	0.00
23	I	Naphthalene-d8	1.000	1.000	0.0	99	0.00
24	S	Nitrobenzene-d5	0.310	0.301	2.9	95	0.00
25	T	Acetophenone	0.454	0.229	49.6#	49#	0.00
26	M	Nitrobenzene	0.175	0.171	2.3	95	0.00
27	T	N-Nitrosopiperidine	0.173	0.170	1.7	97	0.00
28	T	Isophorone	0.639	0.608	4.9	92	0.00
29	CCC	2-Nitrophenol	0.168	0.169	-0.6	101	0.00
30	T	2,4-Dimethylphenol	0.310	0.295	4.8	92	0.00
31	T	Bis(2-chloroethoxy)methane	0.402	0.391	2.7	93	0.00
32	CCC	2,4-Dichlorophenol	0.297	0.293	1.3	95	0.00
33	T	1,2,4-Trichlorobenzene	0.335	0.325	3.0	94	0.00
34	T	Naphthalene	1.048	1.048	0.0	96	0.00
35	T	Benzoic acid	0.060	0.026	56.7#	139	0.02
36	T	2,6-Dichlorophenol	0.289	0.279	3.5	94	0.00
37	T	4-Chloroaniline	0.440	0.423	3.9	92	0.00
38	CCC	Hexachlorobutadiene	0.191	0.181	5.2	91	0.00
39	T	a,a-Dimethylphenethylamine	0.802	0.754	6.0	91	0.03
40		Caprolactam	0.113	0.133	-17.7	116	0.06
41	CCC	4-Chloro-3-methylphenol	0.283	0.272	3.9	94	0.00
42	T	N-Nitroso-di-n-butylamine	0.250	0.289	-15.6	98	0.00
43	T	2-Methylnaphthalene	0.607	0.582	4.1	92	0.00
44	T	1-Methylnaphthalene	0.597	0.584	2.2	94	0.00
45	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
46	T	1,2,4,5-Tetrachlorobenzene	0.553	0.534	3.4	94	0.00
47	PC	Hexachlorocyclopentadiene	0.305	0.231	24.3	75	0.00
48	CCC	2,4,6-Trichlorophenol	0.356	0.339	4.8	96	0.00
49	T	2,4,5-Trichlorophenol	0.399	0.385	3.5	95	0.00
50	S	2-Fluorobiphenyl	1.292	1.276	1.2	96	0.00
51		Biphenyl	1.390	1.571	-13.0	107	0.00

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	T	2-Chloronaphthalene	1.166	1.295	-11.1	111	0.00
53	T	1-Chloronaphthalene	1.054	0.862	18.2	76	0.00
54	T	2-Nitroaniline	0.274	0.269	1.8	98	0.00
55	T	3-Nitroaniline	0.324	0.314	3.1	98	0.00
56	T	Pentachlorobenzene	0.488	0.486	0.4	99	0.00
57	T	4-Nitroaniline	0.336	0.336	0.0	100	0.01
58	T	2-Naphthylamine	1.172	1.025	12.5	85	0.00
59	T	1-Naphthylamine	1.253	1.040	17.0	81	0.00
60	T	Dimethyl phthalate	1.263	1.227	2.9	96	0.00
61	T	Acenaphthylene	1.746	1.686	3.4	93	0.00
62	T	2,6-Dinitrotoluene	0.264	0.264	0.0	102	0.00
63	CCC	Acenaphthene	1.058	1.064	-0.6	98	0.00
64	PC	2,4-Dinitrophenol	0.100	0.077	23.0	100	0.00
65	T	Dibenzofuran	1.626	1.613	0.8	96	0.00
66	PC	4-Nitrophenol	0.158	0.151	4.4	98	0.00
67	M	2,4-Dinitrotoluene	0.367	0.355	3.3	98	0.00
68	T	2,3,4,6-Tetrachlorophenol	0.281	0.276	1.8	100	0.00
69	T	Diethyl phthalate	1.224	1.194	2.5	96	0.00
70	T	Fluorene	1.353	1.290	4.7	93	0.00
71	T	4-Chlorophenyl phenyl ether	0.650	0.631	2.9	97	0.00
72	S	2,4,6-Tribromophenol	0.155	0.150	3.2	99	0.00
73	I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
74	T	4,6-Dinitro-2-methylphenol	0.091	0.080	12.1	97	0.01
75	T	Azobenzene	0.636	0.667	-4.9	103	0.00
76	T	1,2-Diphenylhydrazine	0.194	0.205	-5.7	104	0.00
77	CCC	Diphenylamine	0.135	0.154	-14.1	110	0.00
78	T	N-Nitrosodiphenylamine	0.639	0.725	-13.5	110	0.00
79	T	4-Bromophenyl phenyl ether	0.215	0.207	3.7	96	0.00
80	T	Phenacetin	0.327	0.334	-2.1	99	0.01
81	T	Hexachlorobenzene	0.230	0.219	4.8	95	0.00
82		Atrazine	0.200	0.239	-19.5	117	0.01
83	T	4-Aminobiphenyl	0.809	0.762	5.8	90	0.00
84	CCC	Pentachlorophenol	0.127	0.112	11.8	90	0.00
85	T	Pentachloronitrobenzene	0.084	0.085	-1.2	100	0.00
86	T	Pronamide	0.291	0.322	-10.7	108	0.00
87	T	Phenanthrene	1.090	1.065	2.3	95	0.00
88	T	Anthracene	1.096	0.955	12.9	84	0.00
89	T	Carbazole	0.983	1.177	-19.7	116	0.00
90	T	Di-n-butyl phthalate	1.167	1.127	3.4	93	0.00
91	CCC	Fluoranthene	1.213	1.194	1.6	96	0.00
92	I	Chrysene-d12	1.000	1.000	0.0	102	0.00
93	T	Pyrene	1.391	1.348	3.1	98	0.00
94	S	4-Terphenyl-d14	0.989	0.962	2.7	99	0.00
95	T	Benzidine	0.520	0.467	10.2	85	0.00
96	T	p-Dimethylaminoazobenzene	0.276	0.264	4.3	98	0.00
97	T	Butyl benzyl phthalate	0.571	0.536	6.1	97	0.00
98	T	Benz(a)anthracene	1.304	1.235	5.3	96	0.00
99	T	3,3'-Dichlorobenzidine	0.475	0.457	3.8	93	0.00
100	T	Chrysene	1.353	1.269	6.2	95	0.00
101	T	Bis(2-ethylhexyl)phthalate	0.756	0.747	1.2	98	0.00
102	CCC	Di-n-octyl phthalate	1.264	1.172	7.3	96	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	0.443	0.554	-25.1#	131	0.00
104	T	Indeno[1,2,3-cd]pyrene	1.518	1.411	7.0	96	0.00
105	I	Perylene-d12	1.000	1.000	0.0	116	0.00
106	T	Benzo[b]fluoranthene	1.344	1.132	15.8	98	0.00
107	T	Benzo[k]fluoranthene	1.339	1.212	9.5	97	0.00
108	CCC	Benzo[a]pyrene	1.179	0.998	15.4	98	0.00
109	T	Dibenz(a,j)acridine	1.009	0.785	22.2#	91	0.00
110	T	Dibenz(a,h)anthracene	1.240	1.055	14.9	97	0.00
111	T	Benzo[g,h,i]perylene	1.264	1.091	13.7	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 2

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	108	0.00
2		Pyridine	80.000	72.215	9.7	98	-0.02
3	T	2-Picoline	80.000	67.775	15.3	91	-0.02
4	T	Methyl methanesulfonate	80.000	72.699	9.1	97	0.00
5	S	2-Fluorophenol	80.000	77.782	2.8	103	0.00
6	T	Ethyl methanesulfonate	80.000	71.411	10.7	95	0.00
7	C	Benzaldehyde	80.000	68.341	14.6#	115	0.00
8	T	Aniline	80.000	71.949	10.1	98	0.00
9	S	Phenol-d5	80.000	77.997	2.5	103	0.01
10	C	Phenol	80.000	73.985	7.5#	98	0.01
11	T	Bis(2-chloroethyl)ether	80.000	78.112	2.4	106	0.00
12	T	2-Chlorophenol	80.000	75.394	5.8	100	0.00
13	T	1,3-Dichlorobenzene	80.000	75.246	5.9	100	0.00
14	CCC	1,4-Dichlorobenzene	80.000	75.930	5.1	102	0.00
15	T	1,2-Dichlorobenzene	80.000	74.626	6.7	100	0.00
16	T	Benzyl alcohol	80.000	75.114	6.1	98	0.01
17	T	Bis(2-chloroisopropyl)ether	80.000	64.356	19.6	89	0.00
18	T	2-Methylphenol	80.000	77.585	3.0	103	0.00
19	T	3,4-Methylphenol	160.000	160.340	-0.2	105	0.02
20	PC	N-Nitrosodi-n-propylamine	80.000	73.341	8.3	95	0.01
21	T	N-Nitrosodimethylamine	80.000	75.576	5.5	103	0.00
22	T	Hexachloroethane	80.000	76.652	4.2	100	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	107	0.00
24	S	Nitrobenzene-d5	80.000	80.813	-1.0	104	0.00
25	T	Acetophenone	160.000	81.175	49.3#	54	0.00
26	M	Nitrobenzene	80.000	80.302	-0.4	103	0.00
27	T	N-Nitrosopiperidine	80.000	78.813	1.5	102	0.00
28	T	Isophorone	80.000	76.574	4.3	101	0.00
29	CCC	2-Nitrophenol	80.000	84.544	-5.7	103	0.00
30	T	2,4-Dimethylphenol	80.000	78.915	1.4	103	0.00
31	T	Bis(2-chloroethoxy)methane	80.000	78.182	2.3	103	0.00
32	CCC	2,4-Dichlorophenol	80.000	80.098	-0.1	102	0.00
33	T	1,2,4-Trichlorobenzene	80.000	78.915	1.4	103	0.00
34	T	Naphthalene	80.000	78.123	2.3	103	0.00
35	T	Benzoic acid	80.000	80.309	-0.4	111	0.07
36	T	2,6-Dichlorophenol	80.000	78.589	1.8	101	0.00
37	T	4-Chloroaniline	80.000	77.429	3.2	101	0.00
38	CCC	Hexachlorobutadiene	80.000	76.813	4.0	101	0.00
39	T	a,a-Dimethylphenethylamine	80.000	77.600	3.0	100	0.09
40		Caprolactam	80.000	97.223	-21.5#	123	0.10
41	CCC	4-Chloro-3-methylphenol	80.000	80.563	-0.7	103	0.02
42	T	N-Nitroso-di-n-butylamine	80.000	81.033	-1.3	93	0.00
43	T	2-Methylnaphthalene	80.000	76.336	4.6	100	0.00
44	T	1-Methylnaphthalene	80.000	77.669	2.9	103	0.00
45	I	Acenaphthene-d10	40.000	40.000	0.0	104	0.00
46	T	1,2,4,5-Tetrachlorobenzene	80.000	79.387	0.8	103	0.00
47	PC	Hexachlorocyclopentadiene	80.000	69.447	13.2	84	0.00
48	CCC	2,4,6-Trichlorophenol	80.000	81.391	-1.7	101	0.01
49	T	2,4,5-Trichlorophenol	80.000	81.908	-2.4	103	0.01
50	S	2-Fluorobiphenyl	80.000	80.213	-0.3	104	0.00
51		Biphenyl	80.000	87.394	-9.2	113	0.01

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	2-Chloronaphthalene	80.000	89.638	-12.0	120	0.01
53	T	1-Chloronaphthalene	80.000	64.944	18.8	81	0.01
54	T	2-Nitroaniline	80.000	83.513	-4.4	102	0.01
55	T	3-Nitroaniline	80.000	82.316	-2.9	100	0.01
56	T	Pentachlorobenzene	80.000	81.417	-1.8	105	0.00
57	T	4-Nitroaniline	80.000	84.588	-5.7	104	0.03
58	T	2-Naphthylamine	80.000	72.699	9.1	93	0.01
59	T	1-Naphthylamine	80.000	67.956	15.1	88	0.01
60	T	Dimethyl phthalate	80.000	79.952	0.1	103	0.01
61	T	Acenaphthylene	80.000	78.731	1.6	101	0.00
62	T	2,6-Dinitrotoluene	80.000	88.632	-10.8	106	0.01
63	CCC	Acenaphthene	80.000	80.953	-1.2	105	0.00
64	PC	2,4-Dinitrophenol	80.000	68.186	14.8	88	0.02
65	T	Dibenzofuran	80.000	79.680	0.4	104	0.00
66	PC	4-Nitrophenol	80.000	75.661	5.4	93	0.02
67	M	2,4-Dinitrotoluene	80.000	85.547	-6.9	101	0.01
68	T	2,3,4,6-Tetrachlorophenol	80.000	83.873	-4.8	101	0.01
69	T	Diethyl phthalate	80.000	80.453	-0.6	104	0.02
70	T	Fluorene	80.000	77.935	2.6	101	0.00
71	T	4-Chlorophenyl phenyl ether	80.000	80.087	-0.1	103	0.00
72	S	2,4,6-Tribromophenol	80.000	83.606	-4.5	101	0.01
73	I	Phenanthrene-d10	40.000	40.000	0.0	104	0.00
74	T	4,6-Dinitro-2-methylphenol	80.000	67.234	16.0	87	0.04
75	T	Azobenzene	80.000	85.480	-6.9	113	0.01
76	T	1,2-Diphenylhydrazine	80.000	88.465	-10.6	114	0.01
77	CCC	Diphenylamine	80.000	90.242	-12.8	115	0.02
78	T	N-Nitrosodiphenylamine	80.000	89.797	-12.2	116	0.02
79	T	4-Bromophenyl phenyl ether	80.000	78.965	1.3	100	0.00
80	T	Phenacetin	80.000	85.644	-7.1	105	0.03
81	T	Hexachlorobenzene	80.000	79.372	0.8	101	0.01
82		Atrazine	80.000	97.719	-22.1#	122	0.02
83	T	4-Aminobiphenyl	80.000	74.725	6.6	94	0.01
84	CCC	Pentachlorophenol	80.000	76.578	4.3	89	0.02
85	T	Pentachloronitrobenzene	80.000	85.465	-6.8	104	0.01
86	T	Pronamide	80.000	93.321	-16.7	116	0.02
87	T	Phenanthrene	80.000	78.091	2.4	101	0.01
88	T	Anthracene	80.000	70.375	12.0	90	0.00
89	T	Carbazole	80.000	96.805	-21.0#	124	0.01
90	T	Di-n-butyl phthalate	80.000	80.092	-0.1	100	0.00
91	CCC	Fluoranthene	80.000	80.476	-0.6	102	0.00
92	I	Chrysene-d12	40.000	40.000	0.0	106	0.01
93	T	Pyrene	80.000	77.357	3.3	102	0.01
94	S	4-Terphenyl-d14	80.000	79.351	0.8	103	0.00
95	T	Benzidine	80.000	77.457	3.2	104	0.00
96	T	p-Dimethylaminoazobenzene	80.000	81.410	-1.8	100	0.00
97	T	Butyl benzyl phthalate	80.000	80.281	-0.4	101	0.00
98	T	Benz(a)anthracene	80.000	78.606	1.7	101	0.00
99	T	3,3'-Dichlorobenzidine	80.000	81.002	-1.3	104	0.01
100	T	Chrysene	80.000	76.061	4.9	100	0.01
101	T	Bis(2-ethylhexyl)phthalate	80.000	84.772	-6.0	101	0.00
102	CCC	Di-n-octyl phthalate	80.000	82.584	-3.2	99	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	80.000	109.765	-37.2#	133	0.01
104	T	Indeno[1,2,3-cd]pyrene	80.000	82.184	-2.7	101	0.02
105	I	Perylene-d12	40.000	40.000	0.0	112	0.00
106	T	Benzo[b]fluoranthene	80.000	70.531	11.8	101	0.02
107	T	Benzo[k]fluoranthene	80.000	71.311	10.9	105	0.02
108	CCC	Benzo[a]pyrene	80.000	70.447	11.9	98	0.01
109	T	Dibenz(a,j)acridine	80.000	68.109	14.9	89	0.01
110	T	Dibenz(a,h)anthracene	80.000	72.160	9.8	100	0.02
111	T	Benzo[g,h,i]perylene	80.000	72.659	9.2	104	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 2

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00
2		Pyridine	1.534	1.385	9.7	98	-0.02
3	T	2-Picoline	1.557	1.319	15.3	91	-0.02
4	T	Methyl methanesulfonate	0.651	0.592	9.1	97	0.00
5	S	2-Fluorophenol	1.248	1.213	2.8	103	0.00
6	T	Ethyl methanesulfonate	1.016	0.907	10.7	95	0.00
7	C	Benzaldehyde	0.809	0.691	14.6#	115	0.00
8	T	Aniline	0.769	0.691	10.1	98	0.00
9	S	Phenol-d5	1.515	1.477	2.5	103	0.01
10	C	Phenol	1.838	1.700	7.5#	98	0.01
11	T	Bis(2-chloroethyl)ether	1.304	1.273	2.4	106	0.00
12	T	2-Chlorophenol	1.407	1.326	5.8	100	0.00
13	T	1,3-Dichlorobenzene	1.605	1.510	5.9	100	0.00
14	CCC	1,4-Dichlorobenzene	1.623	1.540	5.1	102	0.00
15	T	1,2-Dichlorobenzene	1.512	1.410	6.7	100	0.00
16	T	Benzyl alcohol	0.904	0.849	6.1	98	0.01
17	T	Bis(2-chloroisopropyl)ether	1.364	1.097	19.6	89	0.00
18	T	2-Methylphenol	1.058	1.026	3.0	103	0.00
19	T	3,4-Methylphenol	1.376	1.379	-0.2	105	0.02
20	PC	N-Nitrosodi-n-propylamine	0.868	0.796	8.3	95	0.01
21	T	N-Nitrosodimethylamine	0.471	0.445	5.5	103	0.00
22	T	Hexachloroethane	0.572	0.548	4.2	100	0.00
23	I	Naphthalene-d8	1.000	1.000	0.0	107	0.00
24	S	Nitrobenzene-d5	0.310	0.313	-1.0	104	0.00
25	T	Acetophenone	0.454	0.230	49.3#	54	0.00
26	M	Nitrobenzene	0.175	0.176	-0.6	103	0.00
27	T	N-Nitrosopiperidine	0.173	0.170	1.7	102	0.00
28	T	Isophorone	0.639	0.612	4.2	101	0.00
29	CCC	2-Nitrophenol	0.168	0.177	-5.4	103	0.00
30	T	2,4-Dimethylphenol	0.310	0.306	1.3	103	0.00
31	T	Bis(2-chloroethoxy)methane	0.402	0.393	2.2	103	0.00
32	CCC	2,4-Dichlorophenol	0.297	0.297	0.0	102	0.00
33	T	1,2,4-Trichlorobenzene	0.335	0.330	1.5	103	0.00
34	T	Naphthalene	1.048	1.023	2.4	103	0.00
35	T	Benzoic acid	0.060	0.065	-8.3	111	0.07
36	T	2,6-Dichlorophenol	0.289	0.284	1.7	101	0.00
37	T	4-Chloroaniline	0.440	0.426	3.2	101	0.00
38	CCC	Hexachlorobutadiene	0.191	0.183	4.2	101	0.00
39	T	a,a-Dimethylphenethylamine	0.802	0.777	3.1	100	0.09
40		Caprolactam	0.113	0.137	-21.2#	123	0.10
41	CCC	4-Chloro-3-methylphenol	0.283	0.285	-0.7	103	0.02
42	T	N-Nitroso-di-n-butylamine	0.250	0.253	-1.2	93	0.00
43	T	2-Methylnaphthalene	0.607	0.580	4.4	100	0.00
44	T	1-Methylnaphthalene	0.597	0.579	3.0	103	0.00
45	I	Acenaphthene-d10	1.000	1.000	0.0	104	0.00
46	T	1,2,4,5-Tetrachlorobenzene	0.553	0.549	0.7	103	0.00
47	PC	Hexachlorocyclopentadiene	0.305	0.265	13.1	84	0.00
48	CCC	2,4,6-Trichlorophenol	0.356	0.363	-2.0	101	0.01
49	T	2,4,5-Trichlorophenol	0.399	0.409	-2.5	103	0.01
50	S	2-Fluorobiphenyl	1.292	1.295	-0.2	104	0.00
51		Biphenyl	1.390	1.518	-9.2	113	0.01

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	T	2-Chloronaphthalene	1.166	1.306	-12.0	120	0.01
53	T	1-Chloronaphthalene	1.054	0.855	18.9	81	0.01
54	T	2-Nitroaniline	0.274	0.286	-4.4	102	0.01
55	T	3-Nitroaniline	0.324	0.333	-2.8	100	0.01
56	T	Pentachlorobenzene	0.488	0.497	-1.8	105	0.00
57	T	4-Nitroaniline	0.336	0.355	-5.7	104	0.03
58	T	2-Naphthylamine	1.172	1.065	9.1	93	0.01
59	T	1-Naphthylamine	1.253	1.064	15.1	88	0.01
60	T	Dimethyl phthalate	1.263	1.262	0.1	103	0.01
61	T	Acenaphthylene	1.746	1.718	1.6	101	0.00
62	T	2,6-Dinitrotoluene	0.264	0.293	-11.0	106	0.01
63	CCC	Acenaphthene	1.058	1.071	-1.2	105	0.00
64	PC	2,4-Dinitrophenol	0.100	0.095	5.0	88	0.02
65	T	Dibenzofuran	1.626	1.619	0.4	104	0.00
66	PC	4-Nitrophenol	0.158	0.150	5.1	93	0.02
67	M	2,4-Dinitrotoluene	0.367	0.393	-7.1	101	0.01
68	T	2,3,4,6-Tetrachlorophenol	0.281	0.294	-4.6	101	0.01
69	T	Diethyl phthalate	1.224	1.231	-0.6	104	0.02
70	T	Fluorene	1.353	1.318	2.6	101	0.00
71	T	4-Chlorophenyl phenyl ether	0.650	0.651	-0.2	103	0.00
72	S	2,4,6-Tribromophenol	0.155	0.162	-4.5	101	0.01
73	I	Phenanthrene-d10	1.000	1.000	0.0	104	0.00
74	T	4,6-Dinitro-2-methylphenol	0.091	0.092	-1.1	87	0.04
75	T	Azobenzene	0.636	0.679	-6.8	113	0.01
76	T	1,2-Diphenylhydrazine	0.194	0.215	-10.8	114	0.01
77	CCC	Diphenylamine	0.135	0.153	-13.3	115	0.02
78	T	N-Nitrosodiphenylamine	0.639	0.717	-12.2	116	0.02
79	T	4-Bromophenyl phenyl ether	0.215	0.212	1.4	100	0.00
80	T	Phenacetin	0.327	0.350	-7.0	105	0.03
81	T	Hexachlorobenzene	0.230	0.228	0.9	101	0.01
82		Atrazine	0.200	0.244	-22.0#	122	0.02
83	T	4-Aminobiphenyl	0.809	0.756	6.6	94	0.01
84	CCC	Pentachlorophenol	0.127	0.122	3.9	89	0.02
85	T	Pentachloronitrobenzene	0.084	0.089	-6.0	104	0.01
86	T	Pronamide	0.291	0.339	-16.5	116	0.02
87	T	Phenanthrene	1.090	1.064	2.4	101	0.01
88	T	Anthracene	1.096	0.964	12.0	90	0.00
89	T	Carbazole	0.983	1.190	-21.1#	124	0.01
90	T	Di-n-butyl phthalate	1.167	1.168	-0.1	100	0.00
91	CCC	Fluoranthene	1.213	1.220	-0.6	102	0.00
92	I	Chrysene-d12	1.000	1.000	0.0	106	0.01
93	T	Pyrene	1.391	1.345	3.3	102	0.01
94	S	4-Terphenyl-d14	0.989	0.981	0.8	103	0.00
95	T	Benzidine	0.520	0.504	3.1	104	0.00
96	T	p-Dimethylaminoazobenzene	0.276	0.281	-1.8	100	0.00
97	T	Butyl benzyl phthalate	0.571	0.573	-0.4	101	0.00
98	T	Benz(a)anthracene	1.304	1.281	1.8	101	0.00
99	T	3,3'-Dichlorobenzidine	0.475	0.481	-1.3	104	0.01
100	T	Chrysene	1.353	1.287	4.9	100	0.01
101	T	Bis(2-ethylhexyl)phthalate	0.756	0.801	-6.0	101	0.00
102	CCC	Di-n-octyl phthalate	1.264	1.305	-3.2	99	0.00

Evaluate Continuing Calibration Report

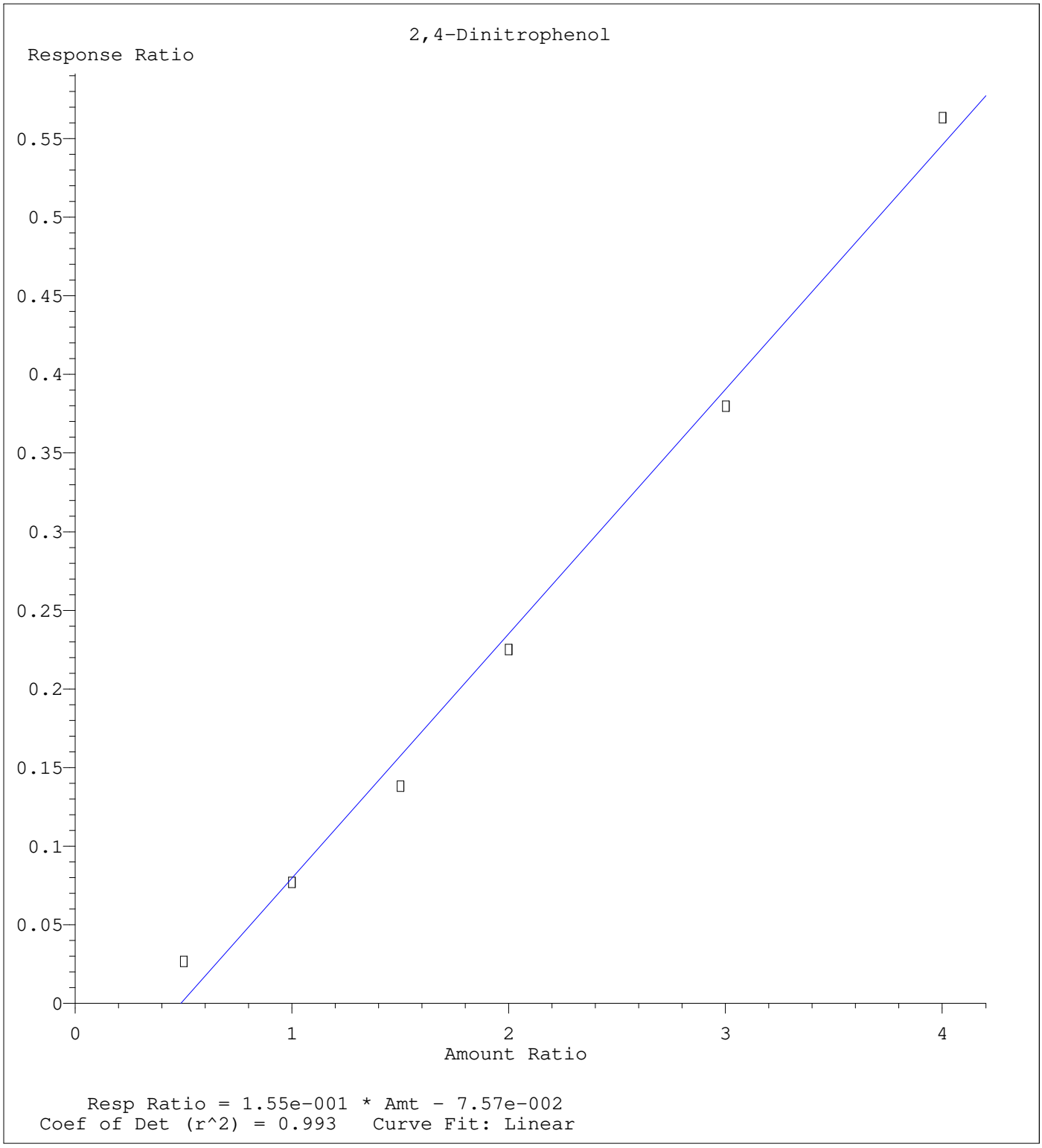
Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

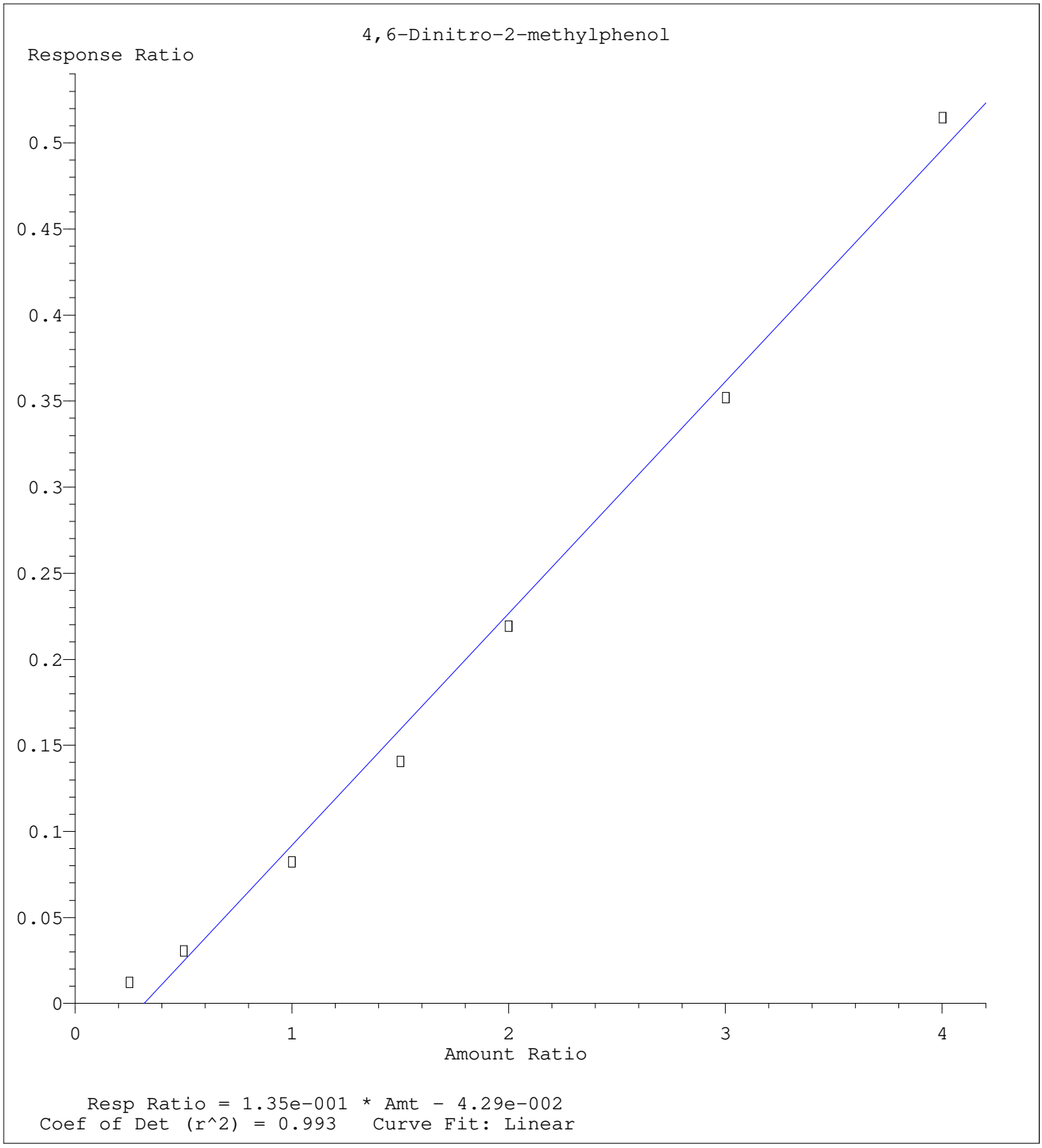
Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	0.443	0.608	-37.2#	133	0.01
104	T	Indeno[1,2,3-cd]pyrene	1.518	1.559	-2.7	101	0.02
105	I	Perylene-d12	1.000	1.000	0.0	112	0.00
106	T	Benzo[b]fluoranthene	1.344	1.185	11.8	101	0.02
107	T	Benzo[k]fluoranthene	1.339	1.193	10.9	105	0.02
108	CCC	Benzo[a]pyrene	1.179	1.038	12.0	98	0.01
109	T	Dibenz(a,j)acridine	1.009	0.859	14.9	89	0.01
110	T	Dibenz(a,h)anthracene	1.240	1.118	9.8	100	0.02
111	T	Benzo[g,h,i]perylene	1.264	1.148	9.2	104	0.02

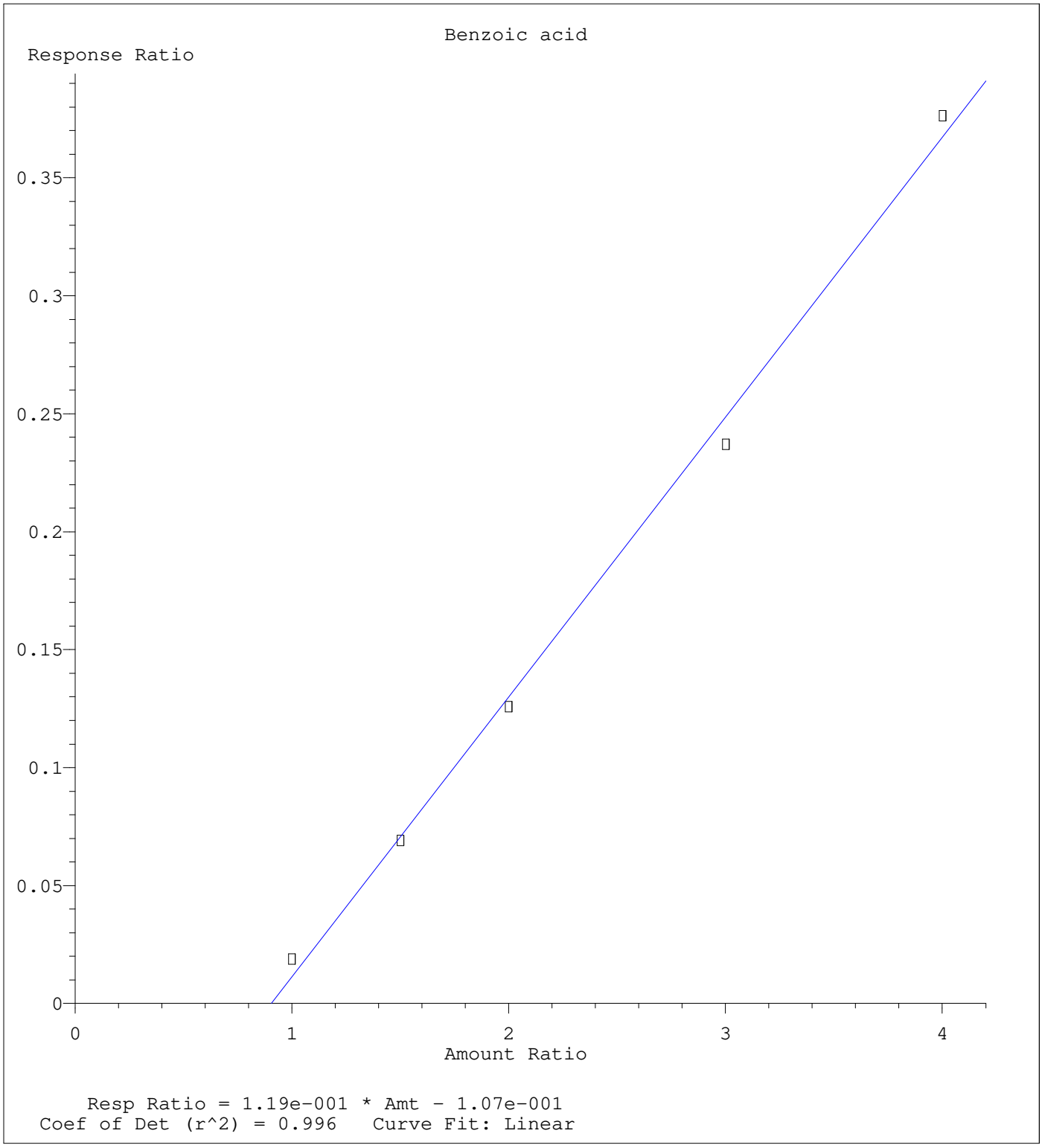
(#) = Out of Range SPCC's out = 0 CCC's out = 2



Method Name: C:\msdchem\1\METHODS\B042221.M
Calibration Table Last Updated: Fri Apr 23 14:54:46 2021



Method Name: C:\msdchem\1\METHODS\B042221.M
Calibration Table Last Updated: Fri Apr 23 14:54:46 2021



Resp Ratio = 1.19e-001 * Amt - 1.07e-001
Coef of Det (r^2) = 0.996 Curve Fit: Linear

Method Name: C:\msdchem\1\METHODS\B042221.M
Calibration Table Last Updated: Fri Apr 23 14:54:46 2021

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042210.D
Acq On : 22 Apr 2021 10:12 am
Operator : YH
Sample : bna10 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 23 14:34:46 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Thu Apr 22 15:10:47 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	100	0.00
2		Pyridine	10.000	9.582	4.2	100	0.00
3	T	2-Picoline	10.000	9.545	4.6	100	0.00
4	T	Methyl methanesulfonate	10.000	9.772	2.3	100	0.00
5	S	2-Fluorophenol	10.000	9.829	1.7	100	0.00
6	T	Ethyl methanesulfonate	10.000	9.942	0.6	100	0.00
7	C	Benzaldehyde	10.000	10.606	-6.1#	100	0.00
8	T	Aniline	10.000	10.148	-1.5	100	0.00
9	S	Phenol-d5	10.000	9.974	0.3	100	0.00
10	C	Phenol	10.000	9.973	0.3	100	0.00
11	T	Bis(2-chloroethyl)ether	10.000	10.170	-1.7	100	0.00
12	T	2-Chlorophenol	10.000	9.836	1.6	100	0.00
13	T	1,3-Dichlorobenzene	10.000	10.084	-0.8	100	0.00
14	CCC	1,4-Dichlorobenzene	10.000	10.216	-2.2	100	0.00
15	T	1,2-Dichlorobenzene	10.000	10.278	-2.8	100	0.00
16	T	Benzyl alcohol	10.000	9.553	4.5	100	0.00
17	T	Bis(2-chloroisopropyl)ether	10.000	10.914	-9.1	100	0.00
18	T	2-Methylphenol	10.000	9.909	0.9	100	0.00
19	T	3,4-Methylphenol	20.000	20.191	-1.0	100	0.00
20	PC	N-Nitrosodi-n-propylamine	10.000	10.159	-1.6	100	0.00
21	T	N-Nitrosodimethylamine	10.000	10.230	-2.3	100	0.00
22	T	Hexachloroethane	10.000	10.014	-0.1	100	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	100	0.00
24	S	Nitrobenzene-d5	10.000	9.705	2.9	100	0.00
25	T	Acetophenone	20.000	20.618	-3.1	100	0.00
26	M	Nitrobenzene	10.000	9.717	2.8	100	0.00
27	T	N-Nitrosopiperidine	10.000	9.817	1.8	100	0.00
28	T	Isophorone	10.000	10.024	-0.2	100	0.00
29	CCC	2-Nitrophenol	10.000	8.388	16.1	100	0.00
30	T	2,4-Dimethylphenol	10.000	9.740	2.6	100	0.00
31	T	Bis(2-chloroethoxy)methane	10.000	10.068	-0.7	100	0.00
32	CCC	2,4-Dichlorophenol	10.000	9.453	5.5	100	0.00
33	T	1,2,4-Trichlorobenzene	10.000	10.154	-1.5	100	0.00
34	T	Naphthalene	10.000	10.433	-4.3	100	0.00
35	T	Benzoic acid	-1.000	36.276	0.0	0	0.03
36	T	2,6-Dichlorophenol	10.000	9.743	2.6	100	0.00
37	T	4-Chloroaniline	10.000	10.066	-0.7	100	0.00
38	CCC	Hexachlorobutadiene	10.000	10.096	-1.0	100	0.00
39	T	a,a-Dimethylphenethylamine	10.000	8.937	10.6	100	-0.04
40		Caprolactam	10.000	8.806	11.9	100	0.00
41	CCC	4-Chloro-3-methylphenol	10.000	9.326	6.7	100	0.00
42	T	N-Nitroso-di-n-butylamine	10.000	8.567	14.3	100	0.00
43	T	2-Methylnaphthalene	10.000	10.221	-2.2	100	0.00
44	T	1-Methylnaphthalene	10.000	10.203	-2.0	100	0.00
45	I	Acenaphthene-d10	40.000	40.000	0.0	100	0.00
46	T	1,2,4,5-Tetrachlorobenzene	10.000	10.337	-3.4	100	0.00

47	PC	Hexachlorocyclopentadiene	10.000	8.777	12.2	100	0.00
48	CCC	2,4,6-Trichlorophenol	10.000	8.942	10.6	100	0.00
49	T	2,4,5-Trichlorophenol	10.000	8.996	10.0	100	0.00
50	S	2-Fluorobiphenyl	10.000	10.262	-2.6	100	0.00
51		Biphenyl	10.000	10.795	-7.9	100	0.00
52	T	2-Chloronaphthalene	10.000	10.256	-2.6	100	0.00
53	T	1-Chloronaphthalene	10.000	10.337	-3.4	100	0.00
54	T	2-Nitroaniline	10.000	8.498	15.0	100	0.00
55	T	3-Nitroaniline	10.000	8.261	17.4	100	0.00
56	T	Pentachlorobenzene	10.000	10.013	-0.1	100	0.00
57	T	4-Nitroaniline	10.000	8.323	16.8	100	0.00
58	T	2-Naphthylamine	10.000	9.796	2.0	100	0.00
59	T	1-Naphthylamine	10.000	10.210	-2.1	100	0.00
60	T	Dimethyl phthalate	10.000	9.937	0.6	100	0.00
61	T	Acenaphthylene	10.000	10.133	-1.3	100	0.00
62	T	2,6-Dinitrotoluene	10.000	7.809	21.9#	100	0.00
63	CCC	Acenaphthene	10.000	10.311	-3.1	100	0.00
64	PC	2,4-Dinitrophenol	-1.000	22.159	0.0	0	0.00
65	T	Dibenzofuran	10.000	10.270	-2.7	100	0.00
66	PC	4-Nitrophenol	10.000	9.259	7.4	100	0.00
67	M	2,4-Dinitrotoluene	10.000	7.562	24.4#	100	0.00
68	T	2,3,4,6-Tetrachlorophenol	10.000	8.299	17.0	100	0.00
69	T	Diethyl phthalate	10.000	9.769	2.3	100	0.00
70	T	Fluorene	10.000	10.052	-0.5	100	0.00
71	T	4-Chlorophenyl phenyl ether	10.000	10.066	-0.7	100	0.00
72	S	2,4,6-Tribromophenol	10.000	8.172	18.3	100	0.00
73	I	Phenanthrene-d10	40.000	40.000	0.0	100	0.00
74	T	4,6-Dinitro-2-methylphenol	10.000	16.327	-63.3#	100	0.00
75	T	Azobenzene	10.000	10.013	-0.1	100	0.00
76	T	1,2-Diphenylhydrazine	10.000	9.977	0.2	100	0.00
77	CCC	Diphenylamine	10.000	10.139	-1.4	100	0.00
78	T	N-Nitrosodiphenylamine	10.000	10.397	-4.0	100	0.00
79	T	4-Bromophenyl phenyl ether	10.000	9.991	0.1	100	0.00
80	T	Phenacetin	10.000	8.844	11.6	100	0.00
81	T	Hexachlorobenzene	10.000	9.820	1.8	100	0.00
82		Atrazine	10.000	9.357	6.4	100	0.00
83	T	4-Aminobiphenyl	10.000	9.753	2.5	100	0.00
84	CCC	Pentachlorophenol	10.000	7.329	26.7	100	0.00
85	T	Pentachloronitrobenzene	10.000	8.428	15.7	100	0.00
86	T	Pronamide	10.000	8.958	10.4	100	0.00
87	T	Phenanthrene	10.000	10.321	-3.2	100	0.00
88	T	Anthracene	10.000	10.033	-0.3	100	0.00
89	T	Carbazole	10.000	9.986	0.1	100	0.00
90	T	Di-n-butyl phthalate	10.000	9.256	7.4	100	0.00
91	CCC	Fluoranthene	10.000	9.720	2.8	100	0.00
92	I	Chrysene-d12	40.000	40.000	0.0	100	0.00
93	T	Pyrene	10.000	10.092	-0.9	100	0.00
94	S	4-Terphenyl-d14	10.000	9.674	3.3	100	0.00
95	T	Benzidine	10.000	9.925	0.7	100	0.00
96	T	p-Dimethylaminoazobenzene	10.000	8.105	18.9	100	0.00
97	T	Butyl benzyl phthalate	10.000	8.565	14.4	100	0.00
98	T	Benz(a)anthracene	10.000	9.674	3.3	100	0.00
99	T	3,3'-Dichlorobenzidine	10.000	9.729	2.7	100	0.00
100	T	Chrysene	10.000	10.013	-0.1	100	0.00
101	T	Bis(2-ethylhexyl)phthalate	10.000	8.663	13.4	100	0.00
102	CCC	Di-n-octyl phthalate	10.000	7.501	25.0	100	0.00
103	T	3-Methylcholanthrene	10.000	8.107	18.9	100	0.00
104	T	Indeno[1,2,3-cd]pyrene	10.000	8.601	14.0	100	0.00
105	I	Perylene-d12	40.000	40.000	0.0	100	0.00
106	T	Benzo[b]fluoranthene	10.000	8.772	12.3	100	0.00
107	T	Benzo[k]fluoranthene	10.000	10.968	-9.7	100	0.00
108	CCC	Benzo[a]pyrene	10.000	8.885	11.2	100	0.00
109	T	Dibenz(a,j)acridine	10.000	8.042	19.6	100	0.00
110	T	Dibenz(a,h)anthracene	10.000	8.996	10.0	100	0.00
111	T	Benzo[g,h,i]perylene	10.000	9.218	7.8	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

B042221.M Fri Apr 23 14:57:20 2021

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042210.D
Acq On : 22 Apr 2021 10:12 am
Operator : YH
Sample : bna10 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 23 14:34:46 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Thu Apr 22 15:10:47 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	100	0.00
2		Pyridine	10.000	9.582	4.2	100	0.00
3	T	2-Picoline	10.000	9.545	4.6	100	0.00
4	T	Methyl methanesulfonate	10.000	9.772	2.3	100	0.00
5	S	2-Fluorophenol	10.000	9.829	1.7	100	0.00
6	T	Ethyl methanesulfonate	10.000	9.942	0.6	100	0.00
7	C	Benzaldehyde	10.000	10.606	-6.1#	100	0.00
8	T	Aniline	10.000	10.148	-1.5	100	0.00
9	S	Phenol-d5	10.000	9.974	0.3	100	0.00
10	C	Phenol	10.000	9.973	0.3	100	0.00
11	T	Bis(2-chloroethyl)ether	10.000	10.170	-1.7	100	0.00
12	T	2-Chlorophenol	10.000	9.836	1.6	100	0.00
13	T	1,3-Dichlorobenzene	10.000	10.084	-0.8	100	0.00
14	CCC	1,4-Dichlorobenzene	10.000	10.216	-2.2	100	0.00
15	T	1,2-Dichlorobenzene	10.000	10.278	-2.8	100	0.00
16	T	Benzyl alcohol	10.000	9.553	4.5	100	0.00
17	T	Bis(2-chloroisopropyl)ether	10.000	10.914	-9.1	100	0.00
18	T	2-Methylphenol	10.000	9.909	0.9	100	0.00
19	T	3,4-Methylphenol	20.000	20.191	-1.0	100	0.00
20	PC	N-Nitrosodi-n-propylamine	10.000	10.159	-1.6	100	0.00
21	T	N-Nitrosodimethylamine	10.000	10.230	-2.3	100	0.00
22	T	Hexachloroethane	10.000	10.014	-0.1	100	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	100	0.00
24	S	Nitrobenzene-d5	10.000	9.705	2.9	100	0.00
25	T	Acetophenone	20.000	20.618	-3.1	100	0.00
26	M	Nitrobenzene	10.000	9.717	2.8	100	0.00
27	T	N-Nitrosopiperidine	10.000	9.817	1.8	100	0.00
28	T	Isophorone	10.000	10.024	-0.2	100	0.00
29	CCC	2-Nitrophenol	10.000	8.388	16.1	100	0.00
30	T	2,4-Dimethylphenol	10.000	9.740	2.6	100	0.00
31	T	Bis(2-chloroethoxy)methane	10.000	10.068	-0.7	100	0.00
32	CCC	2,4-Dichlorophenol	10.000	9.453	5.5	100	0.00
33	T	1,2,4-Trichlorobenzene	10.000	10.154	-1.5	100	0.00
34	T	Naphthalene	10.000	10.433	-4.3	100	0.00
35	T	Benzoic acid	-1.000	36.276	0.0	0	0.03
36	T	2,6-Dichlorophenol	10.000	9.743	2.6	100	0.00
37	T	4-Chloroaniline	10.000	10.066	-0.7	100	0.00
38	CCC	Hexachlorobutadiene	10.000	10.096	-1.0	100	0.00
39	T	a,a-Dimethylphenethylamine	10.000	8.937	10.6	100	-0.04
40		Caprolactam	10.000	8.806	11.9	100	0.00
41	CCC	4-Chloro-3-methylphenol	10.000	9.326	6.7	100	0.00
42	T	N-Nitroso-di-n-butylamine	10.000	8.567	14.3	100	0.00
43	T	2-Methylnaphthalene	10.000	10.221	-2.2	100	0.00
44	T	1-Methylnaphthalene	10.000	10.203	-2.0	100	0.00
45	I	Acenaphthene-d10	40.000	40.000	0.0	100	0.00
46	T	1,2,4,5-Tetrachlorobenzene	10.000	10.337	-3.4	100	0.00
47	PC	Hexachlorocyclopentadiene	10.000	8.777	12.2	100	0.00
48	CCC	2,4,6-Trichlorophenol	10.000	8.942	10.6	100	0.00
49	T	2,4,5-Trichlorophenol	10.000	8.996	10.0	100	0.00
50	S	2-Fluorobiphenyl	10.000	10.262	-2.6	100	0.00
51		Biphenyl	10.000	10.795	-7.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042210.D
Acq On : 22 Apr 2021 10:12 am
Operator : YH
Sample : bna10 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 23 14:34:46 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Thu Apr 22 15:10:47 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	2-Chloronaphthalene	10.000	10.256	-2.6	100	0.00
53	T	1-Chloronaphthalene	10.000	10.337	-3.4	100	0.00
54	T	2-Nitroaniline	10.000	8.498	15.0	100	0.00
55	T	3-Nitroaniline	10.000	8.261	17.4	100	0.00
56	T	Pentachlorobenzene	10.000	10.013	-0.1	100	0.00
57	T	4-Nitroaniline	10.000	8.323	16.8	100	0.00
58	T	2-Naphthylamine	10.000	9.796	2.0	100	0.00
59	T	1-Naphthylamine	10.000	10.210	-2.1	100	0.00
60	T	Dimethyl phthalate	10.000	9.937	0.6	100	0.00
61	T	Acenaphthylene	10.000	10.133	-1.3	100	0.00
62	T	2,6-Dinitrotoluene	10.000	7.809	21.9#	100	0.00
63	CCC	Acenaphthene	10.000	10.311	-3.1	100	0.00
64	PC	2,4-Dinitrophenol	-1.000	22.159	0.0	0	0.00
65	T	Dibenzofuran	10.000	10.270	-2.7	100	0.00
66	PC	4-Nitrophenol	10.000	9.259	7.4	100	0.00
67	M	2,4-Dinitrotoluene	10.000	7.562	24.4#	100	0.00
68	T	2,3,4,6-Tetrachlorophenol	10.000	8.299	17.0	100	0.00
69	T	Diethyl phthalate	10.000	9.769	2.3	100	0.00
70	T	Fluorene	10.000	10.052	-0.5	100	0.00
71	T	4-Chlorophenyl phenyl ether	10.000	10.066	-0.7	100	0.00
72	S	2,4,6-Tribromophenol	10.000	8.172	18.3	100	0.00
73	I	Phenanthrene-d10	40.000	40.000	0.0	100	0.00
74	T	4,6-Dinitro-2-methylphenol	10.000	16.327	-63.3#	100	0.00
75	T	Azobenzene	10.000	10.013	-0.1	100	0.00
76	T	1,2-Diphenylhydrazine	10.000	9.977	0.2	100	0.00
77	CCC	Diphenylamine	10.000	10.139	-1.4	100	0.00
78	T	N-Nitrosodiphenylamine	10.000	10.397	-4.0	100	0.00
79	T	4-Bromophenyl phenyl ether	10.000	9.991	0.1	100	0.00
80	T	Phenacetin	10.000	8.844	11.6	100	0.00
81	T	Hexachlorobenzene	10.000	9.820	1.8	100	0.00
82		Atrazine	10.000	9.357	6.4	100	0.00
83	T	4-Aminobiphenyl	10.000	9.753	2.5	100	0.00
84	CCC	Pentachlorophenol	10.000	7.329	26.7	100	0.00
85	T	Pentachloronitrobenzene	10.000	8.428	15.7	100	0.00
86	T	Pronamide	10.000	8.958	10.4	100	0.00
87	T	Phenanthrene	10.000	10.321	-3.2	100	0.00
88	T	Anthracene	10.000	10.033	-0.3	100	0.00
89	T	Carbazole	10.000	9.986	0.1	100	0.00
90	T	Di-n-butyl phthalate	10.000	9.256	7.4	100	0.00
91	CCC	Fluoranthene	10.000	9.720	2.8	100	0.00
92	I	Chrysene-d12	40.000	40.000	0.0	100	0.00
93	T	Pyrene	10.000	10.092	-0.9	100	0.00
94	S	4-Terphenyl-d14	10.000	9.674	3.3	100	0.00
95	T	Benzidine	10.000	9.925	0.7	100	0.00
96	T	p-Dimethylaminoazobenzene	10.000	8.105	18.9	100	0.00
97	T	Butyl benzyl phthalate	10.000	8.565	14.4	100	0.00
98	T	Benz(a)anthracene	10.000	9.674	3.3	100	0.00
99	T	3,3'-Dichlorobenzidine	10.000	9.729	2.7	100	0.00
100	T	Chrysene	10.000	10.013	-0.1	100	0.00
101	T	Bis(2-ethylhexyl)phthalate	10.000	8.663	13.4	100	0.00
102	CCC	Di-n-octyl phthalate	10.000	7.501	25.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042210.D
Acq On : 22 Apr 2021 10:12 am
Operator : YH
Sample : bna10 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 23 14:34:46 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Thu Apr 22 15:10:47 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	10.000	8.107	18.9	100	0.00
104	T	Indeno[1,2,3-cd]pyrene	10.000	8.601	14.0	100	0.00
105	I	Perylene-d12	40.000	40.000	0.0	100	0.00
106	T	Benzo[b]fluoranthene	10.000	8.772	12.3	100	0.00
107	T	Benzo[k]fluoranthene	10.000	10.968	-9.7	100	0.00
108	CCC	Benzo[a]pyrene	10.000	8.885	11.2	100	0.00
109	T	Dibenz(a,j)acridine	10.000	8.042	19.6	100	0.00
110	T	Dibenz(a,h)anthracene	10.000	8.996	10.0	100	0.00
111	T	Benzo[g,h,i]perylene	10.000	9.218	7.8	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042210.D
Acq On : 22 Apr 2021 10:12 am
Operator : YH
Sample : bna10 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 23 14:34:46 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Thu Apr 22 15:10:47 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.351	152	114802	40.00	ng		0.00
23) Naphthalene-d8	...	5.943	136	445690	40.00	ng		0.00
45) Acenaphthene-d10	...	7.994	164	259430	40.00	ng		0.00
73) Phenanthrene-d10	...	9.656	188	452000	40.00	ng		0.00
92) Chrysene-d12	...	12.594	240	400356	40.00	ng		0.00
105) Perylene-d12	...	14.063	264	385411	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.796	112	35201	9.83	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 9.83%#					
9) Phenol-d5	...	3.940	99	43375	9.97	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 9.97%#					
24) Nitrobenzene-d5	...	5.067	82	33500	9.70	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 19.40%#					
50) 2-Fluorobiphenyl	...	7.257	172	85973	10.26	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 20.52%#					
72) 2,4,6-Tribromophenol	...	8.886	330	8199	8.17	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 8.17%#					
94) 4-Terphenyl-d14	...	11.467	244	95732	9.67	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 19.34%#					
Target Compounds								Qvalue
2) Pyridine	...	1.536	79	42198	9.58	ng		93
3) 2-Picoline	...	2.187	93	42667	9.55	ng		99
4) Methyl methanesulfonate	...	2.620	80	18250	9.77	ng		93
6) Ethyl methanesulfonate	...	3.411	79	28986	9.94	ng		99
7) Benzaldehyde	...	3.779	105	24634	10.61	ng		97
8) Aniline	...	3.934	66	22386	10.15	ng		90
10) Phenol	...	3.956	94	52619	9.97	ng	#	57
11) Bis(2-chloroethyl)ether	...	4.046	93	38055	10.17	ng		97
12) 2-Chlorophenol	...	4.078	128	39727	9.84	ng		99
13) 1,3-Dichlorobenzene	...	4.276	146	46459	10.08	ng		98
14) 1,4-Dichlorobenzene	...	4.372	146	47577	10.22	ng		99
15) 1,2-Dichlorobenzene	...	4.565	146	44602	10.28	ng		98
16) Benzyl alcohol	...	4.565	108	24783	9.55	ng		94
17) Bis(2-chloroisopropyl)ether	...	4.762	45	42714	10.91	ng		94
18) 2-Methylphenol	...	4.746	107	30086	9.91	ng		98
19) 3,4-Methylphenol	...	4.949	107	79721	20.19	ng		98
20) N-Nitrosodi-n-propylamine	...	4.923	70	25305	10.16	ng		95
21) N-Nitrosodimethylamine	...	1.514	42	13815	10.23	ng		87
22) Hexachloroethane	...	4.992	117	16448	10.01	ng		94
25) Acetophenone	...	4.890	105	104207	20.62	ng		98
26) Nitrobenzene	...	5.088	123	18975	9.72	ng		94
27) N-Nitrosopiperidine	...	5.275	114	18902	9.82	ng		92
28) Isophorone	...	5.403	82	71378	10.02	ng		98
29) 2-Nitrophenol	...	5.494	139	15677	8.39	ng		96
30) 2,4-Dimethylphenol	...	5.612	122	33650	9.74	ng		95
31) Bis(2-chloroethoxy)methane	...	5.719	93	45124	10.07	ng		99
32) 2,4-Dichlorophenol	...	5.799	162	31262	9.45	ng		99
33) 1,2,4-Trichlorobenzene	...	5.889	180	37885	10.15	ng		99
34) Naphthalene	...	5.964	128	121772	10.43	ng		100
35) Benzoic acid	...	5.735	122	1777	36.28	ng	#	30
36) 2,6-Dichlorophenol	...	6.071	162	31387	9.74	ng		99
37) 4-Chloroaniline	...	6.066	127	49343	10.07	ng		97
38) Hexachlorobutadiene	...	6.162	225	21456	10.10	ng		99
39) a,a-Dimethylphenethylamine	...	5.788	58	79937	8.94	ng		85
40) Caprolactam	...	6.456	113	11045	8.81	ng	#	71

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042210.D
Acq On : 22 Apr 2021 10:12 am
Operator : YH
Sample : bna10 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 23 14:34:46 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Thu Apr 22 15:10:47 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.696	107	29440	9.33	ng		94
42) N-Nitroso-di-n-butylamine	6.509	84	23864	8.57	ng		83
43) 2-Methylnaphthalene	6.803	141	69170	10.22	ng		98
44) 1-Methylnaphthalene	6.915	141	67831	10.20	ng		99
46) 1,2,4,5-Tetrachlorobenzene	7.006	216	37087	10.34	ng		99
47) Hexachlorocyclopentadiene	7.011	237	17355	8.78	ng		99
48) 2,4,6-Trichlorophenol	7.156	196	20665	8.94	ng		98
49) 2,4,5-Trichlorophenol	7.193	196	23293	9.00	ng		98
51) Biphenyl	7.359	154	97309	10.80	ng		98
52) 2-Chloronaphthalene	7.359	162	77537	10.26	ng		98
53) 1-Chloronaphthalene	7.380	162	70619	10.34	ng		99
54) 2-Nitroaniline	7.497	65	15078	8.50	ng		96
55) 3-Nitroaniline	7.968	138	17352	8.26	ng		96
56) Pentachlorobenzene	8.192	250	31697	10.01	ng		99
57) 4-Nitroaniline	8.657	138	18143	8.32	ng		98
58) 2-Naphthylamine	8.315	143	74460	9.80	ng		97
59) 1-Naphthylamine	8.406	143	82964	10.21	ng		97
60) Dimethyl phthalate	7.749	163	81417	9.94	ng		99
61) Acenaphthylene	7.823	152	114714	10.13	ng		100
62) 2,6-Dinitrotoluene	7.791	165	13374	7.81	ng		98
63) Acenaphthene	8.026	154	70748	10.31	ng		99
64) 2,4-Dinitrophenol	8.090	184	2676	22.16	ng		83
65) Dibenzofuran	8.229	168	108274	10.27	ng		92
66) 4-Nitrophenol	8.208	109	9513	9.26	ng	#	72
67) 2,4-Dinitrotoluene	8.240	165	18012	7.56	ng	#	71
68) 2,3,4,6-Tetrachlorophenol	8.390	232	15111	8.30	ng		99
69) Diethyl phthalate	8.555	149	77542	9.77	ng		99
70) Fluorene	8.614	166	88205	10.05	ng		100
71) 4-Chlorophenyl phenyl ether	8.641	204	42447	10.07	ng		99
74) 4,6-Dinitro-2-methylphenol	8.694	198	5455	16.33	ng		97
75) Azobenzene	8.817	77	71933	10.01	ng		99
76) 1,2-Diphenylhydrazine	8.817	182	21910	9.98	ng		99
77) Diphenylamine	8.780	170	15521	10.14	ng	#	95
78) N-Nitrosodiphenylamine	8.780	168	75065	10.40	ng		99
79) 4-Bromophenyl phenyl ether	9.186	248	24262	9.99	ng		97
80) Phenacetin	9.153	108	32687	8.84	ng		99
81) Hexachlorobenzene	9.234	284	25545	9.82	ng		95
82) Atrazine	9.410	200	21139	9.36	ng		95
83) 4-Aminobiphenyl	9.474	169	89175	9.75	ng		98
84) Pentachlorophenol	9.469	266	10557	7.33	ng		96
85) Pentachloronitrobenzene	9.479	237	7965	8.43	ng		92
86) Pronamide	9.586	173	29454	8.96	ng		100
87) Phenanthrene	9.677	178	127077	10.32	ng		100
88) Anthracene	9.730	178	124256	10.03	ng		100
89) Carbazole	9.933	167	110966	9.99	ng		99
90) Di-n-butyl phthalate	10.393	149	122019	9.26	ng		99
91) Fluoranthene	10.997	202	133209	9.72	ng		99
93) Pyrene	11.242	202	140502	10.09	ng		99
95) Benzidine	11.184	184	51698	9.93	ng		96
96) p-Dimethylaminoazobenzene	11.632	225	22361	8.10	ng		98
97) Butyl benzyl phthalate	12.049	149	48977	8.57	ng		98
98) Benz(a)anthracene	12.583	228	126218	9.67	ng		100
99) 3,3'-Dichlorobenzidine	12.589	252	46237	9.73	ng		98
100) Chrysene	12.621	228	135622	10.01	ng		99
101) Bis(2-ethylhexyl)phthalate	12.722	149	65579	8.66	ng		100
102) Di-n-octyl phthalate	13.406	149	94886	7.50	ng	#	98
103) 3-Methylcholanthrene	14.335	268	35934	8.11	ng		98

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042210.D
Acq On : 22 Apr 2021 10:12 am
Operator : YH
Sample : bna10 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 8 Sample Multiplier: 1

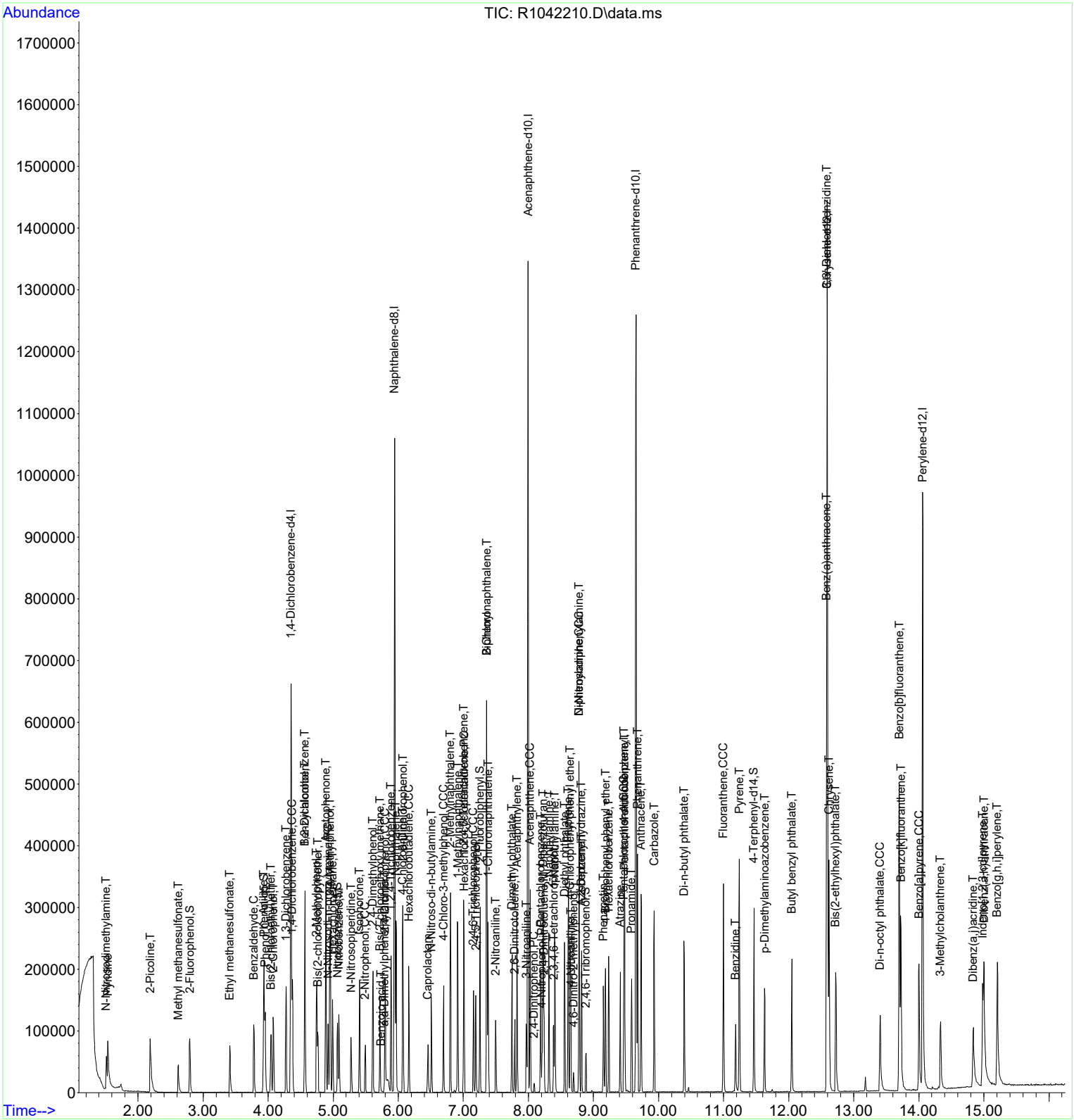
Quant Time: Apr 23 14:34:46 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Thu Apr 22 15:10:47 2021
Response via : Initial Calibration

Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	14.982	276	130677	8.60	ng	99
106) Benzo[b]fluoranthene	...	13.700	252	113616	8.77	ng	98
107) Benzo[k]fluoranthene	...	13.726	252	141550	10.97	ng	97
108) Benzo[a]pyrene	...	14.004	252	100958	8.89	ng	98
109) Dibenz(a,j)acridine	...	14.838	279	78217	8.04	ng	98
110) Dibenz(a,h)anthracene	...	15.003	278	107471	9.00	ng	94
111) Benzo[g,h,i]perylene	...	15.206	276	112279	9.22	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042210.D
Acq On : 22 Apr 2021 10:12 am
Operator : YH
Sample : bna10 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 23 14:34:46 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Thu Apr 22 15:10:47 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042211.D
Acq On : 22 Apr 2021 10:40 am
Operator : YH
Sample : bna20 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 23 14:37:40 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:37:28 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.352	152	116520	40.00	ng		0.00
23) Naphthalene-d8	5.944	136	455343	40.00	ng		0.00
45) Acenaphthene-d10	7.995	164	264328	40.00	ng		0.00
73) Phenanthrene-d10	9.656	188	460811	40.00	ng		0.00
92) Chrysene-d12	12.595	240	413166	40.00	ng		0.00
105) Perylene-d12	14.064	264	398165	40.00	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	2.797	112	70482	19.39	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 19.39%#				
9) Phenol-d5	3.940	99	86803	19.67	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 19.67%				
24) Nitrobenzene-d5	5.067	82	67904	19.25	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 38.50%				
50) 2-Fluorobiphenyl	7.258	172	172265	20.18	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 40.36%#				
72) 2,4,6-Tribromophenol	8.887	330	17460	17.08	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 17.08%				
94) 4-Terphenyl-d14	11.467	244	198105	19.40	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 38.80%				
Target Compounds							Qvalue
2) Pyridine	1.531	79	90684	20.29	ng		98
3) 2-Picoline	2.183	93	92248	20.33	ng		98
4) Methyl methanesulfonate	2.615	80	37653	19.86	ng		96
6) Ethyl methanesulfonate	3.411	79	58043	19.62	ng		98
7) Benzaldehyde	3.780	105	48983	20.78	ng		98
8) Aniline	3.930	66	44876	20.04	ng		91
10) Phenol	3.956	94	106452	19.88	ng	#	56
11) Bis(2-chloroethyl)ether	4.042	93	75473	19.87	ng		98
12) 2-Chlorophenol	4.079	128	80084	19.53	ng		99
13) 1,3-Dichlorobenzene	4.277	146	92690	19.82	ng		98
14) 1,4-Dichlorobenzene	4.373	146	94609	20.02	ng		99
15) 1,2-Dichlorobenzene	4.565	146	88310	20.05	ng		99
16) Benzyl alcohol	4.565	108	50801	19.29	ng		93
17) Bis(2-chloroisopropyl)ether	4.763	45	83536	21.03	ng		95
18) 2-Methylphenol	4.747	107	60420	19.61	ng		97
19) 3,4-Methylphenol	4.955	107	161256	40.24	ng		98
20) N-Nitrosodi-n-propylamine	4.923	70	50970	20.16	ng		96
21) N-Nitrosodimethylamine	1.510	42	26800	19.55	ng		86
22) Hexachloroethane	4.993	117	33208	19.92	ng		97
25) Acetophenone	4.891	105	208173	40.31	ng		98
26) Nitrobenzene	5.089	123	38165	19.13	ng		94
27) N-Nitrosopiperidine	5.276	114	38381	19.51	ng		92
28) Isophorone	5.404	82	143418	19.71	ng		98
29) 2-Nitrophenol	5.495	139	33343	17.46	ng		95
30) 2,4-Dimethylphenol	5.612	122	68867	19.51	ng		95
31) Bis(2-chloroethoxy)methane	5.719	93	89337	19.51	ng		99
32) 2,4-Dichlorophenol	5.799	162	64585	19.12	ng		99
33) 1,2,4-Trichlorobenzene	5.890	180	74777	19.62	ng		100
34) Naphthalene	5.965	128	239798	20.11	ng		100
35) Benzoic acid	5.794	122	3128	37.26	ng		84
36) 2,6-Dichlorophenol	6.072	162	63162	19.19	ng		99
37) 4-Chloroaniline	6.066	127	98986	19.76	ng		98
38) Hexachlorobutadiene	6.163	225	42087	19.38	ng		99
39) a,a-Dimethylphenethylamine	5.831	58	172629	18.89	ng	#	79
40) Caprolactam	6.478	113	23957	18.70	ng	#	69

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042211.D
Acq On : 22 Apr 2021 10:40 am
Operator : YH
Sample : bna20 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 23 14:37:40 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:37:28 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.697	107	60887	18.88	ng		95
42) N-Nitroso-di-n-butylamine	6.510	84	48528	17.05	ng		84
43) 2-Methylnaphthalene	6.804	141	137094	19.83	ng		99
44) 1-Methylnaphthalene	6.916	141	135374	19.93	ng		100
46) 1,2,4,5-Tetrachlorobenzene	7.007	216	74263	20.31	ng		98
47) Hexachlorocyclopentadiene	7.012	237	36716	18.23	ng		99
48) 2,4,6-Trichlorophenol	7.156	196	43687	18.55	ng		97
49) 2,4,5-Trichlorophenol	7.194	196	49532	18.78	ng		98
51) Biphenyl	7.359	154	190938	20.79	ng		98
52) 2-Chloronaphthalene	7.359	162	154055	20.00	ng		98
53) 1-Chloronaphthalene	7.381	162	143208	20.57	ng		99
54) 2-Nitroaniline	7.498	65	32855	18.17	ng		96
55) 3-Nitroaniline	7.974	138	38088	17.80	ng		98
56) Pentachlorobenzene	8.193	250	63271	19.62	ng		98
57) 4-Nitroaniline	8.657	138	39501	17.79	ng		97
58) 2-Naphthylamine	8.315	143	154561	19.96	ng		98
59) 1-Naphthylamine	8.412	143	164592	19.88	ng		98
60) Dimethyl phthalate	7.749	163	162871	19.51	ng		100
61) Acenaphthylene	7.824	152	227942	19.76	ng		100
62) 2,6-Dinitrotoluene	7.792	165	30574	17.52	ng		100
63) Acenaphthene	8.027	154	140314	20.07	ng		98
64) 2,4-Dinitrophenol	8.091	184	7043	26.36	ng		88
65) Dibenzofuran	8.230	168	217276	20.23	ng		95
66) 4-Nitrophenol	8.214	109	18059	17.25	ng	#	54
67) 2,4-Dinitrotoluene	8.246	165	41522	17.11	ng	#	76
68) 2,3,4,6-Tetrachlorophenol	8.390	232	32341	17.43	ng		99
69) Diethyl phthalate	8.561	149	156757	19.38	ng		99
70) Fluorene	8.615	166	179708	20.10	ng		99
71) 4-Chlorophenyl phenyl ether	8.641	204	84631	19.70	ng		100
74) 4,6-Dinitro-2-methylphenol	8.700	198	13975	21.75	ng		99
75) Azobenzene	8.818	77	145052	19.80	ng		100
76) 1,2-Diphenylhydrazine	8.818	182	44139	19.71	ng		99
77) Diphenylamine	8.780	170	31369	20.10	ng		98
78) N-Nitrosodiphenylamine	8.780	168	149514	20.31	ng		99
79) 4-Bromophenyl phenyl ether	9.186	248	49364	19.94	ng		97
80) Phenacetin	9.160	108	70613	18.74	ng		100
81) Hexachlorobenzene	9.234	284	52150	19.66	ng		97
82) Atrazine	9.416	200	46035	19.99	ng		97
83) 4-Aminobiphenyl	9.475	169	187999	20.17	ng		99
84) Pentachlorophenol	9.469	266	24654	16.79	ng		96
85) Pentachloronitrobenzene	9.485	237	17702	18.37	ng		95
86) Pronamide	9.587	173	62831	18.74	ng		99
87) Phenanthrene	9.678	178	254880	20.31	ng		100
88) Anthracene	9.736	178	255057	20.20	ng		100
89) Carbazole	9.934	167	224109	19.78	ng		100
90) Di-n-butyl phthalate	10.399	149	259037	19.27	ng		99
91) Fluoranthene	11.003	202	272847	19.53	ng		99
93) Pyrene	11.243	202	289660	20.16	ng		99
95) Benzidine	11.184	184	107465	19.99	ng		98
96) p-Dimethylaminoazobenzene	11.628	225	50166	17.62	ng		96
97) Butyl benzyl phthalate	12.050	149	107653	18.24	ng		98
98) Benz(a)anthracene	12.584	228	259816	19.30	ng		100
99) 3,3'-Dichlorobenzidine	12.589	252	98140	20.01	ng		99
100) Chrysene	12.621	228	276324	19.77	ng		100
101) Bis(2-ethylhexyl)phthalate	12.723	149	144978	18.56	ng		99
102) Di-n-octyl phthalate	13.407	149	220593	16.90	ng		99
103) 3-Methylcholanthrene	14.336	268	79935	17.48	ng		96

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042211.D
Acq On : 22 Apr 2021 10:40 am
Operator : YH
Sample : bna20 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 23 14:37:40 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:37:28 2021
Response via : Initial Calibration

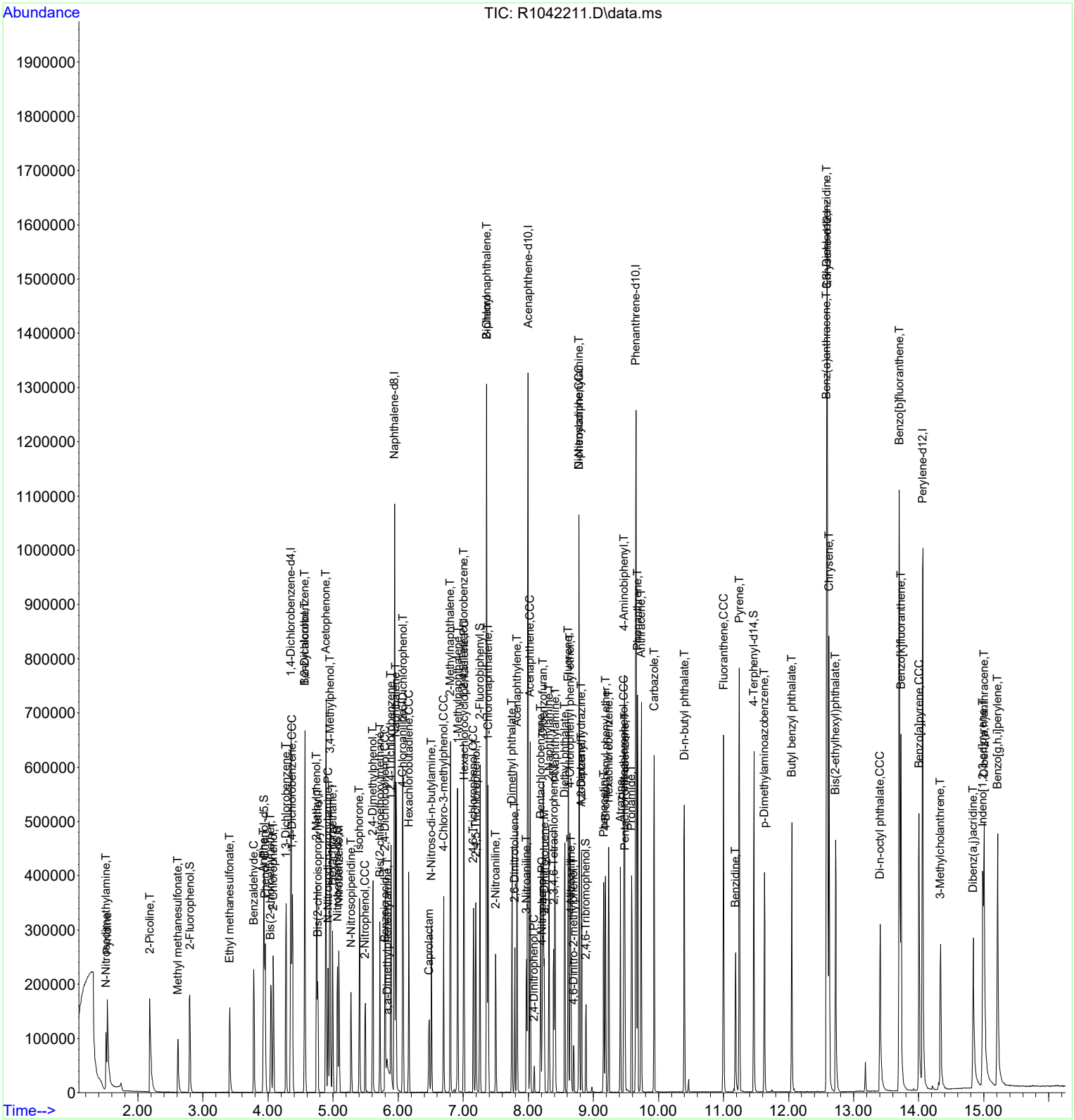
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	... 14.982	276	285489	18.21	ng	98
106) Benzo[b]fluoranthene	... 13.700	252	243939	18.23	ng	98
107) Benzo[k]fluoranthene	... 13.727	252	290964	21.82	ng	99
108) Benzo[a]pyrene	... 14.005	252	219152	18.67	ng	99
109) Dibenz(a,j)acridine	... 14.838	279	174607	17.38	ng	100
110) Dibenz(a,h)anthracene	... 15.004	278	234386	18.99	ng	98
111) Benzo[g,h,i]perylene	... 15.212	276	244292	19.41	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042211.D
Acq On : 22 Apr 2021 10:40 am
Operator : YH
Sample : bna20 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 23 14:37:40 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:37:28 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042212.D
Acq On : 22 Apr 2021 11:08 am
Operator : YH
Sample : bna40 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 23 14:39:51 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:39:43 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.352	152	113919	40.00	ng		0.00
23) Naphthalene-d8	...	5.944	136	441464	40.00	ng		0.00
45) Acenaphthene-d10	...	7.995	164	256813	40.00	ng		0.00
73) Phenanthrene-d10	...	9.657	188	455513	40.00	ng		0.00
92) Chrysene-d12	...	12.600	240	418035	40.00	ng		0.00
105) Perylene-d12	...	14.064	264	409946	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.792	112	143468	40.37	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 40.37%					
9) Phenol-d5	...	3.941	99	175320	40.63	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 40.63%					
24) Nitrobenzene-d5	...	5.068	82	138228	40.43	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 80.86%					
50) 2-Fluorobiphenyl	...	7.258	172	341482	41.18	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 82.36%					
72) 2,4,6-Tribromophenol	...	8.888	330	39044	39.31	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 39.31%					
94) 4-Terphenyl-d14	...	11.468	244	416398	40.30	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 80.60%					
Target Compounds								Qvalue
2) Pyridine	...	1.526	79	182197	41.69	ng		98
3) 2-Picoline	...	2.173	93	182214	41.08	ng		98
4) Methyl methanesulfonate	...	2.611	80	74666	40.26	ng		95
6) Ethyl methanesulfonate	...	3.412	79	116604	40.31	ng		98
7) Benzaldehyde	...	3.781	105	95040	41.24	ng		99
8) Aniline	...	3.930	66	87598	40.02	ng	#	87
10) Phenol	...	3.962	94	213695	40.81	ng	#	58
11) Bis(2-chloroethyl)ether	...	4.048	93	153625	41.37	ng		99
12) 2-Chlorophenol	...	4.080	128	161370	40.26	ng		99
13) 1,3-Dichlorobenzene	...	4.277	146	187975	41.12	ng		99
14) 1,4-Dichlorobenzene	...	4.374	146	187941	40.67	ng		98
15) 1,2-Dichlorobenzene	...	4.566	146	176941	41.09	ng		99
16) Benzyl alcohol	...	4.566	108	105002	40.79	ng		93
17) Bis(2-chloroisopropyl)ether	...	4.763	45	164169	42.27	ng		96
18) 2-Methylphenol	...	4.753	107	123501	40.99	ng		97
19) 3,4-Methylphenol	...	4.961	107	323534	82.58	ng		98
20) N-Nitrosodi-n-propylamine	...	4.924	70	101463	41.05	ng		95
21) N-Nitrosodimethylamine	...	1.510	42	55892	41.71	ng		85
22) Hexachloroethane	...	4.993	117	66335	40.70	ng		97
25) Acetophenone	...	4.892	105	410332	81.96	ng		98
26) Nitrobenzene	...	5.095	123	78323	40.49	ng		94
27) N-Nitrosopiperidine	...	5.282	114	76925	40.33	ng		91
28) Isophorone	...	5.410	82	289238	41.01	ng		97
29) 2-Nitrophenol	...	5.495	139	72816	39.33	ng		94
30) 2,4-Dimethylphenol	...	5.613	122	140116	40.94	ng		95
31) Bis(2-chloroethoxy)methane	...	5.720	93	182652	41.15	ng		100
32) 2,4-Dichlorophenol	...	5.805	162	133921	40.88	ng		99
33) 1,2,4-Trichlorobenzene	...	5.891	180	150621	40.76	ng		100
34) Naphthalene	...	5.971	128	478611	41.40	ng		100
35) Benzoic acid	...	5.714	122	8275	41.31	ng	#	69
36) 2,6-Dichlorophenol	...	6.078	162	130224	40.81	ng		99
37) 4-Chloroaniline	...	6.072	127	200275	41.25	ng		98
38) Hexachlorobutadiene	...	6.163	225	86247	40.97	ng		99
39) a,a-Dimethylphenethylamine	...	5.869	58	361371	40.79	ng		78
40) Caprolactam	...	6.505	113	50273	40.47	ng		94

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042212.D
Acq On : 22 Apr 2021 11:08 am
Operator : YH
Sample : bna40 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 23 14:39:51 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:39:43 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.703	107	126092	40.33	ng		94
42) N-Nitroso-di-n-butylamine	6.516	84	128967	46.74	ng		96
43) 2-Methylnaphthalene	6.804	141	275754	41.14	ng		99
44) 1-Methylnaphthalene	6.916	141	271500	41.23	ng		99
46) 1,2,4,5-Tetrachlorobenzene	7.007	216	146225	41.17	ng		99
47) Hexachlorocyclopentadiene	7.013	237	79410	40.57	ng		98
48) 2,4,6-Trichlorophenol	7.157	196	91506	40.00	ng		98
49) 2,4,5-Trichlorophenol	7.200	196	104603	40.81	ng		98
51) Biphenyl	7.360	154	379873	42.57	ng		98
52) 2-Chloronaphthalene	7.360	162	300638	40.17	ng		98
53) 1-Chloronaphthalene	7.386	162	293216	43.36	ng		99
54) 2-Nitroaniline	7.504	65	70742	40.27	ng		95
55) 3-Nitroaniline	7.974	138	82950	39.89	ng		95
56) Pentachlorobenzene	8.193	250	126460	40.36	ng		98
57) 4-Nitroaniline	8.669	138	86440	40.06	ng		98
58) 2-Naphthylamine	8.321	143	311478	41.40	ng		98
59) 1-Naphthylamine	8.412	143	330174	41.05	ng		98
60) Dimethyl phthalate	7.755	163	328456	40.50	ng		100
61) Acenaphthylene	7.825	152	465364	41.52	ng		100
62) 2,6-Dinitrotoluene	7.798	165	67071	39.56	ng		98
63) Acenaphthene	8.033	154	278595	41.02	ng		98
64) 2,4-Dinitrophenol	8.097	184	19753	39.31	ng		91
65) Dibenzofuran	8.231	168	432682	41.46	ng		98
66) 4-Nitrophenol	8.220	109	39664	39.00	ng	#	65
67) 2,4-Dinitrotoluene	8.252	165	93399	39.61	ng		99
68) 2,3,4,6-Tetrachlorophenol	8.391	232	71360	39.59	ng		98
69) Diethyl phthalate	8.562	149	320167	40.75	ng		99
70) Fluorene	8.615	166	356219	41.01	ng		99
71) 4-Chlorophenyl phenyl ether	8.647	204	168670	40.41	ng		99
74) 4,6-Dinitro-2-methylphenol	8.706	198	37447	37.14	ng		99
75) Azobenzene	8.818	77	292519	40.40	ng		99
76) 1,2-Diphenylhydrazine	8.824	182	89886	40.61	ng		99
77) Diphenylamine	8.786	170	63137	40.93	ng		100
78) N-Nitrosodiphenylamine	8.786	168	298496	41.02	ng		99
79) 4-Bromophenyl phenyl ether	9.187	248	98083	40.08	ng		97
80) Phenacetin	9.165	108	152978	41.07	ng		99
81) Hexachlorobenzene	9.240	284	104803	39.98	ng		96
82) Atrazine	9.422	200	92971	40.84	ng		97
83) 4-Aminobiphenyl	9.481	169	385948	41.89	ng		100
84) Pentachlorophenol	9.470	266	56360	38.82	ng		99
85) Pentachloronitrobenzene	9.486	237	38418	40.34	ng		96
86) Pronamide	9.593	173	135167	40.79	ng		100
87) Phenanthrene	9.684	178	509941	41.10	ng		100
88) Anthracene	9.737	178	516220	41.36	ng		100
89) Carbazole	9.935	167	460613	41.13	ng		100
90) Di-n-butyl phthalate	10.399	149	547610	41.22	ng		100
91) Fluoranthene	11.003	202	564655	40.88	ng		99
93) Pyrene	11.243	202	588540	40.49	ng		100
95) Benzidine	11.185	184	235177	43.24	ng		100
96) p-Dimethylaminoazobenzene	11.633	225	114937	39.90	ng		99
97) Butyl benzyl phthalate	12.050	149	235786	39.49	ng		99
98) Benz(a)anthracene	12.590	228	547955	40.22	ng		100
99) 3,3'-Dichlorobenzidine	12.590	252	210229	42.36	ng		100
100) Chrysene	12.627	228	573669	40.56	ng		99
101) Bis(2-ethylhexyl)phthalate	12.723	149	325323	41.16	ng		100
102) Di-n-octyl phthalate	13.407	149	522010	39.52	ng		99
103) 3-Methylcholanthrene	14.342	268	180601	39.02	ng		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042212.D
Acq On : 22 Apr 2021 11:08 am
Operator : YH
Sample : bna40 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 23 14:39:51 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:39:43 2021
Response via : Initial Calibration

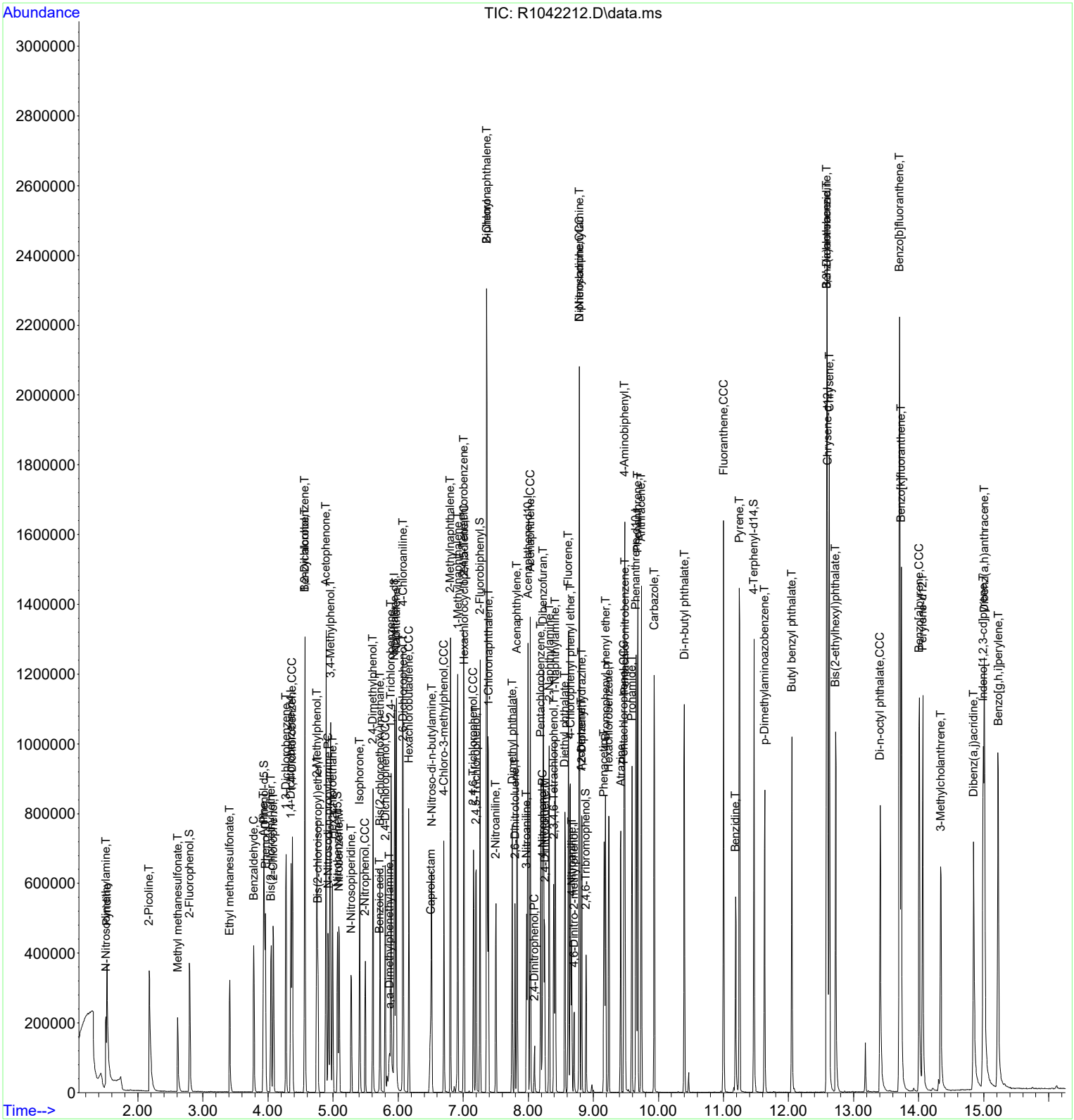
Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	14.994	276	626449	39.49	ng	97
106) Benzo[b]fluoranthene	...	13.706	252	546896	39.70	ng	98
107) Benzo[k]fluoranthene	...	13.733	252	594910	43.34	ng	100
108) Benzo[a]pyrene	...	14.011	252	483570	40.01	ng	99
109) Dibenz(a,j)acridine	...	14.844	279	408553	39.49	ng	100
110) Dibenz(a,h)anthracene	...	15.010	278	518318	40.79	ng	98
111) Benzo[g,h,i]perylene	...	15.223	276	530672	40.96	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042212.D
Acq On : 22 Apr 2021 11:08 am
Operator : YH
Sample : bna40 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 23 14:39:51 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:39:43 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042213.D
Acq On : 22 Apr 2021 11:35 am
Operator : YH
Sample : bna60 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 23 14:42:32 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:41:55 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.352	152	110518	40.00	ng		0.00
23) Naphthalene-d8	5.944	136	429441	40.00	ng		0.00
45) Acenaphthene-d10	7.995	164	252293	40.00	ng		0.00
73) Phenanthrene-d10	9.657	188	446269	40.00	ng		0.00
92) Chrysene-d12	12.600	240	411562	40.00	ng		0.00
105) Perylene-d12	14.064	264	404850	40.00	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	2.797	112	209968	60.90	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 60.90%				
9) Phenol-d5	3.946	99	252737	60.37	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 60.37%				
24) Nitrobenzene-d5	5.073	82	201194	60.49	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 120.98%#				
50) 2-Fluorobiphenyl	7.264	172	496574	60.95	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 121.90%#				
72) 2,4,6-Tribromophenol	8.893	330	59410	60.89	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 60.89%				
94) 4-Terphenyl-d14	11.473	244	621889	61.13	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 122.26%				
Target Compounds							Qvalue
2) Pyridine	1.521	79	254452	60.02	ng		98
3) 2-Picoline	2.172	93	253819	58.98	ng		98
4) Methyl methanesulfonate	2.611	80	108808	60.48	ng		95
6) Ethyl methanesulfonate	3.412	79	170148	60.62	ng		98
7) Benzaldehyde	3.780	105	124159	55.53	ng		99
8) Aniline	3.935	66	132320	62.31	ng		93
10) Phenol	3.962	94	307787	60.59	ng	#	57
11) Bis(2-chloroethyl)ether	4.048	93	219761	61.00	ng		99
12) 2-Chlorophenol	4.085	128	236092	60.72	ng		99
13) 1,3-Dichlorobenzene	4.277	146	269485	60.76	ng		99
14) 1,4-Dichlorobenzene	4.373	146	273932	61.10	ng		99
15) 1,2-Dichlorobenzene	4.566	146	254287	60.87	ng		99
16) Benzyl alcohol	4.571	108	152755	61.16	ng		92
17) Bis(2-chloroisopropyl)ether	4.769	45	233066	61.86	ng		97
18) 2-Methylphenol	4.753	107	178845	61.19	ng		97
19) 3,4-Methylphenol	4.966	107	463812	122.02	ng		98
20) N-Nitrosodi-n-propylamine	4.929	70	148990	62.13	ng		94
21) N-Nitrosodimethylamine	1.510	42	79633	61.25	ng	#	85
22) Hexachloroethane	4.993	117	96287	60.89	ng		97
25) Acetophenone	4.897	105	595321	122.24	ng		97
26) Nitrobenzene	5.095	123	113896	60.53	ng		94
27) N-Nitrosopiperidine	5.282	114	113790	61.34	ng		90
28) Isophorone	5.410	82	419389	61.13	ng		97
29) 2-Nitrophenol	5.495	139	110279	61.24	ng		94
30) 2,4-Dimethylphenol	5.618	122	205432	61.71	ng		95
31) Bis(2-chloroethoxy)methane	5.725	93	264621	61.28	ng		99
32) 2,4-Dichlorophenol	5.805	162	195301	61.29	ng		98
33) 1,2,4-Trichlorobenzene	5.896	180	219231	60.98	ng		100
34) Naphthalene	5.971	128	686916	61.08	ng		100
35) Benzoic acid	5.746	122	29676	58.55	ng	#	67
36) 2,6-Dichlorophenol	6.078	162	190108	61.25	ng		99
37) 4-Chloroaniline	6.072	127	291605	61.74	ng		98
38) Hexachlorobutadiene	6.163	225	125103	61.09	ng		99
39) a,a-Dimethylphenethylamine	5.891	58	531294	61.65	ng		95
40) Caprolactam	6.521	113	74618	61.75	ng		94

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042213.D
Acq On : 22 Apr 2021 11:35 am
Operator : YH
Sample : bna60 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 23 14:42:32 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:41:55 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.708	107	187287	61.57	ng		95
42) N-Nitroso-di-n-butylamine	6.516	84	187538	69.87	ng		96
43) 2-Methylnaphthalene	6.804	141	401412	61.56	ng		99
44) 1-Methylnaphthalene	6.916	141	392138	61.22	ng		99
46) 1,2,4,5-Tetrachlorobenzene	7.007	216	211125	60.51	ng		99
47) Hexachlorocyclopentadiene	7.012	237	120018	62.42	ng		97
48) 2,4,6-Trichlorophenol	7.162	196	138388	61.57	ng		97
49) 2,4,5-Trichlorophenol	7.199	196	155748	61.85	ng		98
51) Biphenyl	7.365	154	537627	61.33	ng		98
52) 2-Chloronaphthalene	7.365	162	451473	61.41	ng		98
53) 1-Chloronaphthalene	7.386	162	402082	60.51	ng		99
54) 2-Nitroaniline	7.504	65	106193	61.54	ng		93
55) 3-Nitroaniline	7.979	138	125350	61.37	ng		96
56) Pentachlorobenzene	8.193	250	185419	60.23	ng		99
57) 4-Nitroaniline	8.674	138	131334	61.95	ng		96
58) 2-Naphthylamine	8.321	143	451553	61.09	ng		99
59) 1-Naphthylamine	8.417	143	480445	60.80	ng		98
60) Dimethyl phthalate	7.755	163	482023	60.50	ng		100
61) Acenaphthylene	7.830	152	671391	60.98	ng		99
62) 2,6-Dinitrotoluene	7.798	165	102720	61.67	ng		98
63) Acenaphthene	8.033	154	405926	60.83	ng		99
64) 2,4-Dinitrophenol	8.102	184	34819	55.05	ng		90
65) Dibenzofuran	8.236	168	630702	61.51	ng		99
66) 4-Nitrophenol	8.225	109	61679	61.73	ng	#	72
67) 2,4-Dinitrotoluene	8.252	165	144188	62.25	ng		98
68) 2,3,4,6-Tetrachlorophenol	8.396	232	108588	61.32	ng		99
69) Diethyl phthalate	8.567	149	468546	60.70	ng		99
70) Fluorene	8.620	166	524070	61.42	ng		99
71) 4-Chlorophenyl phenyl ether	8.647	204	248775	60.66	ng		99
74) 4,6-Dinitro-2-methylphenol	8.711	198	62665	54.42	ng		99
75) Azobenzene	8.823	77	424888	59.90	ng		99
76) 1,2-Diphenylhydrazine	8.823	182	131583	60.69	ng		98
77) Diphenylamine	8.791	170	92905	61.47	ng		98
78) N-Nitrosodiphenylamine	8.791	168	434762	60.99	ng		100
79) 4-Bromophenyl phenyl ether	9.187	248	144917	60.44	ng		98
80) Phenacetin	9.171	108	229212	62.81	ng		99
81) Hexachlorobenzene	9.240	284	154796	60.27	ng		96
82) Atrazine	9.422	200	136663	61.27	ng		97
83) 4-Aminobiphenyl	9.480	169	568217	62.94	ng		100
84) Pentachlorophenol	9.475	266	89012	62.59	ng		99
85) Pentachloronitrobenzene	9.491	237	58121	62.29	ng		95
86) Pronamide	9.598	173	200382	61.72	ng		99
87) Phenanthrene	9.684	178	743880	61.19	ng		99
88) Anthracene	9.742	178	750104	61.35	ng		99
89) Carbazole	9.940	167	670746	61.14	ng		99
90) Di-n-butyl phthalate	10.399	149	809721	62.21	ng		100
91) Fluoranthene	11.003	202	838055	61.93	ng		99
93) Pyrene	11.249	202	868167	60.66	ng		100
95) Benzidine	11.185	184	339935	63.49	ng		100
96) p-Dimethylaminoazobenzene	11.633	225	173998	61.35	ng		99
97) Butyl benzyl phthalate	12.050	149	366109	62.28	ng		98
98) Benz(a)anthracene	12.590	228	826468	61.62	ng		99
99) 3,3'-Dichlorobenzidine	12.595	252	310824	63.62	ng		99
100) Chrysene	12.632	228	842907	60.54	ng		99
101) Bis(2-ethylhexyl)phthalate	12.729	149	501127	64.40	ng		100
102) Di-n-octyl phthalate	13.412	149	814916	62.67	ng		100
103) 3-Methylcholanthrene	14.342	268	280388	61.54	ng		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042213.D
Acq On : 22 Apr 2021 11:35 am
Operator : YH
Sample : bna60 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 23 14:42:32 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:41:55 2021
Response via : Initial Calibration

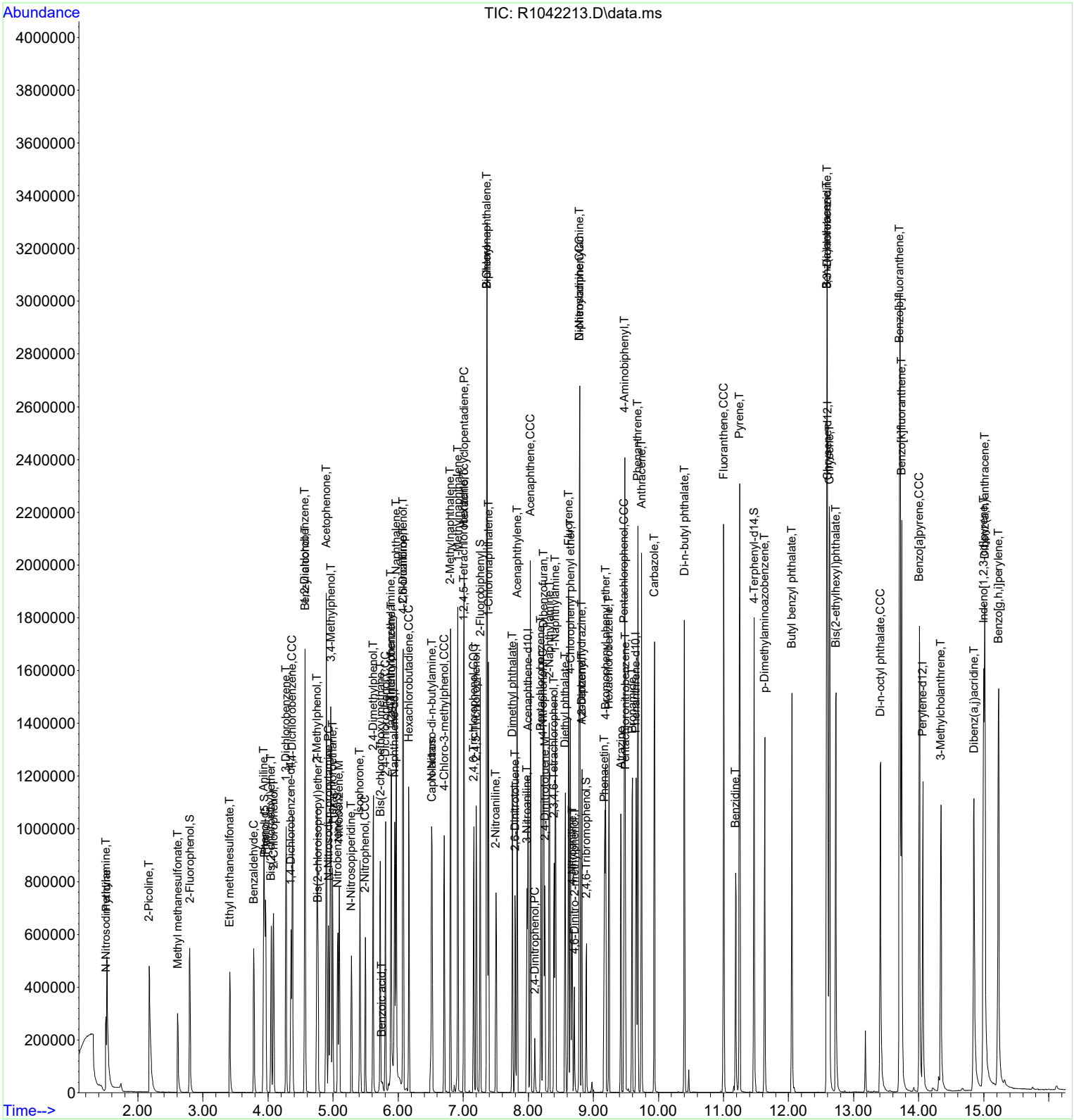
Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	14.999	276	961253	61.55	ng	97
106) Benzo[b]fluoranthene	...	13.706	252	840888	61.80	ng	98
107) Benzo[k]fluoranthene	...	13.738	252	862289	63.61	ng	99
108) Benzo[a]pyrene	...	14.011	252	773340	64.79	ng	99
109) Dibenz(a,j)acridine	...	14.849	279	641426	62.78	ng	99
110) Dibenz(a,h)anthracene	...	15.015	278	796552	63.48	ng	99
111) Benzo[g,h,i]perylene	...	15.229	276	817480	63.89	ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042213.D
Acq On : 22 Apr 2021 11:35 am
Operator : YH
Sample : bna60 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 23 14:42:32 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:41:55 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042214.D
Acq On : 22 Apr 2021 12:56 pm
Operator : YH
Sample : bna80 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 23 14:45:47 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:44:19 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.352	152	108823	40.00	ng		0.00
23) Naphthalene-d8	5.949	136	424413	40.00	ng		0.00
45) Acenaphthene-d10	7.995	164	251142	40.00	ng		0.00
73) Phenanthrene-d10	9.662	188	446687	40.00	ng		0.00
92) Chrysene-d12	12.600	240	411198	40.00	ng		0.00
105) Perylene-d12	14.064	264	445891	40.00	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	2.797	112	276618	81.48	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 81.48%				
9) Phenol-d5	3.951	99	334775	81.21	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 81.21%				
24) Nitrobenzene-d5	5.073	82	273231	83.12	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 166.24%#				
50) 2-Fluorobiphenyl	7.263	172	653084	80.53	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 161.06%#				
72) 2,4,6-Tribromophenol	8.898	330	84065	86.55	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 86.55%				
94) 4-Terphenyl-d14	11.473	244	830825	81.74	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 163.48%#				
Target Compounds							Qvalue
2) Pyridine	1.520	79	330540	79.18	ng		97
3) 2-Picoline	2.172	93	340094	80.26	ng		99
4) Methyl methanesulfonate	2.615	80	143298	80.89	ng		95
6) Ethyl methanesulfonate	3.417	79	223434	80.85	ng		98
7) Benzaldehyde	3.780	105	140483	63.81	ng		98
8) Aniline	3.935	66	164995	78.91	ng	#	89
10) Phenol	3.967	94	405022	80.98	ng	#	58
11) Bis(2-chloroethyl)ether	4.052	93	282102	79.53	ng		98
12) 2-Chlorophenol	4.084	128	312336	81.58	ng		99
13) 1,3-Dichlorobenzene	4.277	146	354241	81.11	ng		99
14) 1,4-Dichlorobenzene	4.378	146	355480	80.53	ng		99
15) 1,2-Dichlorobenzene	4.571	146	331482	80.58	ng		99
16) Benzyl alcohol	4.576	108	202293	82.26	ng		92
17) Bis(2-chloroisopropyl)ether	4.768	45	290201	78.23	ng		98
18) 2-Methylphenol	4.758	107	234027	81.32	ng		97
19) 3,4-Methylphenol	4.971	107	614188	164.10	ng		98
20) N-Nitrosodi-n-propylamine	4.934	70	196408	83.18	ng		95
21) N-Nitrosodimethylamine	1.510	42	100815	78.75	ng	#	83
22) Hexachloroethane	4.993	117	128529	82.55	ng		98
25) Acetophenone	4.902	105	772666	160.54	ng		97
26) Nitrobenzene	5.099	123	154579	83.13	ng		92
27) N-Nitrosopiperidine	5.286	114	150798	82.25	ng		89
28) Isophorone	5.415	82	546016	80.52	ng		98
29) 2-Nitrophenol	5.500	139	156377	87.86	ng		94
30) 2,4-Dimethylphenol	5.618	122	269218	81.83	ng		96
31) Bis(2-chloroethoxy)methane	5.724	93	345845	81.04	ng		100
32) 2,4-Dichlorophenol	5.810	162	262603	83.39	ng		98
33) 1,2,4-Trichlorobenzene	5.895	180	289293	81.43	ng		100
34) Naphthalene	5.970	128	896157	80.63	ng		99
35) Benzoic acid	5.773	122	53392	78.66	ng		78
36) 2,6-Dichlorophenol	6.082	162	253580	82.66	ng		99
37) 4-Chloroaniline	6.077	127	380942	81.61	ng		97
38) Hexachlorobutadiene	6.168	225	164116	81.10	ng		99
39) a,a-Dimethylphenethylamine	5.917	58	704679	82.73	ng		95
40) Caprolactam	6.542	113	100268	83.95	ng		93

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042214.D
Acq On : 22 Apr 2021 12:56 pm
Operator : YH
Sample : bna80 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 23 14:45:47 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:44:19 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.713	107	250292	83.26	ng		94
42) N-Nitroso-di-n-butylamine	6.520	84	245619	92.59	ng		96
43) 2-Methylnaphthalene	6.809	141	525521	81.55	ng		98
44) 1-Methylnaphthalene	6.916	141	510681	80.66	ng		99
46) 1,2,4,5-Tetrachlorobenzene	7.012	216	278520	80.19	ng		99
47) Hexachlorocyclopentadiene	7.017	237	164586	85.99	ng		97
48) 2,4,6-Trichlorophenol	7.161	196	187938	84.00	ng		97
49) 2,4,5-Trichlorophenol	7.204	196	209007	83.39	ng		99
51) Biphenyl	7.364	154	701932	80.44	ng		98
52) 2-Chloronaphthalene	7.364	162	569406	77.80	ng		99
53) 1-Chloronaphthalene	7.391	162	556737	84.17	ng		99
54) 2-Nitroaniline	7.509	65	146792	85.46	ng		93
55) 3-Nitroaniline	7.984	138	174600	85.87	ng		94
56) Pentachlorobenzene	8.198	250	248391	81.05	ng		99
57) 4-Nitroaniline	8.684	138	179728	85.17	ng		96
58) 2-Naphthylamine	8.326	143	600495	81.61	ng		98
59) 1-Naphthylamine	8.422	143	634310	80.64	ng		99
60) Dimethyl phthalate	7.760	163	640775	80.79	ng		100
61) Acenaphthylene	7.829	152	890761	81.28	ng		99
62) 2,6-Dinitrotoluene	7.803	165	144148	86.94	ng		97
63) Acenaphthene	8.038	154	534607	80.49	ng		98
64) 2,4-Dinitrophenol	8.102	184	56512	77.46	ng		92
65) Dibenzofuran	8.235	168	817144	80.06	ng		99
66) 4-Nitrophenol	8.230	109	84460	84.92	ng	#	75
67) 2,4-Dinitrotoluene	8.257	165	203414	88.22	ng		98
68) 2,3,4,6-Tetrachlorophenol	8.396	232	152679	86.62	ng		99
69) Diethyl phthalate	8.566	149	622512	81.01	ng		99
70) Fluorene	8.620	166	683606	80.48	ng		99
71) 4-Chlorophenyl phenyl ether	8.647	204	331116	81.11	ng		100
74) 4,6-Dinitro-2-methylphenol	8.716	198	97846	77.76	ng		98
75) Azobenzene	8.823	77	559365	78.79	ng		98
76) 1,2-Diphenylhydrazine	8.828	182	174562	80.43	ng		97
77) Diphenylamine	8.791	170	122706	81.11	ng		97
78) N-Nitrosodiphenylamine	8.796	168	574983	80.59	ng		100
79) 4-Bromophenyl phenyl ether	9.191	248	197215	82.18	ng		97
80) Phenacetin	9.181	108	309815	84.82	ng		98
81) Hexachlorobenzene	9.245	284	209409	81.46	ng		97
82) Atrazine	9.427	200	185120	82.92	ng		97
83) 4-Aminobiphenyl	9.485	169	744086	82.35	ng		99
84) Pentachlorophenol	9.480	266	127409	89.50	ng		98
85) Pentachloronitrobenzene	9.491	237	79458	85.07	ng		95
86) Pronamide	9.597	173	271256	83.48	ng		99
87) Phenanthrene	9.688	178	973644	80.02	ng		99
88) Anthracene	9.742	178	991322	81.00	ng		99
89) Carbazole	9.939	167	891277	81.16	ng		99
90) Di-n-butyl phthalate	10.399	149	1086645	83.41	ng		99
91) Fluoranthene	11.008	202	1110993	82.03	ng		99
93) Pyrene	11.248	202	1148961	80.35	ng		99
95) Benzidine	11.189	184	421767	78.84	ng		100
96) p-Dimethylaminoazobenzene	11.638	225	244081	86.14	ng		100
97) Butyl benzyl phthalate	12.055	149	498046	84.80	ng		98
98) Benz(a)anthracene	12.589	228	1104187	82.40	ng		99
99) 3,3'-Dichlorobenzidine	12.594	252	402128	82.38	ng		100
100) Chrysene	12.632	228	1123019	80.73	ng		99
101) Bis(2-ethylhexyl)phthalate	12.728	149	691380	88.93	ng		99
102) Di-n-octyl phthalate	13.412	149	1152079	88.68	ng		99
103) 3-Methylcholanthrene	14.341	268	398117	87.46	ng		95

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042214.D
Acq On : 22 Apr 2021 12:56 pm
Operator : YH
Sample : bna80 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 12 Sample Multiplier: 1

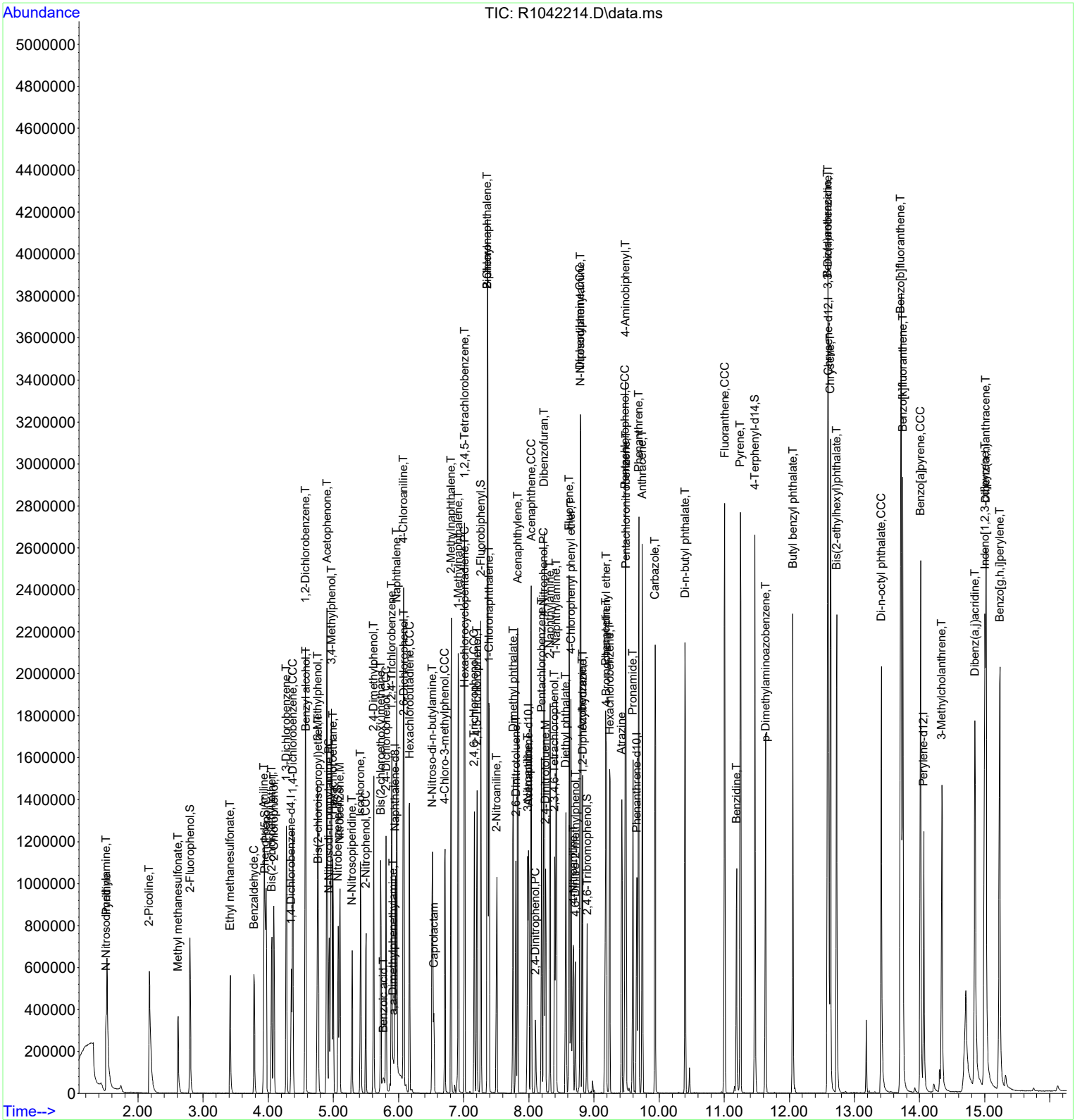
Quant Time: Apr 23 14:45:47 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:44:19 2021
Response via : Initial Calibration

Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	15.004	276	1345784	86.24	ng	98
106) Benzo[b]fluoranthene	...	13.711	252	1168840	78.00	ng	98
107) Benzo[k]fluoranthene	...	13.743	252	1131442	75.78	ng	100
108) Benzo[a]pyrene	...	14.015	252	1058708	80.54	ng	99
109) Dibenz(a,j)acridine	...	14.849	279	957746	85.12	ng	99
110) Dibenz(a,h)anthracene	...	15.020	278	1118788	80.95	ng	97
111) Benzo[g,h,i]perylene	...	15.233	276	1098261	77.94	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042214.D
Acq On : 22 Apr 2021 12:56 pm
Operator : YH
Sample : bna80 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 23 14:45:47 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:44:19 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042217.D
Acq On : 22 Apr 2021 1:22 pm
Operator : YH
Sample : bna120 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 23 14:48:18 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:47:24 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.352	152	109153	40.00	ng		0.00
23) Naphthalene-d8	5.949	136	430630	40.00	ng		0.00
45) Acenaphthene-d10	7.995	164	254898	40.00	ng		0.00
73) Phenanthrene-d10	9.662	188	457563	40.00	ng		0.00
92) Chrysene-d12	12.606	240	416043	40.00	ng		0.00
105) Perylene-d12	14.069	264	424865	40.00	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	2.798	112	406643	119.42	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 119.42%#				
9) Phenol-d5	3.957	99	491378	118.84	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 118.84%#				
24) Nitrobenzene-d5	5.079	82	399132	119.67	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 239.34%#				
50) 2-Fluorobiphenyl	7.269	172	948419	115.22	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 230.44%#				
72) 2,4,6-Tribromophenol	8.898	330	129849	131.72	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 131.72%#				
94) 4-Terphenyl-d14	11.473	244	1222100	118.84	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 237.68%#				
Target Compounds							Qvalue
2) Pyridine	1.521	79	498784	119.12	ng		97
3) 2-Picoline	2.173	93	508769	119.71	ng		99
4) Methyl methanesulfonate	2.616	80	211542	119.06	ng		95
6) Ethyl methanesulfonate	3.423	79	329105	118.73	ng		98
7) Benzaldehyde	3.786	105	262706	118.96	ng		98
8) Aniline	3.941	66	246164	117.37	ng		91
10) Phenol	3.978	94	591235	117.85	ng	#	58
11) Bis(2-chloroethyl)ether	4.053	93	412287	115.88	ng		98
12) 2-Chlorophenol	4.090	128	458037	119.27	ng		98
13) 1,3-Dichlorobenzene	4.283	146	512377	116.97	ng		99
14) 1,4-Dichlorobenzene	4.379	146	516307	116.61	ng		98
15) 1,2-Dichlorobenzene	4.571	146	477371	115.70	ng		99
16) Benzyl alcohol	4.582	108	295925	119.97	ng		92
17) Bis(2-chloroisopropyl)ether	4.769	45	406169	109.16	ng		97
18) 2-Methylphenol	4.763	107	340430	117.93	ng		97
19) 3,4-Methylphenol	4.977	107	883567	235.36	ng		98
20) N-Nitrosodi-n-propylamine	4.940	70	273829	115.62	ng		92
21) N-Nitrosodimethylamine	1.510	42	148868	115.94	ng	#	82
22) Hexachloroethane	4.993	117	186172	119.21	ng		98
25) Acetophenone	4.908	105	1105604	226.40	ng		97
26) Nitrobenzene	5.105	123	228091	120.89	ng		90
27) N-Nitrosopiperidine	5.292	114	220585	118.57	ng		88
28) Isophorone	5.421	82	808177	117.47	ng		97
29) 2-Nitrophenol	5.501	139	234270	129.73	ng		94
30) 2,4-Dimethylphenol	5.624	122	394623	118.21	ng		96
31) Bis(2-chloroethoxy)methane	5.730	93	508153	117.35	ng		100
32) 2,4-Dichlorophenol	5.811	162	387503	121.27	ng		98
33) 1,2,4-Trichlorobenzene	5.896	180	423565	117.50	ng		100
34) Naphthalene	5.976	128	1277132	113.24	ng		99
35) Benzoic acid	5.805	122	102048	116.15	ng		78
36) 2,6-Dichlorophenol	6.083	162	373612	120.03	ng		99
37) 4-Chloroaniline	6.083	127	550890	116.31	ng		99
38) Hexachlorobutadiene	6.168	225	241509	117.62	ng		100
39) a,a-Dimethylphenethylamine	5.960	58	1055604	122.09	ng		88
40) Caprolactam	6.574	113	150501	124.19	ng	#	66

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042217.D
Acq On : 22 Apr 2021 1:22 pm
Operator : YH
Sample : bna120 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 23 14:48:18 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:47:24 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.719	107	372952	122.28	ng		94
42) N-Nitroso-di-n-butylamine	6.526	84	295238	109.69	ng		85
43) 2-Methylnaphthalene	6.809	141	753926	115.30	ng		98
44) 1-Methylnaphthalene	6.922	141	737852	114.87	ng		99
46) 1,2,4,5-Tetrachlorobenzene	7.013	216	405588	115.05	ng		99
47) Hexachlorocyclopentadiene	7.018	237	241475	124.30	ng		96
48) 2,4,6-Trichlorophenol	7.167	196	284166	125.14	ng		97
49) 2,4,5-Trichlorophenol	7.210	196	312646	122.89	ng		99
51) Biphenyl	7.370	154	976165	110.22	ng		97
52) 2-Chloronaphthalene	7.370	162	863699	116.28	ng		99
53) 1-Chloronaphthalene	7.392	162	749933	111.69	ng		99
54) 2-Nitroaniline	7.515	65	222047	127.37	ng		93
55) 3-Nitroaniline	7.990	138	266367	129.07	ng		92
56) Pentachlorobenzene	8.198	250	369399	118.77	ng		99
57) 4-Nitroaniline	8.695	138	274202	128.03	ng		91
58) 2-Naphthylamine	8.332	143	873064	116.91	ng		99
59) 1-Naphthylamine	8.428	143	923269	115.65	ng		100
60) Dimethyl phthalate	7.766	163	955448	118.69	ng		100
61) Acenaphthylene	7.835	152	1294261	116.35	ng		99
62) 2,6-Dinitrotoluene	7.808	165	221321	131.52	ng		97
63) Acenaphthene	8.038	154	780496	115.78	ng		98
64) 2,4-Dinitrophenol	8.113	184	96753	117.26	ng		88
65) Dibenzofuran	8.241	168	1185775	114.47	ng		97
66) 4-Nitrophenol	8.241	109	127920	126.72	ng	#	77
67) 2,4-Dinitrotoluene	8.268	165	308523	131.84	ng		96
68) 2,3,4,6-Tetrachlorophenol	8.401	232	232959	130.22	ng		99
69) Diethyl phthalate	8.572	149	940864	120.64	ng		100
70) Fluorene	8.626	166	999221	115.90	ng		99
71) 4-Chlorophenyl phenyl ether	8.653	204	485537	117.19	ng		99
74) 4,6-Dinitro-2-methylphenol	8.722	198	160985	117.16	ng		98
75) Azobenzene	8.829	77	811524	111.59	ng		98
76) 1,2-Diphenylhydrazine	8.829	182	263741	118.63	ng		91
77) Diphenylamine	8.802	170	179590	115.90	ng		96
78) N-Nitrosodiphenylamine	8.802	168	839908	114.92	ng		99
79) 4-Bromophenyl phenyl ether	9.192	248	287486	116.95	ng		98
80) Phenacetin	9.192	108	456364	121.98	ng		98
81) Hexachlorobenzene	9.246	284	316419	120.16	ng		97
82) Atrazine	9.438	200	273745	119.70	ng		97
83) 4-Aminobiphenyl	9.491	169	1072275	115.85	ng		99
84) Pentachlorophenol	9.486	266	197057	135.14	ng		99
85) Pentachloronitrobenzene	9.497	237	121045	126.52	ng		97
86) Pronamide	9.603	173	411735	123.70	ng		99
87) Phenanthrene	9.689	178	1427859	114.56	ng		98
88) Anthracene	9.748	178	1451709	115.79	ng		99
89) Carbazole	9.945	167	1312476	116.68	ng		98
90) Di-n-butyl phthalate	10.405	149	1596269	119.62	ng		99
91) Fluoranthene	11.014	202	1640798	118.27	ng		98
93) Pyrene	11.254	202	1688603	116.71	ng		99
95) Benzidine	11.195	184	770530	142.35	ng		99
96) p-Dimethylaminoazobenzene	11.639	225	374684	130.69	ng		97
97) Butyl benzyl phthalate	12.055	149	752213	126.59	ng		98
98) Benz(a)anthracene	12.595	228	1617355	119.28	ng		99
99) 3,3'-Dichlorobenzidine	12.600	252	577301	116.89	ng		99
100) Chrysene	12.638	228	1666111	118.38	ng		98
101) Bis(2-ethylhexyl)phthalate	12.729	149	1042888	132.58	ng		99
102) Di-n-octyl phthalate	13.412	149	1760961	133.96	ng		99
103) 3-Methylcholanthrene	14.347	268	603521	131.03	ng		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042217.D
Acq On : 22 Apr 2021 1:22 pm
Operator : YH
Sample : bna120 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 23 14:48:18 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:47:24 2021
Response via : Initial Calibration

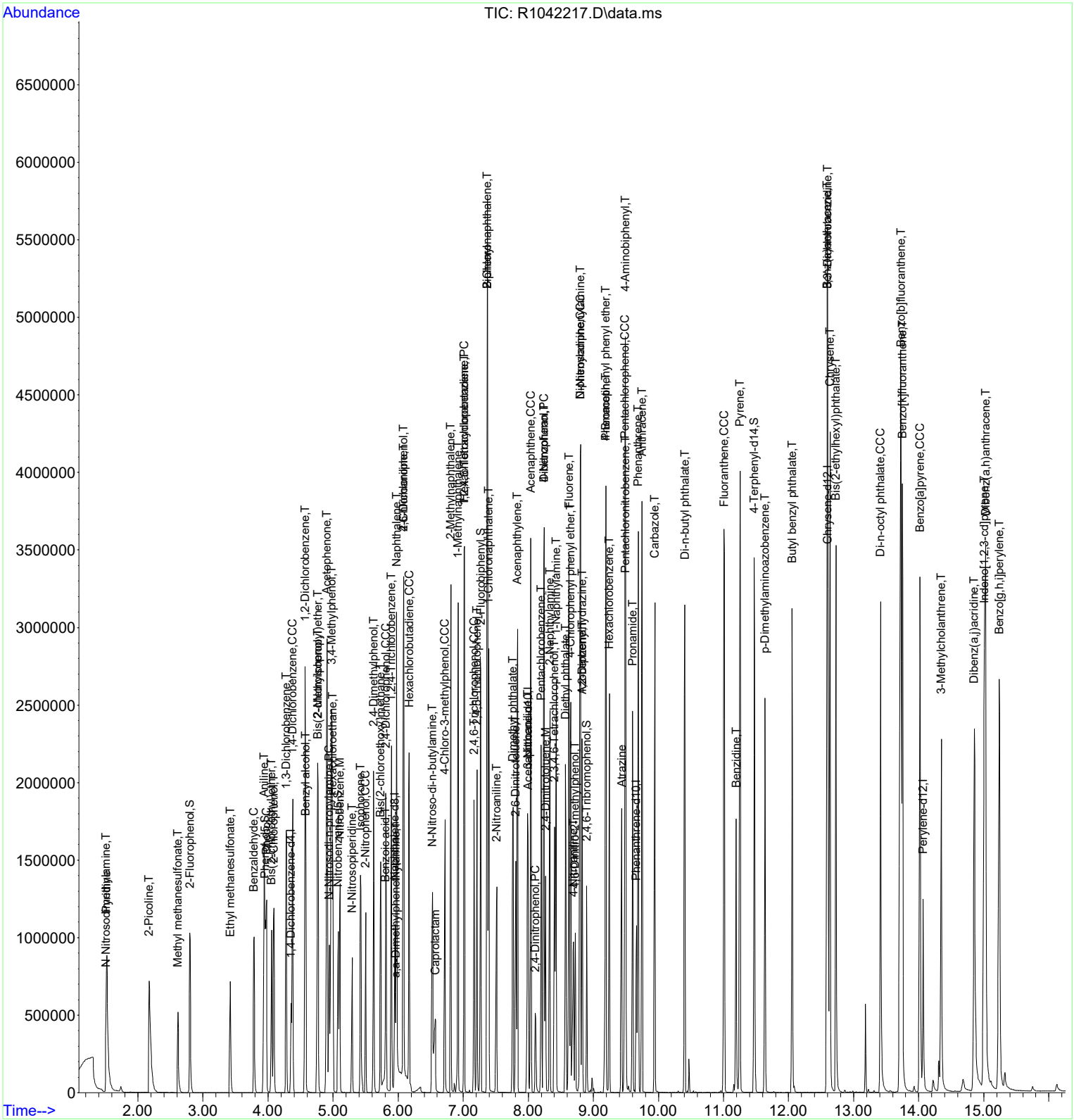
Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	15.010	276	1994716	126.34	ng	97
106) Benzo[b]fluoranthene	...	13.728	252	1935931	135.58	ng	99
107) Benzo[k]fluoranthene	...	13.749	252	1471095	103.40	ng	98
108) Benzo[a]pyrene	...	14.021	252	1573220	125.60	ng	99
109) Dibenz(a,j)acridine	...	14.855	279	1422523	132.68	ng	99
110) Dibenz(a,h)anthracene	...	15.031	278	1638484	124.42	ng	98
111) Benzo[g,h,i]perylene	...	15.239	276	1651661	123.01	ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042217.D
Acq On : 22 Apr 2021 1:22 pm
Operator : YH
Sample : bna120 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 23 14:48:18 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:47:24 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042218.D
Acq On : 22 Apr 2021 1:51 pm
Operator : YH
Sample : bna160 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 23 14:51:14 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:50:28 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.357	152	108292	40.00	ng		0.00
23) Naphthalene-d8	...	5.949	136	430544	40.00	ng		0.00
45) Acenaphthene-d10	...	8.000	164	254201	40.00	ng		0.00
73) Phenanthrene-d10	...	9.662	188	458725	40.00	ng		0.00
92) Chrysene-d12	...	12.611	240	410990	40.00	ng		0.00
105) Perylene-d12	...	14.069	264	435035	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.803	112	545887	161.58	ng		0.00
Spiked Amount 100.000	Range 21 - 110			Recovery = 161.58%#				
9) Phenol-d5	...	3.967	99	650965	158.69	ng		0.00
Spiked Amount 100.000	Range 10 - 110			Recovery = 158.69%#				
24) Nitrobenzene-d5	...	5.084	82	539780	161.87	ng		0.00
Spiked Amount 50.000	Range 34 - 114			Recovery = 323.74%#				
50) 2-Fluorobiphenyl	...	7.269	172	1251276	152.43	ng		0.00
Spiked Amount 50.000	Range 43 - 116			Recovery = 304.86%#				
72) 2,4,6-Tribromophenol	...	8.903	330	181127	184.25	ng		0.00
Spiked Amount 100.000	Range 10 - 123			Recovery = 184.25%#				
94) 4-Terphenyl-d14	...	11.478	244	1665029	163.90	ng		0.00
Spiked Amount 50.000	Range 33 - 141			Recovery = 327.80%#				
Target Compounds								Qvalue
2) Pyridine	...	1.520	79	666191	160.37	ng		97
3) 2-Picoline	...	2.172	93	686736	162.87	ng		99
4) Methyl methanesulfonate	...	2.621	80	285733	162.09	ng		95
6) Ethyl methanesulfonate	...	3.428	79	443075	161.11	ng		98
7) Benzaldehyde	...	3.785	105	404978	184.84	ng		98
8) Aniline	...	3.940	66	326100	156.72	ng		92
10) Phenol	...	3.983	94	783778	157.48	ng	#	58
11) Bis(2-chloroethyl)ether	...	4.058	93	552715	156.58	ng		98
12) 2-Chlorophenol	...	4.090	128	614220	161.21	ng		99
13) 1,3-Dichlorobenzene	...	4.282	146	675307	155.39	ng		99
14) 1,4-Dichlorobenzene	...	4.378	146	677595	154.25	ng		99
15) 1,2-Dichlorobenzene	...	4.571	146	626385	153.02	ng		99
16) Benzyl alcohol	...	4.587	108	396633	162.08	ng		92
17) Bis(2-chloroisopropyl)ether	...	4.768	45	520728	141.06	ng		95
18) 2-Methylphenol	...	4.768	107	451283	157.57	ng		97
19) 3,4-Methylphenol	...	4.982	107	1128649	303.03	ng		99
20) N-Nitrosodi-n-propylamine	...	4.945	70	342457	145.75	ng		94
21) N-Nitrosodimethylamine	...	1.515	42	200797	157.63	ng	#	83
22) Hexachloroethane	...	4.998	117	234308	151.22	ng		99
25) Acetophenone	...	4.913	105	1472043	301.49	ng		97
26) Nitrobenzene	...	5.110	123	303101	160.67	ng		90
27) N-Nitrosopiperidine	...	5.303	114	296387	159.35	ng		89
28) Isophorone	...	5.431	82	1081397	157.21	ng		97
29) 2-Nitrophenol	...	5.506	139	319164	176.77	ng		94
30) 2,4-Dimethylphenol	...	5.629	122	528886	158.47	ng		96
31) Bis(2-chloroethoxy)methane	...	5.735	93	676626	156.29	ng		99
32) 2,4-Dichlorophenol	...	5.821	162	512318	160.37	ng		99
33) 1,2,4-Trichlorobenzene	...	5.901	180	560118	155.41	ng		100
34) Naphthalene	...	5.981	128	1662097	147.41	ng		98
35) Benzoic acid	...	5.842	122	161965	163.09	ng	#	78
36) 2,6-Dichlorophenol	...	6.088	162	493713	158.65	ng		100
37) 4-Chloroaniline	...	6.088	127	724107	152.91	ng		97
38) Hexachlorobutadiene	...	6.168	225	323501	157.58	ng		99
39) a,a-Dimethylphenethylamine	...	6.013	58	1453899	168.53	ng		88
40) Caprolactam	...	6.601	113	205366	169.50	ng	#	66

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042218.D
Acq On : 22 Apr 2021 1:51 pm
Operator : YH
Sample : bna160 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 23 14:51:14 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:50:28 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.729	107	502197	164.68	ng		94
42) N-Nitroso-di-n-butylamine	6.531	84	381547	141.79	ng		82
43) 2-Methylnaphthalene	6.814	141	988193	151.16	ng		98
44) 1-Methylnaphthalene	6.927	141	971053	151.20	ng		99
46) 1,2,4,5-Tetrachlorobenzene	7.017	216	535303	152.27	ng		99
47) Hexachlorocyclopentadiene	7.017	237	324182	167.33	ng		95
48) 2,4,6-Trichlorophenol	7.172	196	383719	169.45	ng		97
49) 2,4,5-Trichlorophenol	7.215	196	423797	167.04	ng		98
51) Biphenyl	7.375	154	1230049	139.27	ng		97
52) 2-Chloronaphthalene	7.375	162	1191255	160.81	ng		99
53) 1-Chloronaphthalene	7.397	162	925388	138.20	ng		99
54) 2-Nitroaniline	7.520	65	300268	172.71	ng		92
55) 3-Nitroaniline	7.995	138	367189	178.41	ng	#	92
56) Pentachlorobenzene	8.203	250	497419	160.36	ng		99
57) 4-Nitroaniline	8.706	138	380346	178.07	ng		92
58) 2-Naphthylamine	8.337	143	1161924	156.01	ng		100
59) 1-Naphthylamine	8.433	143	1240177	155.77	ng		100
60) Dimethyl phthalate	7.771	163	1298610	161.76	ng		100
61) Acenaphthylene	7.835	152	1701656	153.40	ng		98
62) 2,6-Dinitrotoluene	7.813	165	307024	182.95	ng		98
63) Acenaphthene	8.043	154	1027399	152.82	ng		98
64) 2,4-Dinitrophenol	8.118	184	143174	164.56	ng		88
65) Dibenzofuran	8.241	168	1562548	151.25	ng		95
66) 4-Nitrophenol	8.252	109	175616	174.44	ng	#	81
67) 2,4-Dinitrotoluene	8.273	165	432764	185.44	ng		86
68) 2,3,4,6-Tetrachlorophenol	8.406	232	319379	179.01	ng		98
69) Diethyl phthalate	8.577	149	1251675	160.93	ng		100
70) Fluorene	8.631	166	1333001	155.04	ng		99
71) 4-Chlorophenyl phenyl ether	8.652	204	659066	159.50	ng		100
74) 4,6-Dinitro-2-methylphenol	8.732	198	236010	165.44	ng		96
75) Azobenzene	8.834	77	1266006	173.64	ng		95
76) 1,2-Diphenylhydrazine	8.834	182	355110	159.33	ng	#	86
77) Diphenylamine	8.807	170	237022	152.57	ng	#	95
78) N-Nitrosodiphenylamine	8.807	168	1099151	150.01	ng		99
79) 4-Bromophenyl phenyl ether	9.197	248	391402	158.82	ng		98
80) Phenacetin	9.202	108	617011	164.50	ng		97
81) Hexachlorobenzene	9.251	284	427133	161.79	ng		98
82) Atrazine	9.443	200	362768	158.22	ng		98
83) 4-Aminobiphenyl	9.496	169	1373869	148.06	ng		99
84) Pentachlorophenol	9.491	266	273452	187.05	ng		99
85) Pentachloronitrobenzene	9.507	237	164875	171.90	ng		98
86) Pronamide	9.608	173	557593	167.09	ng		99
87) Phenanthrene	9.694	178	1899950	152.05	ng		98
88) Anthracene	9.753	178	1916082	152.45	ng		98
89) Carbazole	9.950	167	1765148	156.52	ng		98
90) Di-n-butyl phthalate	10.404	149	2148503	160.59	ng		99
91) Fluoranthene	11.013	202	2195137	157.82	ng		98
93) Pyrene	11.259	202	2247093	157.23	ng		98
95) Benzidine	11.195	184	596225	111.51	ng		99
96) p-Dimethylaminoazobenzene	11.644	225	508808	179.65	ng		97
97) Butyl benzyl phthalate	12.060	149	1024734	174.57	ng		97
98) Benz(a)anthracene	12.595	228	2167409	161.82	ng		99
99) 3,3'-Dichlorobenzidine	12.605	252	705265	144.55	ng		99
100) Chrysene	12.643	228	2205693	158.64	ng		98
101) Bis(2-ethylhexyl)phthalate	12.734	149	1406477	181.00	ng		99
102) Di-n-octyl phthalate	13.417	149	2384372	183.62	ng		98
103) 3-Methylcholanthrene	14.352	268	821946	180.65	ng		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042218.D
Acq On : 22 Apr 2021 1:51 pm
Operator : YH
Sample : bna160 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 23 14:51:14 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:50:28 2021
Response via : Initial Calibration

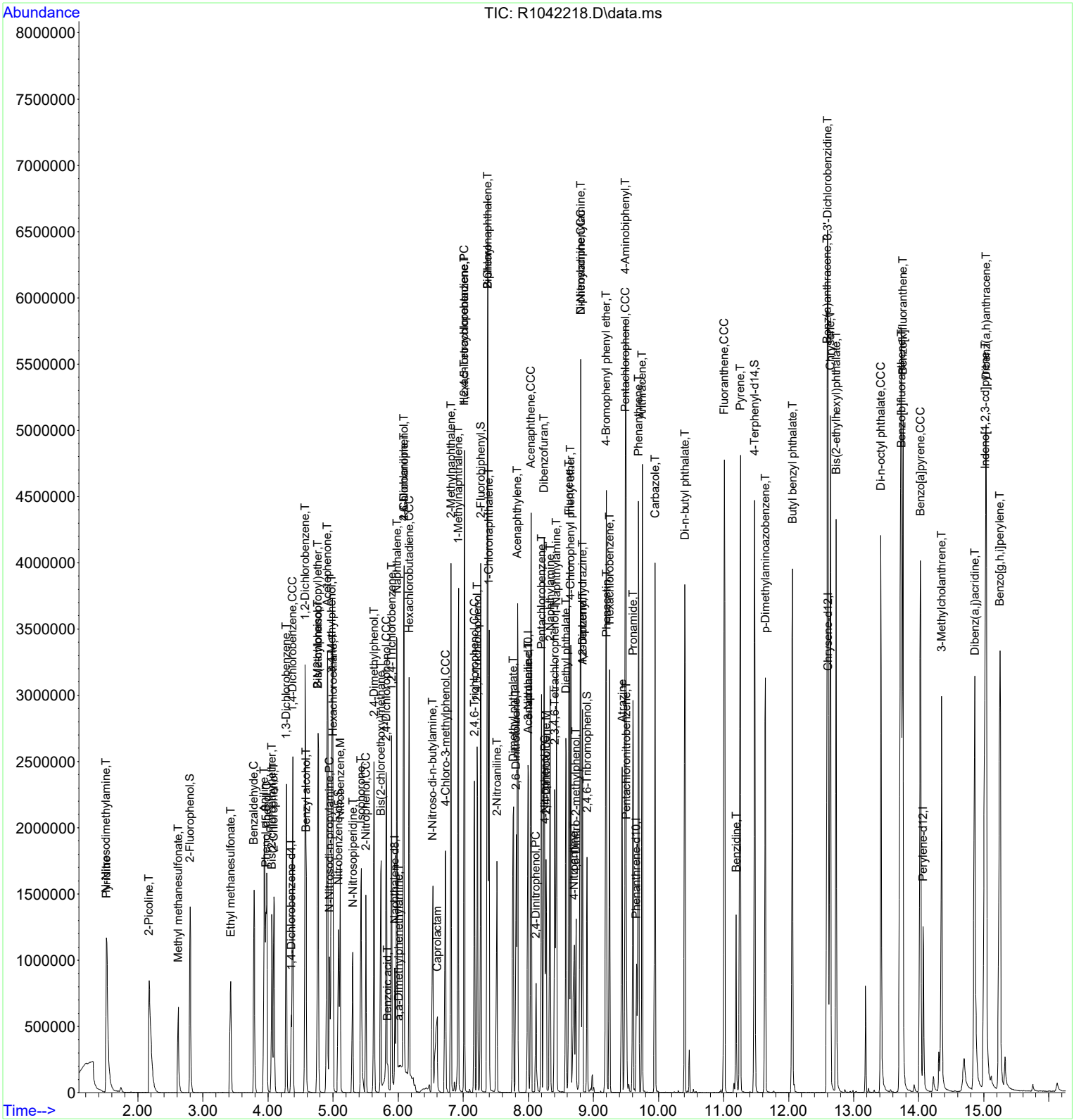
Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	15.025	276	2709004	173.69	ng	98
106) Benzo[b]fluoranthene	...	13.738	252	2535835	173.45	ng	98
107) Benzo[k]fluoranthene	...	13.759	252	1996246	137.04	ng	99
108) Benzo[a]pyrene	...	14.026	252	2143581	167.13	ng	99
109) Dibenz(a,j)acridine	...	14.865	279	1973413	179.76	ng	98
110) Dibenz(a,h)anthracene	...	15.036	278	2210293	163.91	ng	98
111) Benzo[g,h,i]perylene	...	15.250	276	2242523	163.11	ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042218.D
Acq On : 22 Apr 2021 1:51 pm
Operator : YH
Sample : bna160 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 23 14:51:14 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:50:28 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042219.D
Acq On : 22 Apr 2021 2:18 pm
Operator : YH
Sample : bna5 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 23 14:54:00 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:53:14 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.354	152	110753	40.00	ng		0.00
23) Naphthalene-d8	...	5.941	136	430954	40.00	ng		0.00
45) Acenaphthene-d10	...	7.992	164	252426	40.00	ng		0.00
73) Phenanthrene-d10	...	9.654	188	451164	40.00	ng		0.00
92) Chrysene-d12	...	12.592	240	396937	40.00	ng		0.00
105) Perylene-d12	...	14.061	264	380618	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.794	112	16623	4.81	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery =	4.81%#				
9) Phenol-d5	...	3.938	99	19845	4.73	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery =	4.73%#				
24) Nitrobenzene-d5	...	5.065	82	15938	4.78	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery =	9.56%#				
50) 2-Fluorobiphenyl	...	7.255	172	41892	5.14	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery =	10.28%#				
72) 2,4,6-Tribromophenol	...	8.884	330	3800	3.89	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery =	3.89%#				
94) 4-Terphenyl-d14	...	11.465	244	46256	4.71	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery =	9.42%#				
Target Compounds								Qvalue
2) Pyridine	...	1.539	79	21484	5.06	ng		96
3) 2-Picoline	...	2.196	93	21076	4.89	ng		96
4) Methyl methanesulfonate	...	2.623	80	8532	4.73	ng		96
6) Ethyl methanesulfonate	...	3.414	79	13553	4.82	ng		98
7) Benzaldehyde	...	3.783	105	11791	5.26	ng		97
8) Aniline	...	3.932	66	9727	4.57	ng	#	82
10) Phenol	...	3.954	94	24846	4.88	ng	#	33
11) Bis(2-chloroethyl)ether	...	4.045	93	17666	4.89	ng		98
12) 2-Chlorophenol	...	4.082	128	18807	4.83	ng		98
13) 1,3-Dichlorobenzene	...	4.274	146	22473	5.06	ng		99
14) 1,4-Dichlorobenzene	...	4.376	146	22709	5.05	ng		98
15) 1,2-Dichlorobenzene	...	4.568	146	21449	5.12	ng		97
16) Benzyl alcohol	...	4.563	108	11891	4.75	ng		92
17) Bis(2-chloroisopropyl)ether	...	4.766	45	19666	5.21	ng		97
18) 2-Methylphenol	...	4.744	107	13983	4.77	ng		98
19) 3,4-Methylphenol	...	4.947	107	37414	9.82	ng		97
20) N-Nitrosodi-n-propylamine	...	4.921	70	12151	5.06	ng		96
21) N-Nitrosodimethylamine	...	1.518	42	6427	4.93	ng	#	91
22) Hexachloroethane	...	4.990	117	7852	4.96	ng		97
25) Acetophenone	...	4.889	105	50296	10.29	ng		98
26) Nitrobenzene	...	5.092	123	8905	4.72	ng		97
27) N-Nitrosopiperidine	...	5.279	114	9070	4.87	ng		89
28) Isophorone	...	5.407	82	33815	4.91	ng		97
29) 2-Nitrophenol	...	5.492	139	7706	4.26	ng		93
30) 2,4-Dimethylphenol	...	5.610	122	15932	4.77	ng		94
31) Bis(2-chloroethoxy)methane	...	5.717	93	21341	4.92	ng		99
32) 2,4-Dichlorophenol	...	5.802	162	15014	4.70	ng		99
33) 1,2,4-Trichlorobenzene	...	5.888	180	18087	5.01	ng		98
34) Naphthalene	...	5.968	128	57871	5.13	ng		99
35) Benzoic acid	...	5.706	122	1586	37.48	ng	#	82
36) 2,6-Dichlorophenol	...	6.074	162	14974	4.81	ng		98
37) 4-Chloroaniline	...	6.069	127	22697	4.79	ng		97
38) Hexachlorobutadiene	...	6.165	225	10323	5.02	ng		98
39) a,a-Dimethylphenethylamine	...	5.829	58	28834	3.34	ng		84
40) Caprolactam	...	6.448	113	4836	3.99	ng	#	69

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042219.D
Acq On : 22 Apr 2021 2:18 pm
Operator : YH
Sample : bna5 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 23 14:54:00 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:53:14 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.694	107	13697	4.49	ng		95
42) N-Nitroso-di-n-butylamine	6.513	84	11875	4.41	ng		84
43) 2-Methylnaphthalene	6.801	141	32957	5.04	ng		98
44) 1-Methylnaphthalene	6.913	141	32840	5.11	ng		100
46) 1,2,4,5-Tetrachlorobenzene	7.004	216	17904	5.13	ng		98
47) Hexachlorocyclopentadiene	7.009	237	7476	3.89	ng	#	91
48) 2,4,6-Trichlorophenol	7.154	196	9894	4.40	ng		97
49) 2,4,5-Trichlorophenol	7.191	196	11387	4.52	ng		96
51) Biphenyl	7.357	154	46981	5.36	ng		98
52) 2-Chloronaphthalene	7.357	162	36918	5.02	ng		98
53) 1-Chloronaphthalene	7.378	162	35590	5.35	ng		99
54) 2-Nitroaniline	7.496	65	7003	4.06	ng		97
55) 3-Nitroaniline	7.971	138	8042	3.93	ng		94
56) Pentachlorobenzene	8.190	250	15359	4.99	ng		98
57) 4-Nitroaniline	8.655	138	8096	3.82	ng		96
58) 2-Naphthylamine	8.313	143	34203	4.62	ng		98
59) 1-Naphthylamine	8.409	143	37174	4.70	ng		96
60) Dimethyl phthalate	7.747	163	38993	4.89	ng		99
61) Acenaphthylene	7.827	152	53889	4.89	ng		100
62) 2,6-Dinitrotoluene	7.789	165	6859	4.12	ng		92
63) Acenaphthene	8.030	154	33981	5.09	ng		99
64) 2,4-Dinitrophenol	8.088	184	871	20.39	ng		88
65) Dibenzofuran	8.227	168	53169	5.18	ng		90
66) 4-Nitrophenol	8.211	109	3811	3.81	ng	#	39
67) 2,4-Dinitrotoluene	8.243	165	8484	3.66	ng	#	76
68) 2,3,4,6-Tetrachlorophenol	8.388	232	7230	4.08	ng		95
69) Diethyl phthalate	8.553	149	37567	4.86	ng		97
70) Fluorene	8.612	166	43342	5.08	ng		97
71) 4-Chlorophenyl phenyl ether	8.644	204	20912	5.10	ng		98
74) 4,6-Dinitro-2-methylphenol	8.692	198	2245	14.22	ng	#	1
75) Azobenzene	8.815	77	34411	4.80	ng		98
76) 1,2-Diphenylhydrazine	8.815	182	10248	4.68	ng		96
77) Diphenylamine	8.778	170	7655	5.01	ng		99
78) N-Nitrosodiphenylamine	8.778	168	36058	5.00	ng		98
79) 4-Bromophenyl phenyl ether	9.184	248	12004	4.95	ng		97
80) Phenacetin	9.152	108	15195	4.12	ng		97
81) Hexachlorobenzene	9.232	284	12828	4.94	ng		94
82) Atrazine	9.408	200	10265	4.55	ng		96
83) 4-Aminobiphenyl	9.472	169	39144	4.29	ng		99
84) Pentachlorophenol	9.467	266	4827	3.36	ng		95
85) Pentachloronitrobenzene	9.477	237	3627	3.84	ng		89
86) Pronamide	9.584	173	13511	4.12	ng		98
87) Phenanthrene	9.675	178	63278	5.15	ng		99
88) Anthracene	9.734	178	61282	4.96	ng		99
89) Carbazole	9.932	167	53678	4.84	ng		100
90) Di-n-butyl phthalate	10.396	149	56126	4.27	ng		98
91) Fluoranthene	11.000	202	63819	4.67	ng		99
93) Pyrene	11.240	202	67297	4.88	ng		98
95) Benzidine	11.182	184	14922	2.89	ng	#	84
96) p-Dimethylaminoazobenzene	11.630	225	10148	3.71	ng		96
97) Butyl benzyl phthalate	12.047	149	21890	3.86	ng		98
98) Benz(a)anthracene	12.581	228	60263	4.66	ng		100
99) 3,3'-Dichlorobenzidine	12.587	252	20707	4.39	ng		98
100) Chrysene	12.619	228	67472	5.02	ng		98
101) Bis(2-ethylhexyl)phthalate	12.725	149	28358	3.78	ng		98
102) Di-n-octyl phthalate	13.404	149	36487	2.91	ng	#	97
103) 3-Methylcholanthrene	14.333	268	15525	3.53	ng		99

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042219.D
Acq On : 22 Apr 2021 2:18 pm
Operator : YH
Sample : bna5 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 23 14:54:00 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:53:14 2021
Response via : Initial Calibration

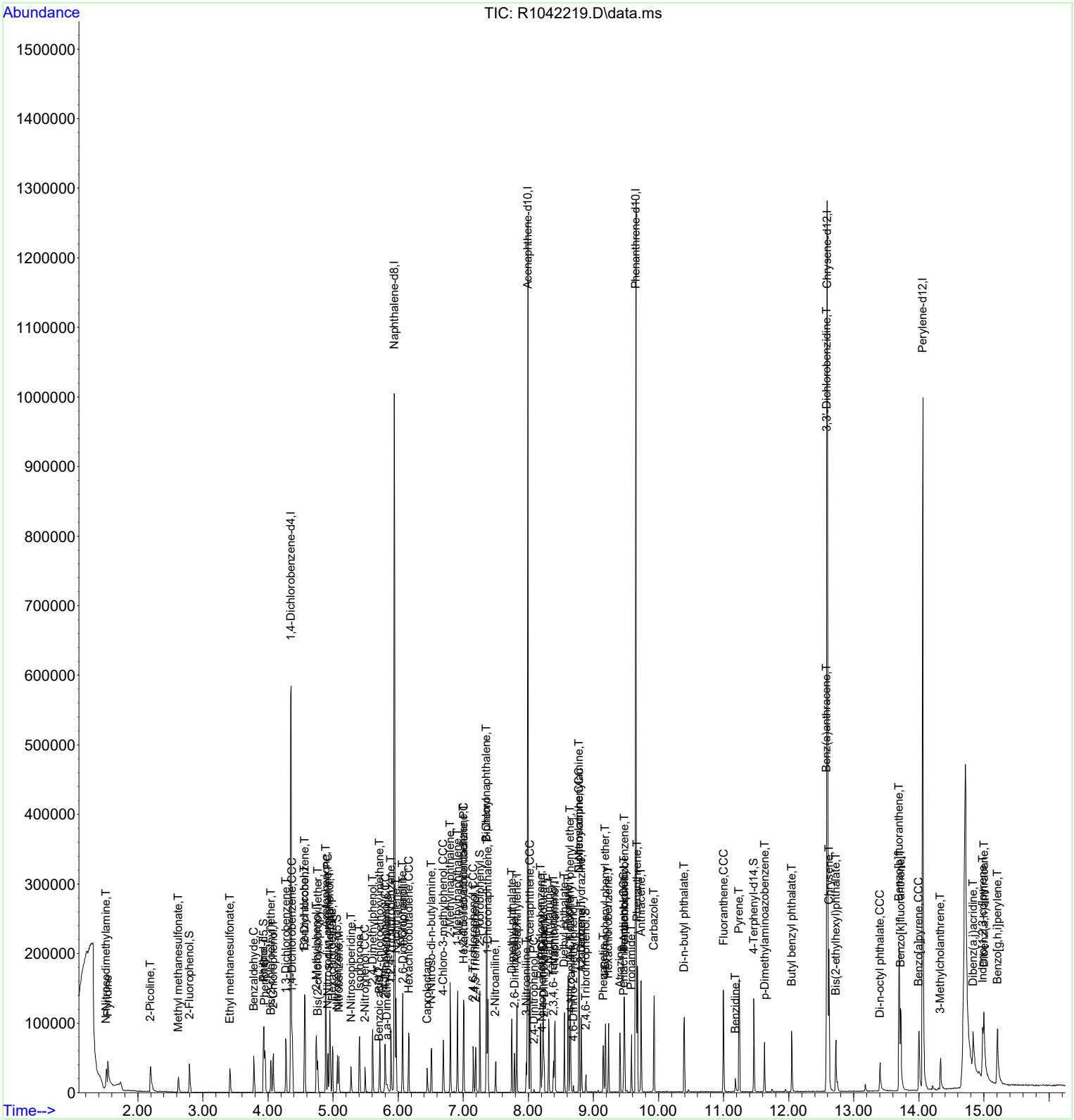
Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	14.980	276	67206	4.46	ng	100
106) Benzo[b]fluoranthene	...	13.698	252	50616	3.96	ng	98
107) Benzo[k]fluoranthene	...	13.724	252	68386	5.37	ng	97
108) Benzo[a]pyrene	...	14.002	252	44373	3.95	ng	100
109) Dibenz(a,j)acridine	...	14.836	279	44968	4.68	ng	96
110) Dibenz(a,h)anthracene	...	15.001	278	57656	4.89	ng	94
111) Benzo[g,h,i]perylene	...	15.210	276	60435	5.02	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042219.D
Acq On : 22 Apr 2021 2:18 pm
Operator : YH
Sample : bna5 973-73/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 23 14:54:00 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:53:14 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.352	152	110909	40.00	ng		0.00
23) Naphthalene-d8	...	5.944	136	436527	40.00	ng		0.00
45) Acenaphthene-d10	...	7.995	164	257989	40.00	ng		0.00
73) Phenanthrene-d10	...	9.657	188	453481	40.00	ng		0.00
92) Chrysene-d12	...	12.600	240	428210	40.00	ng		0.00
105) Perylene-d12	...	14.064	264	474886	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.792	112	135326	39.11	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 39.11%					
9) Phenol-d5	...	3.941	99	163732	38.97	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 38.97%					
24) Nitrobenzene-d5	...	5.068	82	131479	38.89	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 77.78%					
50) 2-Fluorobiphenyl	...	7.258	172	329074	39.50	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 79.00%					
72) 2,4,6-Tribromophenol	...	8.888	330	38724	38.81	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 38.81%					
94) 4-Terphenyl-d14	...	11.468	244	412010	38.93	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 77.86%					
Target Compounds								Qvalue
2) Pyridine	...	1.526	79	160734	37.78	ng		97
3) 2-Picoline	...	2.178	93	104418	24.18	ng		97
4) Methyl methanesulfonate	...	2.616	80	39699	21.99	ng		96
6) Ethyl methanesulfonate	...	3.412	79	100716	35.76	ng		98
7) Benzaldehyde	...	3.780	105	105450	46.99	ng		98
8) Aniline	...	3.935	66	76912	36.09	ng	#	89
10) Phenol	...	3.962	94	190079	37.29	ng	#	58
11) Bis(2-chloroethyl)ether	...	4.048	93	142389	39.39	ng		99
12) 2-Chlorophenol	...	4.080	128	148305	38.01	ng		99
13) 1,3-Dichlorobenzene	...	4.277	146	168816	37.93	ng		99
14) 1,4-Dichlorobenzene	...	4.373	146	173934	38.66	ng		99
15) 1,2-Dichlorobenzene	...	4.566	146	159976	38.16	ng		99
16) Benzyl alcohol	...	4.566	108	95405	38.07	ng		92
17) Bis(2-chloroisopropyl)ether	...	4.763	45	125707	33.25	ng		90
18) 2-Methylphenol	...	4.747	107	114862	39.16	ng		93
19) 3,4-Methylphenol	...	4.961	107	328784	86.19	ng		97
20) N-Nitrosodi-n-propylamine	...	4.924	70	88487	36.77	ng		94
21) N-Nitrosodimethylamine	...	1.510	42	50304	38.56	ng		85
22) Hexachloroethane	...	4.993	117	61083	38.49	ng		98
25) Acetophenone	...	4.892	105	200057	40.41	ng		99
26) Nitrobenzene	...	5.095	123	74640	39.02	ng		94
27) N-Nitrosopiperidine	...	5.282	114	74266	39.38	ng		89
28) Isophorone	...	5.410	82	265616	38.08	ng		98
29) 2-Nitrophenol	...	5.495	139	73752	40.29	ng		94
30) 2,4-Dimethylphenol	...	5.613	122	128874	38.08	ng		96
31) Bis(2-chloroethoxy)methane	...	5.720	93	170773	38.90	ng		99
32) 2,4-Dichlorophenol	...	5.800	162	127816	39.46	ng		99
33) 1,2,4-Trichlorobenzene	...	5.891	180	141991	38.86	ng		99
34) Naphthalene	...	5.971	128	457322	40.00	ng		100
35) Benzoic acid	...	5.725	122	11479	45.11	ng	#	71
36) 2,6-Dichlorophenol	...	6.078	162	121814	38.61	ng		99
37) 4-Chloroaniline	...	6.072	127	184507	38.43	ng		97
38) Hexachlorobutadiene	...	6.163	225	78872	37.89	ng		99
39) a,a-Dimethylphenethylamine	...	5.859	58	329101	37.62	ng		77
40) Caprolactam	...	6.505	113	58104	47.30	ng		91

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.703	107	118693	38.39	ng		93
42) N-Nitroso-di-n-butylamine	6.516	84	126183	46.25	ng		95
43) 2-Methylnaphthalene	6.804	141	254033	38.32	ng		98
44) 1-Methylnaphthalene	6.916	141	255072	39.17	ng		99
46) 1,2,4,5-Tetrachlorobenzene	7.007	216	137764	38.61	ng		99
47) Hexachlorocyclopentadiene	7.012	237	59664	30.34	ng		99
48) 2,4,6-Trichlorophenol	7.162	196	87557	38.10	ng		97
49) 2,4,5-Trichlorophenol	7.199	196	99355	38.59	ng		98
51) Biphenyl	7.365	154	405351	45.22	ng		98
52) 2-Chloronaphthalene	7.365	162	334019	44.43	ng		98
53) 1-Chloronaphthalene	7.386	162	222417	32.73	ng		98
54) 2-Nitroaniline	7.504	65	69307	39.28	ng		93
55) 3-Nitroaniline	7.974	138	81092	38.82	ng		94
56) Pentachlorobenzene	8.193	250	125472	39.86	ng		99
57) 4-Nitroaniline	8.668	138	86762	40.02	ng		96
58) 2-Naphthylamine	8.321	143	264413	34.98	ng		98
59) 1-Naphthylamine	8.412	143	268244	33.20	ng		98
60) Dimethyl phthalate	7.755	163	316564	38.85	ng		100
61) Acenaphthylene	7.830	152	435067	38.64	ng		100
62) 2,6-Dinitrotoluene	7.798	165	68156	40.02	ng		96
63) Acenaphthene	8.033	154	274403	40.22	ng		99
64) 2,4-Dinitrophenol	8.097	184	19831	39.30	ng		89
65) Dibenzofuran	8.230	168	416120	39.69	ng		98
66) 4-Nitrophenol	8.220	109	38871	38.04	ng	#	66
67) 2,4-Dinitrotoluene	8.246	165	91501	38.63	ng	#	81
68) 2,3,4,6-Tetrachlorophenol	8.391	232	71303	39.38	ng		99
69) Diethyl phthalate	8.562	149	307929	39.01	ng		99
70) Fluorene	8.615	166	332870	38.15	ng		99
71) 4-Chlorophenyl phenyl ether	8.647	204	162792	38.82	ng		99
74) 4,6-Dinitro-2-methylphenol	8.706	198	36338	36.53	ng		98
75) Azobenzene	8.818	77	302359	41.95	ng		99
76) 1,2-Diphenylhydrazine	8.823	182	93190	42.30	ng		99
77) Diphenylamine	8.786	170	69711	45.39	ng		99
78) N-Nitrosodiphenylamine	8.786	168	328611	45.37	ng		100
79) 4-Bromophenyl phenyl ether	9.187	248	93976	38.57	ng		97
80) Phenacetin	9.165	108	151545	40.87	ng		99
81) Hexachlorobenzene	9.240	284	99143	37.99	ng		97
82) Atrazine	9.422	200	108545	47.89	ng		97
83) 4-Aminobiphenyl	9.480	169	345753	37.69	ng		99
84) Pentachlorophenol	9.475	266	50854	35.19	ng		97
85) Pentachloronitrobenzene	9.486	237	38581	40.69	ng		96
86) Pronamide	9.593	173	146188	44.31	ng		100
87) Phenanthrene	9.684	178	483004	39.10	ng		100
88) Anthracene	9.737	178	433282	34.87	ng		100
89) Carbazole	9.935	167	533913	47.89	ng		100
90) Di-n-butyl phthalate	10.399	149	510960	38.63	ng		100
91) Fluoranthene	11.003	202	541249	39.36	ng		99
93) Pyrene	11.243	202	577348	38.77	ng		100
95) Benzidine	11.185	184	199926	35.89	ng		100
96) p-Dimethylaminoazobenzene	11.633	225	113035	38.31	ng		99
97) Butyl benzyl phthalate	12.050	149	229416	37.51	ng		99
98) Benz(a)anthracene	12.584	228	528678	37.88	ng		100
99) 3,3'-Dichlorobenzidine	12.590	252	195683	38.50	ng		99
100) Chrysene	12.627	228	543216	37.50	ng		99
101) Bis(2-ethylhexyl)phthalate	12.729	149	320053	39.53	ng		100
102) Di-n-octyl phthalate	13.407	149	501738	37.08	ng		99
103) 3-Methylcholanthrene	14.342	268	237084	50.01	ng		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

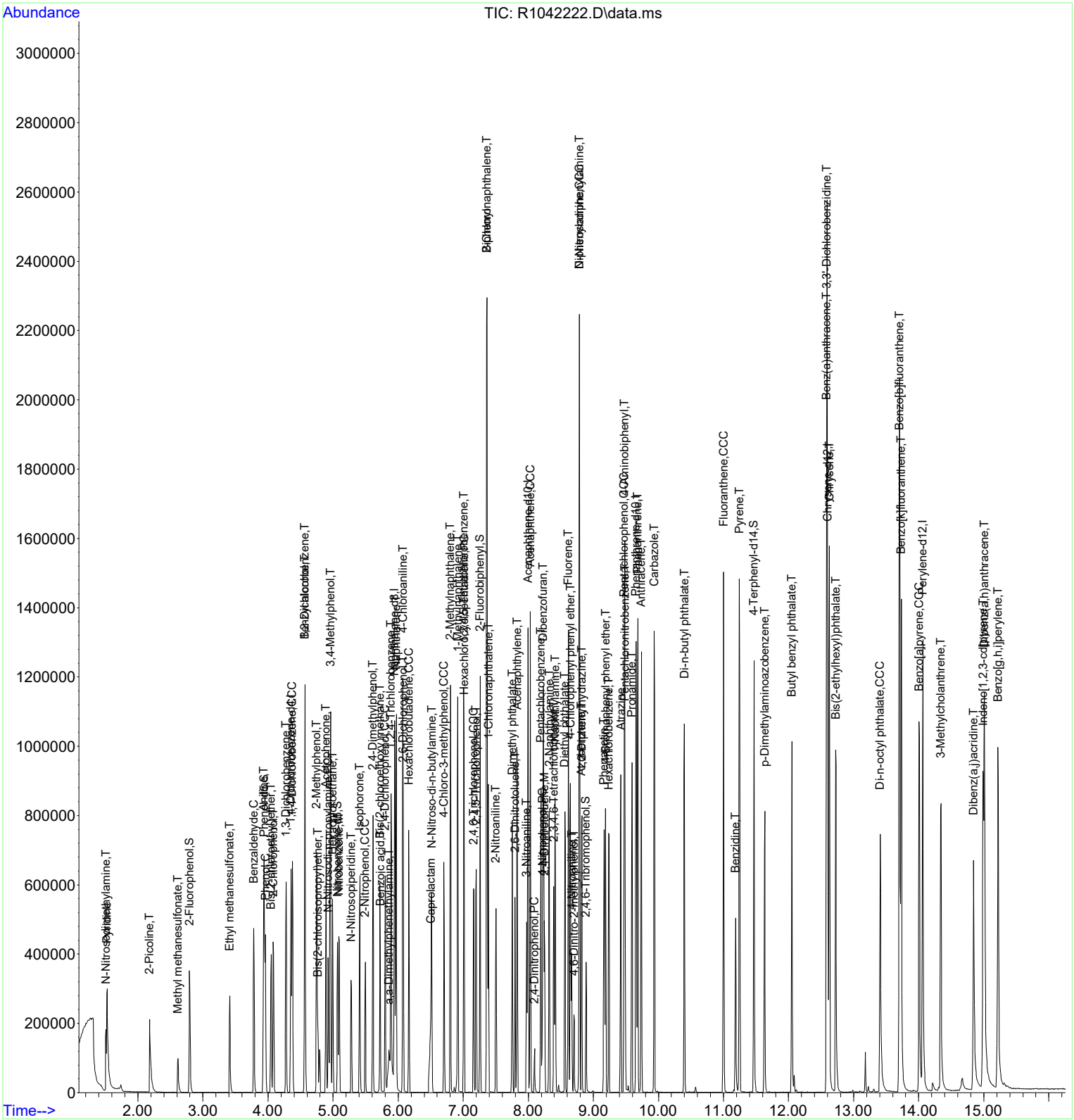
Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	14.988	276	604103	37.18	ng	97
106) Benzo[b]fluoranthene	...	13.701	252	537627	33.69	ng	98
107) Benzo[k]fluoranthene	...	13.733	252	575470	36.20	ng	100
108) Benzo[a]pyrene	...	14.011	252	474062	33.86	ng	98
109) Dibenz(a,j)acridine	...	14.844	279	372972	31.12	ng	99
110) Dibenz(a,h)anthracene	...	15.010	278	500840	34.03	ng	99
111) Benzo[g,h,i]perylene	...	15.218	276	518070	34.52	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042222.D
Acq On : 22 Apr 2021 3:13 pm
Operator : YH
Sample : BNA 40 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 15:08:54 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.352	152	117275	40.00	ng		0.00
23) Naphthalene-d8	...	5.949	136	452355	40.00	ng		0.00
45) Acenaphthene-d10	...	7.995	164	262352	40.00	ng		0.00
73) Phenanthrene-d10	...	9.662	188	463559	40.00	ng		0.00
92) Chrysene-d12	...	12.605	240	436890	40.00	ng		0.01
105) Perylene-d12	...	14.069	264	498417	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.797	112	284576	77.78	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 77.78%					
9) Phenol-d5	...	3.951	99	346490	78.00	ng		0.01
Spiked Amount 100.000	Range 10 - 110		Recovery = 78.00%					
24) Nitrobenzene-d5	...	5.073	82	283131	80.81	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 161.62%#					
50) 2-Fluorobiphenyl	...	7.263	172	679566	80.21	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 160.42%#					
72) 2,4,6-Tribromophenol	...	8.898	330	84826	83.61	ng		0.01
Spiked Amount 100.000	Range 10 - 123		Recovery = 83.61%					
94) 4-Terphenyl-d14	...	11.473	244	856922	79.35	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 158.70%#					
Target Compounds								Qvalue
2) Pyridine	...	1.520	79	324877	72.22	ng		98
3) 2-Picoline	...	2.172	93	309483	67.78	ng		98
4) Methyl methanesulfonate	...	2.615	80	138787	72.70	ng		95
6) Ethyl methanesulfonate	...	3.417	79	212679	71.41	ng		97
7) Benzaldehyde	...	3.780	105	162153	68.34	ng		98
8) Aniline	...	3.935	66	162128	71.95	ng	#	87
10) Phenol	...	3.967	94	398778	73.98	ng	#	58
11) Bis(2-chloroethyl)ether	...	4.052	93	298595	78.11	ng		99
12) 2-Chlorophenol	...	4.084	128	311085	75.39	ng		99
13) 1,3-Dichlorobenzene	...	4.277	146	354135	75.25	ng		99
14) 1,4-Dichlorobenzene	...	4.378	146	361217	75.93	ng		98
15) 1,2-Dichlorobenzene	...	4.571	146	330814	74.63	ng		99
16) Benzyl alcohol	...	4.576	108	199067	75.11	ng		93
17) Bis(2-chloroisopropyl)ether	...	4.763	45	257283	64.36	ng		92
18) 2-Methylphenol	...	4.752	107	240629	77.58	ng		94
19) 3,4-Methylphenol	...	4.971	107	646727	160.34	ng		98
20) N-Nitrosodi-n-propylamine	...	4.934	70	186619	73.34	ng		93
21) N-Nitrosodimethylamine	...	1.510	42	104260	75.58	ng	#	83
22) Hexachloroethane	...	4.993	117	128618	76.65	ng		98
25) Acetophenone	...	4.896	105	416412	81.17	ng		98
26) Nitrobenzene	...	5.099	123	159159	80.30	ng		92
27) N-Nitrosopiperidine	...	5.286	114	154017	78.81	ng		89
28) Isophorone	...	5.415	82	553417	76.57	ng		97
29) 2-Nitrophenol	...	5.500	139	160376	84.54	ng		95
30) 2,4-Dimethylphenol	...	5.618	122	276724	78.92	ng		96
31) Bis(2-chloroethoxy)methane	...	5.724	93	355627	78.18	ng		100
32) 2,4-Dichlorophenol	...	5.810	162	268848	80.10	ng		98
33) 1,2,4-Trichlorobenzene	...	5.895	180	298827	78.92	ng		99
34) Naphthalene	...	5.976	128	925495	78.12	ng		99
35) Benzoic acid	...	5.778	122	59119	80.31	ng	#	74
36) 2,6-Dichlorophenol	...	6.082	162	256957	78.59	ng		99
37) 4-Chloroaniline	...	6.077	127	385234	77.43	ng		99
38) Hexachlorobutadiene	...	6.168	225	165684	76.81	ng		99
39) a,a-Dimethylphenethylamine	...	5.917	58	703377	77.60	ng		89
40) Caprolactam	...	6.547	113	123761	97.22	ng	#	81

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 4-Chloro-3-methylphenol	6.713	107	258118	80.56	ng	94
42) N-Nitroso-di-n-butylamine	6.520	84	229104	81.03	ng	90
43) 2-Methylnaphthalene	6.809	141	524335	76.34	ng	98
44) 1-Methylnaphthalene	6.916	141	524086	77.67	ng	98
46) 1,2,4,5-Tetrachlorobenzene	7.012	216	288039	79.39	ng	99
47) Hexachlorocyclopentadiene	7.017	237	138861	69.45	ng	98
48) 2,4,6-Trichlorophenol	7.167	196	190219	81.39	ng	97
49) 2,4,5-Trichlorophenol	7.204	196	214469	81.91	ng	98
51) Biphenyl	7.370	154	796639	87.39	ng	98
52) 2-Chloronaphthalene	7.370	162	685295	89.64	ng	99
53) 1-Chloronaphthalene	7.391	162	448822	64.94	ng	98
54) 2-Nitroaniline	7.509	65	149853	83.51	ng	92
55) 3-Nitroaniline	7.984	138	174849	82.32	ng	95
56) Pentachlorobenzene	8.198	250	260639	81.42	ng	99
57) 4-Nitroaniline	8.684	138	186467	84.59	ng	95
58) 2-Naphthylamine	8.326	143	558797	72.70	ng	98
59) 1-Naphthylamine	8.422	143	558387	67.96	ng	98
60) Dimethyl phthalate	7.760	163	662430	79.95	ng	100
61) Acenaphthylene	7.829	152	901382	78.73	ng	99
62) 2,6-Dinitrotoluene	7.803	165	153509	88.63	ng	95
63) Acenaphthene	8.038	154	561699	80.95	ng	98
64) 2,4-Dinitrophenol	8.107	184	49592	68.19	ng	92
65) Dibenzofuran	8.235	168	849540	79.68	ng	100
66) 4-Nitrophenol	8.230	109	78612	75.66	ng	95
67) 2,4-Dinitrotoluene	8.257	165	206050	85.55	ng	95
68) 2,3,4,6-Tetrachlorophenol	8.401	232	154439	83.87	ng	99
69) Diethyl phthalate	8.572	149	645811	80.45	ng	100
70) Fluorene	8.620	166	691544	77.93	ng	99
71) 4-Chlorophenyl phenyl ether	8.652	204	341526	80.09	ng	100
74) 4,6-Dinitro-2-methylphenol	8.732	198	85107	67.23	ng	98
75) Azobenzene	8.828	77	629796	85.48	ng	98
76) 1,2-Diphenylhydrazine	8.828	182	199248	88.47	ng	95
77) Diphenylamine	8.796	170	141670	90.24	ng	98
78) N-Nitrosodiphenylamine	8.796	168	664902	89.80	ng	100
79) 4-Bromophenyl phenyl ether	9.191	248	196654	78.96	ng	97
80) Phenacetin	9.181	108	324626	85.64	ng	98
81) Hexachlorobenzene	9.245	284	211749	79.37	ng	97
82) Atrazine	9.432	200	226406	97.72	ng	97
83) 4-Aminobiphenyl	9.485	169	700708	74.72	ng	100
84) Pentachlorophenol	9.485	266	113129	76.58	ng	99
85) Pentachloronitrobenzene	9.491	237	82838	85.46	ng	96
86) Pronamide	9.603	173	314699	93.32	ng	100
87) Phenanthrene	9.688	178	986064	78.09	ng	99
88) Anthracene	9.742	178	893851	70.37	ng	99
89) Carbazole	9.945	167	1103226	96.81	ng	99
90) Di-n-butyl phthalate	10.399	149	1082795	80.09	ng	100
91) Fluoranthene	11.008	202	1131123	80.48	ng	99
93) Pyrene	11.254	202	1175267	77.36	ng	99
95) Benzidine	11.189	184	440264	77.46	ng	100
96) p-Dimethylaminoazobenzene	11.638	225	245101	81.41	ng	99
97) Butyl benzyl phthalate	12.055	149	500949	80.28	ng	98
98) Benz(a)anthracene	12.589	228	1119207	78.61	ng	99
99) 3,3'-Dichlorobenzidine	12.600	252	420107	81.00	ng	99
100) Chrysene	12.632	228	1124175	76.06	ng	99
101) Bis(2-ethylhexyl)phthalate	12.728	149	700243	84.77	ng	99
102) Di-n-octyl phthalate	13.412	149	1139974	82.58	ng	99
103) 3-Methylcholanthrene	14.347	268	530898	109.77	ng	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration

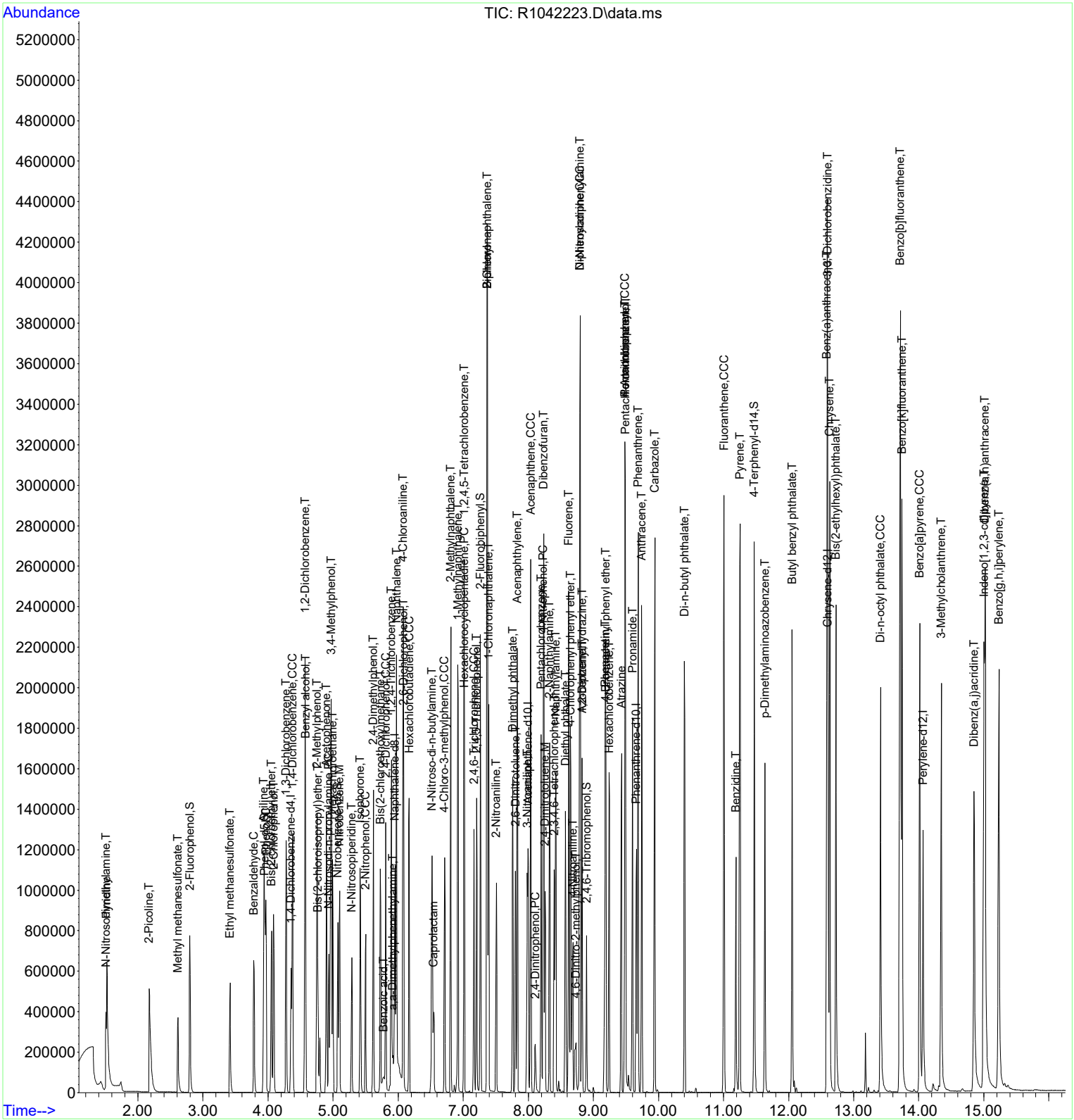
Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
104) Indeno[1,2,3-cd]pyrene	...	15.004	276	1362555	82.18	ng	98
106) Benzo[b]fluoranthene	...	13.716	252	1181419	70.53	ng	98
107) Benzo[k]fluoranthene	...	13.743	252	1189646	71.31	ng	100
108) Benzo[a]pyrene	...	14.015	252	1035168	70.45	ng	99
109) Dibenz(a,j)acridine	...	14.849	279	856635	68.11	ng	99
110) Dibenz(a,h)anthracene	...	15.020	278	1114812	72.16	ng	99
111) Benzo[g,h,i]perylene	...	15.233	276	1144521	72.66	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\R210422\
Data File : R1042223.D
Acq On : 22 Apr 2021 3:40 pm
Operator : YH
Sample : BNA 80 973-90/
Misc : ICV 8270_TCL4.2_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 15:06:48 2021
Quant Method : C:\msdchem\1\METHODS\B042221.M
Quant Title : MS-10 BNA CURVE 8270E/625
QLast Update : Fri Apr 23 14:54:46 2021
Response via : Initial Calibration



Response Factor Report Instrument #10

Method Path : C:\msdchem\1\METHODS\
Method File : B042221.M
Title : MS-10 BNA CURVE 8270E/625
Last Update : Fri Apr 23 14:54:46 2021
Response Via : Initial Calibration

Calibration Files
160 =R1042218.D 60 =R1042213.D 40 =R1042212.D 120 =R1042217.D 80 =R1042214.D 10 =R1042210.D 20 =R1042211.D
5 =R1042219.D

		Compound	160	60	40	120	80	10	20	5	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		Pyridine	1.538	1.535	1.599	1.523	1.519	1.470	1.557		1.534	2.55
3)	T	2-Picoline	1.585	1.531	1.600	1.554	1.563	1.487	1.583		1.557	2.48
4)	T	Methyl methane...	0.660	0.656	0.655	0.646	0.658	0.636	0.646		0.651	1.33
5)	S	2-Fluorophenol	1.260	1.267	1.259	1.242	1.271	1.226	1.210		1.248	1.82
6)	T	Ethyl methanes...	1.023	1.026	1.024	1.005	1.027	1.010	0.996		1.016	1.19
7)	C	Benzaldehyde	0.935	0.749	0.834	0.802	0.645	0.858	0.841		0.809	11.32#
8)	T	Aniline	0.753	0.798	0.769	0.752	0.758	0.780	0.770		0.769	2.16
9)	S	Phenol-d5	1.503	1.525	1.539	1.501	1.538	1.511	1.490		1.515	1.26
10)	C	Phenol	1.809	1.857	1.876	1.806	1.861	1.833	1.827		1.838	1.46
11)	T	Bis(2-chloroet...	1.276	1.326	1.349	1.259	1.296	1.326	1.295		1.304	2.40
12)	T	2-Chlorophenol	1.418	1.424	1.417	1.399	1.435	1.384	1.375		1.407	1.57
13)	T	1,3-Dichlorobe...	1.559	1.626	1.650	1.565	1.628	1.619	1.591		1.605	2.14
14)	CCC	1,4-Dichlorobe...	1.564	1.652	1.650	1.577	1.633	1.658	1.624		1.623	2.32
15)	T	1,2-Dichlorobe...	1.446	1.534	1.553	1.458	1.523	1.554	1.516		1.512	2.88
16)	T	Benzyl alcohol	0.916	0.921	0.922	0.904	0.929	0.864	0.872		0.904	2.88
17)	T	Bis(2-chlorois...	1.202	1.406	1.441	1.240	1.333	1.488	1.434		1.364	7.95
18)	T	2-Methylphenol	1.042	1.079	1.084	1.040	1.075	1.048	1.037		1.058	1.95
19)	T	3,4-Methylphenol	1.303	1.399	1.420	1.349	1.411	1.389	1.384	1.351	1.376	2.83
20)	PC	N-Nitrosodi-n-...	0.791	0.899	0.891	0.836	0.902	0.882	0.875		0.868	4.68
21)	T	N-Nitrosodimet...	0.464	0.480	0.491	0.455	0.463	0.481	0.460		0.471	2.86
22)	T	Hexachloroethane	0.541	0.581	0.582	0.569	0.591	0.573	0.570		0.572	2.77
23)	I	Naphthalene-d8	----------ISTD----------									
24)	S	Nitrobenzene-d5	0.313	0.312	0.313	0.309	0.322	0.301	0.298		0.310	2.62
25)	T	Acetophenone	0.427	0.462	0.465	0.428	0.455	0.468	0.457	0.467	0.454	3.66
26)	M	Nitrobenzene	0.176	0.177	0.177	0.177	0.182	0.170	0.168		0.175	2.75
27)	T	N-Nitrosopiper...	0.172	0.177	0.174	0.171	0.178	0.170	0.169		0.173	2.02
28)	T	Isophorone	0.628	0.651	0.655	0.626	0.643	0.641	0.630		0.639	1.82
29)	CCC	2-Nitrophenol	0.185	0.171	0.165	0.181	0.184	0.141	0.146		0.168	10.80
30)	T	2,4-Dimethylph...	0.307	0.319	0.317	0.305	0.317	0.302	0.302		0.310	2.41
31)	T	Bis(2-chloroet...	0.393	0.411	0.414	0.393	0.407	0.405	0.392		0.402	2.28
32)	CCC	2,4-Dichloroph...	0.297	0.303	0.303	0.300	0.309	0.281	0.284		0.297	3.61
33)	T	1,2,4-Trichlor...	0.325	0.340	0.341	0.328	0.341	0.340	0.328		0.335	2.16
34)	T	Naphthalene	0.965	1.066	1.084	0.989	1.056	1.093	1.053	1.074	1.048	4.39
35)	T	Benzoic acid	0.094	0.046	0.019	0.079	0.063				0.060	48.64
36)	T	2,6-Dichloroph...	0.287	0.295	0.295	0.289	0.299	0.282	0.277		0.289	2.68
37)	T	4-Chloroaniline	0.420	0.453	0.454	0.426	0.449	0.443	0.435		0.440	2.97
38)	CCC	Hexachlorobuta...	0.188	0.194	0.195	0.187	0.193	0.193	0.185		0.191	2.15
39)	T	a,a-Dimethylph...	0.844	0.825	0.819	0.817	0.830	0.717	0.758		0.802	5.73
40)		Caprolactam	0.119	0.116	0.114	0.116	0.118	0.099	0.105		0.113	6.67
41)	CCC	4-Chloro-3-met...	0.292	0.291	0.286	0.289	0.295	0.264	0.267		0.283	4.34

Method Path : C:\msdchem\1\METHODS\
Method File : B042221.M
Title : MS-10 BNA CURVE 8270E/625

42)	T	N-Nitroso-di-n...	0.222	0.291	0.292	0.229	0.289	0.214	0.213		0.250	15.43
43)	T	2-Methylnaphth...	0.574	0.623	0.625	0.584	0.619	0.621	0.602	0.612	0.607	3.18
44)	T	1-Methylnaphth...	0.564	0.609	0.615	0.571	0.602	0.609	0.595	0.610	0.597	3.20
45)	I	Acenaphthene-d10	----------ISTD----------									
46)	T	1,2,4,5-Tetrac...	0.526	0.558	0.569	0.530	0.555	0.572	0.562		0.553	3.25
47)	PC	Hexachlorocycl...	0.319	0.317	0.309	0.316	0.328	0.268	0.278		0.305	7.49
48)	CCC	2,4,6-Trichlor...	0.377	0.366	0.356	0.372	0.374	0.319	0.331		0.356	6.45
49)	T	2,4,5-Trichlor...	0.417	0.412	0.407	0.409	0.416	0.359	0.375		0.399	5.70
50)	S	2-Fluorobiphenyl	1.231	1.312	1.330	1.240	1.300	1.326	1.303		1.292	3.10
51)		Biphenyl	1.210	1.421	1.479	1.277	1.397	1.500	1.445		1.390	7.74
52)	T	2-Chloronaphth...	1.172	1.193	1.171	1.129	1.134	1.195	1.166		1.166	2.22
53)	T	1-Chloronaphth...	0.910	1.062	1.142	0.981	1.108	1.089	1.084		1.054	7.64
54)	T	2-Nitroaniline	0.295	0.281	0.275	0.290	0.292	0.232	0.249		0.274	8.79
55)	T	3-Nitroaniline	0.361	0.331	0.323	0.348	0.348	0.268	0.288		0.324	10.58
56)	T	Pentachloroben...	0.489	0.490	0.492	0.483	0.495	0.489	0.479		0.488	1.12
57)	T	4-Nitroaniline	0.374	0.347	0.337	0.359	0.358	0.280	0.299		0.336	10.24
58)	T	2-Naphthylamine	1.143	1.193	1.213	1.142	1.196	1.148	1.169		1.172	2.47
59)	T	1-Naphthylamine	1.220	1.270	1.286	1.207	1.263	1.279	1.245		1.253	2.39
60)	T	Dimethyl phtha...	1.277	1.274	1.279	1.249	1.276	1.255	1.232		1.263	1.41
61)	T	Acenaphthylene	1.674	1.774	1.812	1.693	1.773	1.769	1.725		1.746	2.86
62)	T	2,6-Dinitrotol...	0.302	0.271	0.261	0.289	0.287	0.206	0.231		0.264	13.01
63)	CCC	Acenaphthene	1.010	1.073	1.085	1.021	1.064	1.091	1.062		1.058	2.92
64)	PC	2,4-Dinitrophenol	0.141	0.092	0.077	0.127	0.113		0.053		0.100	32.46#
65)	T	Dibenzofuran	1.537	1.667	1.685	1.551	1.627	1.669	1.644		1.626	3.64
66)	PC	4-Nitrophenol	0.173	0.163	0.154	0.167	0.168	0.147	0.137		0.158	8.26
67)	M	2,4-Dinitrotol...	0.426	0.381	0.364	0.403	0.405	0.278	0.314		0.367	14.57
68)	T	2,3,4,6-Tetrac...	0.314	0.287	0.278	0.305	0.304	0.233	0.245		0.281	11.12
69)	T	Diethyl phthalate	1.231	1.238	1.247	1.230	1.239	1.196	1.186		1.224	1.91
70)	T	Fluorene	1.311	1.385	1.387	1.307	1.361	1.360	1.360		1.353	2.38
71)	T	4-Chlorophenyl...	0.648	0.657	0.657	0.635	0.659	0.654	0.640		0.650	1.44
72)	S	2,4,6-Tribromo...	0.178	0.157	0.152	0.170	0.167	0.126	0.132		0.155	12.55
73)	I	Phenanthrene-d10	----------ISTD----------									
74)	T	4,6-Dinitro-2-...	0.129	0.094	0.082	0.117	0.110	0.048	0.061		0.091	32.43
75)	T	Azobenzene	0.690	0.635	0.642	0.591	0.626	0.637	0.630		0.636	4.58
76)	T	1,2-Diphenylhy...	0.194	0.197	0.197	0.192	0.195	0.194	0.192		0.194	1.12
77)	CCC	Diphenylamine	0.129	0.139	0.139	0.131	0.137	0.137	0.136		0.135	2.85
78)	T	N-Nitrosodiphe...	0.599	0.649	0.655	0.612	0.644	0.664	0.649		0.639	3.76
79)	T	4-Bromophenyl ...	0.213	0.216	0.215	0.209	0.221	0.215	0.214		0.215	1.59
80)	T	Phenacetin	0.336	0.342	0.336	0.332	0.347	0.289	0.306		0.327	6.45
81)	T	Hexachlorobenzene	0.233	0.231	0.230	0.231	0.234	0.226	0.226		0.230	1.35
82)		Atrazine	0.198	0.204	0.204	0.199	0.207	0.187	0.200		0.200	3.29
83)	T	4-Aminobiphenyl	0.749	0.849	0.847	0.781	0.833	0.789	0.816		0.809	4.64
84)	CCC	Pentachlorophenol	0.149	0.133	0.124	0.144	0.143	0.093	0.107		0.127	16.25
85)	T	Pentachloronit...	0.090	0.087	0.084	0.088	0.089	0.070	0.077		0.084	8.70
86)	T	Pronamide	0.304	0.299	0.297	0.300	0.304	0.261	0.273		0.291	5.89
87)	T	Phenanthrene	1.035	1.111	1.119	1.040	1.090	1.125	1.106		1.090	3.40
88)	T	Anthracene	1.044	1.121	1.133	1.058	1.110	1.100	1.107		1.096	3.00
89)	T	Carbazole	0.962	1.002	1.011	0.956	0.998	0.982	0.973		0.983	2.13
90)	T	Di-n-butyl pht...	1.171	1.210	1.202	1.163	1.216	1.080	1.124		1.167	4.28
91)	CCC	Fluoranthene	1.196	1.252	1.240	1.195	1.244	1.179	1.184		1.213	2.55

Method Path : C:\msdchem\1\METHODS\
Method File : B042221.M
Title : MS-10 BNA CURVE 8270E/625

92)	I	Chrysene-d12	----------ISTD----------								
93)	T	Pyrene	1.367	1.406	1.408	1.353	1.397	1.404	1.402	1.391	1.57
94)	S	4-Terphenyl-d14	1.013	1.007	0.996	0.979	1.010	0.956	0.959	0.989	2.43
95)	T	Benzidine	0.363	0.551	0.563	0.617	0.513	0.517	0.520	0.520	15.10
96)	T	p-Dimethylamin...	0.310	0.282	0.275	0.300	0.297	0.223	0.243	0.276	11.51
97)	T	Butyl benzyl p...	0.623	0.593	0.564	0.603	0.606	0.489	0.521	0.571	8.64
98)	T	Benz(a)anthracene	1.318	1.339	1.311	1.296	1.343	1.261	1.258	1.304	2.62
99)	T	3,3'-Dichlorob...	0.429	0.503	0.503	0.463	0.489	0.462	0.475	0.475	5.59
100)	T	Chrysene	1.342	1.365	1.372	1.335	1.366	1.355	1.338	1.353	1.12
101)	T	Bis(2-ethylhex...	0.856	0.812	0.778	0.836	0.841	0.655	0.702	0.572	0.756	13.61
102)	CCC	Di-n-octyl pht...	1.450	1.320	1.249	1.411	1.401	0.948	1.068	1.264	15.04
103)	T	3-Methylcholan...	0.500	0.454	0.432	0.484	0.484	0.359	0.387	0.443	12.03
104)	T	Indeno[1,2,3-c...	1.648	1.557	1.499	1.598	1.636	1.306	1.382	1.518	8.62
105)	I	Perylene-d12	----------ISTD----------								
106)	T	Benzo[b]fluora...	1.457	1.385	1.334	1.519	1.311	1.179	1.225	1.344	8.98
107)	T	Benzo[k]fluora...	1.147	1.420	1.451	1.154	1.269	1.469	1.462	1.339	10.87
108)	CCC	Benzo[a]pyrene	1.232	1.273	1.180	1.234	1.187	1.048	1.101	1.179	6.76
109)	T	Dibenz(a,j)acr...	1.134	1.056	0.997	1.116	1.074	0.812	0.877	1.009	12.13
110)	T	Dibenz(a,h)ant...	1.270	1.312	1.264	1.285	1.255	1.115	1.177	1.240	5.55
111)	T	Benzo[g,h,i]pe...	1.289	1.346	1.294	1.296	1.232	1.165	1.227	1.264	4.73

(#) = Out of Range

Injection Log

Directory: C:\msdchem\1\data\T211122

Line	Vial	FileName	Multiplier	SampleName		Misc Info	Injected
1	1	T21112201.D	1.	DFTPP		TUNE DFTPP_4	22 Nov 2021 09:10
2	2	T21112202.D	1.	BNA80		CCV 8270_TCL4.2_S	22 Nov 2021 09:38
3	1	T21112203.D	1.	DFTPP		TUNE DFTPP_4	22 Nov 2021 10:06
4	2	T21112204.D	1.	BNA80		CCV 8270_TCL4.2_S	22 Nov 2021 10:34
5	1	T21112205.D	1.	DFTPP		TUNE DFTPP_4	22 Nov 2021 11:53
6	1	T21112206.D	1.	DFTPP		TUNE DFTPP_4	22 Nov 2021 12:25
7	2	T21112207.D	1.	BNA80		CCV 8270_TCL4.2_S	22 Nov 2021 12:55
8	3	T21112208.D	1.	BNA40		CCV 8270_TCL4.2_S	22 Nov 2021 13:24
9	2	T21112209.D	1.	BNA80		CCV 8270_TCL4.2_S	22 Nov 2021 13:53
10	3	T21112210.D	1.	BNA40		CCV 8270_TCL4.2_S	22 Nov 2021 14:22
11	4	T21112211.D	1.	BNA10	982-59/	ICAL 8270_TCL4.2_S	22 Nov 2021 14:50
12	5	T21112212.D	1.	BNA20	982-59/	ICAL 8270_TCL4.2_S	22 Nov 2021 15:18
13	6	T21112213.D	1.	BNA40	982-59/	ICAL 8270_TCL4.2_S	22 Nov 2021 16:50
14	7	T21112214.D	1.	BNA60	982-59/	ICAL 8270_TCL4.2_S	22 Nov 2021 17:19
15	8	T21112215.D	1.	BNA80	982-59/	ICAL 8270_TCL4.2_S	22 Nov 2021 17:48
16	9	T21112216.D	1.	BNA120	982-59/	ICAL 8270_TCL4.2_S	22 Nov 2021 18:17
17	10	T21112217.D	1.	BNA160	982-59/	ICAL 8270_TCL4.2_S	22 Nov 2021 18:46
18	11	T21112218.D	1.	BNA5	982-59/	ICAL 8270_TCL4.2_S	22 Nov 2021 19:13

Calibration Status Report MS-14

Method Path : C:\msdchem\1\methods\
Method File : B112221.M
Title : MS-14 BNA CURVE 8270E/625
Last Update : Wed Jan 05 10:09:20 2022
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	160	160	40	C:\msdchem\1\data\T211122\T21112217.D
2	60	60	40	C:\msdchem\1\data\T211122\T21112214.D
3	40	40	40	C:\msdchem\1\data\T211122\T21112213.D
4	120	120	40	C:\msdchem\1\data\T211122\T21112216.D
5	80	80	40	C:\msdchem\1\data\T211122\T21112215.D
6	10	10	40	C:\msdchem\1\data\T211122\T21112211.D
7	20	20	40	C:\msdchem\1\data\T211122\T21112212.D
8	5	-1	40	C:\msdchem\1\data\T210610\T21061010.D

#	ID	Update Time	Quant Time	Acquisition Time
1	160	Nov 23 11:24 2021	Nov 23 11:18 2021	22 Nov 2021 6:46 pm
2	60	Jan 05 10:09 2022	Jan 05 10:07 2022	22 Nov 2021 5:19 pm
3	40	Nov 23 11:40 2021	Nov 23 11:40 2021	22 Nov 2021 4:50 pm
4	120	Nov 23 11:24 2021	Nov 23 11:16 2021	22 Nov 2021 6:17 pm
5	80	Nov 23 11:24 2021	Nov 23 11:14 2021	22 Nov 2021 5:48 pm
6	10	Nov 23 11:39 2021	Nov 23 11:39 2021	22 Nov 2021 2:50 pm
7	20	Nov 23 11:36 2021	Nov 23 11:35 2021	22 Nov 2021 3:18 pm
8	5	Jun 14 14:58 2021	Jun 14 12:29 2021	10 Jun 2021 1:38 pm

B112221.M Wed Jan 05 10:27:42 2022

Area Percent Report

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112206.D
Acq On : 22 Nov 2021 12:25 pm
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\methods\DFTPP.M
Title :

Signal : TIC: T21112206.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.330	58	156	201	rVB3	582090	6659011	100.00%	61.367%
2	9.513	3023	3036	3053	rBV	1192966	939471	14.11%	8.658%
3	10.119	3241	3249	3257	rVB	1143182	853688	12.82%	7.867%
4	11.241	3634	3644	3661	rBV	1152468	966923	14.52%	8.911%
5	12.153	3957	3965	3977	rBV	1817603	1432079	21.51%	13.197%

Sum of corrected areas: 10851172

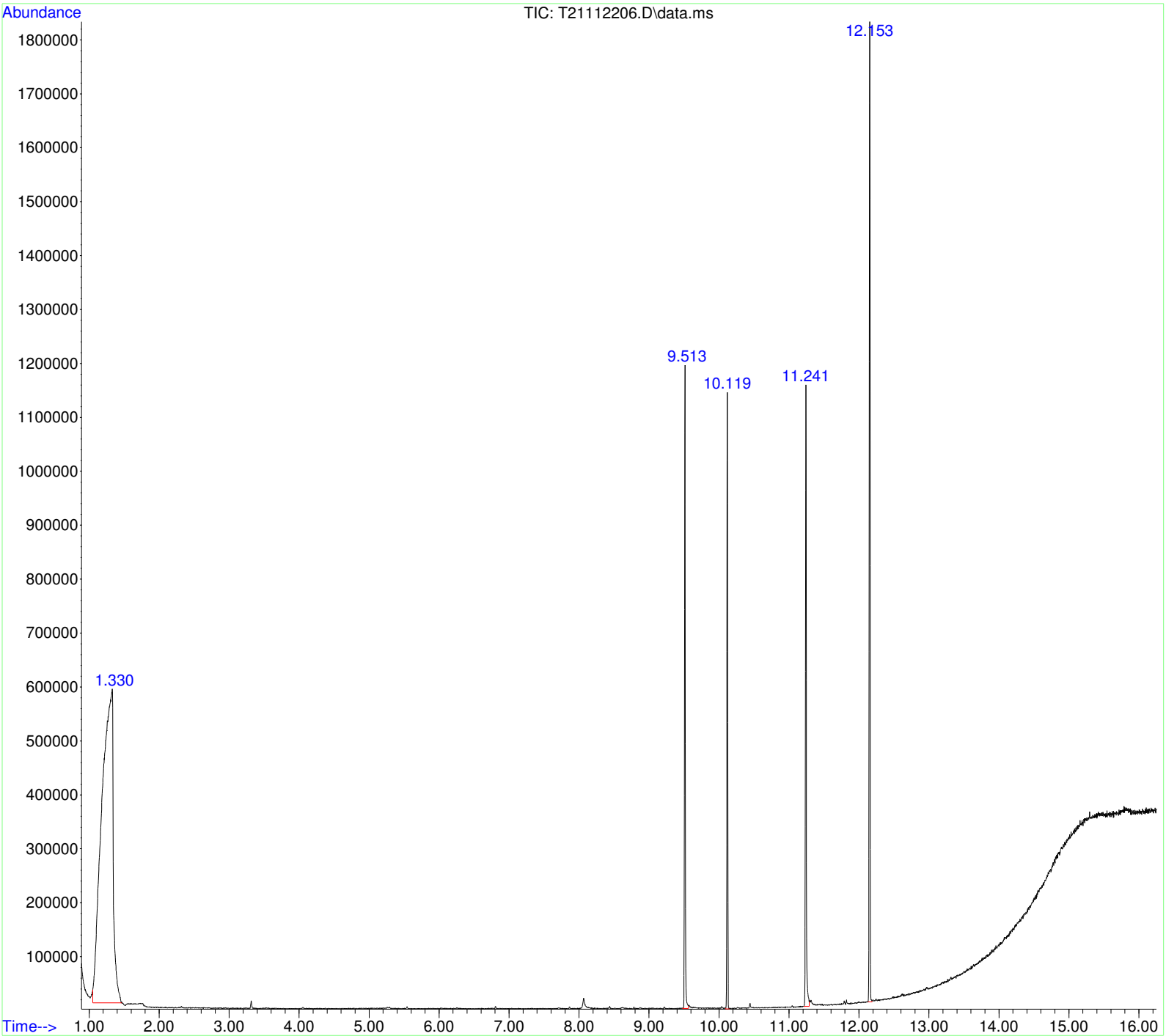
Area Percent Report

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112206.D
Acq On : 22 Nov 2021 12:25 pm
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\methods\DFTPP.M
Title :



Library Search Report

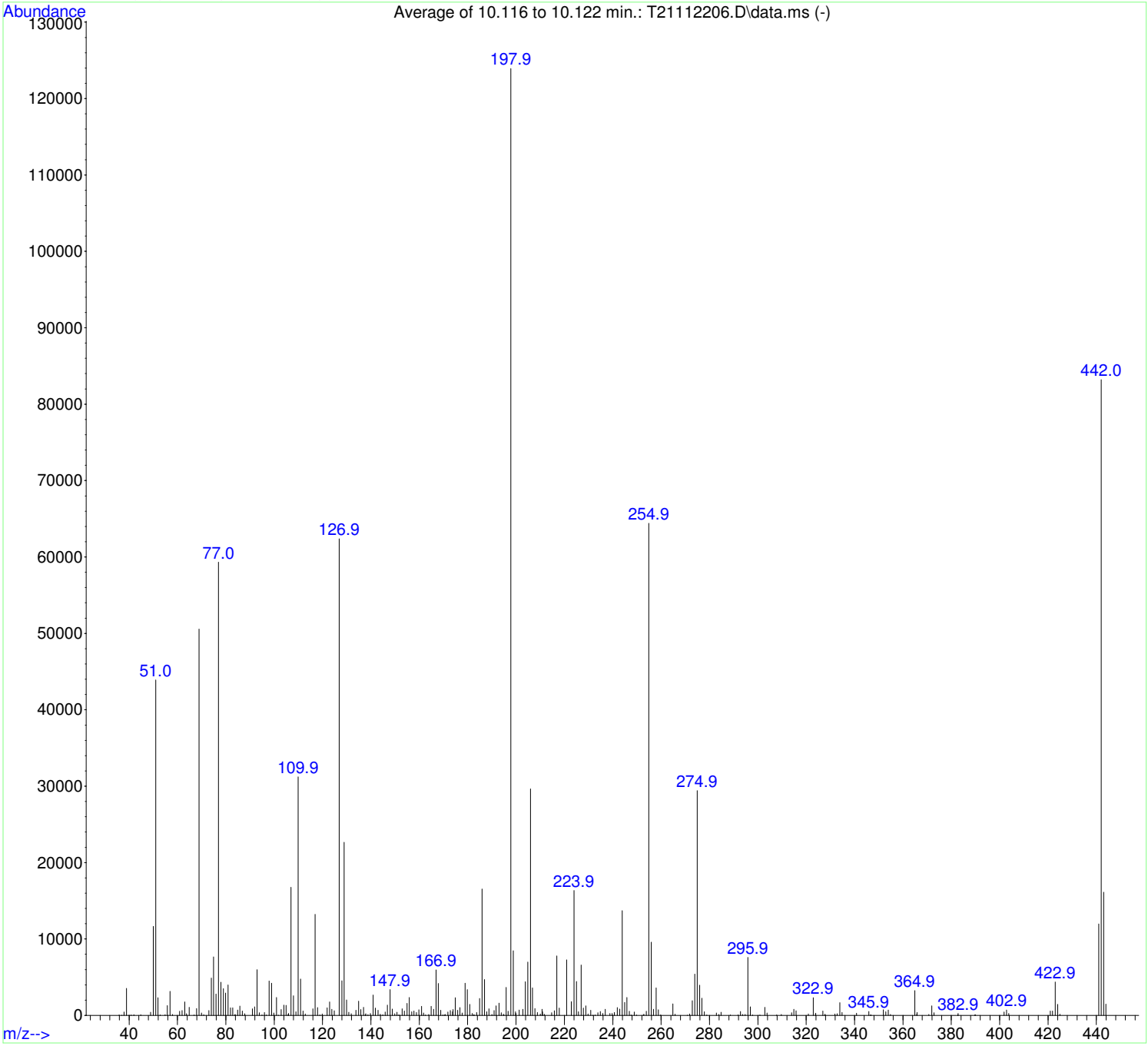
Data Path : C:\msdchem\1\data\T211122\
Data File : T21112206.D
Acq On : 22 Nov 2021 12:25 pm
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: C:\Database\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Events: RTE Integrator - rteint.p

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.330	61.37	C:\Database\NIST14.L			
			Methylene chloride	1542	000075-09-2	95
			Methylene chloride	1541	000075-09-2	94
			Methylene chloride	1543	000075-09-2	94
2	9.513	8.66	C:\Database\NIST14.L			
			Phenol, pentachloro-	125064	000087-86-5	99
			Phenol, pentachloro-	125062	000087-86-5	99
			Phenol, pentachloro-	125063	000087-86-5	94
3	10.119	7.87	C:\Database\NIST14.L			
			Bis(pentafluorophenyl)phenyl phosphine	254406	005074-71-5	99
			Bis(pentafluorophenyl)phenyl phosphine	254407	005074-71-5	60
			6,10-Methano-9H-cyclooct[b]indol-9-one, 5,6,7,8,10,11-hexahydro-2-methoxy-	116288	1000337-05-8	12
4	11.241	8.91	C:\Database\NIST14.L			
			Benzidine	51188	000092-87-5	96
			Benzidine	51192	000092-87-5	96
			Benzidine	51190	000092-87-5	95
5	12.153	13.20	C:\Database\NIST14.L			
			1,1-Dichloro-2,2-bis(p-chlorophenyl)ethane	176320	000072-54-8	94
			3-Butanone, 1,1-bis(4-chlorophenyl)-2,2-dimethyl-	178597	1000158-20-4	94
			1,1-Dichloro-2,2-bis(p-chlorophenyl)ethane	176322	000072-54-8	91

C:\msdchem\1\data\T211122\T21112206.D Wed Jan 05 09:53:49 2022



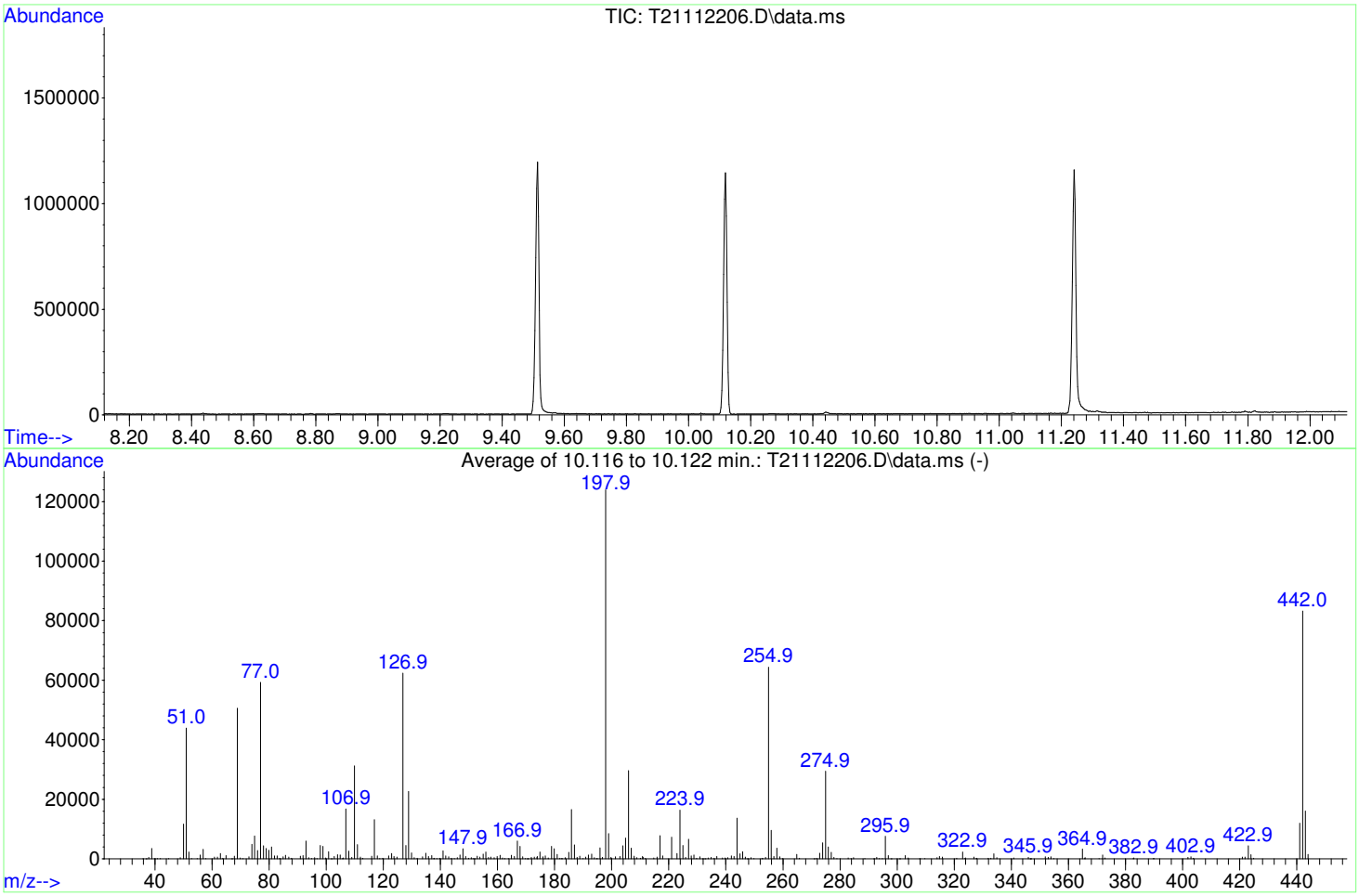
Peak Apex is scan: 3249
Average of 3 scans: 3248,3249,3250 minus background scan 3240

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	Relative Abundance,%	Result Pass/Fail
51	198	30	60	35.4	PASS
68	69	0	2	1.8	PASS
69	198	0	100	40.8	PASS
70	69	0	2	0.7	PASS
127	198	40	60	50.3	PASS
197	198	0	1	0.4	PASS
198	198	100	100	100.0	PASS
199	198	5	9	6.8	PASS
275	198	10	30	23.7	PASS
365	198	1	100	2.6	PASS
441	443	0	100	74.2	PASS
442	198	40	100	67.1	PASS
443	442	17	23	19.4	PASS

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112206.D
Acq On : 22 Nov 2021 12:25 pm
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\DFTPP.M
Title :
Last Update : Mon Oct 15 09:26:34 1990



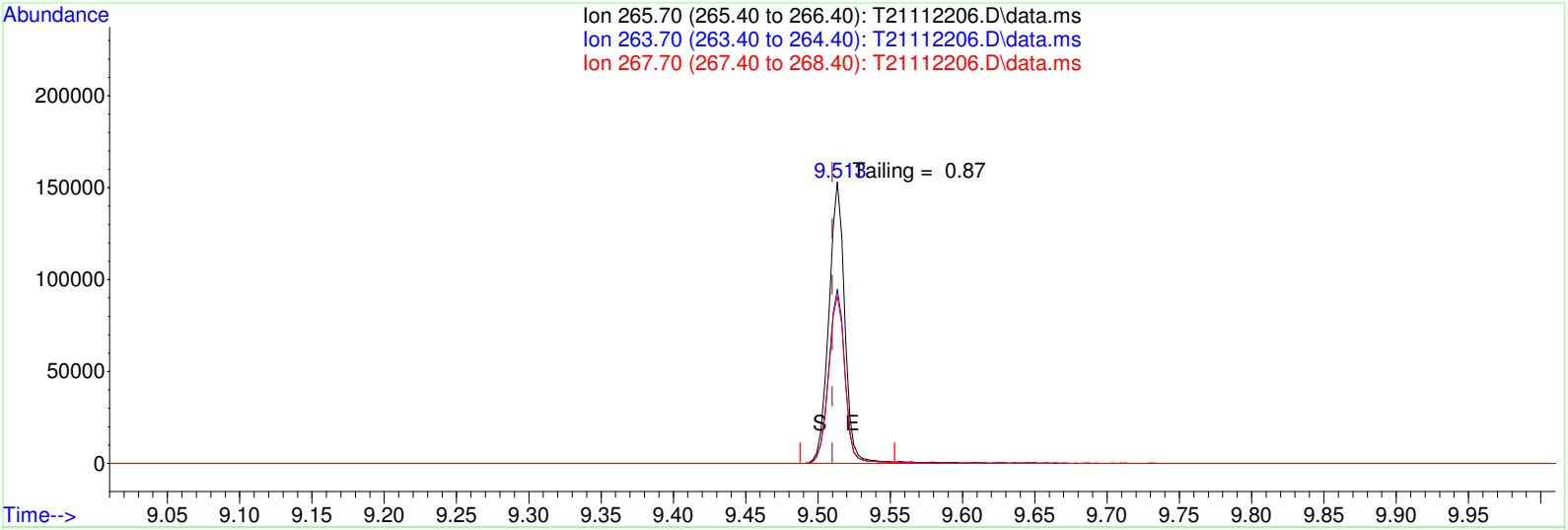
Spectrum Information: Average of 10.116 to 10.122 min.

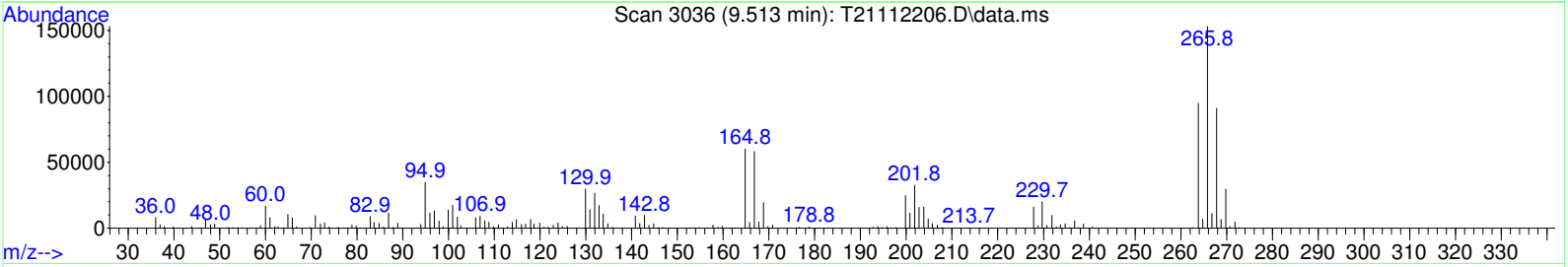
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.4	43893	PASS
68	69	0.00	2	1.8	895	PASS
69	198	0.00	100	40.8	50560	PASS
70	69	0.00	2	0.7	329	PASS
127	198	40	60	50.3	62392	PASS
197	198	0.00	1	0.4	553	PASS
198	198	100	100	100.0	123944	PASS
199	198	5	9	6.8	8469	PASS
275	198	10	30	23.7	29411	PASS
365	198	1	100	2.6	3251	PASS
441	443	0.01	100	74.2	11970	PASS
442	198	40	100	67.1	83227	PASS
443	442	17	23	19.4	16122	PASS

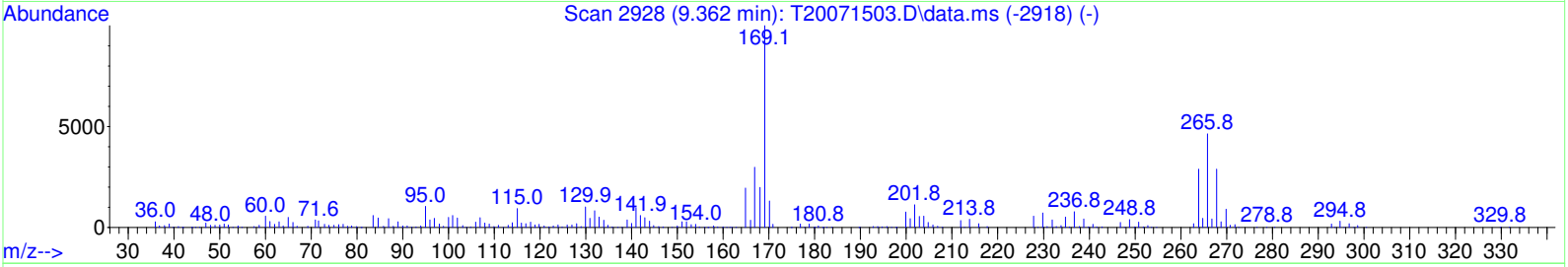
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112206.D
Acq On : 22 Nov 2021 12:25 pm
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 05 09:54:59 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:40:40 2021
Response via : Initial Calibration







TIC: T21112206.D\data.ms

(84) Pentachlorophenol (P)

9.513min (+ 0.003) 0.00 ng

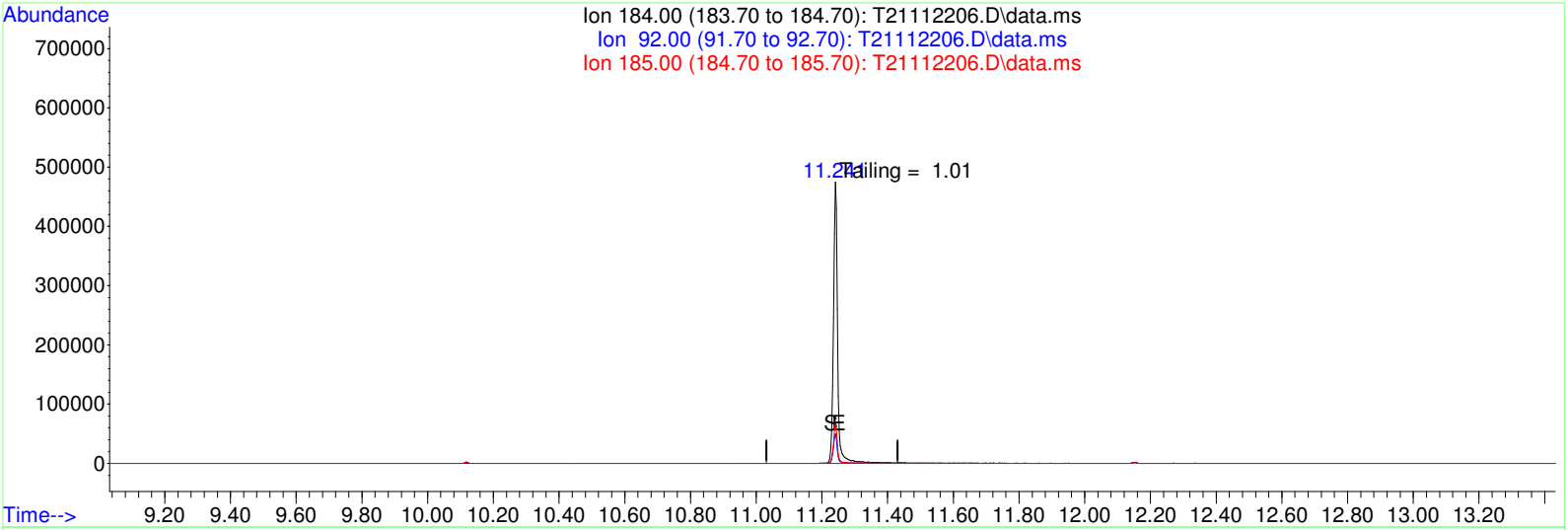
response 115521

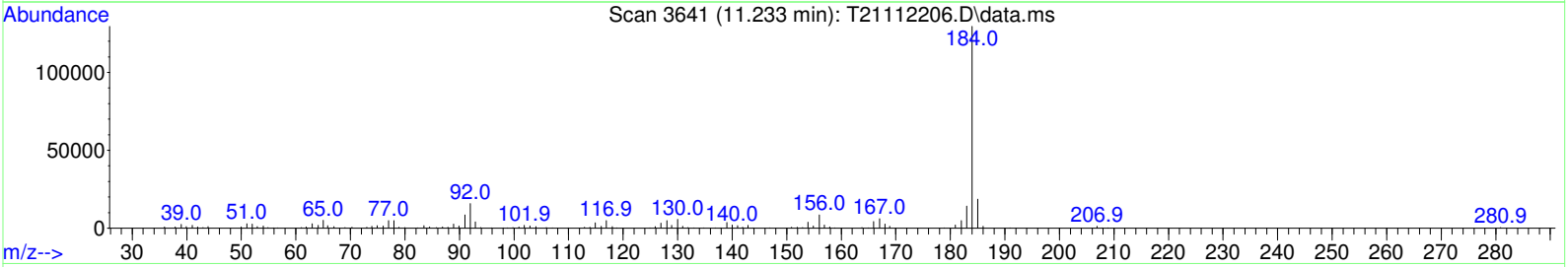
Ion	Exp%	Act%
265.70	100.00	100.00
263.70	64.80	63.45
267.70	64.40	62.02
0.00	0.00	0.00

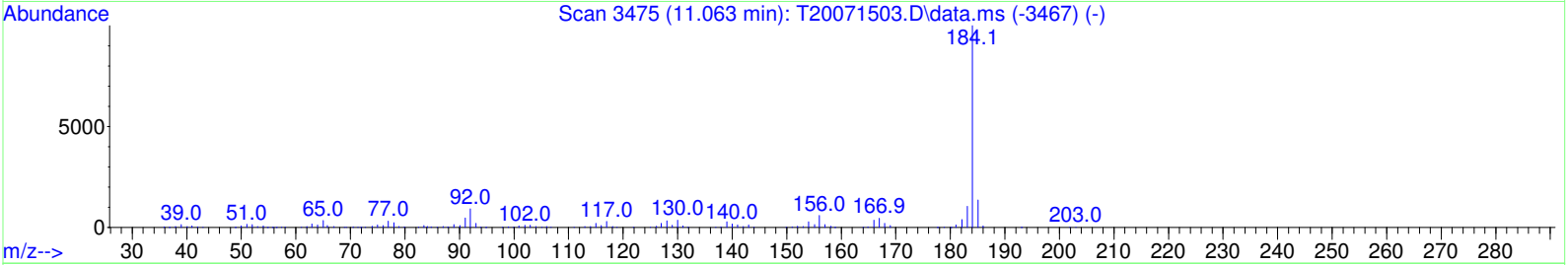
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112206.D
Acq On : 22 Nov 2021 12:25 pm
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 05 09:54:59 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:40:40 2021
Response via : Initial Calibration







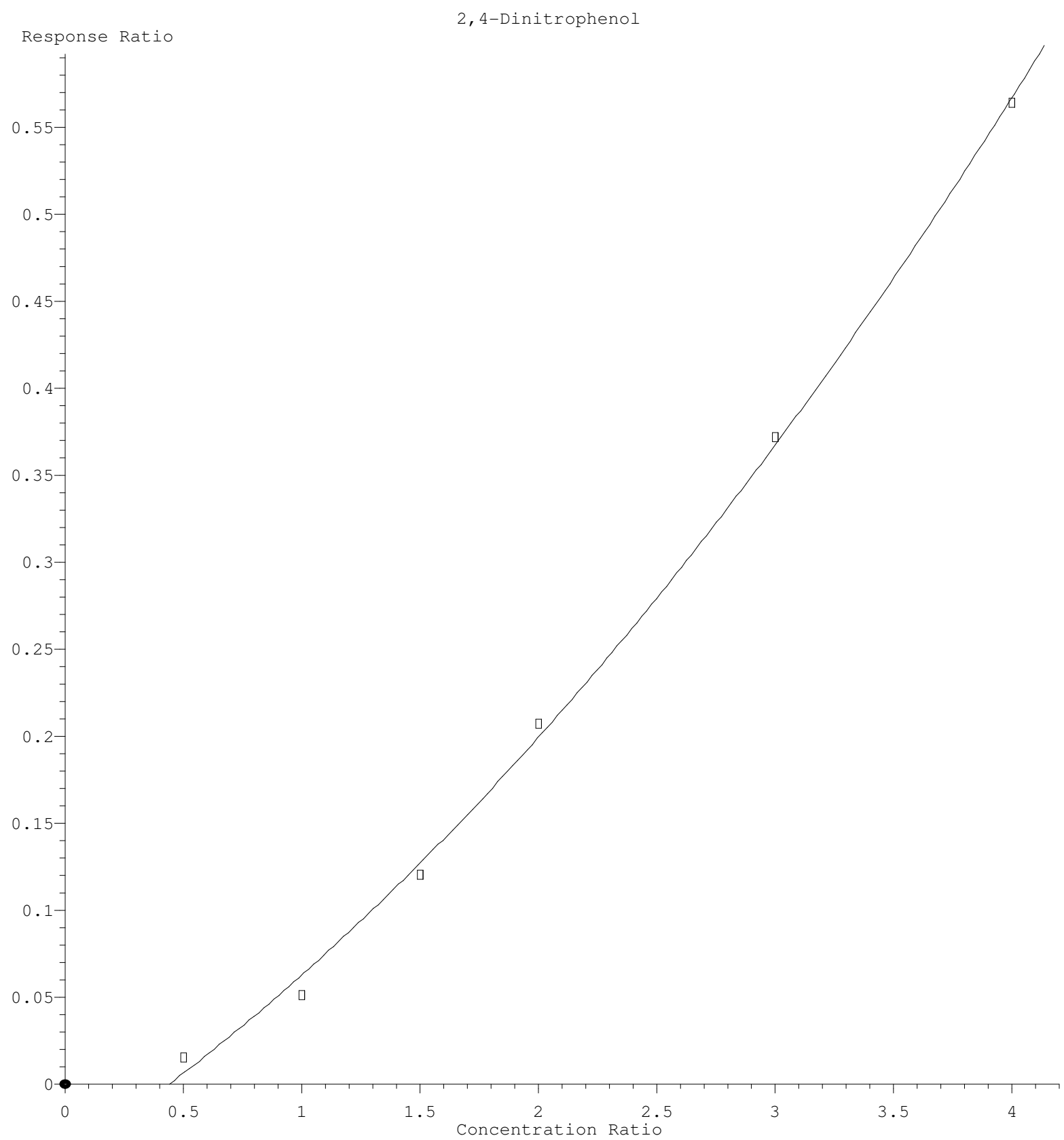
TIC: T21112206.D\data.ms

(95) Benzidine (T)

11.232min (-11.232) 0.00 ng

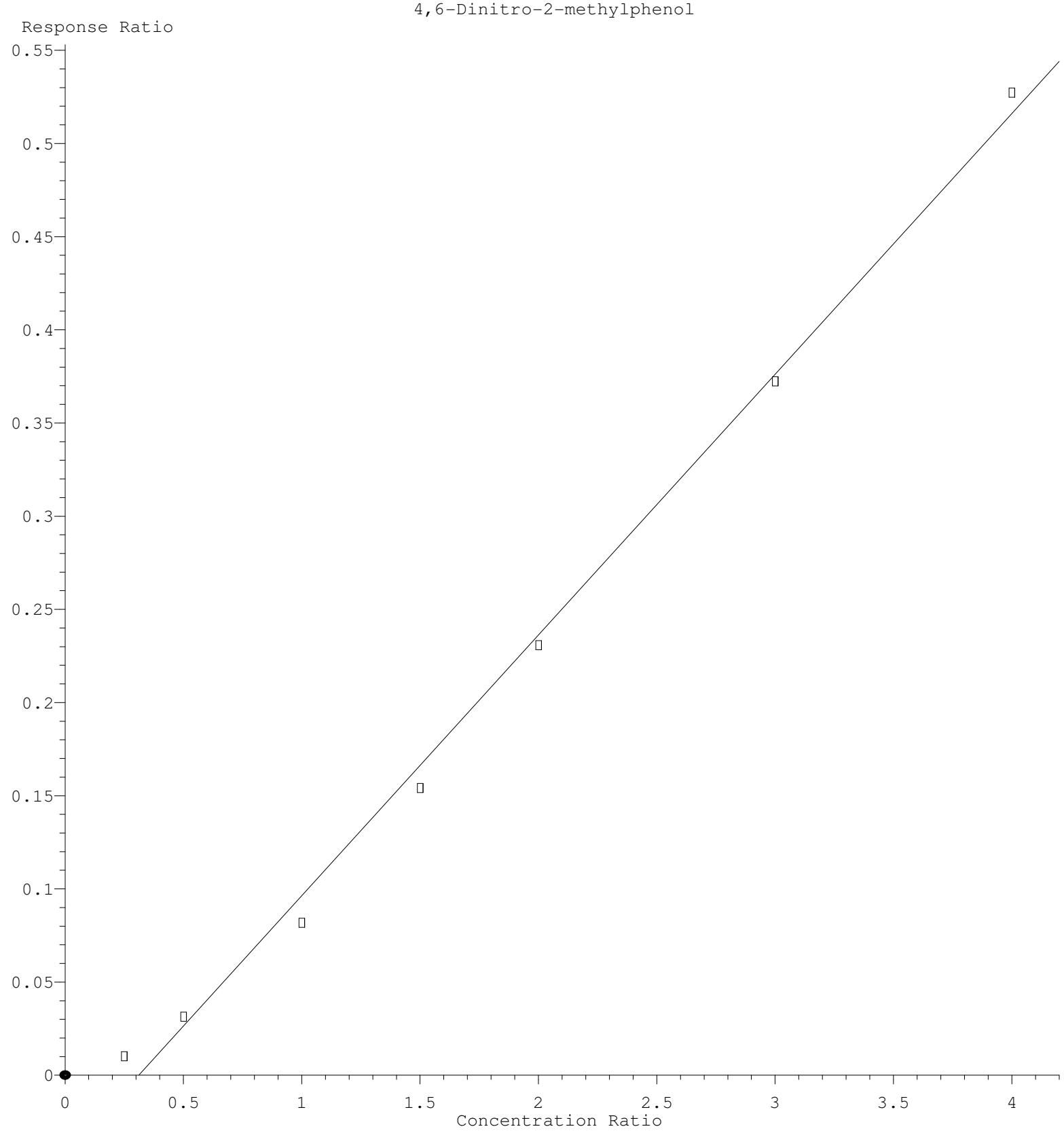
response 0

Ion	Exp%	Act%
184.00	100.00	0.00
92.00	8.90	0.00
185.00	14.30	0.00
0.00	0.00	0.00

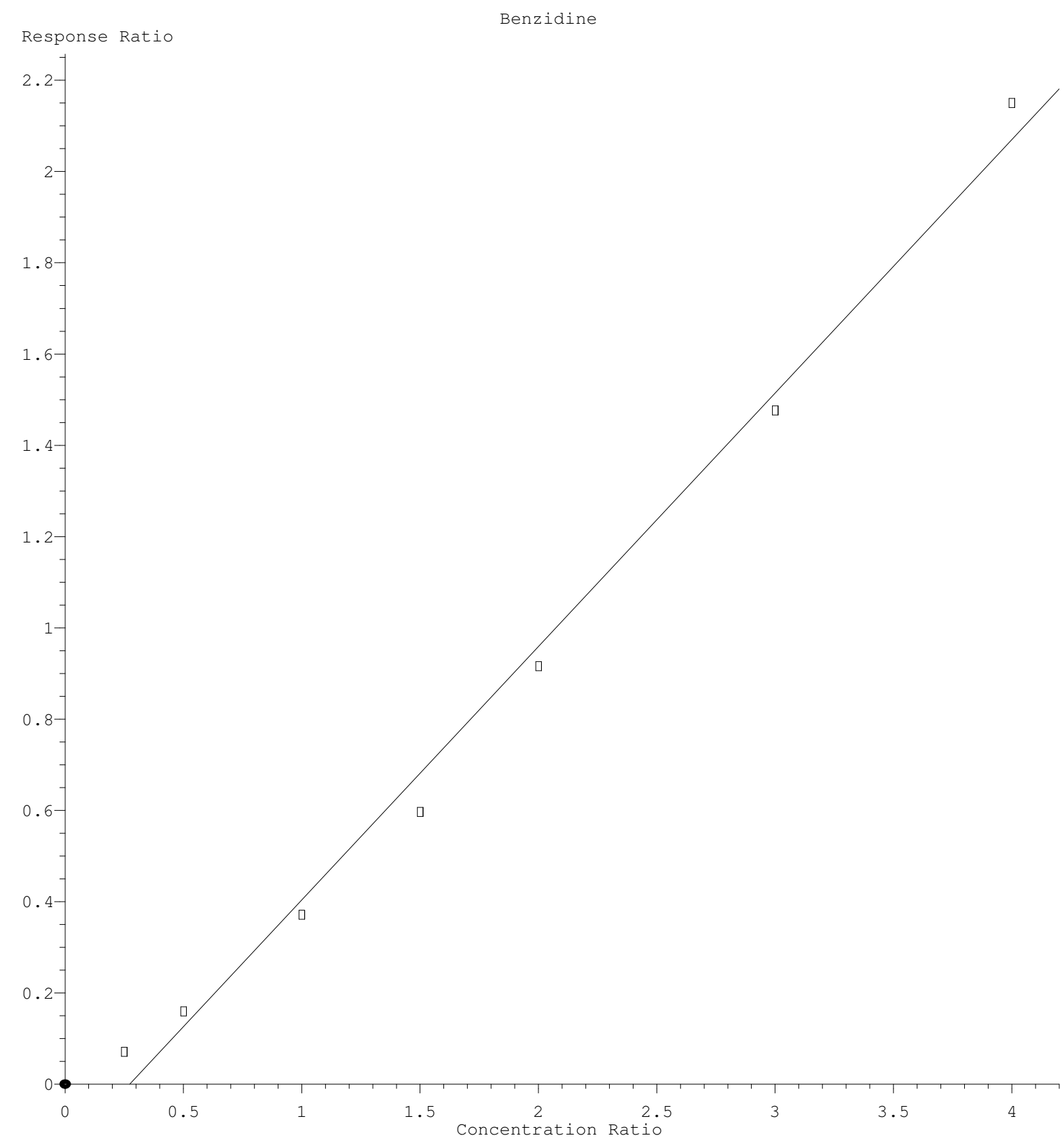


R = 1.57e-002 A*A + 8.94e-002 A - 4.23e-002
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic
Method Name: C:\msdchem\1\methods\B112221.M
Calibration Table Last Updated: Wed Jan 05 10:09:20 2022

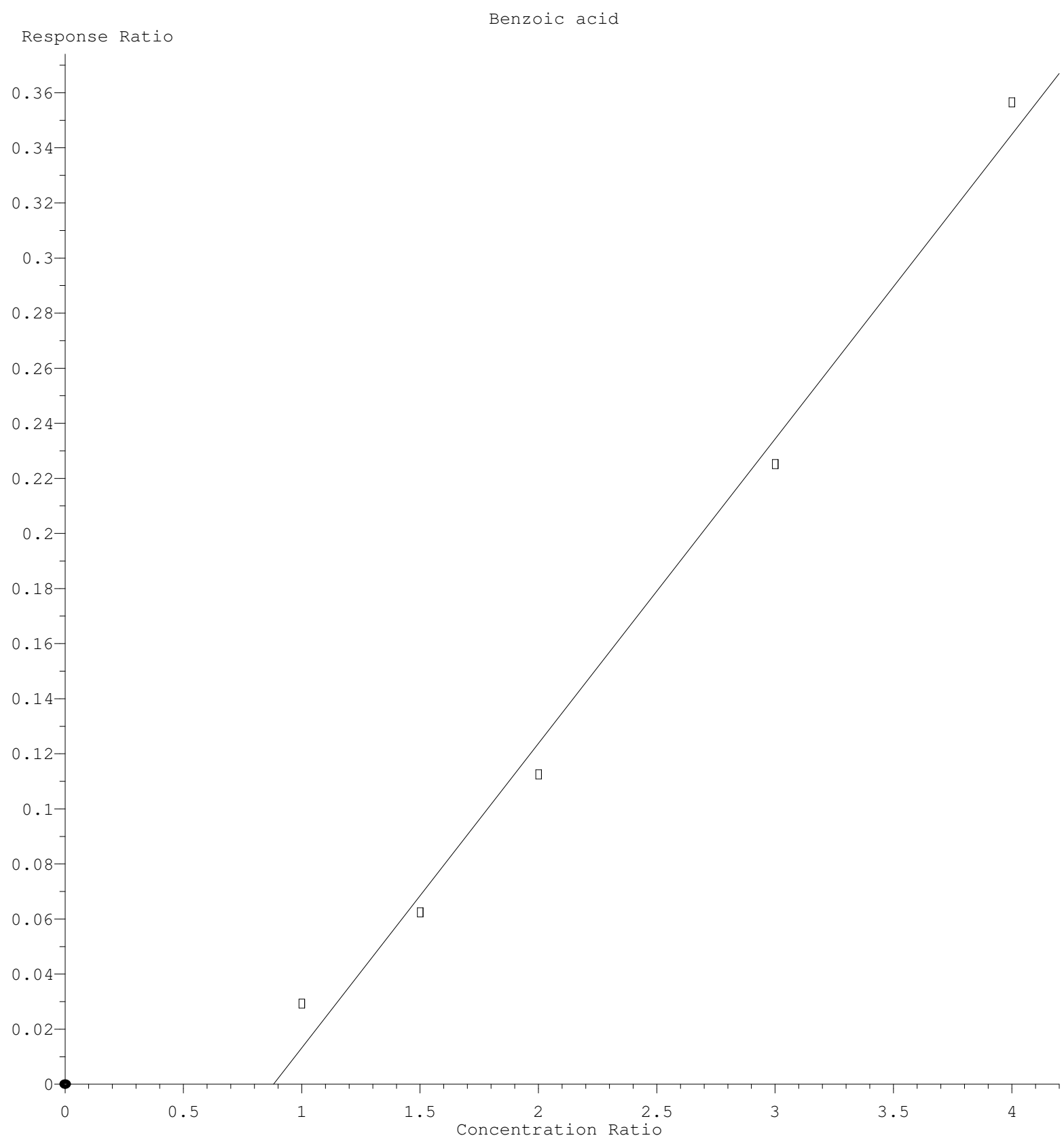
4,6-Dinitro-2-methylphenol



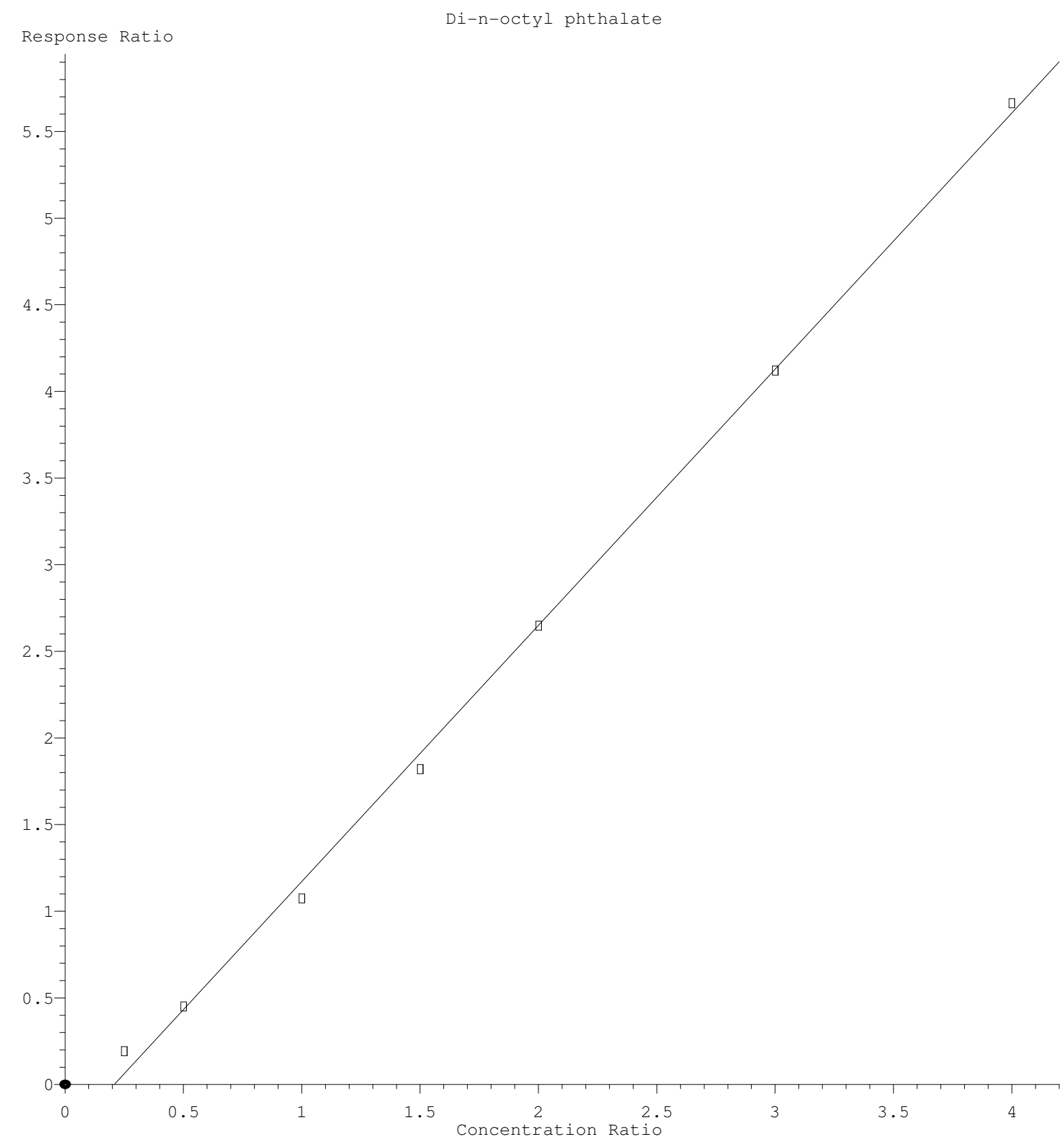
Response = 1.40e-001 * Amt - 4.35e-002
Coef of Det (r^2) = 0.996 Curve Fit: Linear
Method Name: C:\msdchem\1\methods\B112221.M
Calibration Table Last Updated: Wed Jan 05 10:09:20 2022



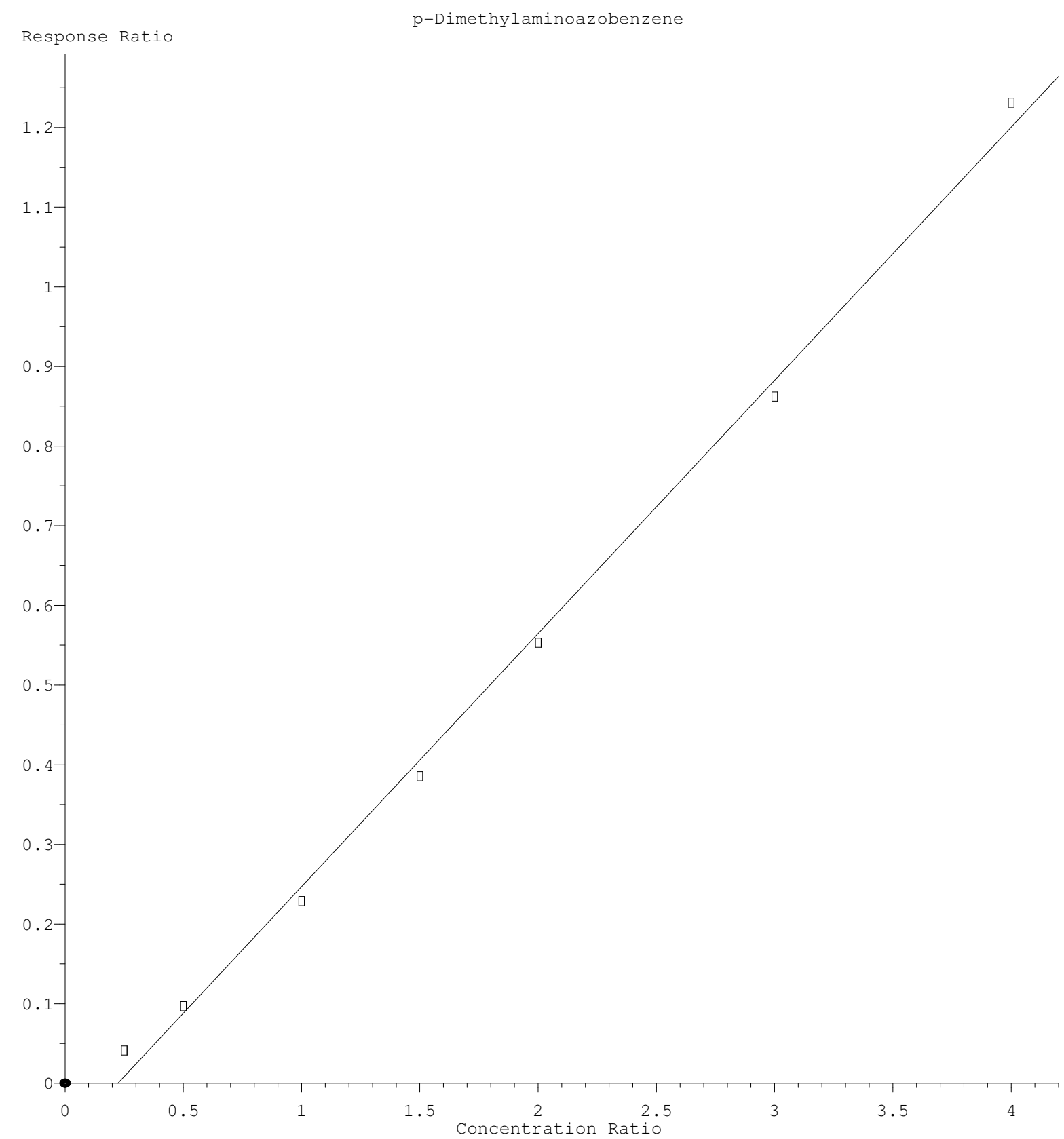
Response = 5.55e-001 * Amt - 1.52e-001
Coef of Det (r^2) = 0.992 Curve Fit: Linear
Method Name: C:\msdchem\1\methods\B112221.M
Calibration Table Last Updated: Wed Jan 05 10:09:20 2022



Response = 1.11e-001 * Amt - 9.74e-002
Coef of Det (r^2) = 0.991 Curve Fit: Linear
Method Name: C:\msdchem\1\methods\B112221.M
Calibration Table Last Updated: Wed Jan 05 10:09:20 2022



Response = 1.48e+000 * Amt - 3.06e-001
Coef of Det (r^2) = 0.998 Curve Fit: Linear
Method Name: C:\msdchem\1\methods\B112221.M
Calibration Table Last Updated: Wed Jan 05 10:09:20 2022



Response = 3.18e-001 * Amt - 7.07e-002
Coef of Det (r^2) = 0.997 Curve Fit: Linear
Method Name: C:\msdchem\1\methods\B112221.M
Calibration Table Last Updated: Wed Jan 05 10:09:20 2022

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112211.D
Acq On : 22 Nov 2021 2:50 pm
Operator : YH
Sample : BNA10 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 23 11:39:13 2021
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Mon Nov 22 14:08:09 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.387	152	132486	40.00	ng		0.00
23) Naphthalene-d8	...	5.976	136	510383	40.00	ng		0.00
45) Acenaphthene-d10	...	8.027	164	287647	40.00	ng		0.00
73) Phenanthrene-d10	...	9.687	188	524186	40.00	ng		0.00
92) Chrysene-d12	...	12.625	240	476975	40.00	ng		0.00
104) Perylene-d12	...	14.085	264	476075	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.884	112	41310	9.61	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 9.61%#					
9) Phenol-d5	...	4.049	99	51192	9.58	ng		-0.01
Spiked Amount 100.000	Range 10 - 110		Recovery = 9.58%#					
24) Nitrobenzene-d5	...	5.115	82	39124	8.78	ng		-0.01
Spiked Amount 50.000	Range 34 - 114		Recovery = 17.56%#					
50) 2-Fluorobiphenyl	...	7.289	172	100393	11.10	ng		-0.01
Spiked Amount 50.000	Range 43 - 116		Recovery = 22.20%#					
72) 2,4,6-Tribromophenol	...	8.925	330	9474	14.68	ng		-0.01
Spiked Amount 100.000	Range 10 - 123		Recovery = 14.68%					
94) 4-Terphenyl-d14	...	11.497	244	114152	9.65	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 19.30%#					
Target Compounds								Qvalue
2) Pyridine	...	1.736	79	51507	9.14	ng		94
3) 2-Picoline	...	2.452	93	51645	9.35	ng		95
4) Methyl methanesulfonate	...	2.717	80	19600	8.09	ng	#	90
6) Ethyl methanesulfonate	...	3.518	79	38072	9.70	ng		97
7) Benzaldehyde	...	3.853	105	22704	9.66	ng		99
8) Aniline	...	4.007	66	19764	6.39	ng		93
10) Phenol	...	4.064	94	57171	9.51	ng		90
11) Bis(2-chloroethyl)ether	...	4.103	93	45725	9.98	ng		91
12) 2-Chlorophenol	...	4.146	128	46327	10.30	ng		100
13) 1,3-Dichlorobenzene	...	4.311	146	55055	10.10	ng		98
14) 1,4-Dichlorobenzene	...	4.410	146	53540	9.90	ng		98
15) 1,2-Dichlorobenzene	...	4.603	146	52278	10.22	ng		99
16) Benzyl alcohol	...	4.652	108	26959	8.83	ng		99
17) Bis(2-chloroisopropyl)ether	...	4.811	45	59258	8.75	ng	#	68
18) 2-Methylphenol	...	4.828	107	33919	9.45	ng	#	77
19) 3,4-Methylphenol	...	5.038	107	93874	20.76	ng	#	86
20) N-Nitrosodi-n-propylamine	...	5.001	70	29296	9.13	ng		95
21) N-Nitrosodimethylamine	...	1.597	74	29474	9.21	ng	#	95
22) Hexachloroethane	...	5.021	117	18567	9.94	ng		93
25) Acetophenone	...	4.961	105	117725	19.31	ng		97
26) Nitrobenzene	...	5.138	123	20653	9.57	ng	#	87
27) N-Nitrosopiperidine	...	5.362	114	20101	8.85	ng		97
28) Isophorone	...	5.515	82	76110	8.16	ng		97
29) 2-Nitrophenol	...	5.538	139	20142	9.77	ng		96
30) 2,4-Dimethylphenol	...	5.675	122	38445	9.62	ng		99
31) Bis(2-chloroethoxy)methane	...	5.768	93	53058	9.50	ng		99
32) 2,4-Dichlorophenol	...	6.126	162	33221	8.45	ng		94
33) 1,2,4-Trichlorobenzene	...	5.919	180	44208	10.08	ng		99
34) Naphthalene	...	6.001	128	139616	10.73	ng		99
35) Benzoic acid	...	5.996	122	2181	25.04	ng		86
36) 2,6-Dichlorophenol	...	6.126	162	33221	8.76	ng		98
37) 4-Chloroaniline	...	6.124	127	50652	9.19	ng		99
38) Hexachlorobutadiene	...	6.189	225	22621	8.88	ng		97
39) a,a-Dimethylphenethylamine	...	5.976	58	88709	5.92	ng		60
40) Caprolactam	...	6.712	113	10382	7.29	ng	#	52
41) 4-Chloro-3-methylphenol	...	6.774	107	33652	8.92	ng		93

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112211.D
Acq On : 22 Nov 2021 2:50 pm
Operator : YH
Sample : BNA10 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 23 11:39:13 2021
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Mon Nov 22 14:08:09 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) N-Nitroso-di-n-butylamine	6.570	84	24011	6.66	ng		89
43) 2-Methylnaphthalene	6.834	141	82517	10.71	ng		98
44) 1-Methylnaphthalene	6.945	141	80802	10.72	ng		97
46) 1,2,4,5-Tetrachlorobenzene	7.033	216	42761	10.32	ng		99
47) Hexachlorocyclopentadiene	7.038	237	16942	7.67	ng	#	89
48) 2,4,6-Trichlorophenol	7.206	196	22655	8.69	ng		97
49) 2,4,5-Trichlorophenol	7.254	196	24929	8.94	ng	#	91
51) Biphenyl	7.394	154	116984	11.75	ng		98
52) 2-Chloronaphthalene	7.391	162	85841	10.32	ng		99
53) 1-Chloronaphthalene	7.414	162	79897	10.73	ng		100
54) 2-Nitroaniline	7.556	65	17709	7.38	ng		92
55) 3-Nitroaniline	8.030	138	17227	7.29	ng	#	83
56) Pentachlorobenzene	8.218	250	35717	9.99	ng	#	97
57) 4-Nitroaniline	8.721	138	16865	7.12	ng	#	87
58) 2-Naphthylamine	8.363	143	71560	8.81	ng		97
59) 1-Naphthylamine	8.456	143	54904	6.60	ng	#	94
60) Dimethyl phthalate	7.806	163	87451	9.54	ng		99
61) Acenaphthylene	7.860	152	126164	9.95	ng		99
62) 2,6-Dinitrotoluene	7.840	165	15059	7.99	ng		89
63) Acenaphthene	8.061	154	79658	10.52	ng		97
64) 2,4-Dinitrophenol	8.141	184	1135	18.85	ng		95
65) Dibenzofuran	8.263	168	122662	10.65	ng		100
66) 4-Nitrophenol	8.309	109	7992	7.68	ng	#	82
67) 2,4-Dinitrotoluene	8.292	165	18352	7.09	ng		89
68) 2,3,4,6-Tetrachlorophenol	8.436	232	18763	8.70	ng		97
69) Diethyl phthalate	8.607	149	83269	9.31	ng		100
70) Fluorene	8.647	166	100874	10.44	ng		99
71) 4-Chlorophenyl phenyl ether	8.675	204	47706	10.37	ng		99
74) 4,6-Dinitro-2-methylphenol	8.738	198	5334	17.42	ng	#	33
75) Azobenzene	8.851	77	79218	8.34	ng		96
76) 1,2-Diphenylhydrazine	8.851	182	20797	8.60	ng	#	76
77) Diphenylamine	8.820	170	15738	8.83	ng		98
78) N-Nitrosodiphenylamine	8.820	168	79302	9.34	ng		99
79) 4-Bromophenyl phenyl ether	9.218	248	26524	9.04	ng		96
80) Phenacetin	9.229	108	31528	7.54	ng		96
81) Hexachlorobenzene	9.260	284	30958	10.59	ng		96
82) Atrazine	9.482	200	19650	7.85	ng		93
83) 4-Aminobiphenyl	9.519	169	65776	6.56	ng		99
84) Pentachlorophenol	9.511	266	14182	14.85	ng		97
85) Pentachloronitrobenzene	9.513	237	8780	7.42	ng		96
86) Pronamide	9.633	173	22315	5.89	ng		98
87) Phenanthrene	9.712	178	145543	9.87	ng		100
88) Anthracene	9.766	178	137801	9.31	ng		99
89) Carbazole	9.979	167	124366	9.66	ng		99
90) Di-n-butyl phthalate	10.437	149	121876	7.37	ng		99
91) Fluoranthene	11.031	202	153284	9.23	ng		98
93) Pyrene	11.275	202	159904	9.35	ng		100
95) Benzidine	11.235	184	33919	9.74	ng		88
96) p-Dimethylaminoazobenzene	11.664	225	19633	6.07	ng	#	89
97) Butyl benzyl phthalate	12.088	149	45916	6.77	ng		92
98) Benz(a)anthracene	12.613	228	137210	8.61	ng		100
99) 3,3'-Dichlorobenzidine	12.625	252	40243	8.28	ng		98
100) Chrysene	12.647	228	145751	9.03	ng		99
101) Bis(2-ethylhexyl)phthalate	12.750	149	57302	10.22	ng		99
102) Di-n-octyl phthalate	13.429	149	91251	15.09	ng	#	95
103) 3-Methylcholanthrene	14.352	268	41221	9.47	ng		95
105) Benzo[b]fluoranthene	13.747	252	137973	8.27	ng		98
106) Benzo[k]fluoranthene	13.747	252	137973	8.98	ng		98

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112211.D
Acq On : 22 Nov 2021 2:50 pm
Operator : YH
Sample : BNA10 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 23 11:39:13 2021
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Mon Nov 22 14:08:09 2021
Response via : Initial Calibration

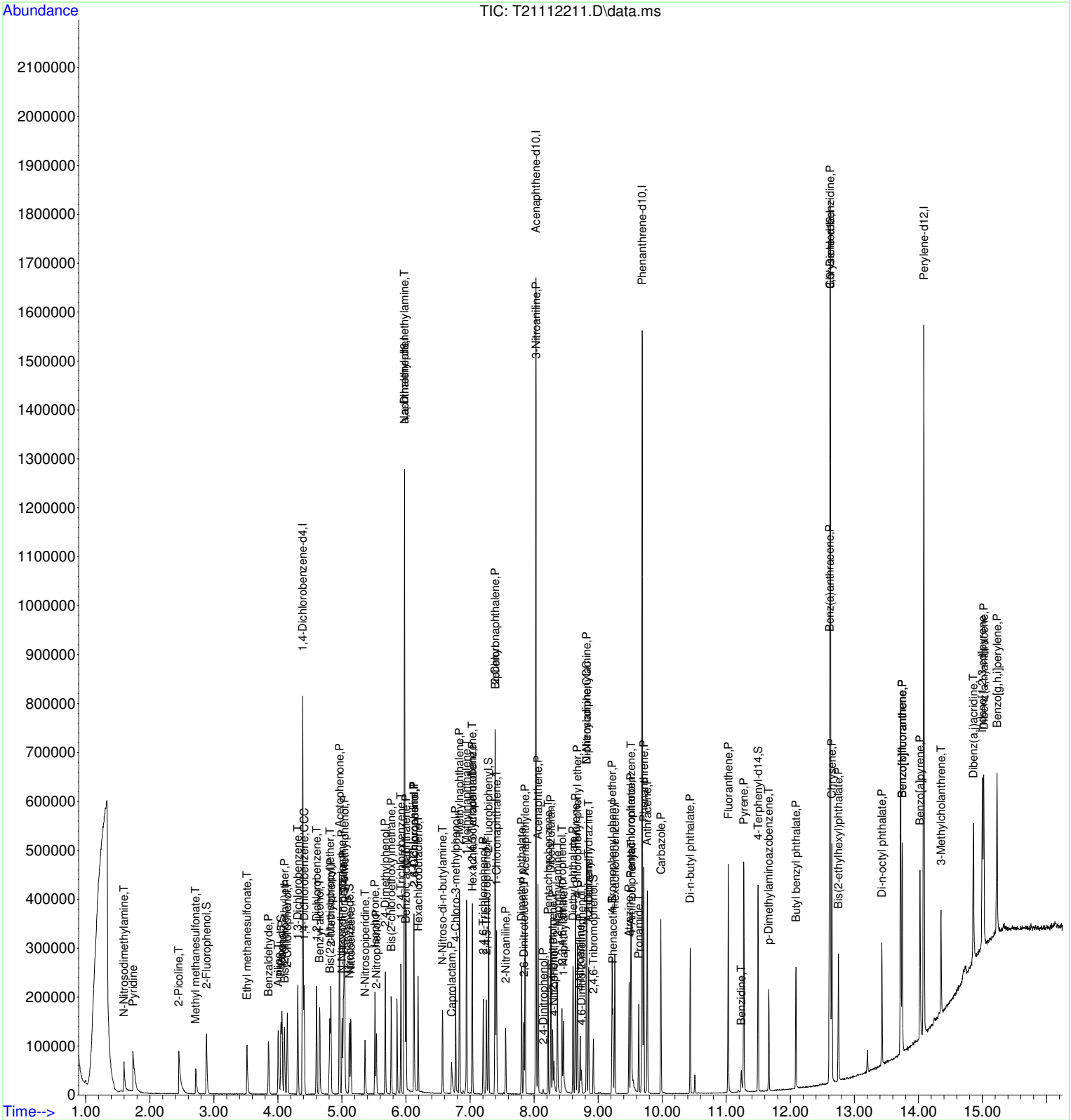
Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
107) Benzo[a]pyrene	...	14.026	252	112930	7.92	ng		98
108) Dibenz(a,j)acridine	...	14.858	279	97403	9.30	ng		99
109) Indeno[1,2,3-cd]pyrene	...	14.997	276	122099	7.48	ng	#	93
110) Dibenz(a,h)anthracene	...	15.020	278	122611	9.37	ng		99
111) Benzo[g,h,i]perylene	...	15.227	276	125180	9.41	ng		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112211.D
Acq On : 22 Nov 2021 2:50 pm
Operator : YH
Sample : BNA10 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 23 11:39:13 2021
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Mon Nov 22 14:08:09 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112212.D
Acq On : 22 Nov 2021 3:18 pm
Operator : YH
Sample : BNA20 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 23 11:35:50 2021
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:07:39 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.387	152	130838	40.00	ng		0.00
23) Naphthalene-d8	...	5.979	136	503726	40.00	ng		0.00
45) Acenaphthene-d10	...	8.027	164	282870	40.00	ng		0.00
73) Phenanthrene-d10	...	9.687	188	513981	40.00	ng		0.00
92) Chrysene-d12	...	12.625	240	476442	40.00	ng		0.00
104) Perylene-d12	...	14.085	264	475053	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.884	112	81604	19.23	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 19.23%#					
9) Phenol-d5	...	4.046	99	99561	18.87	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 18.87%					
24) Nitrobenzene-d5	...	5.115	82	78675	17.90	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 35.80%					
50) 2-Fluorobiphenyl	...	7.291	172	187479	21.08	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 42.16%#					
72) 2,4,6-Tribromophenol	...	8.925	330	19964	23.28	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 23.28%					
94) 4-Terphenyl-d14	...	11.497	244	223724	18.94	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 37.88%					
Target Compounds					Qvalue			
2) Pyridine	...	1.725	79	102448	18.41	ng	#	88
3) 2-Picoline	...	2.435	93	98290	18.02	ng		98
4) Methyl methanesulfonate	...	2.711	80	38067	15.92	ng		96
6) Ethyl methanesulfonate	...	3.512	79	73120	18.87	ng		98
7) Benzaldehyde	...	3.850	105	44381	19.13	ng		97
8) Aniline	...	4.004	66	40056	13.12	ng		95
10) Phenol	...	4.063	94	109604	18.47	ng		93
11) Bis(2-chloroethyl)ether	...	4.100	93	85987	19.00	ng		91
12) 2-Chlorophenol	...	4.146	128	88764	19.98	ng		99
13) 1,3-Dichlorobenzene	...	4.311	146	105067	19.52	ng		99
14) 1,4-Dichlorobenzene	...	4.410	146	100400	18.80	ng		98
15) 1,2-Dichlorobenzene	...	4.603	146	99656	19.72	ng		100
16) Benzyl alcohol	...	4.652	108	51354	17.03	ng		97
17) Bis(2-chloroisopropyl)ether	...	4.811	45	111644	16.70	ng		95
18) 2-Methylphenol	...	4.828	107	66038	18.64	ng	#	90
19) 3,4-Methylphenol	...	5.041	107	179173	40.12	ng	#	87
20) N-Nitrosodi-n-propylamine	...	5.001	70	57160	18.05	ng		95
21) N-Nitrosodimethylamine	...	1.591	74	56236	17.79	ng	#	95
22) Hexachloroethane	...	5.021	117	35503	19.24	ng		93
25) Acetophenone	...	4.958	105	228964	38.06	ng		98
26) Nitrobenzene	...	5.138	123	40618	19.07	ng		91
27) N-Nitrosopiperidine	...	5.359	114	39795	17.74	ng		97
28) Isophorone	...	5.513	82	154281	16.75	ng		97
29) 2-Nitrophenol	...	5.538	139	40406	19.85	ng		97
30) 2,4-Dimethylphenol	...	5.677	122	75445	19.14	ng		99
31) Bis(2-chloroethoxy)methane	...	5.768	93	101431	18.39	ng		98
32) 2,4-Dichlorophenol	...	6.126	162	67596	17.41	ng		94
33) 1,2,4-Trichlorobenzene	...	5.922	180	82659	19.09	ng		99
34) Naphthalene	...	6.001	128	261301	20.34	ng		100
35) Benzoic acid	...	6.001	122	2986	25.44	ng		75
36) 2,6-Dichlorophenol	...	6.126	162	67596	18.07	ng		98
37) 4-Chloroaniline	...	6.123	127	99733	18.33	ng		100
38) Hexachlorobutadiene	...	6.189	225	43633	17.35	ng		99
39) a,a-Dimethylphenethylamine	...	5.987	58	174719	11.80	ng		65
40) Caprolactam	...	6.717	113	22293	15.86	ng	#	71
41) 4-Chloro-3-methylphenol	...	6.774	107	68109	18.29	ng		95

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112212.D
Acq On : 22 Nov 2021 3:18 pm
Operator : YH
Sample : BNA20 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 23 11:35:50 2021
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:07:39 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) N-Nitroso-di-n-butylamine	6.570	84	50505	14.18	ng		88
43) 2-Methylnaphthalene	6.837	141	154019	20.25	ng		99
44) 1-Methylnaphthalene	6.947	141	150366	20.21	ng		98
46) 1,2,4,5-Tetrachlorobenzene	7.036	216	80410	19.73	ng		98
47) Hexachlorocyclopentadiene	7.036	237	36198	16.67	ng		100
48) 2,4,6-Trichlorophenol	7.206	196	46130	17.99	ng		97
49) 2,4,5-Trichlorophenol	7.254	196	48718	17.77	ng	#	92
51) Biphenyl	7.394	154	215787	22.04	ng		99
52) 2-Chloronaphthalene	7.394	162	159286	19.48	ng		98
53) 1-Chloronaphthalene	7.413	162	149818	20.45	ng		98
54) 2-Nitroaniline	7.556	65	37475	15.87	ng		95
55) 3-Nitroaniline	8.033	138	36833	15.85	ng	#	92
56) Pentachlorobenzene	8.218	250	68627	19.53	ng		98
57) 4-Nitroaniline	8.723	138	37091	15.93	ng		90
58) 2-Naphthylamine	8.363	143	143559	17.97	ng		99
59) 1-Naphthylamine	8.456	143	115257	14.09	ng		100
60) Dimethyl phthalate	7.806	163	173069	19.20	ng		100
61) Acenaphthylene	7.860	152	245631	19.70	ng		99
62) 2,6-Dinitrotoluene	7.840	165	31809	17.16	ng		90
63) Acenaphthene	8.061	154	150823	20.25	ng		97
64) 2,4-Dinitrophenol	8.141	184	4353	23.33	ng	#	28
65) Dibenzofuran	8.263	168	231542	20.44	ng		100
66) 4-Nitrophenol	8.309	109	17480	17.09	ng	#	90
67) 2,4-Dinitrotoluene	8.291	165	41464	16.30	ng		89
68) 2,3,4,6-Tetrachlorophenol	8.436	232	37859	17.84	ng		98
69) Diethyl phthalate	8.610	149	166239	18.90	ng		99
70) Fluorene	8.647	166	192094	20.21	ng		99
71) 4-Chlorophenyl phenyl ether	8.678	204	87007	19.23	ng		97
74) 4,6-Dinitro-2-methylphenol	8.743	198	16111	23.20	ng		90
75) Azobenzene	8.851	77	156097	16.75	ng		96
76) 1,2-Diphenylhydrazine	8.851	182	42433	17.89	ng	#	83
77) Diphenylamine	8.820	170	30634	17.53	ng		98
78) N-Nitrosodiphenylamine	8.820	168	148654	17.86	ng		99
79) 4-Bromophenyl phenyl ether	9.218	248	51949	18.06	ng		96
80) Phenacetin	9.232	108	68123	16.61	ng		96
81) Hexachlorobenzene	9.260	284	58774	20.51	ng		95
82) Atrazine	9.485	200	40109	16.35	ng		93
83) 4-Aminobiphenyl	9.519	169	155985	15.86	ng		95
84) Pentachlorophenol	9.510	266	30817	22.18	ng		97
85) Pentachloronitrobenzene	9.513	237	18607	16.05	ng		97
86) Pronamide	9.635	173	48966	13.18	ng		99
87) Phenanthrene	9.712	178	273728	18.92	ng		100
88) Anthracene	9.769	178	265553	18.30	ng		100
89) Carbazole	9.979	167	232062	18.39	ng		100
90) Di-n-butyl phthalate	10.437	149	260964	16.09	ng		99
91) Fluoranthene	11.031	202	302486	18.58	ng		98
93) Pyrene	11.275	202	314749	18.42	ng		100
95) Benzidine	11.232	184	76061	18.78	ng		88
96) p-Dimethylaminoazobenzene	11.664	225	46028	14.25	ng	#	87
97) Butyl benzyl phthalate	12.088	149	102174	15.09	ng		92
98) Benz(a)anthracene	12.610	228	277243	17.41	ng		99
99) 3,3'-Dichlorobenzidine	12.625	252	75606	15.57	ng		95
100) Chrysene	12.650	228	276050	17.13	ng		99
101) Bis(2-ethylhexyl)phthalate	12.753	149	133643	17.41	ng		99
102) Di-n-octyl phthalate	13.429	149	214319	21.51	ng		97
103) 3-Methylcholanthrene	14.355	268	86119	19.81	ng		97
105) Benzo[b]fluoranthene	13.721	252	288085	17.30	ng		97
106) Benzo[k]fluoranthene	13.750	252	268801	17.53	ng		98

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112212.D
Acq On : 22 Nov 2021 3:18 pm
Operator : YH
Sample : BNA20 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 23 11:35:50 2021
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:07:39 2021
Response via : Initial Calibration

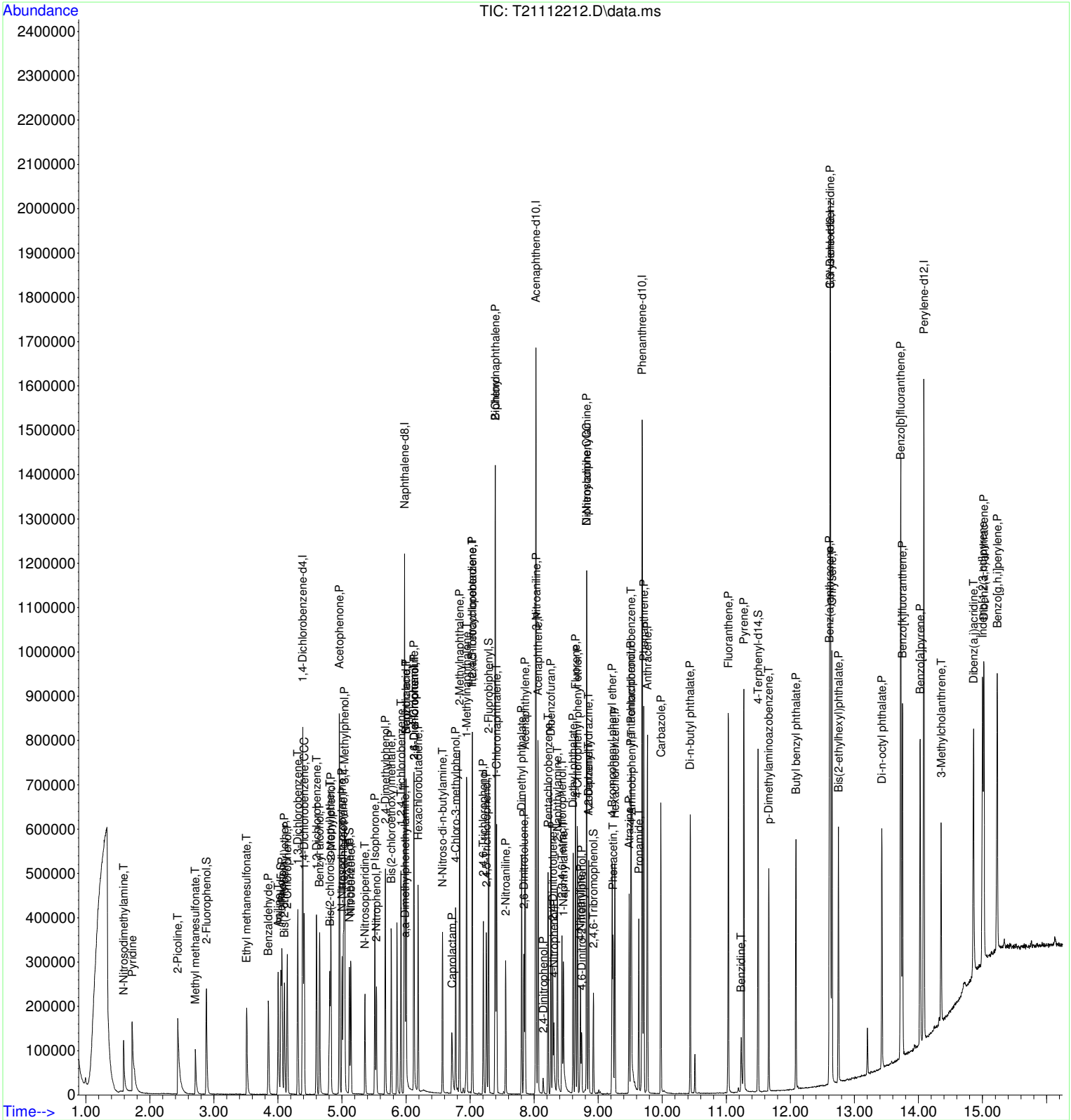
Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
107) Benzo[a]pyrene	...	14.028	252	234384	16.48	ng		97
108) Dibenz(a,j)acridine	...	14.861	279	199598	19.10	ng		100
109) Indeno[1,2,3-cd]pyrene	...	15.003	276	248887	15.28	ng	#	93
110) Dibenz(a,h)anthracene	...	15.023	278	243246	18.63	ng		99
111) Benzo[g,h,i]perylene	...	15.230	276	249317	18.79	ng		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112212.D
Acq On : 22 Nov 2021 3:18 pm
Operator : YH
Sample : BNA20 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 23 11:35:50 2021
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:07:39 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112213.D
Acq On : 22 Nov 2021 4:50 pm
Operator : YH
Sample : BNA40 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 23 11:40:23 2021
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:09:46 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.388	152	117254	40.00	ng		0.00
23) Naphthalene-d8	...	5.979	136	443369	40.00	ng		0.00
45) Acenaphthene-d10	...	8.027	164	260067	40.00	ng		0.00
73) Phenanthrene-d10	...	9.690	188	459136	40.00	ng		0.00
92) Chrysene-d12	...	12.625	240	436328	40.00	ng		0.00
104) Perylene-d12	...	14.088	264	439247	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.882	112	148423	39.03	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 39.03%					
9) Phenol-d5	...	4.049	99	177143	37.46	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 37.46%					
24) Nitrobenzene-d5	...	5.118	82	141897	36.67	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 73.34%					
50) 2-Fluorobiphenyl	...	7.292	172	326714	39.95	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 79.90%					
72) 2,4,6-Tribromophenol	...	8.931	330	38887	41.30	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 41.30%					
94) 4-Terphenyl-d14	...	11.500	244	415635	38.42	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 76.84%					
Target Compounds					Qvalue			
2) Pyridine	...	1.711	79	189652	38.03	ng		90
3) 2-Picoline	...	2.421	93	179878	36.80	ng		99
4) Methyl methanesulfonate	...	2.705	80	68510	31.96	ng		96
6) Ethyl methanesulfonate	...	3.510	79	130158	37.48	ng		98
7) Benzaldehyde	...	3.848	105	79516	38.24	ng		96
8) Aniline	...	4.004	66	68878	25.17	ng		95
10) Phenol	...	4.064	94	194070	36.49	ng		91
11) Bis(2-chloroethyl)ether	...	4.101	93	152908	37.71	ng		89
12) 2-Chlorophenol	...	4.146	128	153383	38.52	ng		99
13) 1,3-Dichlorobenzene	...	4.311	146	183287	38.00	ng		99
14) 1,4-Dichlorobenzene	...	4.407	146	176162	36.80	ng		100
15) 1,2-Dichlorobenzene	...	4.604	146	173345	38.28	ng		99
16) Benzyl alcohol	...	4.652	108	96367	35.65	ng		99
17) Bis(2-chloroisopropyl)ether	...	4.811	45	195436	32.62	ng		93
18) 2-Methylphenol	...	4.831	107	117068	36.86	ng	#	90
19) 3,4-Methylphenol	...	5.041	107	302103	75.48	ng	#	87
20) N-Nitrosodi-n-propylamine	...	5.004	70	100408	35.37	ng		96
21) N-Nitrosodimethylamine	...	1.583	74	103270	36.45	ng		91
22) Hexachloroethane	...	5.021	117	60929	36.84	ng		96
25) Acetophenone	...	4.962	105	400821	75.70	ng		98
26) Nitrobenzene	...	5.141	123	72190	38.51	ng		92
27) N-Nitrosopiperidine	...	5.362	114	73948	37.46	ng		96
28) Isophorone	...	5.513	82	287816	35.50	ng		97
29) 2-Nitrophenol	...	5.538	139	74847	41.78	ng		98
30) 2,4-Dimethylphenol	...	5.680	122	135039	38.91	ng		98
31) Bis(2-chloroethoxy)methane	...	5.771	93	179734	37.03	ng		99
32) 2,4-Dichlorophenol	...	6.127	162	121086	35.44	ng		94
33) 1,2,4-Trichlorobenzene	...	5.922	180	145576	38.20	ng		99
34) Naphthalene	...	6.002	128	451198	39.91	ng		100
35) Benzoic acid	...	5.874	122	12986	31.01	ng		88
36) 2,6-Dichlorophenol	...	6.127	162	121086	36.77	ng		99
37) 4-Chloroaniline	...	6.127	127	160576	33.52	ng		100
38) Hexachlorobutadiene	...	6.189	225	76380	34.51	ng		98
39) a,a-Dimethylphenethylamine	...	6.041	58	340680	26.15	ng		81
40) Caprolactam	...	6.726	113	50552	40.86	ng	#	78
41) 4-Chloro-3-methylphenol	...	6.780	107	123979	37.82	ng		93

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112213.D
Acq On : 22 Nov 2021 4:50 pm
Operator : YH
Sample : BNA40 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 23 11:40:23 2021
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:09:46 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) N-Nitroso-di-n-butylamine	6.573	84	94244	30.07	ng		87
43) 2-Methylnaphthalene	6.837	141	268098	40.04	ng		98
44) 1-Methylnaphthalene	6.948	141	261099	39.87	ng		98
46) 1,2,4,5-Tetrachlorobenzene	7.036	216	140966	37.62	ng		98
47) Hexachlorocyclopentadiene	7.039	237	70896	35.51	ng		99
48) 2,4,6-Trichlorophenol	7.209	196	85580	36.31	ng		98
49) 2,4,5-Trichlorophenol	7.257	196	90964	36.09	ng	#	91
51) Biphenyl	7.394	154	371118	41.23	ng		99
52) 2-Chloronaphthalene	7.397	162	278556	37.04	ng		99
53) 1-Chloronaphthalene	7.417	162	253577	37.66	ng		99
54) 2-Nitroaniline	7.559	65	73066	33.66	ng		96
55) 3-Nitroaniline	8.036	138	71994	33.69	ng	#	96
56) Pentachlorobenzene	8.221	250	125223	38.75	ng		98
57) 4-Nitroaniline	8.732	138	72524	33.89	ng		92
58) 2-Naphthylamine	8.366	143	254695	34.68	ng		100
59) 1-Naphthylamine	8.462	143	168933	22.47	ng		97
60) Dimethyl phthalate	7.809	163	316028	38.13	ng		100
61) Acenaphthylene	7.863	152	434888	37.93	ng		99
62) 2,6-Dinitrotoluene	7.846	165	64163	37.66	ng		92
63) Acenaphthene	8.064	154	265177	38.73	ng		98
64) 2,4-Dinitrophenol	8.147	184	13319	36.22	ng		93
65) Dibenzofuran	8.266	168	408923	39.26	ng		99
66) 4-Nitrophenol	8.314	109	33565	35.69	ng		93
67) 2,4-Dinitrotoluene	8.295	165	84000	35.91	ng		91
68) 2,3,4,6-Tetrachlorophenol	8.439	232	71012	36.40	ng		98
69) Diethyl phthalate	8.613	149	308167	38.11	ng		99
70) Fluorene	8.650	166	335910	38.44	ng		99
71) 4-Chlorophenyl phenyl ether	8.678	204	154431	37.12	ng		99
74) 4,6-Dinitro-2-methylphenol	8.749	198	37528	36.96	ng		91
75) Azobenzene	8.854	77	278586	33.47	ng		97
76) 1,2-Diphenylhydrazine	8.854	182	77091	36.38	ng	#	86
77) Diphenylamine	8.823	170	53812	34.47	ng		98
78) N-Nitrosodiphenylamine	8.826	168	257022	34.57	ng		96
79) 4-Bromophenyl phenyl ether	9.221	248	97795	38.05	ng		97
80) Phenacetin	9.241	108	140506	38.36	ng		97
81) Hexachlorobenzene	9.264	284	103539	40.45	ng		96
82) Atrazine	9.491	200	78436	35.79	ng		95
83) 4-Aminobiphenyl	9.522	169	198087	22.55	ng		95
84) Pentachlorophenol	9.516	266	62496	39.14	ng		97
85) Pentachloronitrobenzene	9.516	237	35786	34.55	ng		98
86) Pronamide	9.639	173	99838	30.08	ng		99
87) Phenanthrene	9.715	178	482395	37.33	ng		99
88) Anthracene	9.772	178	485455	37.45	ng		99
89) Carbazole	9.982	167	423128	37.53	ng		100
90) Di-n-butyl phthalate	10.440	149	525835	36.30	ng		99
91) Fluoranthene	11.034	202	576532	39.63	ng		98
93) Pyrene	11.278	202	581868	37.18	ng		100
95) Benzidine	11.235	184	162015	40.39	ng		88
96) p-Dimethylaminoazobenzene	11.667	225	99710	33.70	ng		90
97) Butyl benzyl phthalate	12.088	149	216551	34.92	ng		94
98) Benz(a)anthracene	12.616	228	530640	36.39	ng		100
99) 3,3'-Dichlorobenzidine	12.628	252	153069	34.41	ng		96
100) Chrysene	12.653	228	502569	34.05	ng		99
101) Bis(2-ethylhexyl)phthalate	12.753	149	285848	34.21	ng		99
102) Di-n-octyl phthalate	13.432	149	468209	36.99	ng		98
103) 3-Methylcholanthrene	14.358	268	167400	42.04	ng		98
105) Benzo[b]fluoranthene	13.727	252	544915	35.39	ng		97
106) Benzo[k]fluoranthene	13.759	252	496459	35.01	ng		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112213.D
Acq On : 22 Nov 2021 4:50 pm
Operator : YH
Sample : BNA40 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 23 11:40:23 2021
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:09:46 2021
Response via : Initial Calibration

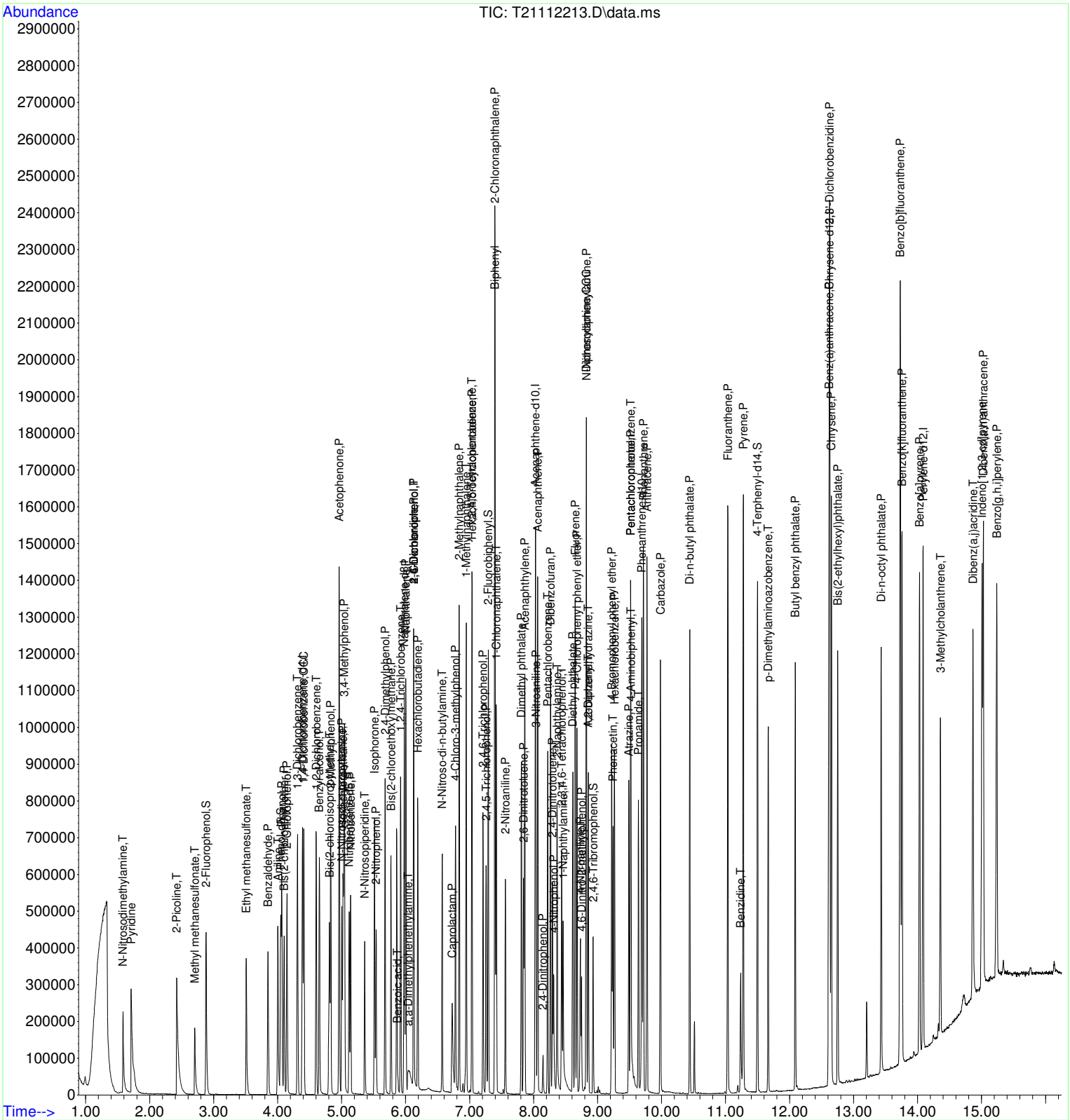
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
107) Benzo[a]pyrene	14.031	252	458357	34.85	ng		98
108) Dibenz(a,j)acridine	14.867	279	387991	40.15	ng		100
109) Indeno[1,2,3-cd]pyrene	15.009	276	471453	31.31	ng	#	92
110) Dibenz(a,h)anthracene	15.029	278	457376	37.89	ng		100
111) Benzo[g,h,i]perylene	15.239	276	464736	37.88	ng		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112213.D
Acq On : 22 Nov 2021 4:50 pm
Operator : YH
Sample : BNA40 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 23 11:40:23 2021
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:09:46 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112214.D
Acq On : 22 Nov 2021 5:19 pm
Operator : YH
Sample : BNA60 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 10:07:19 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:11:35 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.390	152	123092	40.00	ng		0.00
23) Naphthalene-d8	...	5.979	136	468511	40.00	ng		0.00
45) Acenaphthene-d10	...	8.027	164	277360	40.00	ng		0.00
73) Phenanthrene-d10	...	9.690	188	489819	40.00	ng		0.00
92) Chrysene-d12	...	12.628	240	456847	40.00	ng		0.00
104) Perylene-d12	...	14.088	264	476087	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.882	112	240343	60.21	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 60.21%					
9) Phenol-d5	...	4.049	99	281966	56.80	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 56.80%					
24) Nitrobenzene-d5	...	5.121	82	227369	55.61	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 111.22%					
50) 2-Fluorobiphenyl	...	7.294	172	513743	58.90	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 117.80%#					
72) 2,4,6-Tribromophenol	...	8.931	330	65825	61.35	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 61.35%					
94) 4-Terphenyl-d14	...	11.500	244	666412	58.84	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 117.68%					
Target Compounds								Qvalue
2) Pyridine	...	1.702	79	303846	58.04	ng		91
3) 2-Picoline	...	2.413	93	288088	56.14	ng		99
4) Methyl methanesulfonate	...	2.705	80	110553	49.13	ng		97
6) Ethyl methanesulfonate	...	3.512	79	211737	58.08	ng		98
7) Benzaldehyde	...	3.848	105	132762	60.81	ng		98
8) Aniline	...	4.004	66	120579	41.97	ng		94
10) Phenol	...	4.066	94	299623	53.67	ng		91
11) Bis(2-chloroethyl)ether	...	4.103	93	237772	55.85	ng		89
12) 2-Chlorophenol	...	4.149	128	244861	58.58	ng		99
13) 1,3-Dichlorobenzene	...	4.311	146	287479	56.77	ng		100
14) 1,4-Dichlorobenzene	...	4.410	146	276808	55.09	ng		100
15) 1,2-Dichlorobenzene	...	4.603	146	276681	58.20	ng		99
16) Benzyl alcohol	...	4.655	108	153443	54.07	ng		99
17) Bis(2-chloroisopropyl)ether	...	4.811	45	305653	48.60	ng		92
18) 2-Methylphenol	...	4.834	107	184502	55.34	ng	#	91
19) 3,4-Methylphenol	...	5.047	107	467582	111.28	ng	#	88
20) N-Nitrosodi-n-propylamine	...	5.007	70	159791	53.62	ng		95
21) N-Nitrosodimethylamine	...	1.583	74	167080	56.18	ng		93
22) Hexachloroethane	...	5.021	117	96083	55.34	ng		98
25) Acetophenone	...	4.964	105	621429	111.07	ng		97
26) Nitrobenzene	...	5.143	123	117441	59.29	ng		95
27) N-Nitrosopiperidine	...	5.362	114	120644	57.84	ng		94
28) Isophorone	...	5.516	82	465892	54.38	ng		98
29) 2-Nitrophenol	...	5.541	139	122633	64.78	ng		98
30) 2,4-Dimethylphenol	...	5.680	122	220429	60.11	ng		99
31) Bis(2-chloroethoxy)methane	...	5.771	93	282862	55.14	ng		99
32) 2,4-Dichlorophenol	...	6.129	162	193139	53.49	ng		94
33) 1,2,4-Trichlorobenzene	...	5.922	180	230798	57.32	ng		99
34) Naphthalene	...	6.004	128	711147	59.53	ng		99
35) Benzoic acid	...	5.896	122	29233	38.91	ng		95
36) 2,6-Dichlorophenol	...	6.129	162	193139	55.51	ng		99
37) 4-Chloroaniline	...	6.126	127	265268	52.40	ng		99
38) Hexachlorobutadiene	...	6.189	225	123667	52.87	ng		99
39) a,a-Dimethylphenethylamine	...	6.055	58	567365	41.21	ng		89
40) Caprolactam	...	6.743	113	85831	65.65	ng	#	80
41) 4-Chloro-3-methylphenol	...	6.783	107	201493	58.17	ng		95

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112214.D
Acq On : 22 Nov 2021 5:19 pm
Operator : YH
Sample : BNA60 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 10:07:19 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:11:35 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) N-Nitroso-di-n-butylamine	6.573	84	155940	47.08	ng		87
43) 2-Methylnaphthalene	6.840	141	417796	59.05	ng		98
44) 1-Methylnaphthalene	6.948	141	406864	58.79	ng		98
46) 1,2,4,5-Tetrachlorobenzene	7.036	216	220787	55.25	ng		99
47) Hexachlorocyclopentadiene	7.039	237	120505	56.59	ng		97
48) 2,4,6-Trichlorophenol	7.212	196	141823	56.42	ng		98
49) 2,4,5-Trichlorophenol	7.260	196	148112	55.10	ng	#	92
51) Biphenyl	7.397	154	563756	58.73	ng		99
52) 2-Chloronaphthalene	7.397	162	437895	54.60	ng		99
53) 1-Chloronaphthalene	7.419	162	393445	54.78	ng		99
54) 2-Nitroaniline	7.561	65	125586	54.25	ng		97
55) 3-Nitroaniline	8.039	138	124604	54.67	ng		98
56) Pentachlorobenzene	8.221	250	199881	58.00	ng		99
57) 4-Nitroaniline	8.738	138	124766	54.66	ng		92
58) 2-Naphthylamine	8.368	143	414362	52.90	ng		99
59) 1-Naphthylamine	8.462	143	317018	39.54	ng		94
60) Dimethyl phthalate	7.811	163	512113	57.93	ng		100
61) Acenaphthylene	7.863	152	689358	56.38	ng		99
62) 2,6-Dinitrotoluene	7.845	165	108340	59.62	ng		93
63) Acenaphthene	8.064	154	417841	57.23	ng		98
64) 2,4-Dinitrophenol	8.150	184	33388	57.67	ng		97
65) Dibenzofuran	8.266	168	637967	57.43	ng		99
66) 4-Nitrophenol	8.317	109	56345	56.18	ng		94
67) 2,4-Dinitrotoluene	8.297	165	141872	56.88	ng		92
68) 2,3,4,6-Tetrachlorophenol	8.439	232	118866	57.13	ng		99
69) Diethyl phthalate	8.613	149	492815	57.15	ng		100
70) Fluorene	8.650	166	525694	56.41	ng		99
71) 4-Chlorophenyl phenyl ether	8.681	204	244671	55.14	ng		100
74) 4,6-Dinitro-2-methylphenol	8.755	198	75452	56.70	ng		95
75) Azobenzene	8.857	77	439522	49.49	ng		97
76) 1,2-Diphenylhydrazine	8.857	182	122424	54.15	ng	#	87
77) Diphenylamine	8.829	170	84806	50.91	ng		97
78) N-Nitrosodiphenylamine	8.829	168	406044	51.20	ng		98
79) 4-Bromophenyl phenyl ether	9.221	248	158450	57.79	ng		97
80) Phenacetin	9.246	108	226653	58.00	ng		96
81) Hexachlorobenzene	9.266	284	162526	59.52	ng		96
82) Atrazine	9.491	200	128165	54.82	ng		96
83) 4-Aminobiphenyl	9.525	169	445558	47.55	ng		96
84) Pentachlorophenol	9.519	266	105598	56.83	ng		96
85) Pentachloronitrobenzene	9.516	237	60280	54.55	ng		98
86) Pronamide	9.641	173	168250	47.51	ng		98
87) Phenanthrene	9.718	178	766820	55.63	ng		99
88) Anthracene	9.775	178	772822	55.88	ng		99
89) Carbazole	9.985	167	692438	57.57	ng		100
90) Di-n-butyl phthalate	10.440	149	878147	56.82	ng		99
91) Fluoranthene	11.036	202	922501	59.45	ng		98
93) Pyrene	11.281	202	912422	55.68	ng		99
95) Benzidine	11.235	184	272506	63.39	ng		98
96) p-Dimethylaminoazobenzene	11.667	225	176077	56.84	ng		93
97) Butyl benzyl phthalate	12.088	149	375859	57.88	ng		95
98) Benz(a)anthracene	12.616	228	868222	56.86	ng		100
99) 3,3'-Dichlorobenzidine	12.630	252	263357	56.55	ng		99
100) Chrysene	12.659	228	794208	51.40	ng		99
101) Bis(2-ethylhexyl)phthalate	12.753	149	485949	52.54	ng		99
102) Di-n-octyl phthalate	13.432	149	831423	55.55	ng		99
103) 3-Methylcholanthrene	14.361	268	288174	69.12	ng		98
105) Benzo[b]fluoranthene	13.733	252	896118	53.70	ng		97
106) Benzo[k]fluoranthene	13.764	252	779054	50.69	ng		99

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112214.D
Acq On : 22 Nov 2021 5:19 pm
Operator : YH
Sample : BNA60 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 10:07:19 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:11:35 2021
Response via : Initial Calibration

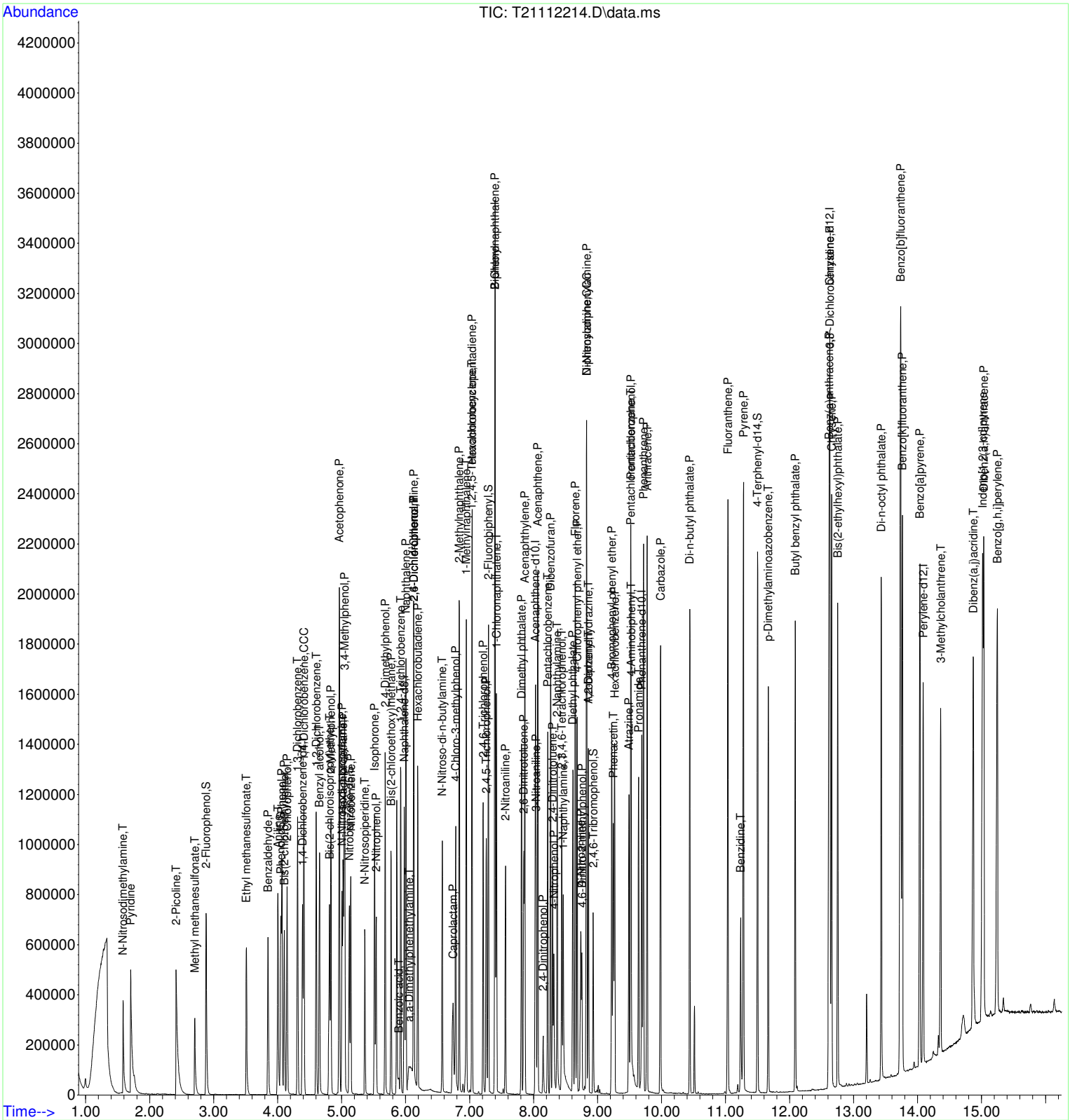
Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
107) Benzo[a]pyrene	...	14.037	252	756621	53.07	ng	98
108) Dibenz(a,j)acridine	...	14.872	279	650679	62.13	ng	100
109) Indeno[1,2,3-cd]pyrene	...	15.017	276	915811	56.11	ng	92
110) Dibenz(a,h)anthracene	...	15.034	278	760580	58.14	ng	100
111) Benzo[g,h,i]perylene	...	15.247	276	761769	57.29	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112214.D
Acq On : 22 Nov 2021 5:19 pm
Operator : YH
Sample : BNA60 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 10:07:19 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:11:35 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112215.D
Acq On : 22 Nov 2021 5:48 pm
Operator : YH
Sample : BNA80 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 23 11:14:41 2021
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:13:22 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.390	152	126698	40.00	ng		0.00
23) Naphthalene-d8	...	5.979	136	478994	40.00	ng		0.00
45) Acenaphthene-d10	...	8.030	164	286505	40.00	ng		0.00
73) Phenanthrene-d10	...	9.693	188	501890	40.00	ng		0.00
92) Chrysene-d12	...	12.631	240	460413	40.00	ng		0.00
104) Perylene-d12	...	14.088	264	492978	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.884	112	327985	79.82	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 79.82%					
9) Phenol-d5	...	4.052	99	374476	73.29	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 73.29%					
24) Nitrobenzene-d5	...	5.123	82	309811	74.11	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 148.22%#					
50) 2-Fluorobiphenyl	...	7.297	172	677785	75.23	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 150.46%#					
72) 2,4,6-Tribromophenol	...	8.934	330	94663	82.61	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 82.61%					
94) 4-Terphenyl-d14	...	11.503	244	919172	80.53	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 161.06%#					
Target Compounds								Qvalue
2) Pyridine	...	1.697	79	408932	75.90	ng		91
3) 2-Picoline	...	2.404	93	392446	74.29	ng		98
4) Methyl methanesulfonate	...	2.703	80	151702	65.50	ng		98
6) Ethyl methanesulfonate	...	3.512	79	286412	76.33	ng		98
7) Benzaldehyde	...	3.848	105	180236	80.21	ng		98
8) Aniline	...	4.004	66	163153	55.18	ng		94
10) Phenol	...	4.072	94	396611	69.02	ng		91
11) Bis(2-chloroethyl)ether	...	4.106	93	314580	71.79	ng		88
12) 2-Chlorophenol	...	4.149	128	324112	75.33	ng		99
13) 1,3-Dichlorobenzene	...	4.314	146	382917	73.47	ng		99
14) 1,4-Dichlorobenzene	...	4.410	146	369638	71.47	ng		99
15) 1,2-Dichlorobenzene	...	4.604	146	368767	75.36	ng		99
16) Benzyl alcohol	...	4.657	108	212697	72.82	ng		99
17) Bis(2-chloroisopropyl)ether	...	4.811	45	405104	62.57	ng		91
18) 2-Methylphenol	...	4.837	107	251203	73.21	ng	#	93
19) 3,4-Methylphenol	...	5.050	107	624460	144.39	ng	#	87
20) N-Nitrosodi-n-propylamine	...	5.010	70	214177	69.83	ng		96
21) N-Nitrosodimethylamine	...	1.583	74	227783	74.41	ng		91
22) Hexachloroethane	...	5.021	117	127170	71.16	ng		99
25) Acetophenone	...	4.970	105	829543	145.02	ng		98
26) Nitrobenzene	...	5.146	123	158618	78.32	ng		95
27) N-Nitrosopiperidine	...	5.368	114	168779	79.14	ng		94
28) Isophorone	...	5.516	82	643962	73.52	ng		98
29) 2-Nitrophenol	...	5.541	139	170521	88.10	ng		98
30) 2,4-Dimethylphenol	...	5.683	122	295107	78.71	ng		99
31) Bis(2-chloroethoxy)methane	...	5.774	93	386481	73.70	ng		99
32) 2,4-Dichlorophenol	...	6.129	162	260406	70.54	ng		94
33) 1,2,4-Trichlorobenzene	...	5.925	180	312463	75.90	ng		99
34) Naphthalene	...	6.007	128	937466	76.75	ng		100
35) Benzoic acid	...	5.919	122	53898	50.87	ng		97
36) 2,6-Dichlorophenol	...	6.129	162	260406	73.20	ng		99
37) 4-Chloroaniline	...	6.129	127	353437	68.29	ng		99
38) Hexachlorobutadiene	...	6.189	225	166316	69.55	ng		99
39) a,a-Dimethylphenethylamine	...	6.084	58	806234	57.29	ng		80
40) Caprolactam	...	6.754	113	121380	90.80	ng	#	81
41) 4-Chloro-3-methylphenol	...	6.789	107	274355	77.48	ng		94

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112215.D
Acq On : 22 Nov 2021 5:48 pm
Operator : YH
Sample : BNA80 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 23 11:14:41 2021
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:13:22 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) N-Nitroso-di-n-butylamine	6.575	84	218674	64.58	ng		87
43) 2-Methylnaphthalene	6.840	141	549061	75.90	ng		99
44) 1-Methylnaphthalene	6.951	141	541350	76.51	ng		98
46) 1,2,4,5-Tetrachlorobenzene	7.039	216	297282	72.02	ng		99
47) Hexachlorocyclopentadiene	7.041	237	166837	75.85	ng		97
48) 2,4,6-Trichlorophenol	7.215	196	200760	77.31	ng		98
49) 2,4,5-Trichlorophenol	7.263	196	209575	75.48	ng	#	91
51) Biphenyl	7.399	154	728005	73.42	ng		99
52) 2-Chloronaphthalene	7.399	162	591076	71.35	ng		99
53) 1-Chloronaphthalene	7.422	162	505671	68.16	ng		100
54) 2-Nitroaniline	7.564	65	177295	74.14	ng		98
55) 3-Nitroaniline	8.042	138	179482	76.24	ng		100
56) Pentachlorobenzene	8.224	250	276309	77.62	ng		99
57) 4-Nitroaniline	8.746	138	180421	76.53	ng		93
58) 2-Naphthylamine	8.371	143	569165	70.34	ng		99
59) 1-Naphthylamine	8.468	143	439135	53.02	ng		98
60) Dimethyl phthalate	7.814	163	710074	77.77	ng		99
61) Acenaphthylene	7.863	152	917081	72.61	ng		99
62) 2,6-Dinitrotoluene	7.851	165	154687	82.41	ng		89
63) Acenaphthene	8.067	154	561303	74.42	ng		98
64) 2,4-Dinitrophenol	8.155	184	59339	80.49	ng		97
65) Dibenzofuran	8.269	168	860108	74.96	ng		99
66) 4-Nitrophenol	8.323	109	82250	79.38	ng		90
67) 2,4-Dinitrotoluene	8.303	165	204599	79.41	ng		92
68) 2,3,4,6-Tetrachlorophenol	8.442	232	166246	77.36	ng		99
69) Diethyl phthalate	8.616	149	684452	76.84	ng		99
70) Fluorene	8.653	166	697133	72.41	ng		99
71) 4-Chlorophenyl phenyl ether	8.681	204	331626	72.36	ng		99
74) 4,6-Dinitro-2-methylphenol	8.761	198	115800	77.65	ng		96
75) Azobenzene	8.857	77	591060	64.96	ng		97
76) 1,2-Diphenylhydrazine	8.860	182	166861	72.03	ng	#	90
77) Diphenylamine	8.832	170	115144	67.47	ng	#	93
78) N-Nitrosodiphenylamine	8.832	168	540088	66.46	ng		98
79) 4-Bromophenyl phenyl ether	9.224	248	220754	78.58	ng		97
80) Phenacetin	9.255	108	340957	85.15	ng		98
81) Hexachlorobenzene	9.269	284	224020	80.06	ng		98
82) Atrazine	9.496	200	178923	74.69	ng		97
83) 4-Aminobiphenyl	9.528	169	615816	64.13	ng		97
84) Pentachlorophenol	9.522	266	146509	73.83	ng		97
85) Pentachloronitrobenzene	9.519	237	84171	74.34	ng		99
86) Pronamide	9.644	173	240575	66.30	ng		99
87) Phenanthrene	9.721	178	1035924	73.34	ng		99
88) Anthracene	9.778	178	1051593	74.21	ng		99
89) Carbazole	9.985	167	979502	79.48	ng		100
90) Di-n-butyl phthalate	10.440	149	1250039	78.94	ng		99
91) Fluoranthene	11.039	202	1272487	80.03	ng		98
93) Pyrene	11.284	202	1237110	74.91	ng		99
95) Benzidine	11.238	184	421724	96.01	ng		99
96) p-Dimethylaminoazobenzene	11.670	225	254551	81.54	ng		95
97) Butyl benzyl phthalate	12.091	149	540288	82.56	ng		97
98) Benz(a)anthracene	12.619	228	1210992	78.70	ng		100
99) 3,3'-Dichlorobenzidine	12.633	252	376101	80.13	ng		99
100) Chrysene	12.662	228	1098957	70.57	ng		99
101) Bis(2-ethylhexyl)phthalate	12.753	149	703673	73.38	ng		100
102) Di-n-octyl phthalate	13.435	149	1218849	76.10	ng		100
103) 3-Methylcholanthrene	14.364	268	410329	97.65	ng		99
105) Benzo[b]fluoranthene	13.739	252	1272292	73.63	ng		98
106) Benzo[k]fluoranthene	13.767	252	1001290	62.92	ng		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112215.D
Acq On : 22 Nov 2021 5:48 pm
Operator : YH
Sample : BNA80 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 23 11:14:41 2021
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:13:22 2021
Response via : Initial Calibration

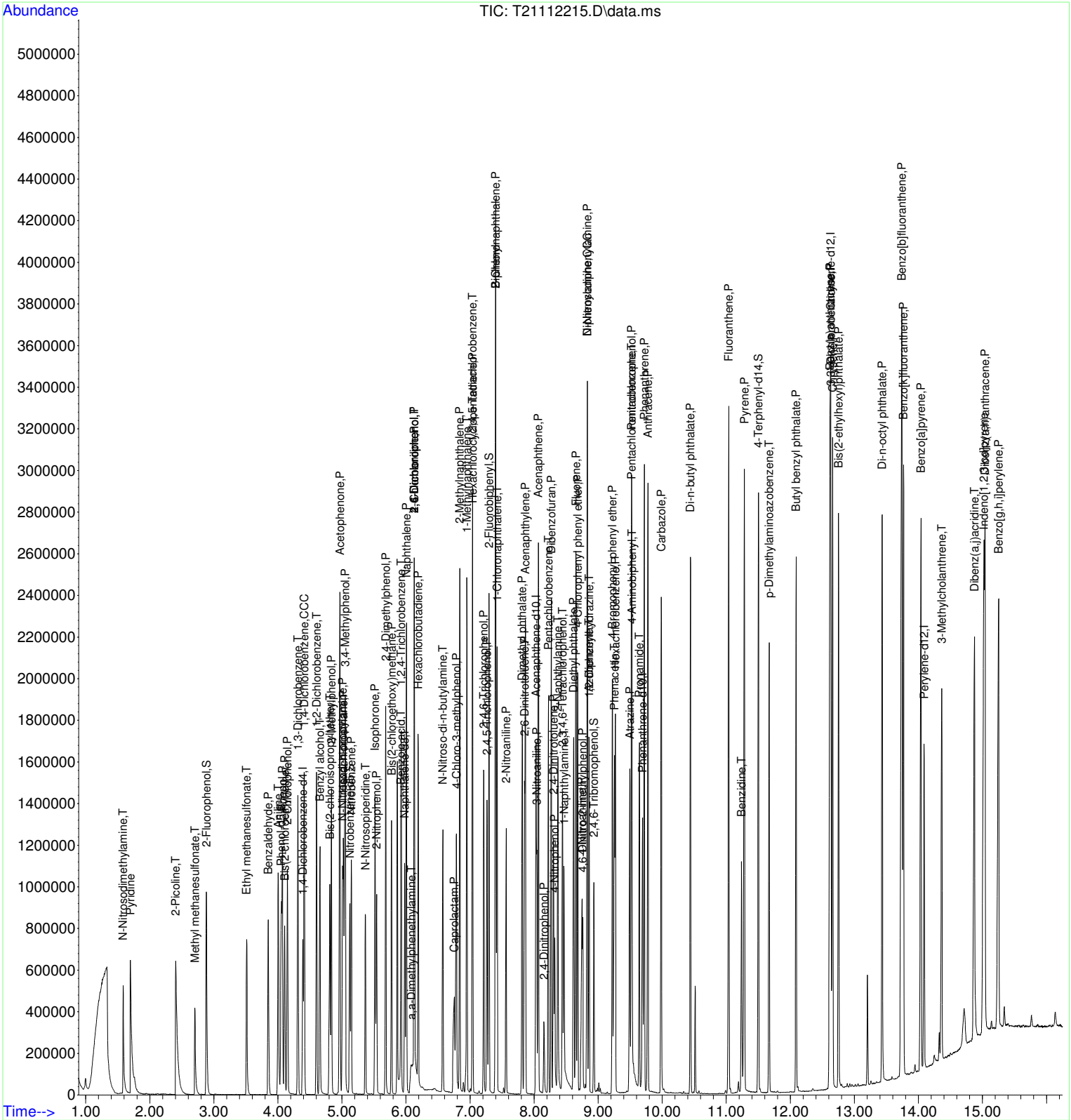
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
107) Benzo[a]pyrene	14.040	252	1053227	71.35	ng		98
108) Dibenz(a,j)acridine	14.875	279	912915	84.18	ng		100
109) Indeno[1,2,3-cd]pyrene	15.020	276	1267227	74.98	ng	#	88
110) Dibenz(a,h)anthracene	15.040	278	1036830	76.54	ng		99
111) Benzo[g,h,i]perylene	15.253	276	1051859	76.40	ng		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112215.D
Acq On : 22 Nov 2021 5:48 pm
Operator : YH
Sample : BNA80 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 23 11:14:41 2021
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:13:22 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112216.D
Acq On : 22 Nov 2021 6:17 pm
Operator : YH
Sample : BNA120 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 23 11:16:26 2021
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:15:11 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.390	152	127005	40.00	ng		0.00
23) Naphthalene-d8	...	5.981	136	475740	40.00	ng		0.00
45) Acenaphthene-d10	...	8.030	164	284425	40.00	ng		0.00
73) Phenanthrene-d10	...	9.692	188	487377	40.00	ng		0.00
92) Chrysene-d12	...	12.633	240	430932	40.00	ng		0.00
104) Perylene-d12	...	14.091	264	494698	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.884	112	478888	116.27	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 116.27%#					
9) Phenol-d5	...	4.058	99	538014	105.04	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 105.04%					
24) Nitrobenzene-d5	...	5.126	82	451792	108.81	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 217.62%#					
50) 2-Fluorobiphenyl	...	7.300	172	948818	106.08	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 212.16%#					
72) 2,4,6-Tribromophenol	...	8.937	330	137797	117.79	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 117.79%					
94) 4-Terphenyl-d14	...	11.505	244	1269688	118.84	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 237.68%#					
Target Compounds					Qvalue			
2) Pyridine	...	1.688	79	587446	108.76	ng		92
3) 2-Picoline	...	2.398	93	585491	110.57	ng		99
4) Methyl methanesulfonate	...	2.705	80	224794	96.82	ng		98
6) Ethyl methanesulfonate	...	3.518	79	420413	111.77	ng		98
7) Benzaldehyde	...	3.850	105	262720	116.63	ng		98
8) Aniline	...	4.007	66	237873	80.25	ng		95
10) Phenol	...	4.078	94	553291	96.06	ng		91
11) Bis(2-chloroethyl)ether	...	4.109	93	449567	102.35	ng		88
12) 2-Chlorophenol	...	4.152	128	467535	108.41	ng		99
13) 1,3-Dichlorobenzene	...	4.314	146	548436	104.97	ng		99
14) 1,4-Dichlorobenzene	...	4.413	146	530599	102.35	ng		99
15) 1,2-Dichlorobenzene	...	4.603	146	528560	107.76	ng		99
16) Benzyl alcohol	...	4.663	108	309033	105.55	ng		99
17) Bis(2-chloroisopropyl)ether	...	4.814	45	578337	89.12	ng		90
18) 2-Methylphenol	...	4.842	107	351970	102.32	ng	#	90
19) 3,4-Methylphenol	...	5.055	107	872350	201.22	ng	#	87
20) N-Nitrosodi-n-propylamine	...	5.015	70	294134	95.67	ng		95
21) N-Nitrosodimethylamine	...	1.583	74	341508	111.29	ng		91
22) Hexachloroethane	...	5.024	117	180425	100.71	ng		99
25) Acetophenone	...	4.976	105	1171800	206.26	ng		98
26) Nitrobenzene	...	5.152	123	229042	113.87	ng		96
27) N-Nitrosopiperidine	...	5.373	114	245663	115.98	ng		93
28) Isophorone	...	5.521	82	919001	105.64	ng		98
29) 2-Nitrophenol	...	5.547	139	265185	137.95	ng		96
30) 2,4-Dimethylphenol	...	5.689	122	423288	113.68	ng		99
31) Bis(2-chloroethoxy)methane	...	5.777	93	545955	104.82	ng		99
32) 2,4-Dichlorophenol	...	6.129	162	372818	101.68	ng		94
33) 1,2,4-Trichlorobenzene	...	5.927	180	442756	108.28	ng		99
34) Naphthalene	...	6.010	128	1302493	107.37	ng		100
35) Benzoic acid	...	5.950	122	107092	77.73	ng		96
36) 2,6-Dichlorophenol	...	6.129	162	372818	105.52	ng		100
37) 4-Chloroaniline	...	6.135	127	482683	93.91	ng	#	93
38) Hexachlorobutadiene	...	6.192	225	241152	101.53	ng		99
39) a,a-Dimethylphenethylamine	...	6.146	58	1142892	81.76	ng		85
40) Caprolactam	...	6.769	113	175329	132.06	ng	#	82
41) 4-Chloro-3-methylphenol	...	6.794	107	390158	110.93	ng		94

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112216.D
Acq On : 22 Nov 2021 6:17 pm
Operator : YH
Sample : BNA120 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 23 11:16:26 2021
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:15:11 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) N-Nitroso-di-n-butylamine	6.578	84	316214	94.03	ng		86
43) 2-Methylnaphthalene	6.842	141	754016	104.95	ng		100
44) 1-Methylnaphthalene	6.953	141	747177	106.33	ng		97
46) 1,2,4,5-Tetrachlorobenzene	7.041	216	410340	100.13	ng		99
47) Hexachlorocyclopentadiene	7.041	237	233316	106.85	ng		97
48) 2,4,6-Trichlorophenol	7.218	196	297075	115.24	ng		98
49) 2,4,5-Trichlorophenol	7.269	196	304031	110.30	ng	#	93
51) Biphenyl	7.402	154	961809	97.71	ng		99
52) 2-Chloronaphthalene	7.402	162	803875	97.75	ng		99
53) 1-Chloronaphthalene	7.425	162	712827	96.79	ng		99
54) 2-Nitroaniline	7.567	65	258171	108.75	ng		99
55) 3-Nitroaniline	8.047	138	258152	110.46	ng		98
56) Pentachlorobenzene	8.226	250	395019	111.77	ng		99
57) 4-Nitroaniline	8.758	138	264418	112.97	ng		94
58) 2-Naphthylamine	8.377	143	795905	99.08	ng		99
59) 1-Naphthylamine	8.471	143	554472	67.43	ng		97
60) Dimethyl phthalate	7.820	163	1020555	112.59	ng		100
61) Acenaphthylene	7.868	152	1262916	100.72	ng		99
62) 2,6-Dinitrotoluene	7.857	165	221246	118.73	ng	#	77
63) Acenaphthene	8.070	154	774388	103.43	ng		97
64) 2,4-Dinitrophenol	8.161	184	105781	116.57	ng		98
65) Dibenzofuran	8.272	168	1188494	104.33	ng		98
66) 4-Nitrophenol	8.331	109	120258	116.92	ng		89
67) 2,4-Dinitrotoluene	8.309	165	297664	116.37	ng		94
68) 2,3,4,6-Tetrachlorophenol	8.448	232	242135	113.49	ng		99
69) Diethyl phthalate	8.621	149	968398	109.52	ng		99
70) Fluorene	8.658	166	967954	101.28	ng		98
71) 4-Chlorophenyl phenyl ether	8.684	204	469245	103.13	ng		100
74) 4,6-Dinitro-2-methylphenol	8.769	198	181441	116.30	ng		96
75) Azobenzene	8.863	77	820854	92.90	ng		97
76) 1,2-Diphenylhydrazine	8.863	182	238610	106.08	ng		95
77) Diphenylamine	8.834	170	158766	95.80	ng	#	92
78) N-Nitrosodiphenylamine	8.837	168	739725	93.74	ng		98
79) 4-Bromophenyl phenyl ether	9.226	248	317036	116.22	ng		98
80) Phenacetin	9.263	108	476218	122.47	ng		98
81) Hexachlorobenzene	9.272	284	313860	115.51	ng		98
82) Atrazine	9.499	200	255394	109.79	ng		99
83) 4-Aminobiphenyl	9.530	169	771068	82.69	ng		98
84) Pentachlorophenol	9.525	266	206003	102.94	ng		96
85) Pentachloronitrobenzene	9.525	237	119253	108.45	ng		98
86) Pronamide	9.650	173	346132	98.23	ng		99
87) Phenanthrene	9.724	178	1429658	104.23	ng		99
88) Anthracene	9.780	178	1448135	105.23	ng		99
89) Carbazole	9.991	167	1356210	113.33	ng		100
90) Di-n-butyl phthalate	10.443	149	1748771	113.72	ng		99
91) Fluoranthene	11.042	202	1749982	113.33	ng		98
93) Pyrene	11.286	202	1672813	108.22	ng		98
95) Benzidine	11.241	184	636072	153.20	ng		98
96) p-Dimethylaminoazobenzene	11.673	225	371484	127.14	ng		98
97) Butyl benzyl phthalate	12.093	149	782287	127.71	ng		99
98) Benz(a)anthracene	12.622	228	1690488	117.38	ng		99
99) 3,3'-Dichlorobenzidine	12.636	252	527939	120.18	ng		99
100) Chrysene	12.667	228	1522052	104.42	ng		99
101) Bis(2-ethylhexyl)phthalate	12.755	149	1004722	109.40	ng		99
102) Di-n-octyl phthalate	13.437	149	1775410	112.68	ng		99
103) 3-Methylcholanthrene	14.369	268	596295	151.62	ng		99
105) Benzo[b]fluoranthene	13.753	252	1882916	108.58	ng		98
106) Benzo[k]fluoranthene	13.776	252	1319721	82.64	ng		99

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112216.D
Acq On : 22 Nov 2021 6:17 pm
Operator : YH
Sample : BNA120 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 23 11:16:26 2021
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:15:11 2021
Response via : Initial Calibration

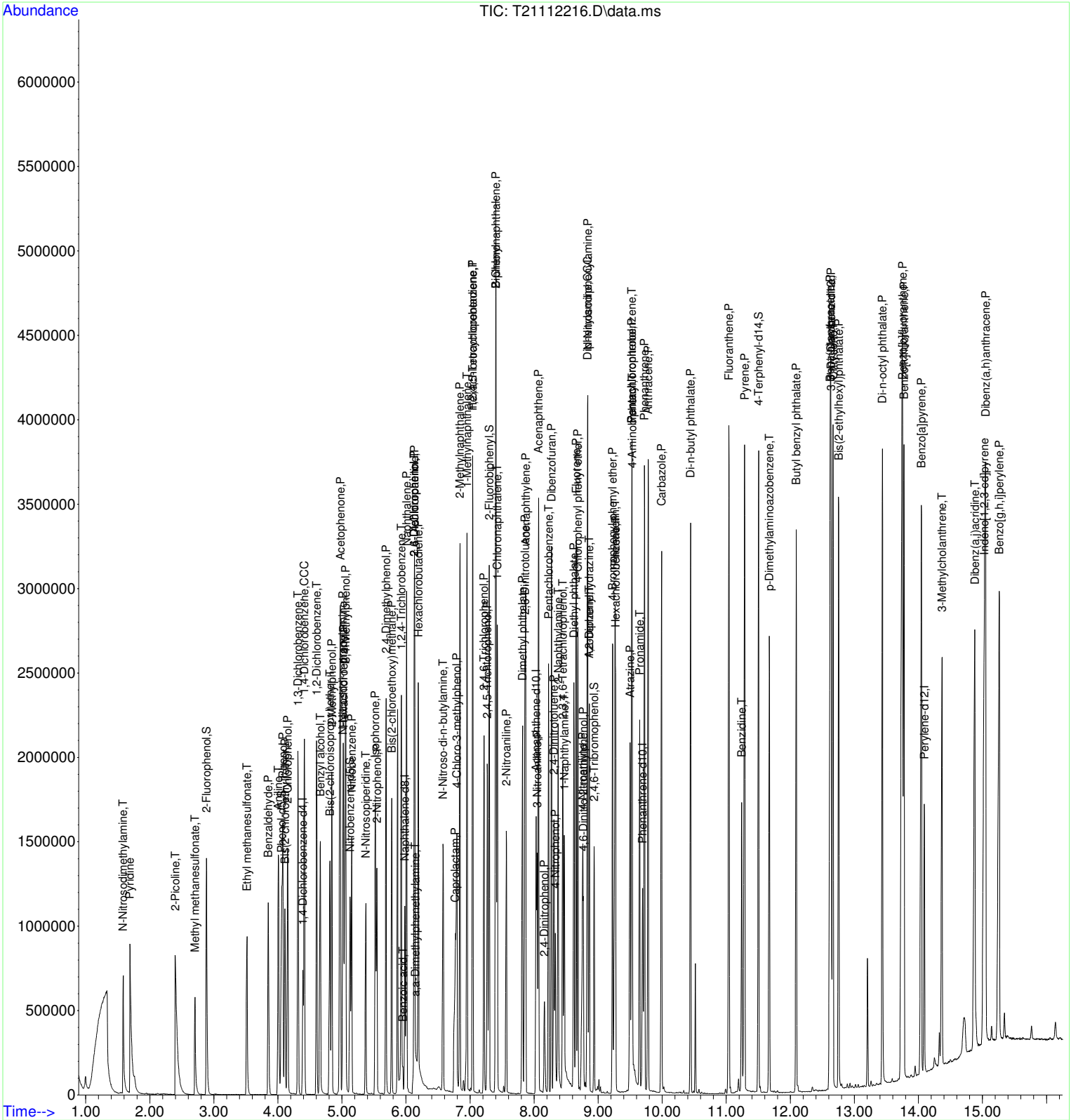
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
107) Benzo[a]pyrene	14.048	252	1531380	103.38	ng		98
108) Dibenz(a,j)acridine	14.881	279	1361803	125.13	ng		99
109) Indeno[1,2,3-cd]pyrene	15.029	276	1861446	109.76	ng	#	89
110) Dibenz(a,h)anthracene	15.049	278	1479003	108.80	ng		98
111) Benzo[g,h,i]perylene	15.264	276	1552561	112.37	ng		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112216.D
Acq On : 22 Nov 2021 6:17 pm
Operator : YH
Sample : BNA120 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 23 11:16:26 2021
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:15:11 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112218.D
Acq On : 22 Nov 2021 7:13 pm
Operator : YH
Sample : BNA5 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 05 10:17:13 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:21:24 2021
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.385	152	134785	40.00	ng		0.00
23) Naphthalene-d8	...	5.976	136	522987	40.00	ng		0.00
45) Acenaphthene-d10	...	8.025	164	297800	40.00	ng		0.00
73) Phenanthrene-d10	...	9.687	188	543313	40.00	ng		0.00
92) Chrysene-d12	...	12.619	240	487056	40.00	ng		0.00
104) Perylene-d12	...	14.082	264	485724	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.879	112	19290	4.41	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery =	4.41%#				
9) Phenol-d5	...	4.041	99	24474	4.50	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery =	4.50%#				
24) Nitrobenzene-d5	...	5.112	82	19698	4.32	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery =	8.64%#				
50) 2-Fluorobiphenyl	...	7.289	172	49167	5.25	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery =	10.50%#				
72) 2,4,6-Tribromophenol	...	8.922	330	4467	10.59	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery =	10.59%				
94) 4-Terphenyl-d14	...	11.494	244	53993	4.47	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery =	8.94%#				
Target Compounds					Qvalue			
2) Pyridine	...	1.722	79	23597	4.12	ng	#	88
3) 2-Picoline	...	2.430	93	24939	4.44	ng		83
4) Methyl methanesulfonate	...	2.714	80	9806	3.98	ng	#	81
6) Ethyl methanesulfonate	...	3.509	79	18490	4.63	ng	#	91
7) Benzaldehyde	...	3.848	105	11244	4.70	ng		98
8) Aniline	...	4.001	66	9406	2.99	ng		95
10) Phenol	...	4.055	94	27482	4.50	ng		90
11) Bis(2-chloroethyl)ether	...	4.098	93	22648	4.86	ng		90
12) 2-Chlorophenol	...	4.143	128	21965	4.80	ng		99
13) 1,3-Dichlorobenzene	...	4.308	146	26845	4.84	ng		99
14) 1,4-Dichlorobenzene	...	4.407	146	26450	4.81	ng		99
15) 1,2-Dichlorobenzene	...	4.601	146	25213	4.84	ng		98
16) Benzyl alcohol	...	4.646	108	12545	4.04	ng		98
17) Bis(2-chloroisopropyl)ether	...	4.808	45	28531	4.14	ng	#	69
18) 2-Methylphenol	...	4.819	107	16654	4.56	ng	#	82
19) 3,4-Methylphenol	...	5.030	107	44659	9.71	ng	#	88
20) N-Nitrosodi-n-propylamine	...	4.993	70	14446	4.43	ng	#	89
21) N-Nitrosodimethylamine	...	1.594	74	13390	4.11	ng	#	99
22) Hexachloroethane	...	5.021	117	9450	4.97	ng		88
25) Acetophenone	...	4.953	105	57084	9.14	ng		98
26) Nitrobenzene	...	5.135	123	9883	4.47	ng	#	78
27) N-Nitrosopiperidine	...	5.354	114	9370	4.02	ng		97
28) Isophorone	...	5.501	82	35750	3.74	ng	#	92
29) 2-Nitrophenol	...	5.535	139	8927	4.22	ng	#	82
30) 2,4-Dimethylphenol	...	5.672	122	17514	4.28	ng		100
31) Bis(2-chloroethoxy)methane	...	5.766	93	26198	4.58	ng		99
32) 2,4-Dichlorophenol	...	6.124	162	15218	3.78	ng		93
33) 1,2,4-Trichlorobenzene	...	5.919	180	21836	4.86	ng		98
34) Naphthalene	...	5.999	128	69976	5.25	ng		99
35) Benzoic acid	...	0.000	122	0	N.D.	d		
36) 2,6-Dichlorophenol	...	6.124	162	15218	3.92	ng		98
37) 4-Chloroaniline	...	6.118	127	24370	4.31	ng		98
38) Hexachlorobutadiene	...	6.186	225	11593	4.44	ng		98
39) a,a-Dimethylphenethylamine	...	5.959	58	41768	2.72	ng		65
40) Caprolactam	...	6.675	113	4315	2.96	ng		95
41) 4-Chloro-3-methylphenol	...	6.766	107	14375	3.72	ng		92

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112218.D
Acq On : 22 Nov 2021 7:13 pm
Operator : YH
Sample : BNA5 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 05 10:17:13 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:21:24 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) N-Nitroso-di-n-butylamine	6.564	84	10810	2.92	ng		90
43) 2-Methylnaphthalene	6.834	141	40109	5.08	ng		99
44) 1-Methylnaphthalene	6.942	141	38419	4.97	ng		98
46) 1,2,4,5-Tetrachlorobenzene	7.033	216	21331	4.97	ng		98
47) Hexachlorocyclopentadiene	7.036	237	7845	3.43	ng	#	87
48) 2,4,6-Trichlorophenol	7.203	196	9702	3.59	ng		96
49) 2,4,5-Trichlorophenol	7.252	196	11151	3.86	ng	#	84
51) Biphenyl	7.391	154	57463	5.58	ng		98
52) 2-Chloronaphthalene	7.388	162	41716	4.84	ng		100
53) 1-Chloronaphthalene	7.411	162	40804	5.29	ng		99
54) 2-Nitroaniline	7.550	65	8037	3.23	ng		91
55) 3-Nitroaniline	8.027	138	7012	2.87	ng	#	53
56) Pentachlorobenzene	8.215	250	17666	4.77	ng	#	97
57) 4-Nitroaniline	8.712	138	7280	2.97	ng	#	81
58) 2-Naphthylamine	8.360	143	31012	3.69	ng	#	97
59) 1-Naphthylamine	8.454	143	22529	2.62	ng	#	95
60) Dimethyl phthalate	7.800	163	42052	4.43	ng	#	93
61) Acenaphthylene	7.857	152	58166	4.43	ng		100
62) 2,6-Dinitrotoluene	7.834	165	6544	3.35	ng		91
63) Acenaphthene	8.059	154	39588	5.05	ng		97
64) 2,4-Dinitrophenol	8.138	184	737	18.26	ng		98
65) Dibenzofuran	8.260	168	60688	5.09	ng		99
66) 4-Nitrophenol	8.306	109	3024	2.81	ng		99
67) 2,4-Dinitrotoluene	8.286	165	7556	2.82	ng		84
68) 2,3,4,6-Tetrachlorophenol	8.431	232	7881	3.53	ng	#	87
69) Diethyl phthalate	8.601	149	38841	4.20	ng		99
70) Fluorene	8.644	166	49004	4.90	ng		99
71) 4-Chlorophenyl phenyl ether	8.675	204	23174	4.86	ng		96
74) 4,6-Dinitro-2-methylphenol	8.735	198	3301	16.30	ng	#	33
75) Azobenzene	8.849	77	37828	3.84	ng		94
76) 1,2-Diphenylhydrazine	8.849	182	9381	3.74	ng	#	66
77) Diphenylamine	8.814	170	7853	4.25	ng		97
78) N-Nitrosodiphenylamine	8.814	168	38119	4.33	ng		100
79) 4-Bromophenyl phenyl ether	9.215	248	12843	4.22	ng		95
80) Phenacetin	9.221	108	12029	2.78	ng		99
81) Hexachlorobenzene	9.258	284	15404	5.09	ng		92
82) Atrazine	9.474	200	8561	3.30	ng	#	90
83) 4-Aminobiphenyl	9.516	169	30824	2.97	ng	#	95
84) Pentachlorophenol	9.508	266	5368	11.03	ng		99
85) Pentachloronitrobenzene	9.508	237	3820	3.12	ng	#	58
86) Pronamide	9.627	173	9770	2.49	ng		100
87) Phenanthrene	9.710	178	71831	4.70	ng		100
88) Anthracene	9.763	178	64206	4.19	ng		98
89) Carbazole	9.974	167	58781	4.41	ng		100
90) Di-n-butyl phthalate	10.434	149	52367	3.05	ng	#	95
91) Fluoranthene	11.028	202	71325	4.14	ng		98
93) Pyrene	11.272	202	72354	4.14	ng		99
95) Benzidine	11.230	184	14838	5.58	ng		95
96) p-Dimethylaminoazobenzene	11.662	225	7368	2.23	ng	#	84
97) Butyl benzyl phthalate	12.082	149	18749	2.71	ng		91
98) Benz(a)anthracene	12.611	228	64206	3.94	ng		98
99) 3,3'-Dichlorobenzidine	12.622	252	16672	3.36	ng		93
100) Chrysene	12.645	228	71070	4.31	ng		100
101) Bis(2-ethylhexyl)phthalate	12.750	149	23255	6.97	ng	#	95
102) Di-n-octyl phthalate	13.426	149	35365	12.14	ng	#	92
103) 3-Methylcholanthrene	14.350	268	19397	4.36	ng		93
105) Benzo[b]fluoranthene	13.716	252	67840	3.98	ng		97
106) Benzo[k]fluoranthene	13.744	252	65493	4.18	ng		99

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112218.D
Acq On : 22 Nov 2021 7:13 pm
Operator : YH
Sample : BNA5 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 11 Sample Multiplier: 1

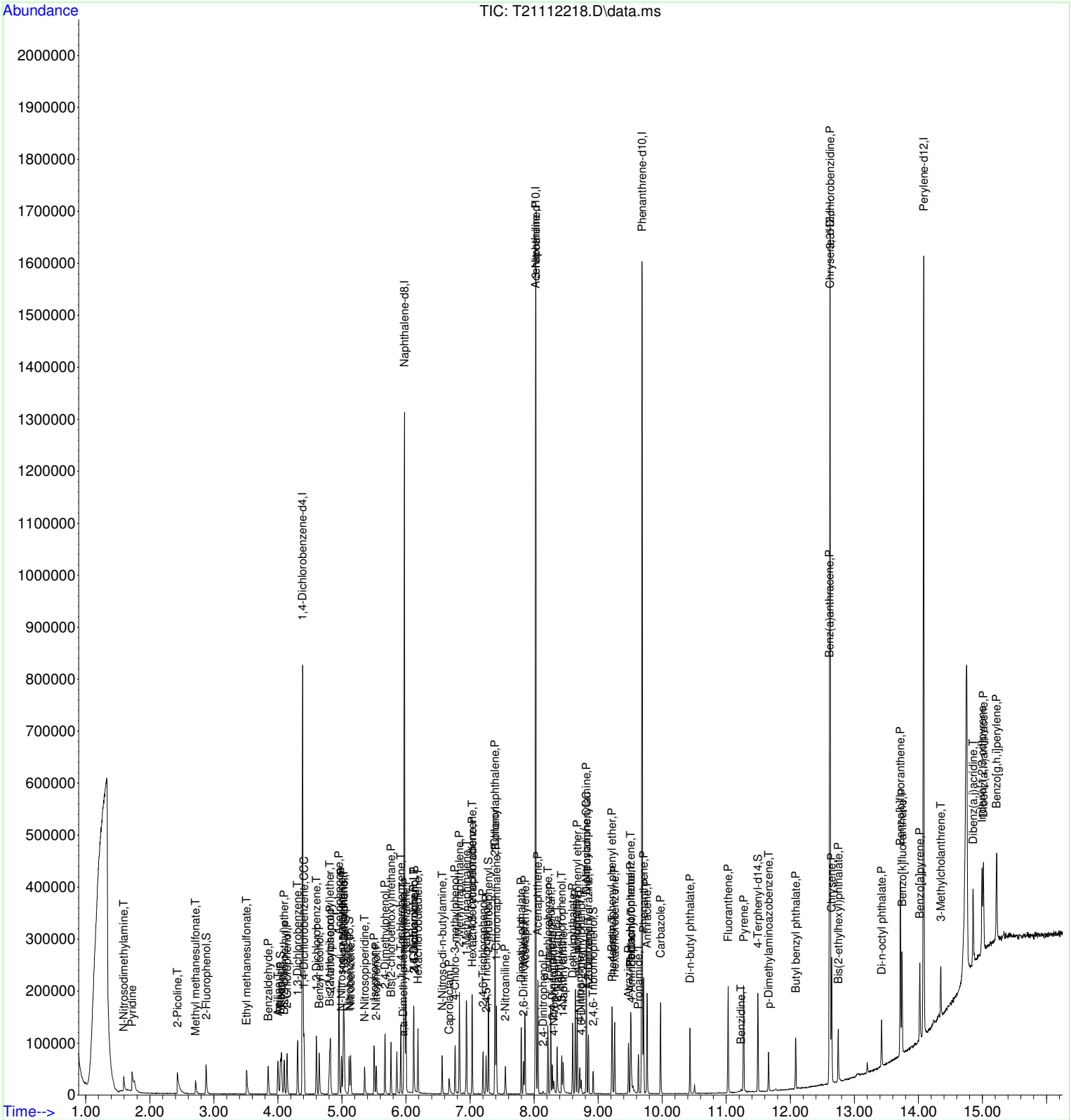
Quant Time: Jan 05 10:17:13 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:21:24 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
107) Benzo[a]pyrene	... 14.023	252	52180	3.59	ng		98
108) Dibenz(a,j)acridine	... 14.852	279	50418	4.72	ng		100
109) Indeno[1,2,3-cd]pyrene	... 14.995	276	71735	4.31	ng	#	93
110) Dibenz(a,h)anthracene	... 15.014	278	60690	4.55	ng		97
111) Benzo[g,h,i]perylene	... 15.219	276	61565	4.54	ng		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\T211122\
Data File : T21112218.D
Acq On : 22 Nov 2021 7:13 pm
Operator : YH
Sample : BNA5 982-59/
Misc : ICAL 8270_TCL4.2_S
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 05 10:17:13 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Tue Nov 23 11:21:24 2021
Response via : Initial Calibration



Response Factor Report MS-14

Method Path : C:\msdchem\1\methods\
Method File : B112221.M
Title : MS-14 BNA CURVE 8270E/625
Last Update : Wed Jan 05 10:09:20 2022
Response Via : Initial Calibration

Calibration Files
160 =T21112217.D 60 =T21112214.D 40 =T21112213.D 120 =T21112216.D 80 =T21112215.D 10 =T21112211.D 20 =T21112212.D
5 =T21061010.D

		Compound	160	60	40	120	80	10	20	5	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	ISTD									
2)		Pyridine	1.589	1.646	1.617	1.542	1.614	1.555	1.566		1.590	2.37
3)	T	2-Picoline	1.536	1.560	1.534	1.537	1.549	1.559	1.502		1.540	1.28
4)	T	Methyl methane...	0.603	0.599	0.584	0.590	0.599	0.592	0.582		0.593	1.32
5)	S	2-Fluorophenol	1.253	1.302	1.266	1.257	1.294	1.247	1.247		1.267	1.77
6)	T	Ethyl methanes...	1.130	1.147	1.110	1.103	1.130	1.149	1.118		1.127	1.56
7)	P	Benzaldehyde	0.665	0.719	0.678	0.690	0.711	0.685	0.678		0.690	2.78
8)	T	Aniline	0.625	0.653	0.587	0.624	0.644	0.597	0.612		0.620	3.82
9)	S	Phenol-d5	1.408	1.527	1.511	1.412	1.478	1.546	1.522		1.486	3.77
10)	P	Phenol	1.447	1.623	1.655	1.452	1.565	1.726	1.675		1.592	6.84
11)	P	Bis(2-chloroet...	1.187	1.288	1.304	1.180	1.241	1.381	1.314		1.271	5.70
12)	P	2-Chlorophenol	1.223	1.326	1.308	1.227	1.279	1.399	1.357		1.303	4.99
13)	T	1,3-Dichlorobe...	1.425	1.557	1.563	1.439	1.511	1.662	1.606		1.538	5.58
14)	CCC	1,4-Dichlorobe...	1.363	1.499	1.502	1.393	1.459	1.616	1.535		1.481	5.80
15)	T	1,2-Dichlorobe...	1.371	1.499	1.478	1.387	1.455	1.578	1.523		1.470	5.00
16)	T	Benzyl alcohol	0.837	0.831	0.822	0.811	0.839	0.814	0.785		0.820	2.30
17)	T	Bis(2-chlorois...	1.489	1.655	1.667	1.518	1.599	1.789	1.707		1.632	6.45
18)	P	2-Methylphenol	0.933	0.999	0.998	0.924	0.991	1.024	1.009		0.983	3.93
19)	P	3,4-Methylphenol	1.135	1.266	1.288	1.145	1.232	1.417	1.369		1.265	8.35
20)	P	N-Nitrosodi-n-...	0.727	0.865	0.856	0.772	0.845	0.885	0.874		0.832	7.11
21)	T	N-Nitrosodimet...	0.902	0.905	0.881	0.896	0.899	0.890	0.860		0.890	1.77
22)	P	Hexachloroethane	0.457	0.520	0.520	0.474	0.502	0.561	0.543		0.511	7.16
23)	I	Naphthalene-d8	ISTD									
24)	S	Nitrobenzene-d5	0.316	0.324	0.320	0.317	0.323	0.307	0.312		0.317	1.92
25)	P	Acetophenone	0.399	0.442	0.452	0.411	0.433	0.461	0.455	0.487	0.443	6.39
26)	P	Nitrobenzene	0.159	0.167	0.163	0.160	0.166	0.162	0.161		0.163#	1.83
27)	T	N-Nitrosopiper...	0.174	0.172	0.167	0.172	0.176	0.158	0.158		0.168	4.50
28)	P	Isophorone	0.642	0.663	0.649	0.644	0.672	0.596	0.613		0.640	4.19
29)	P	2-Nitrophenol	0.188	0.175	0.169	0.186	0.178	0.158	0.160		0.173	6.78
30)	P	2,4-Dimethylph...	0.290	0.314	0.305	0.297	0.308	0.301	0.300		0.302	2.54
31)	P	Bis(2-chloroet...	0.377	0.402	0.405	0.383	0.403	0.416	0.403		0.398	3.47
32)	P	2,4-Dichloroph...	0.263	0.275	0.273	0.261	0.272	0.260	0.268		0.268	2.24
33)	T	1,2,4-Trichlor...	0.305	0.328	0.328	0.310	0.326	0.346	0.328		0.325	4.21
34)	P	Naphthalene	0.877	1.012	1.018	0.913	0.979	1.094	1.037		0.990	7.51
35)	T	Benzoic acid	0.089	0.042	0.029	0.075	0.056				0.058	41.65
36)	T	2,6-Dichloroph...	0.263	0.275	0.273	0.261	0.272	0.260	0.268		0.268	2.24
37)	P	4-Chloroaniline	0.333	0.377	0.362	0.338	0.369	0.397	0.396		0.368	6.89
38)	P	Hexachlorobuta...	0.164	0.176	0.172	0.169	0.174	0.177	0.173		0.172	2.58
39)	T	a,a-Dimethylph...	0.863	0.807	0.768	0.801	0.842	0.695	0.694		0.781	8.53
40)	P	Caprolactam	0.122	0.122	0.114	0.123	0.127	0.081	0.089		0.111	16.54
41)	P	4-Chloro-3-met...	0.274	0.287	0.280	0.273	0.286	0.264	0.270		0.276	3.06
42)	T	N-Nitroso-di-n...	0.223	0.222	0.213	0.222	0.228	0.188	0.201		0.214	6.78

Method Path : C:\msdchem\1\methods\
Method File : B112221.M
Title : MS-14 BNA CURVE 8270E/625

43)	P	2-Methylnaphth...	0.508	0.595	0.605	0.528	0.573	0.647	0.612	0.581	8.38
44)	T	1-Methylnaphth...	0.510	0.579	0.589	0.524	0.565	0.633	0.597	0.571	7.47
45)	I	Acenaphthene-d10	----------ISTD----------								
46)	T	1,2,4,5-Tetrac...	0.449	0.531	0.542	0.481	0.519	0.595	0.569	0.526	9.46
47)	P	Hexachlorocycl...	0.259	0.290	0.273	0.273	0.291	0.236	0.256	0.268	7.35
48)	P	2,4,6-Trichlor...	0.347	0.341	0.329	0.348	0.350	0.315	0.326	0.337	4.00
49)	P	2,4,5-Trichlor...	0.353	0.356	0.350	0.356	0.366	0.347	0.344	0.353	2.02
50)	S	2-Fluorobiphenyl	1.040	1.235	1.256	1.112	1.183	1.396	1.326	1.221	9.97
51)		Biphenyl	1.020	1.355	1.427	1.127	1.270	1.627	1.526	1.336	16.07
52)	P	2-Chloronaphth...	0.948	1.053	1.071	0.942	1.032	1.194	1.126	1.052	8.62
53)	T	1-Chloronaphth...	0.731	0.946	0.975	0.835	0.882	1.111	1.059	0.934	13.99
54)	P	2-Nitroaniline	0.304	0.302	0.281	0.303	0.309	0.246	0.265	0.287	8.34
55)	P	3-Nitroaniline	0.312	0.300	0.277	0.303	0.313	0.240	0.260	0.286	9.86
56)	T	Pentachloroben...	0.443	0.480	0.482	0.463	0.482	0.497	0.485	0.476	3.71
57)	P	4-Nitroaniline	0.312	0.300	0.279	0.310	0.315	0.235	0.262	0.287	10.54
58)	T	2-Naphthylamine	0.917	0.996	0.979	0.933	0.993	0.995	1.015	0.976	3.73
59)	T	1-Naphthylamine	0.663	0.762	0.650	0.650	0.766	0.763	0.815	0.724	9.41
60)	P	Dimethyl phtha...	1.184	1.231	1.215	1.196	1.239	1.216	1.224	1.215	1.59
61)	P	Acenaphthylene	1.358	1.657	1.672	1.480	1.600	1.754	1.737	1.608	8.92
62)	P	2,6-Dinitrotol...	0.253	0.260	0.247	0.259	0.270	0.209	0.225	0.246	8.76
63)	P	Acenaphthene	0.855	1.004	1.020	0.908	0.980	1.108	1.066	0.992	8.81
64)	P	2,4-Dinitrophenol	0.141	0.080	0.051	0.124	0.104		0.031	0.088	48.04
65)	P	Dibenzofuran	1.327	1.533	1.572	1.393	1.501	1.706	1.637	1.524	8.67
66)	P	4-Nitrophenol	0.144	0.135	0.129	0.141	0.144	0.111	0.124	0.133	9.19
67)	P	2,4-Dinitrotol...	0.360	0.341	0.323	0.349	0.357	0.255	0.293	0.325	11.86
68)	T	2,3,4,6-Tetrac...	0.284	0.286	0.273	0.284	0.290	0.261	0.268	0.278	3.90
69)	P	Diethyl phthalate	1.111	1.185	1.185	1.135	1.194	1.158	1.175	1.163	2.64
70)	P	Fluorene	1.080	1.264	1.292	1.134	1.217	1.403	1.358	1.250	9.27
71)	P	4-Chlorophenyl...	0.528	0.588	0.594	0.550	0.579	0.663	0.615	0.588	7.48
72)	S	2,4,6-Tribromo...	0.165	0.158	0.150	0.161	0.165	0.132	0.141	0.153	8.39
73)	I	Phenanthrene-d10	----------ISTD----------								
74)	P	4,6-Dinitro-2-...	0.132	0.103	0.082	0.124	0.115	0.041	0.063	0.094	35.85
75)	T	Azobenzene	0.620	0.598	0.607	0.561	0.589	0.605	0.607	0.598	3.15
76)	T	1,2-Diphenylhy...	0.159	0.167	0.168	0.163	0.166	0.159	0.165	0.164	2.27
77)	CCC	Diphenylamine	0.103	0.115	0.117	0.109	0.115	0.120	0.119	0.114	5.46
78)	P	N-Nitrosodiphe...	0.474	0.553	0.560	0.506	0.538	0.605	0.578	0.545	8.06
79)	P	4-Bromophenyl ...	0.212	0.216	0.213	0.217	0.220	0.202	0.202	0.212	3.28
80)	T	Phenacetin	0.307	0.308	0.306	0.326	0.340	0.241	0.265	0.299	11.53
81)	P	Hexachlorobenzene	0.201	0.221	0.226	0.215	0.223	0.236	0.229	0.222	5.03
82)	P	Atrazine	0.172	0.174	0.171	0.175	0.178	0.150	0.156	0.168	6.34
83)	T	4-Aminobiphenyl	0.521	0.606	0.431	0.527	0.613	0.502	0.607	0.544	12.54
84)	P	Pentachlorophenol	0.135	0.144	0.136	0.141	0.146	0.108	0.120	0.133	10.39
85)	T	Pentachloronit...	0.081	0.082	0.078	0.082	0.084	0.067	0.072	0.078	7.82
86)	T	Pronamide	0.237	0.229	0.217	0.237	0.240	0.170	0.191	0.217	12.37
87)	P	Phenanthrene	0.947	1.044	1.051	0.978	1.032	1.111	1.065	1.032	5.30
88)	P	Anthracene	0.960	1.052	1.057	0.990	1.048	1.052	1.033	1.027	3.64
89)	P	Carbazole	0.914	0.942	0.922	0.928	0.976	0.949	0.903	0.933	2.63
90)	P	Di-n-butyl pht...	1.178	1.195	1.145	1.196	1.245	0.930	1.015	1.129	10.07
91)	P	Fluoranthene	1.170	1.256	1.256	1.197	1.268	1.170	1.177	1.213	3.67
92)	I	Chrysene-d12	----------ISTD----------								

Method Path : C:\msdchem\1\methods\
Method File : B112221.M
Title : MS-14 BNA CURVE 8270E/625

93)	P	Pyrene	1.331	1.331	1.334	1.294	1.343	1.341	1.321	1.328	1.25
94)	S	4-Terphenyl-d14	1.007	0.972	0.953	0.982	0.998	0.957	0.939	0.973	2.55
95)	T	Benzidine	0.538	0.398	0.371	0.492	0.458	0.284	0.319	0.409	22.55
96)	T	p-Dimethylamin...	0.308	0.257	0.229	0.287	0.276	0.165	0.193	0.245	21.26
97)	P	Butyl benzyl p...	0.644	0.548	0.496	0.605	0.587	0.385	0.429	0.528	18.07
98)	P	Benz(a)anthracene	1.334	1.267	1.216	1.308	1.315	1.151	1.164	1.251	5.96
99)	P	3,3'-Dichlorob...	0.416	0.384	0.351	0.408	0.408	0.337	0.317	0.375	10.51
100)	P	Chrysene	1.205	1.159	1.152	1.177	1.193	1.222	1.159	1.181	2.26
101)	P	Bis(2-ethylhex...	0.806	0.709	0.655	0.777	0.764	0.481	0.561	0.510	0.658	19.29
102)	P	Di-n-octyl pht...	1.416	1.213	1.073	1.373	1.324	0.765	0.900		1.152	21.59
103)	T	3-Methylcholan...	0.490	0.421	0.384	0.461	0.446	0.346	0.362		0.415	12.94
104)	I	Perylene-d12	----------ISTD----------									
105)	P	Benzo[b]fluora...	1.279	1.255	1.241	1.269	1.290	1.159	1.213		1.244	3.64
106)	P	Benzo[k]fluora...	0.742	1.091	1.130	0.889	1.016	1.159	1.132		1.023	15.12
107)	P	Benzo[a]pyrene	1.026	1.059	1.044	1.032	1.068	0.949	0.987		1.024	4.13
108)	T	Dibenz(a,j)acr...	0.919	0.911	0.883	0.918	0.926	0.818	0.840		0.888	4.81
109)		Indeno[1,2,3-c...	1.233	1.282	1.073	1.254	1.285	1.026	1.048		1.172	9.98
110)	P	Dibenz(a,h)ant...	0.955	1.065	1.041	0.997	1.052	1.030	1.024		1.023	3.65
111)	P	Benzo[g,h,i]pe...	1.048	1.067	1.058	1.046	1.067	1.052	1.050		1.055	0.82

(#) = Out of Range

Injection Log

Directory: C:\msdchem\1\data\T211123

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	T21112300.D	1.	DFTPP	TUNE DFTPP_4	23 Nov 2021 09:03
2	1	T21112301.D	1.	DFTPP	TUNE DFTPP_4	23 Nov 2021 09:03
3	1	T21112302.D	1.	DFTPP	TUNE DFTPP_4	23 Nov 2021 09:42
4	2	T21112303.D	1.	BNA80	CCV 8270_TCL4.2_S	23 Nov 2021 10:11
5	12	T21112304.D	1.	BNA80	ICV 8270_TCL4.2_S	23 Nov 2021 16:00
6	13	T21112305.D	1.	BNA40	ICV 8270_TCL4.2_S	23 Nov 2021 16:27

Area Percent Report

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112302.D
Acq On : 23 Nov 2021 9:42 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\methods\DFTPP.M
Title :

Signal : TIC: T21112302.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.316	45	151	152	rBV2	617671	6131774	100.00%	55.494%
2	9.508	3022	3034	3051	rBV	1292762	999789	16.31%	9.048%
3	10.116	3239	3248	3255	rVB	1310420	977582	15.94%	8.847%
4	11.235	3631	3642	3665	rBV	1646731	1350643	22.03%	12.224%
5	12.148	3954	3963	3975	rBV	2126130	1589696	25.93%	14.387%

Sum of corrected areas: 11049484

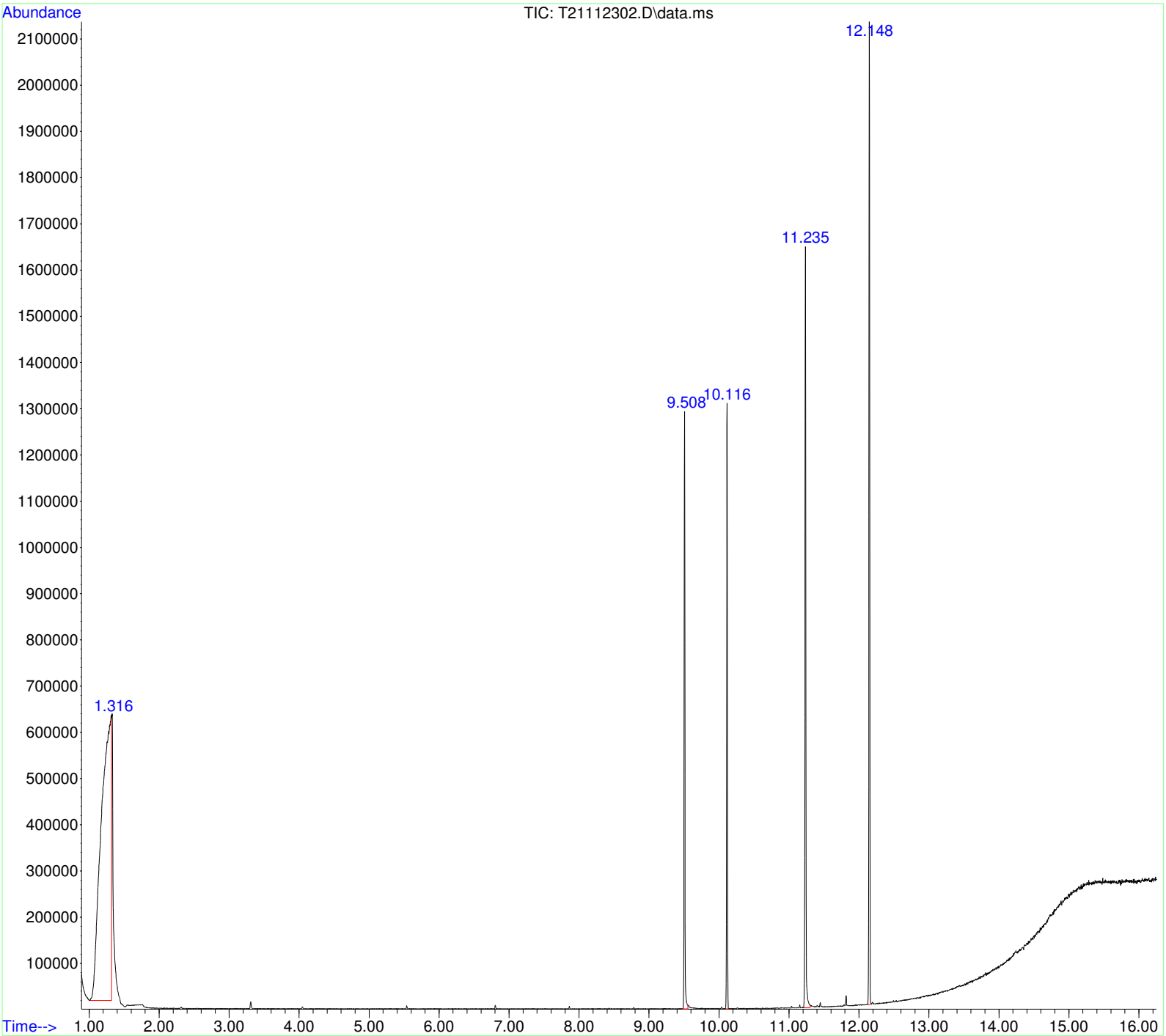
Area Percent Report

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112302.D
Acq On : 23 Nov 2021 9:42 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\methods\DFTPP.M
Title :



Library Search Report

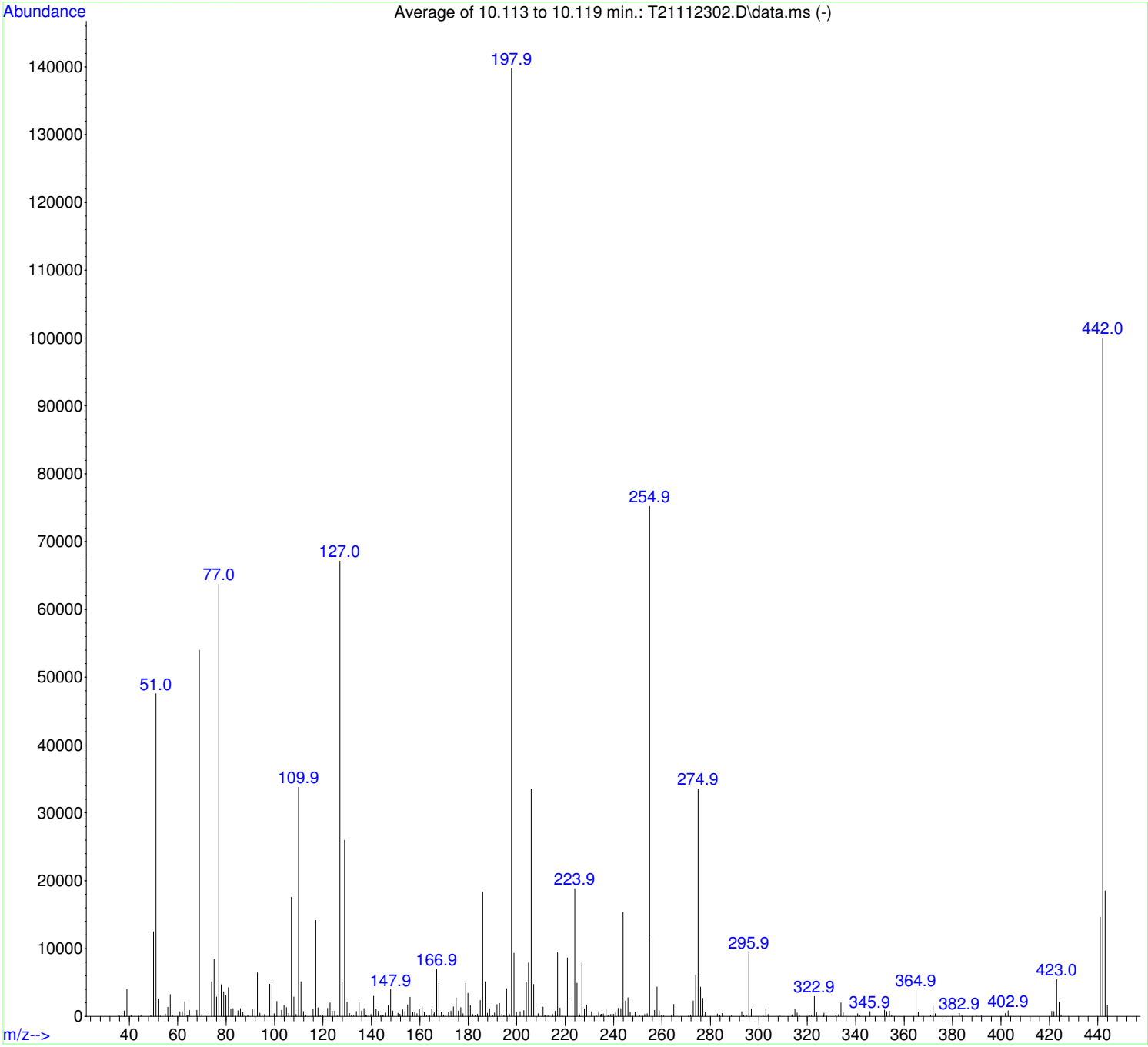
Data Path : C:\msdchem\1\data\T211123\
Data File : T21112302.D
Acq On : 23 Nov 2021 9:42 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: C:\Database\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Events: RTE Integrator - rteint.p

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.316	55.49	C:\Database\NIST14.L			
			Methylene chloride	1542	000075-09-2	95
			Methylene chloride	1541	000075-09-2	94
			Methylene chloride	1545	000075-09-2	91
2	9.508	9.05	C:\Database\NIST14.L			
			Phenol, pentachloro-	125064	000087-86-5	99
			Phenol, pentachloro-	125062	000087-86-5	99
			Phenol, pentachloro-	125063	000087-86-5	93
3	10.116	8.85	C:\Database\NIST14.L			
			Bis(pentafluorophenyl)phenyl phosphine	254406	005074-71-5	99
			Bis(pentafluorophenyl)phenyl phosphine	254407	005074-71-5	99
			Piperazine-2,5-dione, 3-hydroxy-6-isopropyl-3-trifluoromethyl-	102721	1000303-30-2	9
4	11.235	12.22	C:\Database\NIST14.L			
			Benzidine	51188	000092-87-5	96
			Benzidine	51192	000092-87-5	96
			Benzidine	51190	000092-87-5	95
5	12.148	14.39	C:\Database\NIST14.L			
			o,p'-DDT	206676	000789-02-6	95
			1,1-Dichloro-2,2-bis(p-chlorophenyl)ethane	176320	000072-54-8	95
			p,p'-DDT	206682	000050-29-3	94

C:\msdchem\1\data\T211123\T21112302.D Wed Jan 05 11:53:24 2022



Peak Apex is scan: 3248
Average of 3 scans: 3247,3248,3249 minus background scan 3238

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	Relative Abundance,%	Result Pass/Fail
51	198	30	60	34.1	PASS
68	69	0	2	1.7	PASS
69	198	0	100	38.7	PASS
70	69	0	2	0.5	PASS
127	198	40	60	48.0	PASS
197	198	0	1	0.2	PASS
198	198	100	100	100.0	PASS
199	198	5	9	6.7	PASS
275	198	10	30	24.0	PASS
365	198	1	100	2.8	PASS
441	443	0	100	79.1	PASS
442	198	40	100	71.6	PASS
443	442	17	23	18.5	PASS

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112302.D
Acq On : 23 Nov 2021 9:42 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\DFTPP.M
Title :
Last Update : Mon Oct 15 09:26:34 1990

AutoFind: Scans 3247, 3248, 3249; Background Corrected with Scan 3238

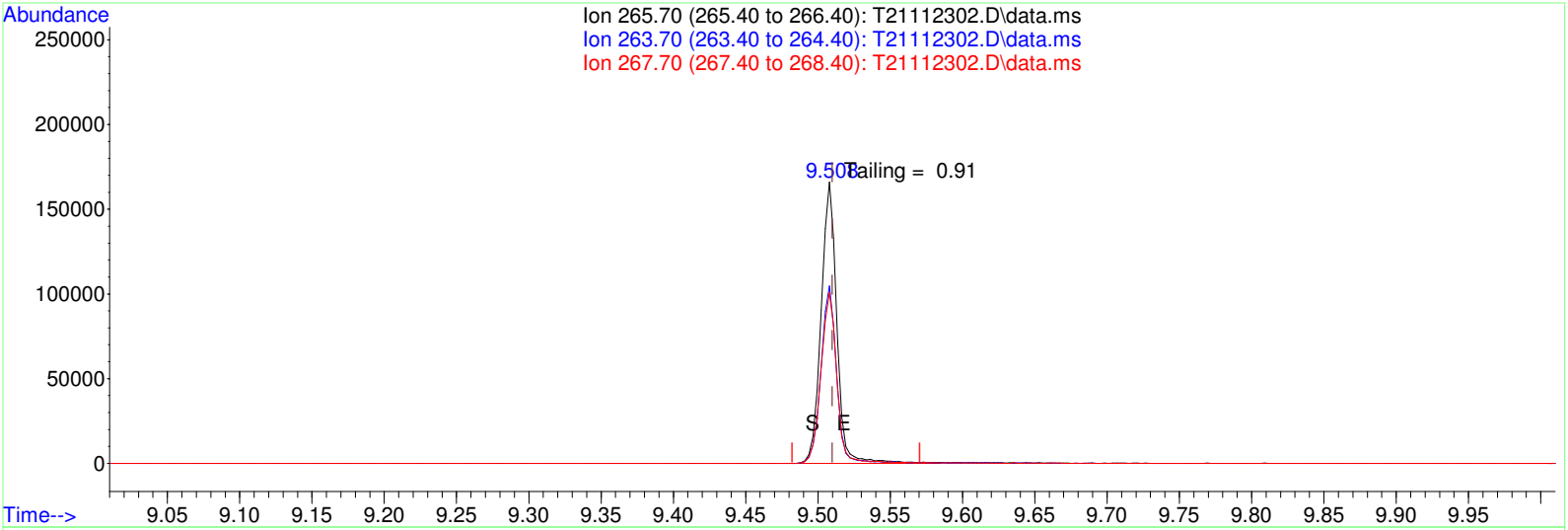
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.1	47600	PASS
68	69	0.00	2	1.7	925	PASS
69	198	0.00	100	38.7	54024	PASS
70	69	0.00	2	0.5	281	PASS
127	198	40	60	48.0	67128	PASS
197	198	0.00	1	0.2	284	PASS
198	198	100	100	100.0	139749	PASS
199	198	5	9	6.7	9347	PASS
275	198	10	30	24.0	33584	PASS
365	198	1	100	2.8	3889	PASS
441	443	0.01	100	79.1	14638	PASS
442	198	40	100	71.6	100040	PASS
443	442	17	23	18.5	18512	PASS

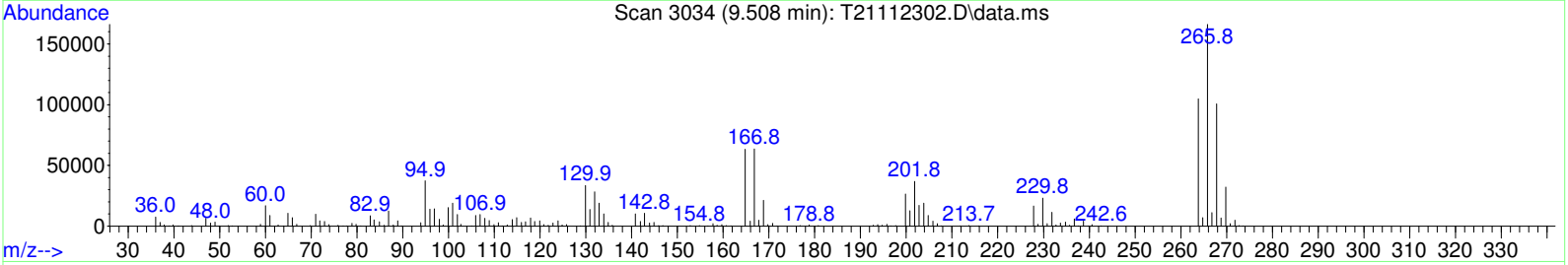
DFTPP.M Wed Jan 05 11:53:43 2022

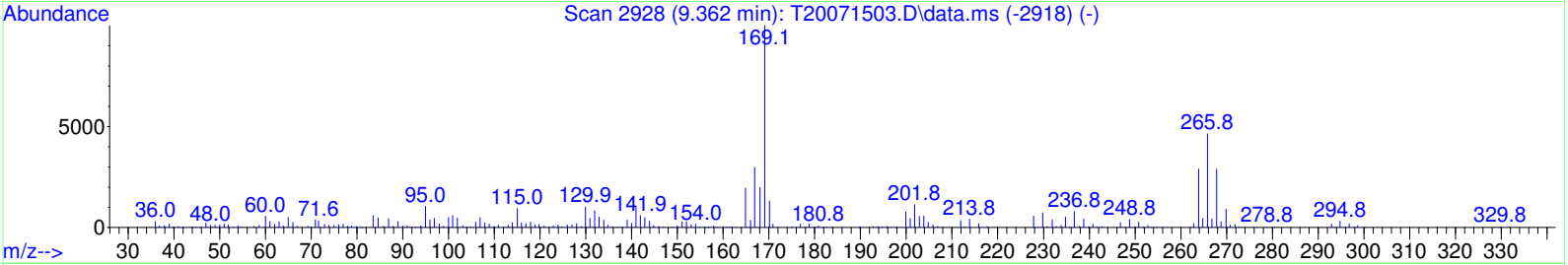
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112302.D
Acq On : 23 Nov 2021 9:42 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 05 11:17:18 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration







TIC: T21112302.D\data.ms

(84) Pentachlorophenol (P)

9.508min (-0.002) 0.00 ng

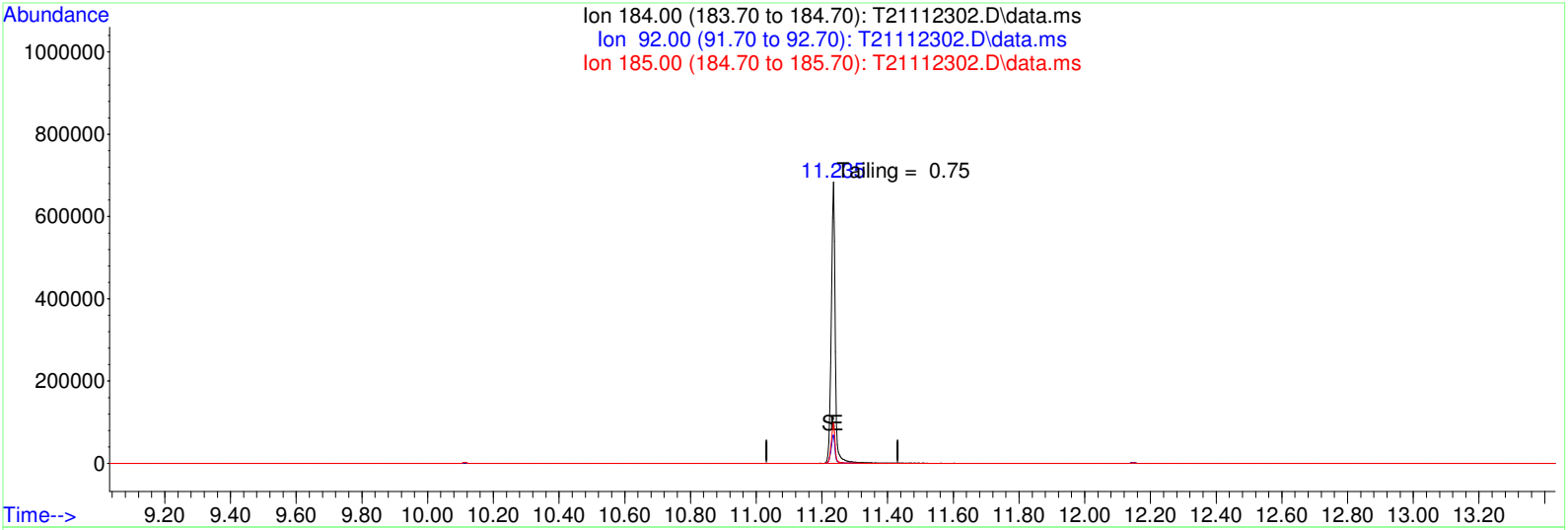
response 125468

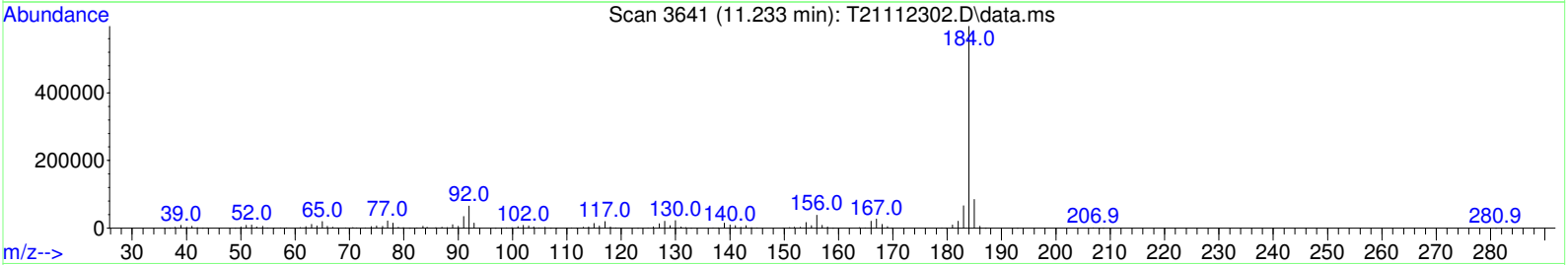
Ion	Exp%	Act%
265.70	100.00	100.00
263.70	64.80	62.79
267.70	64.40	60.83
0.00	0.00	0.00

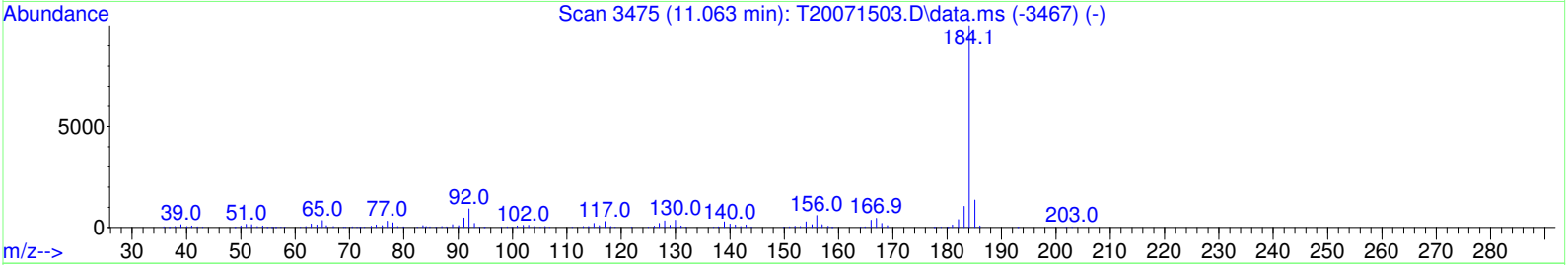
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112302.D
Acq On : 23 Nov 2021 9:42 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 05 11:17:18 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration







TIC: T21112302.D\data.ms

(95) Benzidine (T)

11.232min (-11.232) 0.00 ng

response 0

Ion	Exp%	Act%
184.00	100.00	0.00
92.00	8.90	0.00
185.00	14.30	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112304.D
Acq On : 23 Nov 2021 4:00 pm
Operator : YH
Sample : BNA80 982-99/
Misc : ICV 8270_TCL4.2_S
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 05 10:42:28 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
2		Pyridine	1.590	1.520	4.4	88	-0.03
3	T	2-Picoline	1.540	1.484	3.6	90	-0.04
4	T	Methyl methanesulfonate	0.593	0.653	-10.1	102	-0.01
5	S	2-Fluorophenol	1.267	1.306	-3.1	94	0.00
6	T	Ethyl methanesulfonate	1.127	1.093	3.0	90	-0.01
7	P	Benzaldehyde	0.690	0.462	33.0#	61	0.00
8	T	Aniline	0.620	0.665	-7.3	97	0.00
9	S	Phenol-d5	1.486	1.525	-2.6	96	0.00
10	P	Phenol	1.592	1.563	1.8	93	0.00
11	P	Bis(2-chloroethyl)ether	1.271	1.277	-0.5	96	0.00
12	P	2-Chlorophenol	1.303	1.297	0.5	95	0.00
13	T	1,3-Dichlorobenzene	1.538	1.538	0.0	95	0.00
14	CCC	1,4-Dichlorobenzene	1.481	1.502	-1.4	96	0.00
15	T	1,2-Dichlorobenzene	1.470	1.483	-0.9	95	0.00
16	T	Benzyl alcohol	0.820	0.834	-1.7	93	0.00
17	T	Bis(2-chloroisopropyl)ether	1.632	1.427	12.6	83	0.00
18	P	2-Methylphenol	0.983	1.065	-8.3	100	0.00
19	P	3,4-Methylphenol	1.265	1.256	0.7	95	0.00
20	P	N-Nitrosodi-n-propylamine	0.832	0.844	-1.4	93	0.00
21	T	N-Nitrosodimethylamine	0.890	0.925	-3.9	96	-0.01
22	P	Hexachloroethane	0.511	0.532	-4.1	99	0.00
23	I	Naphthalene-d8	1.000	1.000	0.0	95	0.00
24	S	Nitrobenzene-d5	0.317	0.332	-4.7	97	0.00
25	P	Acetophenone	0.443	0.237	46.5#	52	0.00
26	P	Nitrobenzene	0.163	0.169#	-3.7	97	0.00
27	T	N-Nitrosopiperidine	0.168	0.178	-6.0	96	0.00
28	P	Isophorone	0.640	0.672	-5.0	95	-0.01
29	P	2-Nitrophenol	0.173	0.180	-4.0	96	0.00
30	P	2,4-Dimethylphenol	0.302	0.295	2.3	91	0.00
31	P	Bis(2-chloroethoxy)methane	0.398	0.412	-3.5	97	0.00
32	P	2,4-Dichlorophenol	0.268	0.262	2.2	91	0.00
33	T	1,2,4-Trichlorobenzene	0.325	0.328	-0.9	95	0.00
34	P	Naphthalene	0.990	0.999	-0.9	97	0.00
35	T	Benzoic acid	0.058	0.062	-6.9	104	0.00
36	T	2,6-Dichlorophenol	0.268	0.262	2.2	91	0.00
37	P	4-Chloroaniline	0.368	0.372	-1.1	95	0.00
38	P	Hexachlorobutadiene	0.172	0.173	-0.6	94	0.00
39	T	a,a-Dimethylphenethylamine	0.781	0.628	19.6	71	0.00
40	P	Caprolactam	0.111	0.136	-22.5	101	-0.02
41	P	4-Chloro-3-methylphenol	0.276	0.289	-4.7	96	0.00
42	T	N-Nitroso-di-n-butylamine	0.214	0.231	-7.9	96	0.00
43	P	2-Methylnaphthalene	0.581	0.566	2.6	93	0.00
44	T	1-Methylnaphthalene	0.571	0.564	1.2	95	0.00
45	I	Acenaphthene-d10	1.000	1.000	0.0	92	0.00
46	T	1,2,4,5-Tetrachlorobenzene	0.526	0.537	-2.1	95	0.00
47	P	Hexachlorocyclopentadiene	0.268	0.253	5.6	80	0.00
48	P	2,4,6-Trichlorophenol	0.337	0.357	-5.9	94	0.00
49	P	2,4,5-Trichlorophenol	0.353	0.373	-5.7	94	0.00
50	S	2-Fluorobiphenyl	1.221	1.233	-1.0	96	0.00
51		Biphenyl	1.336	1.433	-7.3	104	0.00
52	P	2-Chloronaphthalene	1.052	1.152	-9.5	103	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112304.D
Acq On : 23 Nov 2021 4:00 pm
Operator : YH
Sample : BNA80 982-99/
Misc : ICV 8270_TCL4.2_S
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 05 10:42:28 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
53	T	1-Chloronaphthalene	0.934	0.822	12.0	86	0.00
54	P	2-Nitroaniline	0.287	0.325	-13.2	97	0.00
55	P	3-Nitroaniline	0.286	0.319	-11.5	94	0.00
56	T	Pentachlorobenzene	0.476	0.505	-6.1	97	0.00
57	P	4-Nitroaniline	0.287	0.335	-16.7	98	0.00
58	T	2-Naphthylamine	0.976	0.827	15.3	77	0.00
59	T	1-Naphthylamine	0.724	0.591	18.4	71	0.00
60	P	Dimethyl phthalate	1.215	1.300	-7.0	97	0.00
61	P	Acenaphthylene	1.608	1.651	-2.7	95	0.00
62	P	2,6-Dinitrotoluene	0.246	0.283	-15.0	97	0.00
63	P	Acenaphthene	0.992	1.030	-3.8	97	0.00
64	P	2,4-Dinitrophenol	0.088	0.104	-18.2	92	0.00
65	P	Dibenzofuran	1.524	1.556	-2.1	96	0.00
66	P	4-Nitrophenol	0.133	0.145	-9.0	93	0.00
67	P	2,4-Dinitrotoluene	0.325	0.363	-11.7	94	0.00
68	T	2,3,4,6-Tetrachlorophenol	0.278	0.310	-11.5	99	0.00
69	P	Diethyl phthalate	1.163	1.269	-9.1	98	0.00
70	P	Fluorene	1.250	1.261	-0.9	95	0.00
71	P	4-Chlorophenyl phenyl ether	0.588	0.598	-1.7	95	0.00
72	S	2,4,6-Tribromophenol	0.153	0.170	-11.1	95	0.00
73	I	Phenanthrene-d10	1.000	1.000	0.0	93	0.00
74	P	4,6-Dinitro-2-methylphenol	0.094	0.105	-11.7	84	0.00
75	T	Azobenzene	0.598	0.695	-16.2	110	0.00
76	T	1,2-Diphenylhydrazine	0.164	0.195	-18.9	109	0.00
77	CCC	Diphenylamine	0.114	0.144	-26.3#	116	0.00
78	P	N-Nitrosodiphenylamine	0.545	0.667	-22.4	115	0.00
79	P	4-Bromophenyl phenyl ether	0.212	0.221	-4.2	93	0.00
80	T	Phenacetin	0.299	0.362	-21.1	99	0.00
81	P	Hexachlorobenzene	0.222	0.223	-0.5	93	0.00
82	P	Atrazine	0.168	0.236	-40.5#	123	0.00
83	T	4-Aminobiphenyl	0.544	0.408	25.0#	62	0.00
84	P	Pentachlorophenol	0.133	0.200	-50.4#	127	0.00
85	T	Pentachloronitrobenzene	0.078	0.089	-14.1	99	0.00
86	T	Pronamide	0.217	0.326	-50.2#	126	0.00
87	P	Phenanthrene	1.032	1.046	-1.4	94	0.00
88	P	Anthracene	1.027	0.946	7.9	84	0.00
89	P	Carbazole	0.933	1.155	-23.8	110	0.00
90	P	Di-n-butyl phthalate	1.129	1.241	-9.9	93	0.00
91	P	Fluoranthene	1.213	1.291	-6.4	94	0.00
92	I	Chrysene-d12	1.000	1.000	0.0	91	0.00
93	P	Pyrene	1.328	1.454	-9.5	98	0.00
94	S	4-Terphenyl-d14	0.973	1.055	-8.4	96	0.00
95	T	Benzidine	0.409	0.345	15.6	68	0.00
96	T	p-Dimethylaminoazobenzene	0.245	0.285	-16.3	93	0.00
97	P	Butyl benzyl phthalate	0.528	0.618	-17.0	95	0.00
98	P	Benz(a)anthracene	1.251	1.395	-11.5	96	0.00
99	P	3,3'-Dichlorobenzidine	0.375	0.421	-12.3	93	0.00
100	P	Chrysene	1.181	1.235	-4.6	94	0.00
101	P	Bis(2-ethylhexyl)phthalate	0.658	0.819	-24.5	97	0.00
102	P	Di-n-octyl phthalate	1.152	1.377	-19.5	94	0.00
103	T	3-Methylcholanthrene	0.415	0.587	-41.4#	119	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112304.D
Acq On : 23 Nov 2021 4:00 pm
Operator : YH
Sample : BNA80 982-99/
Misc : ICV 8270_TCL4.2_S
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 05 10:42:28 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
104	I	Perylene-d12	1.000	1.000	0.0	95	0.00
105	P	Benzo[b]fluoranthene	1.244	1.298	-4.3	96	0.00
106	P	Benzo[k]fluoranthene	1.023	1.045	-2.2	98	0.00
107	P	Benzo[a]pyrene	1.024	1.042	-1.8	93	0.00
108	T	Dibenz(a,j)acridine	0.888	0.846	4.7	87	0.00
109		Indeno[1,2,3-cd]pyrene	1.172	1.294	-10.4	96	0.00
110	P	Dibenz(a,h)anthracene	1.023	1.042	-1.9	94	0.00
111	P	Benzo[g,h,i]perylene	1.055	1.086	-2.9	97	0.00

(#) = Out of Range SPCC's out = 1 CCC's out = 1

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112304.D
Acq On : 23 Nov 2021 4:00 pm
Operator : YH
Sample : BNA80
Misc : ICV 8270_TCL4.2_S
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 05 10:42:28 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
2		Pyridine	1.590	1.520	4.4	88	-0.03
3	T	2-Picoline	1.540	1.484	3.6	90	-0.04
4	T	Methyl methanesulfonate	0.593	0.653	-10.1	102	-0.01
5	S	2-Fluorophenol	1.267	1.306	-3.1	94	0.00
6	T	Ethyl methanesulfonate	1.127	1.093	3.0	90	-0.01
7	P	Benzaldehyde	0.690	0.462	33.0#	61	0.00
8	T	Aniline	0.620	0.665	-7.3	97	0.00
9	S	Phenol-d5	1.486	1.525	-2.6	96	0.00
10	P	Phenol	1.592	1.563	1.8	93	0.00
11	P	Bis(2-chloroethyl)ether	1.271	1.277	-0.5	96	0.00
12	P	2-Chlorophenol	1.303	1.297	0.5	95	0.00
13	T	1,3-Dichlorobenzene	1.538	1.538	0.0	95	0.00
14	CCC	1,4-Dichlorobenzene	1.481	1.502	-1.4	96	0.00
15	T	1,2-Dichlorobenzene	1.470	1.483	-0.9	95	0.00
16	T	Benzyl alcohol	0.820	0.834	-1.7	93	0.00
17	T	Bis(2-chloroisopropyl)ether	1.632	1.427	12.6	83	0.00
18	P	2-Methylphenol	0.983	1.065	-8.3	100	0.00
19	P	3,4-Methylphenol	1.265	1.256	0.7	95	0.00
20	P	N-Nitrosodi-n-propylamine	0.832	0.844	-1.4	93	0.00
21	T	N-Nitrosodimethylamine	0.890	0.925	-3.9	96	-0.01
22	P	Hexachloroethane	0.511	0.532	-4.1	99	0.00
23	I	Naphthalene-d8	1.000	1.000	0.0	95	0.00
24	S	Nitrobenzene-d5	0.317	0.332	-4.7	97	0.00
25	P	Acetophenone	0.443	0.237	46.5#	52	0.00
26	P	Nitrobenzene	0.163	0.169#	-3.7	97	0.00
27	T	N-Nitrosopiperidine	0.168	0.178	-6.0	96	0.00
28	P	Isophorone	0.640	0.672	-5.0	95	-0.01
29	P	2-Nitrophenol	0.173	0.180	-4.0	96	0.00
30	P	2,4-Dimethylphenol	0.302	0.295	2.3	91	0.00
31	P	Bis(2-chloroethoxy)methane	0.398	0.412	-3.5	97	0.00
32	P	2,4-Dichlorophenol	0.268	0.262	2.2	91	0.00
33	T	1,2,4-Trichlorobenzene	0.325	0.328	-0.9	95	0.00
34	P	Naphthalene	0.990	0.999	-0.9	97	0.00
35	T	Benzoic acid	0.058	0.062	-6.9	104	0.00
36	T	2,6-Dichlorophenol	0.268	0.262	2.2	91	0.00
37	P	4-Chloroaniline	0.368	0.372	-1.1	95	0.00
38	P	Hexachlorobutadiene	0.172	0.173	-0.6	94	0.00
39	T	a,a-Dimethylphenethylamine	0.781	0.628	19.6	71	0.00
40	P	Caprolactam	0.111	0.136	-22.5	101	-0.02
41	P	4-Chloro-3-methylphenol	0.276	0.289	-4.7	96	0.00
42	T	N-Nitroso-di-n-butylamine	0.214	0.231	-7.9	96	0.00
43	P	2-Methylnaphthalene	0.581	0.566	2.6	93	0.00
44	T	1-Methylnaphthalene	0.571	0.564	1.2	95	0.00
45	I	Acenaphthene-d10	1.000	1.000	0.0	92	0.00
46	T	1,2,4,5-Tetrachlorobenzene	0.526	0.537	-2.1	95	0.00
47	P	Hexachlorocyclopentadiene	0.268	0.253	5.6	80	0.00
48	P	2,4,6-Trichlorophenol	0.337	0.357	-5.9	94	0.00
49	P	2,4,5-Trichlorophenol	0.353	0.373	-5.7	94	0.00
50	S	2-Fluorobiphenyl	1.221	1.233	-1.0	96	0.00
51		Biphenyl	1.336	1.433	-7.3	104	0.00
52	P	2-Chloronaphthalene	1.052	1.152	-9.5	103	0.00

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112304.D
Acq On : 23 Nov 2021 4:00 pm
Operator : YH
Sample : BNA80
Misc : ICV 8270_TCL4.2_S
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 05 10:42:28 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
53	T	1-Chloronaphthalene	0.934	0.822	12.0	86	0.00
54	P	2-Nitroaniline	0.287	0.325	-13.2	97	0.00
55	P	3-Nitroaniline	0.286	0.319	-11.5	94	0.00
56	T	Pentachlorobenzene	0.476	0.505	-6.1	97	0.00
57	P	4-Nitroaniline	0.287	0.335	-16.7	98	0.00
58	T	2-Naphthylamine	0.976	0.827	15.3	77	0.00
59	T	1-Naphthylamine	0.724	0.591	18.4	71	0.00
60	P	Dimethyl phthalate	1.215	1.300	-7.0	97	0.00
61	P	Acenaphthylene	1.608	1.651	-2.7	95	0.00
62	P	2,6-Dinitrotoluene	0.246	0.283	-15.0	97	0.00
63	P	Acenaphthene	0.992	1.030	-3.8	97	0.00
64	P	2,4-Dinitrophenol	0.088	0.104	-18.2	92	0.00
65	P	Dibenzofuran	1.524	1.556	-2.1	96	0.00
66	P	4-Nitrophenol	0.133	0.145	-9.0	93	0.00
67	P	2,4-Dinitrotoluene	0.325	0.363	-11.7	94	0.00
68	T	2,3,4,6-Tetrachlorophenol	0.278	0.310	-11.5	99	0.00
69	P	Diethyl phthalate	1.163	1.269	-9.1	98	0.00
70	P	Fluorene	1.250	1.261	-0.9	95	0.00
71	P	4-Chlorophenyl phenyl ether	0.588	0.598	-1.7	95	0.00
72	S	2,4,6-Tribromophenol	0.153	0.170	-11.1	95	0.00
73	I	Phenanthrene-d10	1.000	1.000	0.0	93	0.00
74	P	4,6-Dinitro-2-methylphenol	0.094	0.105	-11.7	84	0.00
75	T	Azobenzene	0.598	0.695	-16.2	110	0.00
76	T	1,2-Diphenylhydrazine	0.164	0.195	-18.9	109	0.00
77	CCC	Diphenylamine	0.114	0.144	-26.3#	116	0.00
78	P	N-Nitrosodiphenylamine	0.545	0.667	-22.4	115	0.00
79	P	4-Bromophenyl phenyl ether	0.212	0.221	-4.2	93	0.00
80	T	Phenacetin	0.299	0.362	-21.1	99	0.00
81	P	Hexachlorobenzene	0.222	0.223	-0.5	93	0.00
82	P	Atrazine	0.168	0.236	-40.5#	123	0.00
83	T	4-Aminobiphenyl	0.544	0.408	25.0#	62	0.00
84	P	Pentachlorophenol	0.133	0.200	-50.4#	127	0.00
85	T	Pentachloronitrobenzene	0.078	0.089	-14.1	99	0.00
86	T	Pronamide	0.217	0.326	-50.2#	126	0.00
87	P	Phenanthrene	1.032	1.046	-1.4	94	0.00
88	P	Anthracene	1.027	0.946	7.9	84	0.00
89	P	Carbazole	0.933	1.155	-23.8	110	0.00
90	P	Di-n-butyl phthalate	1.129	1.241	-9.9	93	0.00
91	P	Fluoranthene	1.213	1.291	-6.4	94	0.00
92	I	Chrysene-d12	1.000	1.000	0.0	91	0.00
93	P	Pyrene	1.328	1.454	-9.5	98	0.00
94	S	4-Terphenyl-d14	0.973	1.055	-8.4	96	0.00
95	T	Benzidine	0.409	0.345	15.6	68	0.00
96	T	p-Dimethylaminoazobenzene	0.245	0.285	-16.3	93	0.00
97	P	Butyl benzyl phthalate	0.528	0.618	-17.0	95	0.00
98	P	Benz(a)anthracene	1.251	1.395	-11.5	96	0.00
99	P	3,3'-Dichlorobenzidine	0.375	0.421	-12.3	93	0.00
100	P	Chrysene	1.181	1.235	-4.6	94	0.00
101	P	Bis(2-ethylhexyl)phthalate	0.658	0.819	-24.5	97	0.00
102	P	Di-n-octyl phthalate	1.152	1.377	-19.5	94	0.00
103	T	3-Methylcholanthrene	0.415	0.587	-41.4#	119	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112304.D
Acq On : 23 Nov 2021 4:00 pm
Operator : YH
Sample : BNA80
Misc : ICV 8270_TCL4.2_S
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 05 10:42:28 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
104	I	Perylene-d12	1.000	1.000	0.0	95	0.00
105	P	Benzo[b]fluoranthene	1.244	1.298	-4.3	96	0.00
106	P	Benzo[k]fluoranthene	1.023	1.045	-2.2	98	0.00
107	P	Benzo[a]pyrene	1.024	1.042	-1.8	93	0.00
108	T	Dibenz(a,j)acridine	0.888	0.846	4.7	87	0.00
109		Indeno[1,2,3-cd]pyrene	1.172	1.294	-10.4	96	0.00
110	P	Dibenz(a,h)anthracene	1.023	1.042	-1.9	94	0.00
111	P	Benzo[g,h,i]perylene	1.055	1.086	-2.9	97	0.00

(#) = Out of Range SPCC's out = 1 CCC's out = 1

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112305.D
Acq On : 23 Nov 2021 4:27 pm
Operator : YH
Sample : BNA40 982-99/
Misc : ICV 8270_TCL4.2_S
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 05 10:49:09 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
2		Pyridine	1.590	1.471	7.5	96	-0.03
3	T	2-Picoline	1.540	1.013	34.2#	70	-0.03
4	T	Methyl methanesulfonate	0.593	0.409	31.0#	74	0.00
5	S	2-Fluorophenol	1.267	1.258	0.7	105	0.00
6	T	Ethyl methanesulfonate	1.127	1.049	6.9	100	-0.02
7	P	Benzaldehyde	0.690	0.654	5.2	102	0.00
8	T	Aniline	0.620	0.672	-8.4	121	0.00
9	S	Phenol-d5	1.486	1.523	-2.5	106	-0.01
10	P	Phenol	1.592	1.586	0.4	101	-0.01
11	P	Bis(2-chloroethyl)ether	1.271	1.288	-1.3	104	0.00
12	P	2-Chlorophenol	1.303	1.306	-0.2	105	0.00
13	T	1,3-Dichlorobenzene	1.538	1.536	0.1	104	0.00
14	CCC	1,4-Dichlorobenzene	1.481	1.502	-1.4	105	0.00
15	T	1,2-Dichlorobenzene	1.470	1.476	-0.4	105	0.00
16	T	Benzyl alcohol	0.820	0.814	0.7	104	-0.01
17	T	Bis(2-chloroisopropyl)ether	1.632	1.405	13.9	89	0.00
18	P	2-Methylphenol	0.983	1.074	-9.3	114	-0.01
19	P	3,4-Methylphenol	1.265	1.375	-8.7	113	-0.01
20	P	N-Nitrosodi-n-propylamine	0.832	0.849	-2.0	105	-0.02
21	T	N-Nitrosodimethylamine	0.890	0.877	1.5	105	0.00
22	P	Hexachloroethane	0.511	0.531	-3.9	108	0.00
23	I	Naphthalene-d8	1.000	1.000	0.0	107	0.00
24	S	Nitrobenzene-d5	0.317	0.323	-1.9	108	0.00
25	P	Acetophenone	0.443	0.230	48.1#	55	-0.01
26	P	Nitrobenzene	0.163	0.167#	-2.5	110	0.00
27	T	N-Nitrosopiperidine	0.168	0.173	-3.0	111	-0.01
28	P	Isophorone	0.640	0.644	-0.6	106	-0.02
29	P	2-Nitrophenol	0.173	0.171	1.2	109	0.00
30	P	2,4-Dimethylphenol	0.302	0.294	2.6	104	0.00
31	P	Bis(2-chloroethoxy)methane	0.398	0.412	-3.5	109	0.00
32	P	2,4-Dichlorophenol	0.268	0.268	0.0	105	0.00
33	T	1,2,4-Trichlorobenzene	0.325	0.331	-1.8	108	0.00
34	P	Naphthalene	0.990	1.014	-2.4	107	0.00
35	T	Benzoic acid	0.058	0.019	67.2#	69	-0.04
36	T	2,6-Dichlorophenol	0.268	0.268	0.0	105	0.00
37	P	4-Chloroaniline	0.368	0.400	-8.7	118	0.00
38	P	Hexachlorobutadiene	0.172	0.172	0.0	107	0.00
39	T	a,a-Dimethylphenethylamine	0.781	0.757	3.1	106	-0.05
40	P	Caprolactam	0.111	0.129	-16.2	122	-0.05
41	P	4-Chloro-3-methylphenol	0.276	0.283	-2.5	109	0.00
42	T	N-Nitroso-di-n-butylamine	0.214	0.222	-3.7	112	-0.01
43	P	2-Methylnaphthalene	0.581	0.586	-0.9	104	0.00
44	T	1-Methylnaphthalene	0.571	0.588	-3.0	107	0.00
45	I	Acenaphthene-d10	1.000	1.000	0.0	106	0.00
46	T	1,2,4,5-Tetrachlorobenzene	0.526	0.555	-5.5	109	0.00
47	P	Hexachlorocyclopentadiene	0.268	0.232	13.4	90	0.00
48	P	2,4,6-Trichlorophenol	0.337	0.335	0.6	108	0.00
49	P	2,4,5-Trichlorophenol	0.353	0.357	-1.1	108	0.00
50	S	2-Fluorobiphenyl	1.221	1.269	-3.9	107	0.00
51		Biphenyl	1.336	1.578	-18.1	117	0.00
52	P	2-Chloronaphthalene	1.052	1.196	-13.7	118	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112305.D
Acq On : 23 Nov 2021 4:27 pm
Operator : YH
Sample : BNA40 982-99/
Misc : ICV 8270_TCL4.2_S
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 05 10:49:09 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
53	T	1-Chloronaphthalene	0.934	0.883	5.5	96	0.00
54	P	2-Nitroaniline	0.287	0.309	-7.7	116	0.00
55	P	3-Nitroaniline	0.286	0.305	-6.6	117	0.00
56	T	Pentachlorobenzene	0.476	0.506	-6.3	111	0.00
57	P	4-Nitroaniline	0.287	0.319	-11.1	121	-0.01
58	T	2-Naphthylamine	0.976	0.902	7.6	98	0.00
59	T	1-Naphthylamine	0.724	0.720	0.6	117	0.00
60	P	Dimethyl phthalate	1.215	1.283	-5.6	112	0.00
61	P	Acenaphthylene	1.608	1.700	-5.7	108	0.00
62	P	2,6-Dinitrotoluene	0.246	0.265	-7.7	114	0.00
63	P	Acenaphthene	0.992	1.056	-6.5	110	0.00
64	P	2,4-Dinitrophenol	0.088	0.075	14.8	154#	0.00
65	P	Dibenzofuran	1.524	1.617	-6.1	109	0.00
66	P	4-Nitrophenol	0.133	0.135	-1.5	110	-0.01
67	P	2,4-Dinitrotoluene	0.325	0.340	-4.6	111	0.00
68	T	2,3,4,6-Tetrachlorophenol	0.278	0.284	-2.2	110	0.00
69	P	Diethyl phthalate	1.163	1.250	-7.5	112	0.00
70	P	Fluorene	1.250	1.311	-4.9	107	0.00
71	P	4-Chlorophenyl phenyl ether	0.588	0.615	-4.6	110	0.00
72	S	2,4,6-Tribromophenol	0.153	0.158	-3.3	112	0.00
73	I	Phenanthrene-d10	1.000	1.000	0.0	108	0.00
74	P	4,6-Dinitro-2-methylphenol	0.094	0.095	-1.1	126	-0.01
75	T	Azobenzene	0.598	0.716	-19.7	127	0.00
76	T	1,2-Diphenylhydrazine	0.164	0.195	-18.9	125	0.00
77	CCC	Diphenylamine	0.114	0.148	-29.8#	136	0.00
78	P	N-Nitrosodiphenylamine	0.545	0.696	-27.7#	134	0.00
79	P	4-Bromophenyl phenyl ether	0.212	0.209	1.4	106	0.00
80	T	Phenacetin	0.299	0.308	-3.0	109	-0.01
81	P	Hexachlorobenzene	0.222	0.221	0.5	106	0.00
82	P	Atrazine	0.168	0.230	-36.9#	145	-0.01
83	T	4-Aminobiphenyl	0.544	0.502	7.7	125	0.00
84	P	Pentachlorophenol	0.133	0.146	-9.8	116	0.00
85	T	Pentachloronitrobenzene	0.078	0.083	-6.4	115	0.00
86	T	Pronamide	0.217	0.299	-37.8#	148	0.00
87	P	Phenanthrene	1.032	1.059	-2.6	109	0.00
88	P	Anthracene	1.027	0.936	8.9	95	0.00
89	P	Carbazole	0.933	1.123	-20.4	131	0.00
90	P	Di-n-butyl phthalate	1.129	1.172	-3.8	110	0.00
91	P	Fluoranthene	1.213	1.257	-3.6	108	0.00
92	I	Chrysene-d12	1.000	1.000	0.0	103	0.00
93	P	Pyrene	1.328	1.438	-8.3	111	0.00
94	S	4-Terphenyl-d14	0.973	1.000	-2.8	108	0.00
95	T	Benzidine	0.409	0.290	29.1#	81	0.00
96	T	p-Dimethylaminoazobenzene	0.245	0.248	-1.2	112	0.00
97	P	Butyl benzyl phthalate	0.528	0.540	-2.3	112	0.00
98	P	Benz(a)anthracene	1.251	1.291	-3.2	110	0.00
99	P	3,3'-Dichlorobenzidine	0.375	0.386	-2.9	113	0.00
100	P	Chrysene	1.181	1.187	-0.5	106	0.00
101	P	Bis(2-ethylhexyl)phthalate	0.658	0.716	-8.8	113	0.00
102	P	Di-n-octyl phthalate	1.152	1.138	1.2	109	0.00
103	T	3-Methylcholanthrene	0.415	0.520	-25.3#	140	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112305.D
Acq On : 23 Nov 2021 4:27 pm
Operator : YH
Sample : BNA40 982-99/
Misc : ICV 8270_TCL4.2_S
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 05 10:49:09 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
104	I	Perylene-d12	1.000	1.000	0.0	109	0.00
105	P	Benzo[b]fluoranthene	1.244	1.257	-1.0	111	0.00
106	P	Benzo[k]fluoranthene	1.023	1.094	-6.9	106	-0.01
107	P	Benzo[a]pyrene	1.024	1.004	2.0	105	0.00
108	T	Dibenz(a,j)acridine	0.888	0.792	10.8	98	-0.01
109		Indeno[1,2,3-cd]pyrene	1.172	1.243	-6.1	127	-0.01
110	P	Dibenz(a,h)anthracene	1.023	1.004	1.9	105	0.00
111	P	Benzo[g,h,i]perylene	1.055	1.038	1.6	107	-0.01

(#) = Out of Range SPCC's out = 1 CCC's out = 1

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112305.D
Acq On : 23 Nov 2021 4:27 pm
Operator : YH
Sample : BNA40 982-99/
Misc : ICV 8270_TCL4.2_S
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 05 10:49:09 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	105	0.00
2		Pyridine	40.000	37.011	7.5	96	-0.03
3	T	2-Picoline	40.000	26.319	34.2#	70	-0.03
4	T	Methyl methanesulfonate	40.000	27.591	31.0#	74	0.00
5	S	2-Fluorophenol	40.000	39.727	0.7	105	0.00
6	T	Ethyl methanesulfonate	40.000	37.221	6.9	100	-0.02
7	P	Benzaldehyde	40.000	37.952	5.1	102	0.00
8	T	Aniline	40.000	43.355	-8.4	121	0.00
9	S	Phenol-d5	40.000	40.982	-2.5	106	-0.01
10	P	Phenol	40.000	39.862	0.3	101	-0.01
11	P	Bis(2-chloroethyl)ether	40.000	40.551	-1.4	104	0.00
12	P	2-Chlorophenol	40.000	40.094	-0.2	105	0.00
13	T	1,3-Dichlorobenzene	40.000	39.943	0.1	104	0.00
14	CCC	1,4-Dichlorobenzene	40.000	40.568	-1.4	105	0.00
15	T	1,2-Dichlorobenzene	40.000	40.169	-0.4	105	0.00
16	T	Benzyl alcohol	40.000	39.691	0.8	104	-0.01
17	T	Bis(2-chloroisopropyl)ether	40.000	34.442	13.9	89	0.00
18	P	2-Methylphenol	40.000	43.724	-9.3	114	-0.01
19	P	3,4-Methylphenol	80.000	86.956	-8.7	113	-0.01
20	P	N-Nitrosodi-n-propylamine	40.000	40.820	-2.1	105	-0.02
21	T	N-Nitrosodimethylamine	40.000	39.418	1.5	105	0.00
22	P	Hexachloroethane	40.000	41.551	-3.9	108	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	107	0.00
24	S	Nitrobenzene-d5	40.000	40.797	-2.0	108	0.00
25	P	Acetophenone	80.000	41.658	47.9#	55	-0.01
26	P	Nitrobenzene	40.000	41.064	-2.7	110	0.00
27	T	N-Nitrosopiperidine	40.000	41.213	-3.0	111	-0.01
28	P	Isophorone	40.000	40.227	-0.6	106	-0.02
29	P	2-Nitrophenol	40.000	39.550	1.1	109	0.00
30	P	2,4-Dimethylphenol	40.000	38.988	2.5	104	0.00
31	P	Bis(2-chloroethoxy)methane	40.000	41.380	-3.5	109	0.00
32	P	2,4-Dichlorophenol	40.000	40.060	-0.2	105	0.00
33	T	1,2,4-Trichlorobenzene	40.000	40.760	-1.9	108	0.00
34	P	Naphthalene	40.000	40.984	-2.5	107	0.00
35	T	Benzoic acid	40.000	42.053	-5.1	69	-0.04
36	T	2,6-Dichlorophenol	40.000	40.060	-0.2	105	0.00
37	P	4-Chloroaniline	40.000	43.500	-8.8	118	0.00
38	P	Hexachlorobutadiene	40.000	40.052	-0.1	107	0.00
39	T	a,a-Dimethylphenethylamine	40.000	38.722	3.2	106	-0.05
40	P	Caprolactam	40.000	46.588	-16.5	122	-0.05
41	P	4-Chloro-3-methylphenol	40.000	40.995	-2.5	109	0.00
42	T	N-Nitroso-di-n-butylamine	40.000	41.533	-3.8	112	-0.01
43	P	2-Methylnaphthalene	40.000	40.324	-0.8	104	0.00
44	T	1-Methylnaphthalene	40.000	41.175	-2.9	107	0.00
45	I	Acenaphthene-d10	40.000	40.000	0.0	106	0.00
46	T	1,2,4,5-Tetrachlorobenzene	40.000	42.214	-5.5	109	0.00
47	P	Hexachlorocyclopentadiene	40.000	34.653	13.4	90	0.00
48	P	2,4,6-Trichlorophenol	40.000	39.818	0.5	108	0.00
49	P	2,4,5-Trichlorophenol	40.000	40.459	-1.1	108	0.00
50	S	2-Fluorobiphenyl	40.000	41.569	-3.9	107	0.00
51		Biphenyl	40.000	47.255	-18.1	117	0.00
52	P	2-Chloronaphthalene	40.000	45.482	-13.7	118	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112305.D
Acq On : 23 Nov 2021 4:27 pm
Operator : YH
Sample : BNA40 982-99/
Misc : ICV 8270_TCL4.2_S
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 05 10:49:09 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
53	T	1-Chloronaphthalene	40.000	37.819	5.5	96	0.00
54	P	2-Nitroaniline	40.000	43.002	-7.5	116	0.00
55	P	3-Nitroaniline	40.000	42.598	-6.5	117	0.00
56	T	Pentachlorobenzene	40.000	42.512	-6.3	111	0.00
57	P	4-Nitroaniline	40.000	44.442	-11.1	121	-0.01
58	T	2-Naphthylamine	40.000	36.973	7.6	98	0.00
59	T	1-Naphthylamine	40.000	39.797	0.5	117	0.00
60	P	Dimethyl phthalate	40.000	42.239	-5.6	112	0.00
61	P	Acenaphthylene	40.000	42.279	-5.7	108	0.00
62	P	2,6-Dinitrotoluene	40.000	43.083	-7.7	114	0.00
63	P	Acenaphthene	40.000	42.598	-6.5	110	0.00
64	P	2,4-Dinitrophenol	40.000	43.865	-9.7	154	0.00
65	P	Dibenzofuran	40.000	42.427	-6.1	109	0.00
66	P	4-Nitrophenol	40.000	40.588	-1.5	110	-0.01
67	P	2,4-Dinitrotoluene	40.000	41.761	-4.4	111	0.00
68	T	2,3,4,6-Tetrachlorophenol	40.000	40.850	-2.1	110	0.00
69	P	Diethyl phthalate	40.000	42.991	-7.5	112	0.00
70	P	Fluorene	40.000	41.966	-4.9	107	0.00
71	P	4-Chlorophenyl phenyl ether	40.000	41.826	-4.6	110	0.00
72	S	2,4,6-Tribromophenol	40.000	40.763	-1.9	112	0.00
73	I	Phenanthrene-d10	40.000	40.000	0.0	108	0.00
74	P	4,6-Dinitro-2-methylphenol	40.000	39.730	0.7	126	-0.01
75	T	Azobenzene	40.000	47.855	-19.6	127	0.00
76	T	1,2-Diphenylhydrazine	40.000	47.624	-19.1	125	0.00
77	CCC	Diphenylamine	40.000	51.761	-29.4#	136	0.00
78	P	N-Nitrosodiphenylamine	40.000	51.070	-27.7#	134	0.00
79	P	4-Bromophenyl phenyl ether	40.000	39.484	1.3	106	0.00
80	T	Phenacetin	40.000	41.252	-3.1	109	-0.01
81	P	Hexachlorobenzene	40.000	39.901	0.2	106	0.00
82	P	Atrazine	40.000	54.675	-36.7#	145	-0.01
83	T	4-Aminobiphenyl	40.000	36.900	7.8	125	0.00
84	P	Pentachlorophenol	40.000	44.030	-10.1	116	0.00
85	T	Pentachloronitrobenzene	40.000	42.674	-6.7	115	0.00
86	T	Pronamide	40.000	55.048	-37.6#	148	0.00
87	P	Phenanthrene	40.000	41.046	-2.6	109	0.00
88	P	Anthracene	40.000	36.430	8.9	95	0.00
89	P	Carbazole	40.000	48.144	-20.4	131	0.00
90	P	Di-n-butyl phthalate	40.000	41.499	-3.7	110	0.00
91	P	Fluoranthene	40.000	41.457	-3.6	108	0.00
92	I	Chrysene-d12	40.000	40.000	0.0	103	0.00
93	P	Pyrene	40.000	43.329	-8.3	111	0.00
94	S	4-Terphenyl-d14	40.000	41.132	-2.8	108	0.00
95	T	Benzidine	40.000	31.813	20.5	81	0.00
96	T	p-Dimethylaminoazobenzene	40.000	40.148	-0.4	112	0.00
97	P	Butyl benzyl phthalate	40.000	40.925	-2.3	112	0.00
98	P	Benz(a)anthracene	40.000	41.304	-3.3	110	0.00
99	P	3,3'-Dichlorobenzidine	40.000	41.191	-3.0	113	0.00
100	P	Chrysene	40.000	40.183	-0.5	106	0.00
101	P	Bis(2-ethylhexyl)phthalate	40.000	40.327	-0.8	113	0.00
102	P	Di-n-octyl phthalate	40.000	39.068	2.3	109	0.00
103	T	3-Methylcholanthrene	40.000	50.032	-25.1#	140	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112305.D
Acq On : 23 Nov 2021 4:27 pm
Operator : YH
Sample : BNA40 982-99/
Misc : ICV 8270_TCL4.2_S
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 05 10:49:09 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
104	I	Perylene-d12	40.000	40.000	0.0	109	0.00
105	P	Benzo[b]fluoranthene	40.000	40.415	-1.0	111	0.00
106	P	Benzo[k]fluoranthene	40.000	42.775	-6.9	106	-0.01
107	P	Benzo[a]pyrene	40.000	39.234	1.9	105	0.00
108	T	Dibenz(a,j)acridine	40.000	35.702	10.7	98	-0.01
109		Indeno[1,2,3-cd]pyrene	40.000	42.450	-6.1	127	-0.01
110	P	Dibenz(a,h)anthracene	40.000	39.239	1.9	105	0.00
111	P	Benzo[g,h,i]perylene	40.000	39.335	1.7	107	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112304.D
Acq On : 23 Nov 2021 4:00 pm
Operator : YH
Sample : BNA80 982-99/
Misc : ICV 8270_TCL4.2_S
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 05 10:42:28 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.385	152	118382	40.00	ng		0.00
23) Naphthalene-d8	5.976	136	453412	40.00	ng		0.00
45) Acenaphthene-d10	8.025	164	264024	40.00	ng		0.00
73) Phenanthrene-d10	9.690	188	465864	40.00	ng		0.00
92) Chrysene-d12	12.628	240	416842	40.00	ng		0.00
104) Perylene-d12	14.088	264	469709	40.00	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	2.873	112	309117	82.46	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 82.46%				
9) Phenol-d5	4.041	99	361178	82.12	ng		0.00
Spiked Amount 100.000	Range 10 - 110		Recovery = 82.12%				
24) Nitrobenzene-d5	5.118	82	300648	83.67	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 167.34%#				
50) 2-Fluorobiphenyl	7.294	172	650846	80.75	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 161.50%#				
72) 2,4,6-Tribromophenol	8.931	330	89564	84.00	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 84.00%				
94) 4-Terphenyl-d14	11.500	244	879133	86.73	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 173.46%#				
Target Compounds							Qvalue
2) Pyridine	1.671	79	359916	76.49	ng		91
3) 2-Picoline	2.370	93	351408	77.12	ng		99
4) Methyl methanesulfonate	2.691	80	154594	88.15	ng		98
6) Ethyl methanesulfonate	3.501	79	258836	77.61	ng		97
7) Benzaldehyde	3.842	105	109488	53.65	ng		97
8) Aniline	3.995	66	157464	85.76	ng		95
10) Phenol	4.061	94	370119	78.56	ng		91
11) Bis(2-chloroethyl)ether	4.098	93	302391	80.41	ng		89
12) 2-Chlorophenol	4.143	128	307075	79.65	ng		99
13) 1,3-Dichlorobenzene	4.308	146	364238	80.03	ng		100
14) 1,4-Dichlorobenzene	4.407	146	355646	81.14	ng		99
15) 1,2-Dichlorobenzene	4.601	146	351211	80.71	ng		99
16) Benzyl alcohol	4.646	108	197459	81.38	ng		99
17) Bis(2-chloroisopropyl)ether	4.805	45	337760	69.93	ng		98
18) 2-Methylphenol	4.825	107	252216	86.71	ng	#	82
19) 3,4-Methylphenol	5.041	107	594852	158.92	ng		88
20) N-Nitrosodi-n-propylamine	4.999	70	199885	81.17	ng		95
21) N-Nitrosodimethylamine	1.572	74	219000	83.12	ng		92
22) Hexachloroethane	5.018	117	125855	83.25	ng		98
25) Acetophenone	4.956	105	429266	85.58	ng		97
26) Nitrobenzene	5.141	123	153129	83.12	ng		94
27) N-Nitrosopiperidine	5.357	114	161275	84.68	ng		94
28) Isophorone	5.501	82	609715	84.06	ng		98
29) 2-Nitrophenol	5.538	139	163583	83.23	ng		97
30) 2,4-Dimethylphenol	5.678	122	267925	78.27	ng		99
31) Bis(2-chloroethoxy)methane	5.769	93	373662	82.74	ng		100
32) 2,4-Dichlorophenol	6.127	162	237787	78.41	ng		94
33) 1,2,4-Trichlorobenzene	5.922	180	297257	80.77	ng		99
34) Naphthalene	6.002	128	906009	80.74	ng		100
35) Benzoic acid	5.905	122	55904	79.76	ng		92
36) 2,6-Dichlorophenol	6.127	162	237787	78.41	ng		99
37) 4-Chloroaniline	6.124	127	337425	80.99	ng		97
38) Hexachlorobutadiene	6.189	225	156657	80.25	ng		99
39) a,a-Dimethylphenethylamine	6.061	58	569523	64.29	ng	#	93
40) Caprolactam	6.726	113	122939	97.63	ng	#	74
41) 4-Chloro-3-methylphenol	6.783	107	262059	83.67	ng		94

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112304.D
Acq On : 23 Nov 2021 4:00 pm
Operator : YH
Sample : BNA80 982-99/
Misc : ICV 8270_TCL4.2_S
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 05 10:42:28 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) N-Nitroso-di-n-butylamine	6.567	84	209648	86.53	ng		87
43) 2-Methylnaphthalene	6.837	141	513183	77.93	ng		98
44) 1-Methylnaphthalene	6.948	141	511766	79.07	ng		96
46) 1,2,4,5-Tetrachlorobenzene	7.036	216	283559	81.63	ng		99
47) Hexachlorocyclopentadiene	7.039	237	133671	75.51	ng		96
48) 2,4,6-Trichlorophenol	7.209	196	188558	84.84	ng		98
49) 2,4,5-Trichlorophenol	7.260	196	196796	84.42	ng	#	93
51) Biphenyl	7.397	154	756431	85.77	ng		99
52) 2-Chloronaphthalene	7.397	162	608452	87.61	ng		99
53) 1-Chloronaphthalene	7.419	162	434127	70.40	ng		99
54) 2-Nitroaniline	7.559	65	171788	90.63	ng		97
55) 3-Nitroaniline	8.039	138	168249	89.02	ng		98
56) Pentachlorobenzene	8.221	250	266854	84.94	ng		98
57) 4-Nitroaniline	8.741	138	177142	93.37	ng		92
58) 2-Naphthylamine	8.366	143	436481	67.79	ng		99
59) 1-Naphthylamine	8.462	143	312154	65.31	ng		87
60) Dimethyl phthalate	7.809	163	686676	85.62	ng		99
61) Acenaphthylene	7.863	152	871661	82.11	ng		100
62) 2,6-Dinitrotoluene	7.846	165	149649	92.06	ng		93
63) Acenaphthene	8.064	154	543719	83.08	ng		98
64) 2,4-Dinitrophenol	8.150	184	54804	82.14	ng		97
65) Dibenzofuran	8.266	168	821740	81.68	ng		98
66) 4-Nitrophenol	8.314	109	76512	87.43	ng		94
67) 2,4-Dinitrotoluene	8.297	165	191669	89.24	ng		92
68) 2,3,4,6-Tetrachlorophenol	8.440	232	163866	89.32	ng		98
69) Diethyl phthalate	8.613	149	670311	87.30	ng		100
70) Fluorene	8.650	166	665743	80.72	ng		98
71) 4-Chlorophenyl phenyl ether	8.678	204	315795	81.35	ng		99
74) 4,6-Dinitro-2-methylphenol	8.755	198	97413	72.30	ng		93
75) Azobenzene	8.857	77	647876	92.99	ng		97
76) 1,2-Diphenylhydrazine	8.857	182	181387	95.07	ng	#	88
77) Diphenylamine	8.829	170	133896	100.85	ng	#	92
78) N-Nitrosodiphenylamine	8.832	168	621427	97.92	ng		97
79) 4-Bromophenyl phenyl ether	9.221	248	206369	83.68	ng		97
80) Phenacetin	9.246	108	337089	96.83	ng		96
81) Hexachlorobenzene	9.266	284	207463	80.41	ng		97
82) Atrazine	9.491	200	219667	112.28	ng		97
83) 4-Aminobiphenyl	9.525	169	380214	59.99	ng	#	94
84) Pentachlorophenol	9.519	266	186249	120.40	ng		95
85) Pentachloronitrobenzene	9.519	237	83216	91.68	ng		98
86) Pronamide	9.641	173	303636	120.00	ng		99
87) Phenanthrene	9.718	178	974784	81.07	ng		99
88) Anthracene	9.775	178	881654	73.68	ng		99
89) Carbazole	9.985	167	1076217	99.01	ng		99
90) Di-n-butyl phthalate	10.437	149	1156570	87.94	ng		99
91) Fluoranthene	11.037	202	1202402	85.09	ng		98
93) Pyrene	11.281	202	1211771	87.57	ng		99
95) Benzidine	11.233	184	287478	60.60	ng		98
96) p-Dimethylaminoazobenzene	11.667	225	237805	80.71	ng		95
97) Butyl benzyl phthalate	12.088	149	514865	93.60	ng		96
98) Benz(a)anthracene	12.616	228	1163237	89.25	ng		99
99) 3,3'-Dichlorobenzidine	12.631	252	350569	89.79	ng		98
100) Chrysene	12.659	228	1029670	83.66	ng		99
101) Bis(2-ethylhexyl)phthalate	12.750	149	682951	85.26	ng		99
102) Di-n-octyl phthalate	13.432	149	1147756	82.79	ng		100
103) 3-Methylcholanthrene	14.364	268	489774	113.13	ng		99
105) Benzo[b]fluoranthene	13.739	252	1219136	83.48	ng		98
106) Benzo[k]fluoranthene	13.767	252	981949	81.77	ng		99

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112304.D
Acq On : 23 Nov 2021 4:00 pm
Operator : YH
Sample : BNA80 982-99/
Misc : ICV 8270_TCL4.2_S
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 05 10:42:28 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

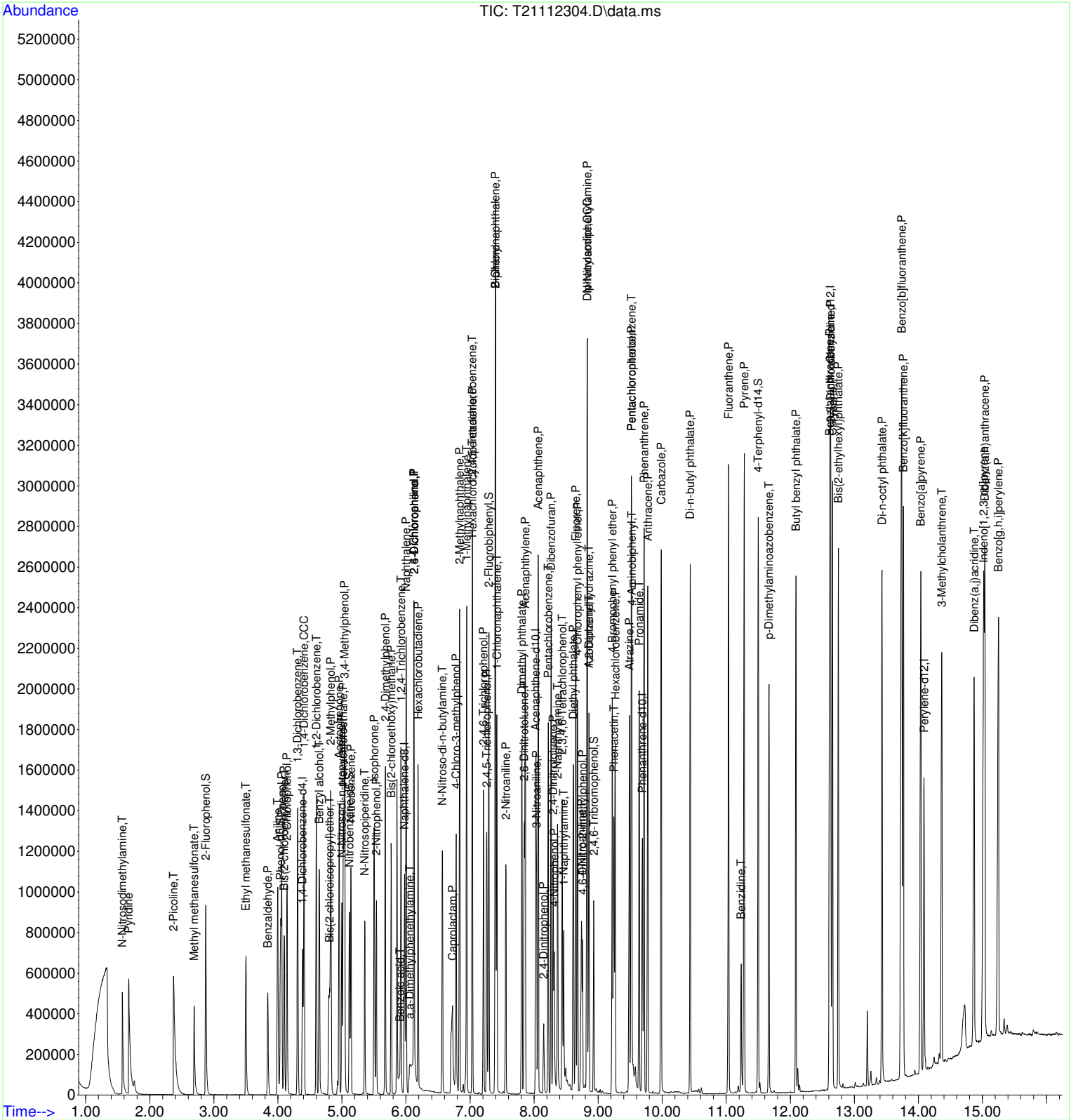
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
107) Benzo[a]pyrene	... 14.037	252	978682	81.42	ng		98
108) Dibenz(a,j)acridine	... 14.870	279	794333	76.19	ng		100
109) Indeno[1,2,3-cd]pyrene	... 15.017	276	1215295	88.33	ng	#	94
110) Dibenz(a,h)anthracene	... 15.037	278	979249	81.49	ng		99
111) Benzo[g,h,i]perylene	... 15.250	276	1019911	82.30	ng		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112304.D
Acq On : 23 Nov 2021 4:00 pm
Operator : YH
Sample : BNA80 982-99/
Misc : ICV 8270_TCL4.2_S
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 05 10:42:28 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112305.D
Acq On : 23 Nov 2021 4:27 pm
Operator : YH
Sample : BNA40 982-99/
Misc : ICV 8270_TCL4.2_S
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 05 10:49:09 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.385	152	123694	40.00	ng		0.00
23) Naphthalene-d8	5.976	136	475225	40.00	ng		0.00
45) Acenaphthene-d10	8.025	164	275416	40.00	ng		0.00
73) Phenanthrene-d10	9.687	188	495061	40.00	ng		0.00
92) Chrysene-d12	12.625	240	450227	40.00	ng		0.00
104) Perylene-d12	14.083	264	480094	40.00	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	2.873	112	155614	39.73	ng		0.00
Spiked Amount 100.000	Range 21 - 110		Recovery = 39.73%				
9) Phenol-d5	4.035	99	188336	40.98	ng		-0.01
Spiked Amount 100.000	Range 10 - 110		Recovery = 40.98%				
24) Nitrobenzene-d5	5.112	82	153638	40.80	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 81.60%				
50) 2-Fluorobiphenyl	7.289	172	349511	41.57	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 83.14%				
72) 2,4,6-Tribromophenol	8.925	330	43593	40.76	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 40.76%				
94) 4-Terphenyl-d14	11.494	244	450344	41.13	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 82.26%				
Target Compounds				Qvalue			
2) Pyridine	1.677	79	181953	37.01	ng		90
3) 2-Picoline	2.382	93	125304	26.32	ng		98
4) Methyl methanesulfonate	2.697	80	50558	27.59	ng		98
6) Ethyl methanesulfonate	3.495	79	129698	37.22	ng		97
7) Benzaldehyde	3.842	105	80931	37.95	ng		95
8) Aniline	3.996	66	83178	43.35	ng		97
10) Phenol	4.052	94	196236	39.86	ng		91
11) Bis(2-chloroethyl)ether	4.095	93	159345	40.55	ng		89
12) 2-Chlorophenol	4.140	128	161520	40.09	ng		99
13) 1,3-Dichlorobenzene	4.308	146	189939	39.94	ng		99
14) 1,4-Dichlorobenzene	4.408	146	185797	40.57	ng		99
15) 1,2-Dichlorobenzene	4.598	146	182632	40.17	ng		99
16) Benzyl alcohol	4.641	108	100633	39.69	ng		99
17) Bis(2-chloroisopropyl)ether	4.802	45	173815	34.44	ng		99
18) 2-Methylphenol	4.820	107	132886	43.72	ng	#	85
19) 3,4-Methylphenol	5.033	107	340087	86.96	ng	#	87
20) N-Nitrosodi-n-propylamine	4.990	70	105025	40.82	ng		95
21) N-Nitrosodimethylamine	1.575	74	108522	39.42	ng		93
22) Hexachloroethane	5.018	117	65634	41.55	ng		98
25) Acetophenone	4.953	105	219014	41.66	ng		96
26) Nitrobenzene	5.135	123	79286	41.06	ng		94
27) N-Nitrosopiperidine	5.348	114	82268	41.21	ng		94
28) Isophorone	5.496	82	305814	40.23	ng		97
29) 2-Nitrophenol	5.536	139	81471	39.55	ng		97
30) 2,4-Dimethylphenol	5.672	122	139887	38.99	ng		100
31) Bis(2-chloroethoxy)methane	5.766	93	195869	41.38	ng		99
32) 2,4-Dichlorophenol	6.121	162	127330	40.06	ng		95
33) 1,2,4-Trichlorobenzene	5.919	180	157219	40.76	ng		99
34) Naphthalene	5.999	128	482027	40.98	ng		100
35) Benzoic acid	5.854	122	9016	42.05	ng		95
36) 2,6-Dichlorophenol	6.121	162	127330	40.06	ng		99
37) 4-Chloroaniline	6.118	127	189958	43.50	ng		99
38) Hexachlorobutadiene	6.186	225	81945	40.05	ng		100
39) a,a-Dimethylphenethylamine	6.004	58	359517	38.72	ng		86
40) Caprolactam	6.692	113	61490	46.59	ng	#	76
41) 4-Chloro-3-methylphenol	6.774	107	134579	40.99	ng		95

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112305.D
Acq On : 23 Nov 2021 4:27 pm
Operator : YH
Sample : BNA40 982-99/
Misc : ICV 8270_TCL4.2_S
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 05 10:49:09 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) N-Nitroso-di-n-butylamine	6.561	84	105472	41.53	ng		87
43) 2-Methylnaphthalene	6.834	141	278314	40.32	ng		98
44) 1-Methylnaphthalene	6.945	141	279320	41.18	ng		98
46) 1,2,4,5-Tetrachlorobenzene	7.033	216	152976	42.21	ng		99
47) Hexachlorocyclopentadiene	7.036	237	63994	34.65	ng		98
48) 2,4,6-Trichlorophenol	7.204	196	92316	39.82	ng		98
49) 2,4,5-Trichlorophenol	7.252	196	98381	40.46	ng	#	92
51) Biphenyl	7.391	154	434723	47.26	ng		99
52) 2-Chloronaphthalene	7.391	162	329485	45.48	ng		99
53) 1-Chloronaphthalene	7.414	162	243279	37.82	ng		99
54) 2-Nitroaniline	7.553	65	85022	43.00	ng		95
55) 3-Nitroaniline	8.030	138	83983	42.60	ng	#	97
56) Pentachlorobenzene	8.218	250	139324	42.51	ng		99
57) 4-Nitroaniline	8.724	138	87956	44.44	ng		96
58) 2-Naphthylamine	8.360	143	248341	36.97	ng		97
59) 1-Naphthylamine	8.454	143	198424	39.80	ng		98
60) Dimethyl phthalate	7.803	163	353370	42.24	ng		100
61) Acenaphthylene	7.857	152	468203	42.28	ng		100
62) 2,6-Dinitrotoluene	7.840	165	73057	43.08	ng		91
63) Acenaphthene	8.062	154	290814	42.60	ng		98
64) 2,4-Dinitrophenol	8.141	184	20554	43.87	ng		91
65) Dibenzofuran	8.261	168	445267	42.43	ng		99
66) 4-Nitrophenol	8.303	109	37053	40.59	ng	#	89
67) 2,4-Dinitrotoluene	8.289	165	93567	41.76	ng		81
68) 2,3,4,6-Tetrachlorophenol	8.434	232	78180	40.85	ng		98
69) Diethyl phthalate	8.607	149	344336	42.99	ng		100
70) Fluorene	8.647	166	361052	41.97	ng		98
71) 4-Chlorophenyl phenyl ether	8.675	204	169372	41.83	ng		99
74) 4,6-Dinitro-2-methylphenol	8.744	198	47178	39.73	ng		92
75) Azobenzene	8.852	77	354304	47.86	ng		96
76) 1,2-Diphenylhydrazine	8.852	182	96555	47.62	ng	#	84
77) Diphenylamine	8.820	170	73029	51.76	ng	#	94
78) N-Nitrosodiphenylamine	8.820	168	344427	51.07	ng		98
79) 4-Bromophenyl phenyl ether	9.215	248	103473	39.48	ng		96
80) Phenacetin	9.232	108	152609	41.25	ng		97
81) Hexachlorobenzene	9.261	284	109401	39.90	ng		97
82) Atrazine	9.479	200	113673	54.68	ng		96
83) 4-Aminobiphenyl	9.516	169	248506	36.90	ng		99
84) Pentachlorophenol	9.511	266	72376	44.03	ng		97
85) Pentachloronitrobenzene	9.514	237	41161	42.67	ng		99
86) Pronamide	9.633	173	148024	55.05	ng		98
87) Phenanthrene	9.712	178	524448	41.05	ng		99
88) Anthracene	9.766	178	463271	36.43	ng		100
89) Carbazole	9.977	167	556123	48.14	ng		100
90) Di-n-butyl phthalate	10.434	149	580031	41.50	ng		100
91) Fluoranthene	11.031	202	622514	41.46	ng		97
93) Pyrene	11.275	202	647609	43.33	ng		99
95) Benzidine	11.230	184	130540	31.81	ng		98
96) p-Dimethylaminoazobenzene	11.662	225	111754	40.15	ng		90
97) Butyl benzyl phthalate	12.082	149	243141	40.93	ng		94
98) Benz(a)anthracene	12.611	228	581418	41.30	ng		100
99) 3,3'-Dichlorobenzidine	12.625	252	173704	41.19	ng		98
100) Chrysene	12.651	228	534195	40.18	ng		99
101) Bis(2-ethylhexyl)phthalate	12.747	149	322206	40.33	ng		99
102) Di-n-octyl phthalate	13.426	149	512163	39.07	ng		98
103) 3-Methylcholanthrene	14.355	268	233946	50.03	ng		99
105) Benzo[b]fluoranthene	13.725	252	603298	40.42	ng		98
106) Benzo[k]fluoranthene	13.753	252	525053	42.77	ng		99

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112305.D
Acq On : 23 Nov 2021 4:27 pm
Operator : YH
Sample : BNA40 982-99/
Misc : ICV 8270_TCL4.2_S
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 05 10:49:09 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

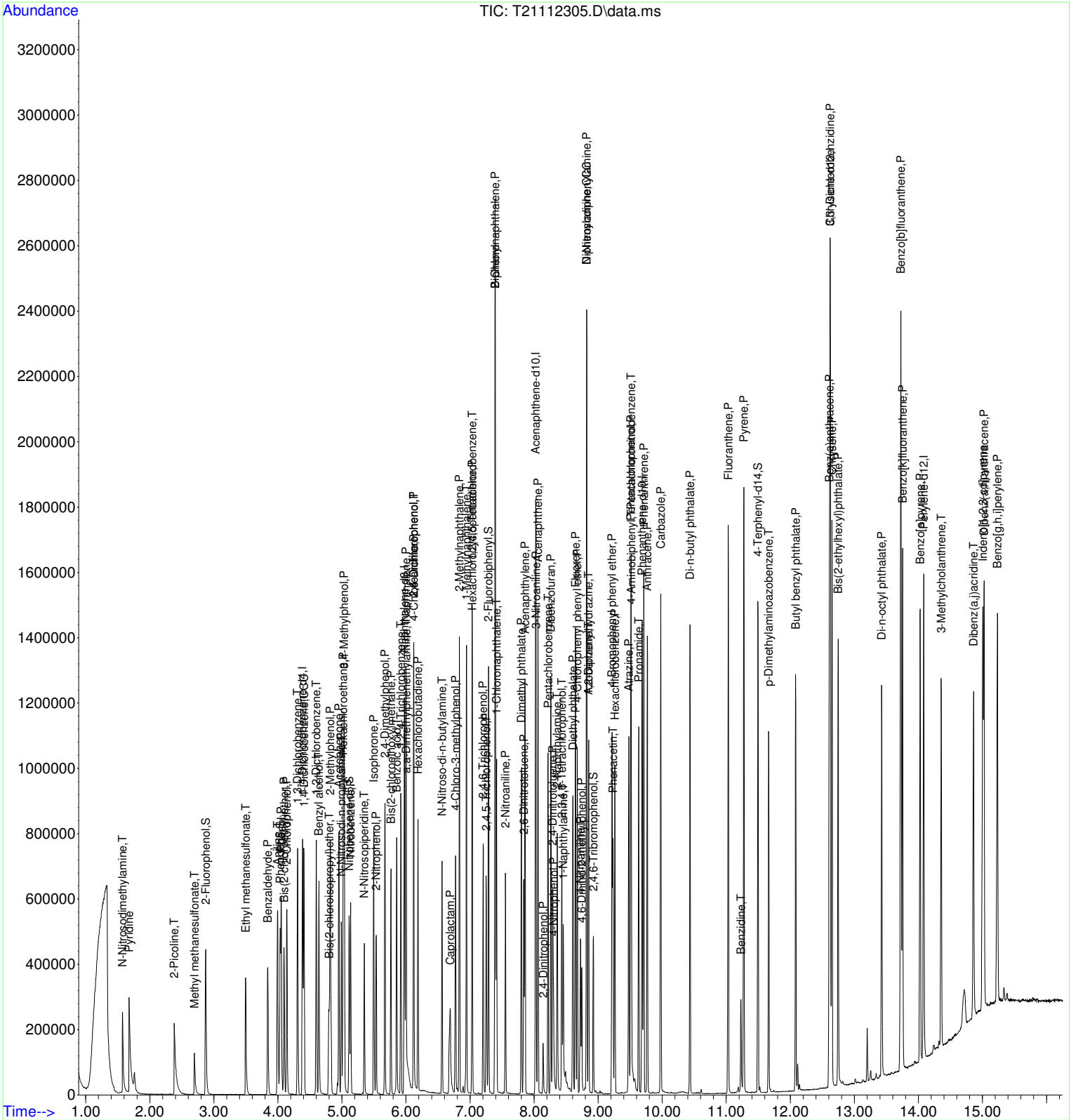
Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
107) Benzo[a]pyrene	...	14.029	252	481996	39.23	ng	97
108) Dibenz(a,j)acridine	...	14.861	279	380467	35.70	ng	100
109) Indeno[1,2,3-cd]pyrene	...	15.006	276	596987	42.45	ng	93
110) Dibenz(a,h)anthracene	...	15.026	278	481945	39.24	ng	100
111) Benzo[g,h,i]perylene	...	15.233	276	498246	39.34	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T211123\
Data File : T21112305.D
Acq On : 23 Nov 2021 4:27 pm
Operator : YH
Sample : BNA40 982-99/
Misc : ICV 8270_TCL4.2_S
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 05 10:49:09 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration



Injection Log

Directory: C:\msdchem\1\data\T211203

Line	Vial	FileName	Multiplier	SampleName		Misc Info	Injected
1	1	T21120301.D	1.	DFTPP		TUNE DFTPP_4	3 Dec 2021 10:33
2	2	T21120302.D	1.	BNA80	982-99/	ICV 8270C_W	3 Dec 2021 11:02
3	2	T21120303.D	1.	BNA80	982-99/	ICV 8270C_W	3 Dec 2021 11:30

Area Percent Report

Data Path : C:\msdchem\1\data\T211203\
Data File : T21120301.D
Acq On : 3 Dec 2021 10:33 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\methods\DFTPP.M
Title :

Signal : TIC: T21120301.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.319	56	152	153	rBV2	540284	5385882	100.00%	46.368%
2	9.499	3020	3031	3048	rBV	1550059	1210121	22.47%	10.418%
3	10.107	3235	3245	3259	rVB2	1624230	1173867	21.80%	10.106%
4	11.227	3627	3639	3666	rBV	2104527	1789477	33.23%	15.406%
5	12.142	3952	3961	3970	rBV	2536891	2056261	38.18%	17.703%

Sum of corrected areas: 11615608

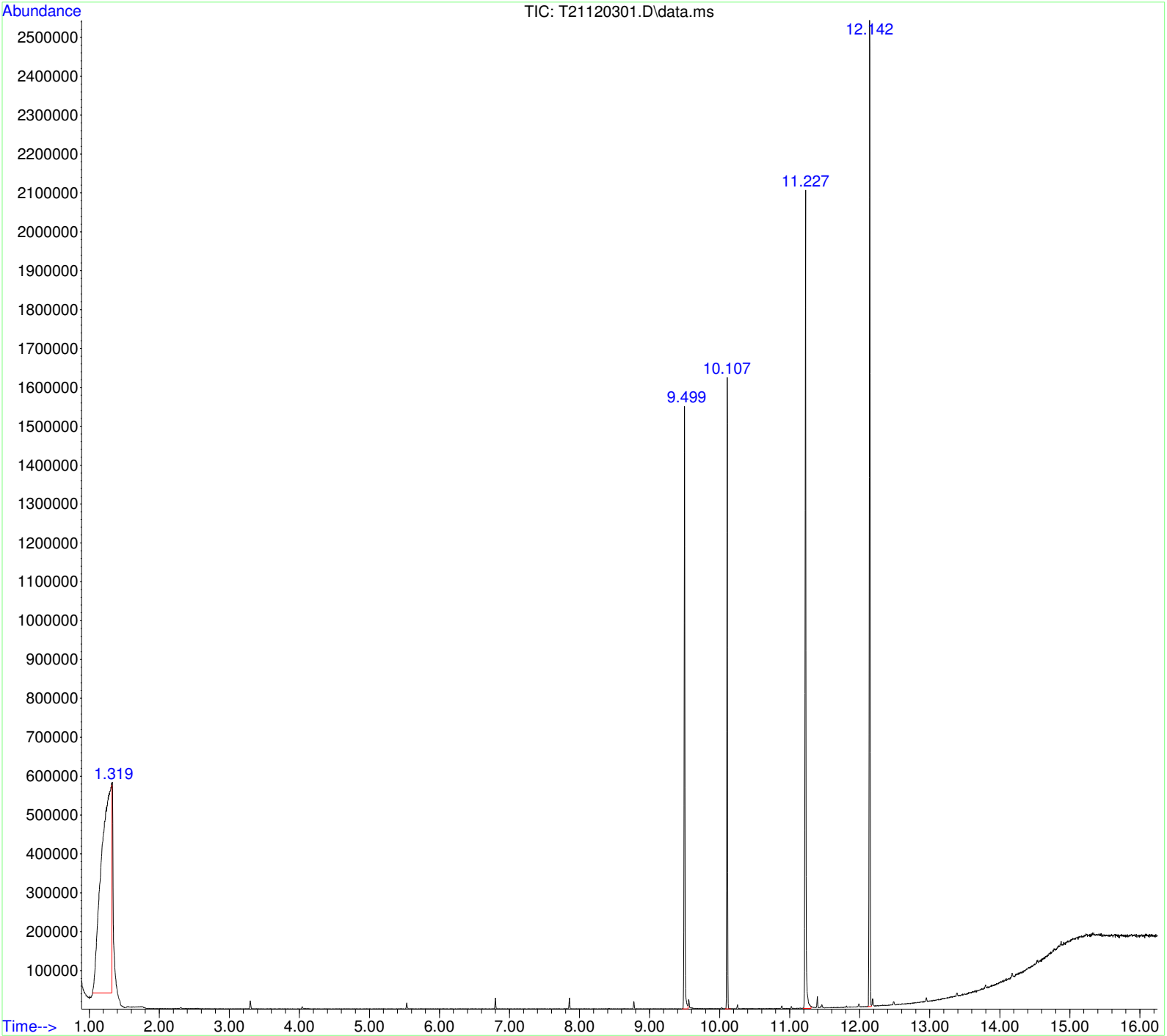
Area Percent Report

Data Path : C:\msdchem\1\data\T211203\
Data File : T21120301.D
Acq On : 3 Dec 2021 10:33 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\methods\DFTPP.M
Title :



Library Search Report

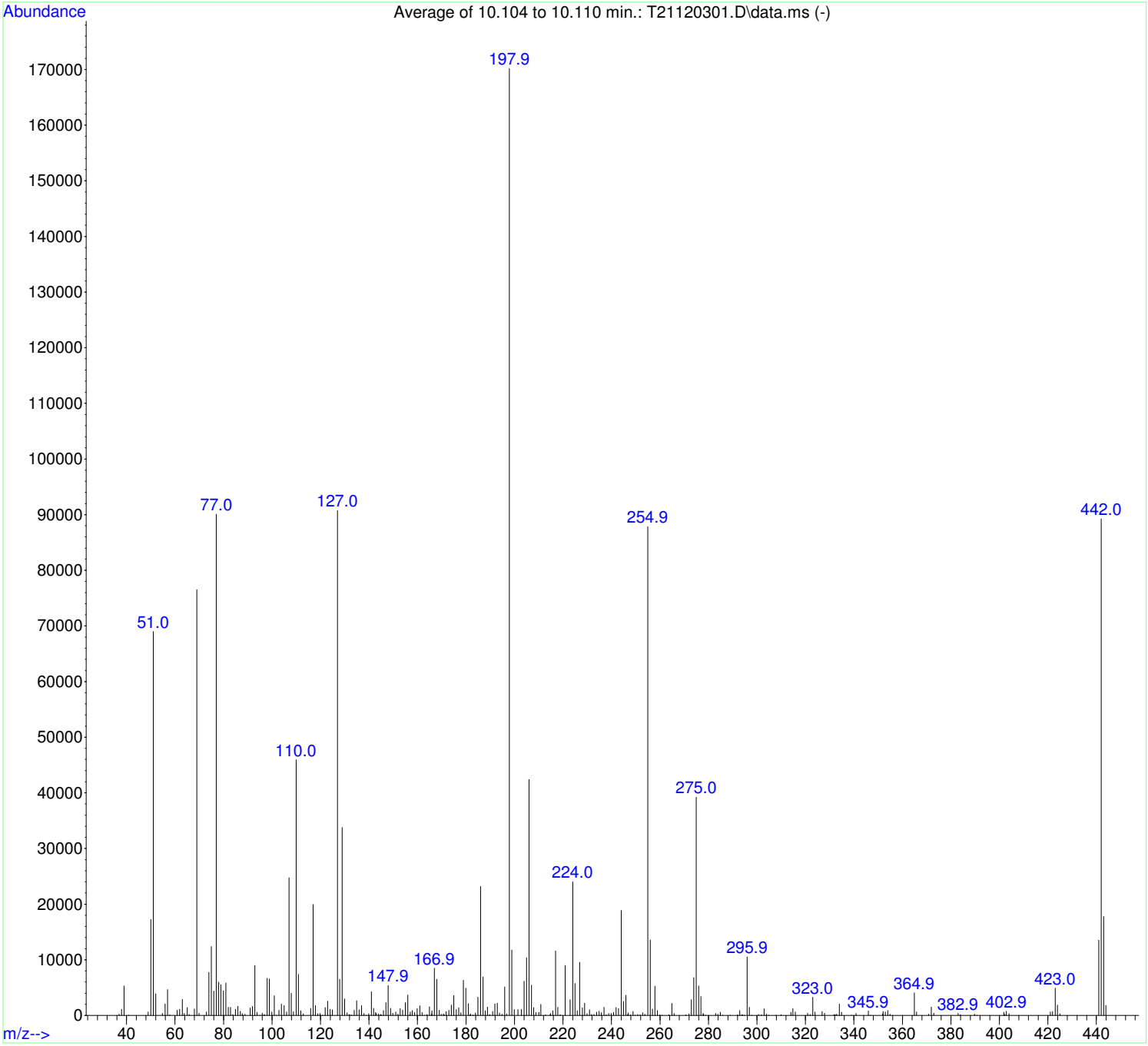
Data Path : C:\msdchem\1\data\T211203\
Data File : T21120301.D
Acq On : 3 Dec 2021 10:33 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: C:\Database\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Events: RTE Integrator - rteint.p

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.319	46.37	C:\Database\NIST14.L			
			Methylene chloride	1542	000075-09-2	95
			Methylene chloride	1541	000075-09-2	94
			Methylene chloride	1543	000075-09-2	94
2	9.499	10.42	C:\Database\NIST14.L			
			Phenol, pentachloro-	125064	000087-86-5	99
			Phenol, pentachloro-	125062	000087-86-5	99
			Phenol, pentachloro-	125061	000087-86-5	93
3	10.107	10.11	C:\Database\NIST14.L			
			Bis(pentafluorophenyl)phenyl phosphine	254406	005074-71-5	99
			methanesulfonamide, N-(6-chloro-3-pyridinyl)-	70909	1000400-53-6	10
			10H-Phenothiazine, 10-chloroacetyl	135249	1000377-68-0	10
4	11.227	15.41	C:\Database\NIST14.L			
			Benzidine	51188	000092-87-5	96
			Benzidine	51192	000092-87-5	96
			Benzidine	51190	000092-87-5	94
5	12.142	17.70	C:\Database\NIST14.L			
			p,p'-DDT	206682	000050-29-3	95
			p,p'-DDT	206681	000050-29-3	94
			o,p'-DDT	206676	000789-02-6	93

C:\msdchem\1\data\T211203\T21120301.D Wed Jan 05 11:14:09 2022



Peak Apex is scan: 3245
Average of 3 scans: 3244,3245,3246 minus background scan 3236

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	Relative Abundance,%	Result Pass/Fail
51	198	30	60	40.6	PASS
68	69	0	2	1.5	PASS
69	198	0	100	44.9	PASS
70	69	0	2	0.5	PASS
127	198	40	60	53.3	PASS
197	198	0	1	0.2	PASS
198	198	100	100	100.0	PASS
199	198	5	9	6.9	PASS
275	198	10	30	23.0	PASS
365	198	1	100	2.4	PASS
441	443	0	100	76.2	PASS
442	198	40	100	52.4	PASS
443	442	17	23	19.9	PASS

Data Path : C:\msdchem\1\data\T211203\
Data File : T21120301.D
Acq On : 3 Dec 2021 10:33 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\DFTPP.M
Title :
Last Update : Mon Oct 15 09:26:34 1990

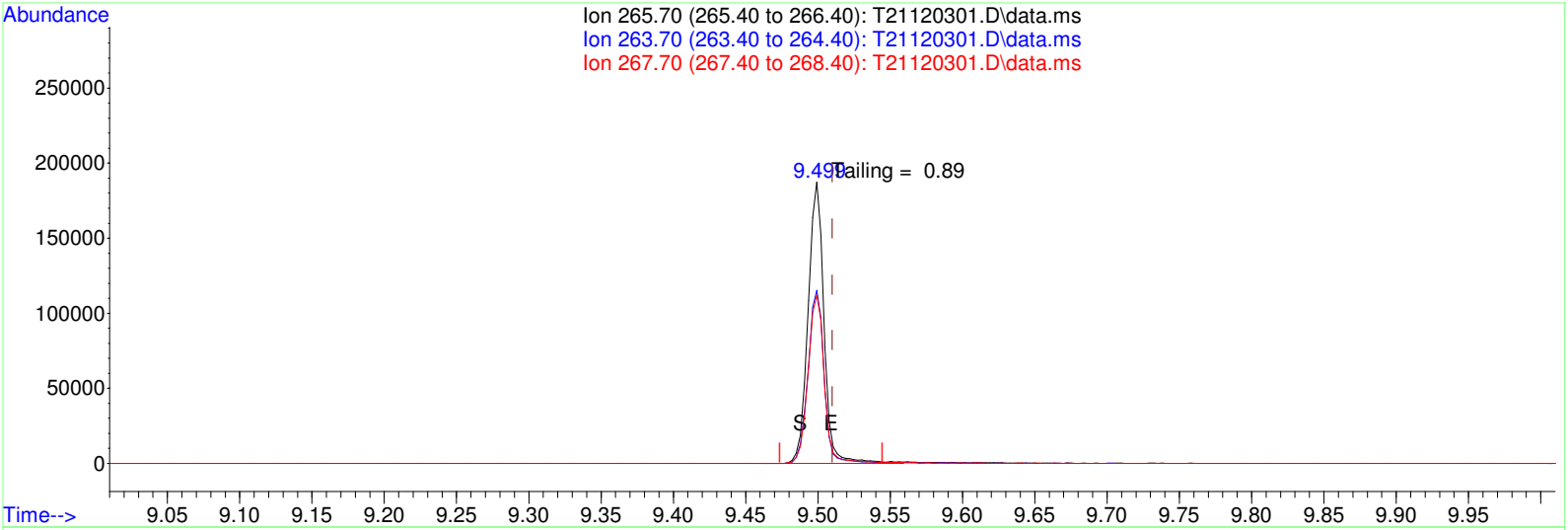
AutoFind: Scans 3244, 3245, 3246; Background Corrected with Scan 3236

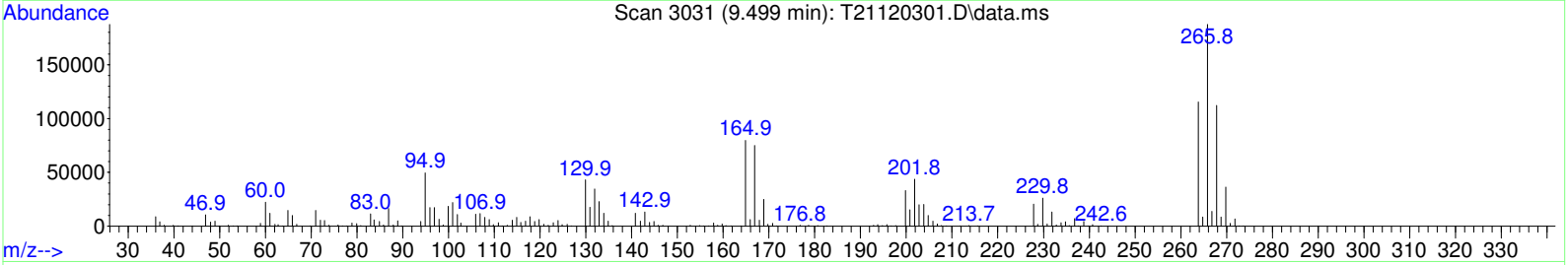
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.6	69016	PASS
68	69	0.00	2	1.5	1160	PASS
69	198	0.00	100	44.9	76501	PASS
70	69	0.00	2	0.5	420	PASS
127	198	40	60	53.3	90760	PASS
197	198	0.00	1	0.2	269	PASS
198	198	100	100	100.0	170197	PASS
199	198	5	9	6.9	11750	PASS
275	198	10	30	23.0	39213	PASS
365	198	1	100	2.4	4081	PASS
441	443	0.01	100	76.2	13538	PASS
442	198	40	100	52.4	89224	PASS
443	442	17	23	19.9	17778	PASS

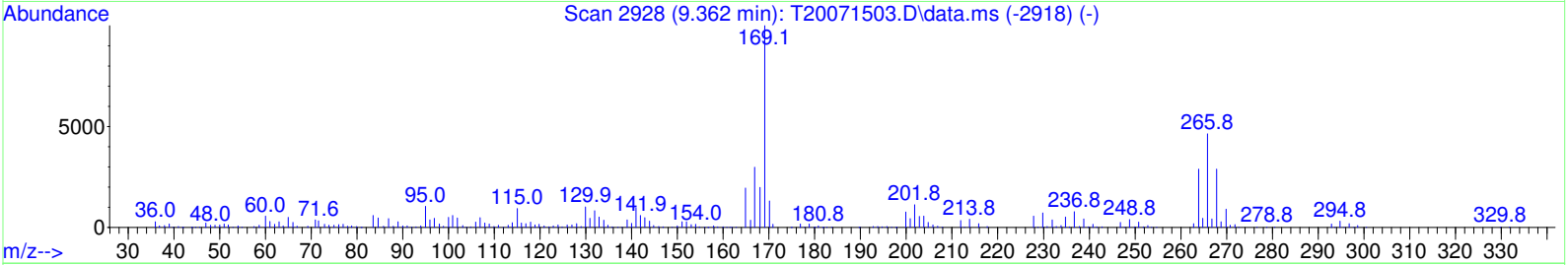
DFTPP.M Wed Jan 05 11:14:33 2022

Data Path : C:\msdchem\1\data\T211203\
Data File : T21120301.D
Acq On : 3 Dec 2021 10:33 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 05 11:15:08 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration







TIC: T21120301.D\data.ms

(84) Pentachlorophenol (P)

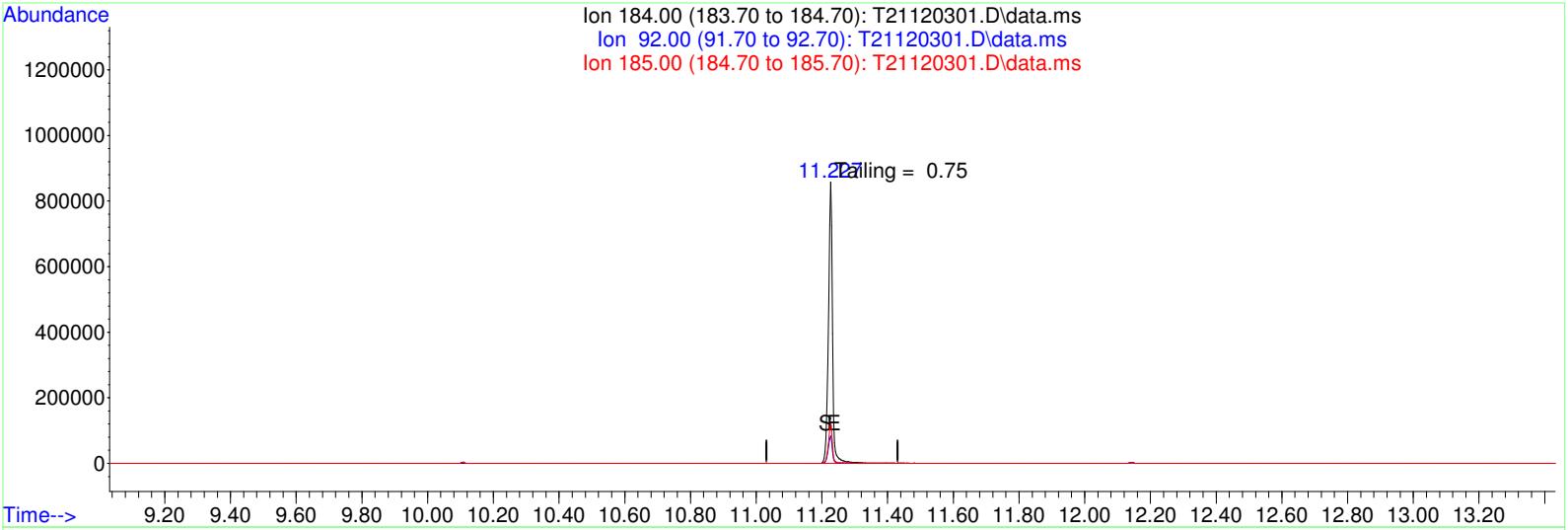
9.499min (-0.011) 0.00 ng

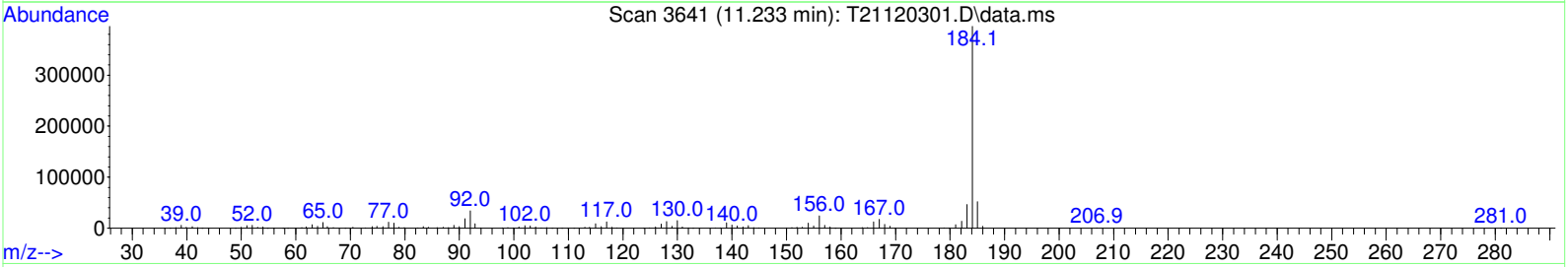
response 143115

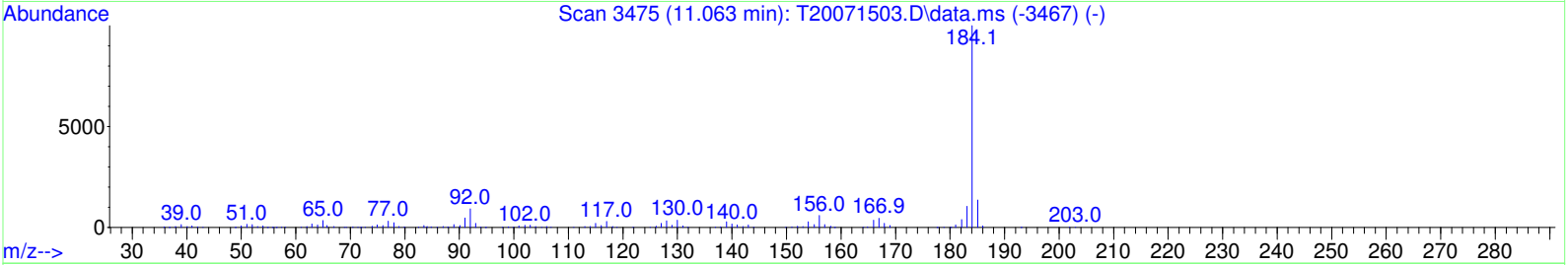
Ion	Exp%	Act%
265.70	100.00	100.00
263.70	64.80	62.64
267.70	64.40	61.77
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\T211203\
Data File : T21120301.D
Acq On : 3 Dec 2021 10:33 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 05 11:15:08 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration







TIC: T21120301.D\data.ms

(95) Benzidine (T)

11.232min (-11.232) 0.00 ng

response 0

Ion	Exp%	Act%
184.00	100.00	0.00
92.00	8.90	0.00
185.00	14.30	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T211203\
Data File : T21120303.D
Acq On : 3 Dec 2021 11:30 am
Operator : YH
Sample : BNA80 982-99/
Misc : ICV 8270C_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 11:11:34 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	93	0.00
2		Pyridine	80.000	77.307	3.4	88	-0.09
3	T	2-Picoline	80.000	49.303	38.4#	57	-0.11
4	T	Methyl methanesulfonate	80.000	51.318	35.9#	59	-0.03
5	S	2-Fluorophenol	80.000	85.242	-6.6	97	-0.03
6	T	Ethyl methanesulfonate	80.000	80.663	-0.8	93	-0.03
7	P	Benzaldehyde	80.000	97.849	-22.3	110	-0.02
8	T	Aniline	80.000	94.517	-18.1	106	-0.02
9	S	Phenol-d5	80.000	81.938	-2.4	96	-0.03
10	P	Phenol	80.000	77.717	2.9	92	-0.03
11	P	Bis(2-chloroethyl)ether	80.000	80.802	-1.0	96	-0.01
12	P	2-Chlorophenol	80.000	78.546	1.8	93	-0.02
13	T	1,3-Dichlorobenzene	80.000	77.847	2.7	92	0.00
14	CCC	1,4-Dichlorobenzene	80.000	79.474	0.7	94	0.00
15	T	1,2-Dichlorobenzene	80.000	79.324	0.8	93	0.00
16	T	Benzyl alcohol	80.000	77.693	2.9	88	-0.03
17	T	Bis(2-chloroisopropyl)ether	80.000	72.988	8.8	86	-0.03
18	P	2-Methylphenol	80.000	88.388	-10.5	102	-0.03
19	P	3,4-Methylphenol	160.000	158.114	1.2	94	-0.02
20	P	N-Nitrosodi-n-propylamine	80.000	85.225	-6.5	97	-0.03
21	T	N-Nitrosodimethylamine	80.000	83.606	-4.5	96	-0.03
22	P	Hexachloroethane	80.000	81.637	-2.0	96	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	98	0.00
24	S	Nitrobenzene-d5	80.000	85.942	-7.4	104	-0.01
25	P	Acetophenone	160.000	84.083	47.4#	53	-0.02
26	P	Nitrobenzene	80.000	80.463	-0.6	97	0.00
27	T	N-Nitrosopiperidine	80.000	82.855	-3.6	97	-0.02
28	P	Isophorone	80.000	0.581	99.3#	1	0.01
29	P	2-Nitrophenol	80.000	79.980	0.0	96	0.00
30	P	2,4-Dimethylphenol	80.000	79.136	1.1	95	-0.01
31	P	Bis(2-chloroethoxy)methane	80.000	81.421	-1.8	99	-0.01
32	P	2,4-Dichlorophenol	80.000	74.319	7.1	90	-0.01
33	T	1,2,4-Trichlorobenzene	80.000	77.688	2.9	95	0.00
34	P	Naphthalene	80.000	76.642	4.2	95	0.00
35	T	Benzoic acid	80.000	56.456	29.4#	51	-0.03
36	T	2,6-Dichlorophenol	80.000	74.319	7.1	90	-0.01
37	P	4-Chloroaniline	80.000	84.363	-5.5	103	-0.01
38	P	Hexachlorobutadiene	80.000	76.658	4.2	93	0.00
39	T	a,a-Dimethylphenethylamine	80.000	75.357	5.8	86	0.00
40	P	Caprolactam	80.000	97.499	-21.9	105	-0.07
41	P	4-Chloro-3-methylphenol	80.000	84.088	-5.1	100	-0.01
42	T	N-Nitroso-di-n-butylamine	80.000	88.443	-10.6	102	-0.02
43	P	2-Methylnaphthalene	80.000	76.591	4.3	95	0.00
44	T	1-Methylnaphthalene	80.000	72.158	9.8	90	0.00
45	I	Acenaphthene-d10	40.000	40.000	0.0	96	0.00
46	T	1,2,4,5-Tetrachlorobenzene	80.000	77.031	3.7	94	0.00
47	P	Hexachlorocyclopentadiene	80.000	69.501	13.1	77	0.00
48	P	2,4,6-Trichlorophenol	80.000	81.276	-1.6	94	-0.01
49	P	2,4,5-Trichlorophenol	80.000	80.856	-1.1	94	-0.01
50	S	2-Fluorobiphenyl	80.000	77.944	2.6	97	0.00
51		Biphenyl	80.000	67.766	15.3	86	0.00
52	P	2-Chloronaphthalene	80.000	84.552	-5.7	104	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T211203\
Data File : T21120303.D
Acq On : 3 Dec 2021 11:30 am
Operator : YH
Sample : BNA80 982-99/
Misc : ICV 8270C_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 11:11:34 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
53	T	1-Chloronaphthalene	80.000	71.402	10.7	91	0.00
54	P	2-Nitroaniline	80.000	95.840	-19.8	107	-0.01
55	P	3-Nitroaniline	80.000	90.636	-13.3	100	-0.01
56	T	Pentachlorobenzene	80.000	79.602	0.5	94	0.00
57	P	4-Nitroaniline	80.000	90.257	-12.8	99	0.00
58	T	2-Naphthylamine	80.000	74.755	6.6	88	0.00
59	T	1-Naphthylamine	80.000	90.279	-12.8	103	0.00
60	P	Dimethyl phthalate	80.000	82.836	-3.5	98	-0.01
61	P	Acenaphthylene	80.000	77.394	3.3	93	0.00
62	P	2,6-Dinitrotoluene	80.000	90.257	-12.8	99	0.00
63	P	Acenaphthene	80.000	80.743	-0.9	98	0.00
64	P	2,4-Dinitrophenol	80.000	87.657	-9.6	106	0.00
65	P	Dibenzofuran	80.000	78.528	1.8	96	0.00
66	P	4-Nitrophenol	80.000	72.085	9.9	80	-0.02
67	P	2,4-Dinitrotoluene	80.000	85.517	-6.9	94	0.00
68	T	2,3,4,6-Tetrachlorophenol	80.000	81.274	-1.6	94	0.00
69	P	Diethyl phthalate	80.000	85.055	-6.3	100	-0.01
70	P	Fluorene	80.000	77.040	3.7	95	0.00
71	P	4-Chlorophenyl phenyl ether	80.000	76.891	3.9	94	0.00
72	S	2,4,6-Tribromophenol	80.000	69.137	13.6	81	0.00
73	I	Phenanthrene-d10	40.000	40.000	0.0	99	0.00
74	P	4,6-Dinitro-2-methylphenol	80.000	65.270	18.4	79	0.00
75	T	Azobenzene	80.000	97.056	-21.3	122	0.00
76	T	1,2-Diphenylhydrazine	80.000	91.005	-13.8	111	0.00
77	CCC	Diphenylamine	80.000	98.067	-22.6#	120	0.00
78	P	N-Nitrosodiphenylamine	80.000	95.678	-19.6	120	0.00
79	P	4-Bromophenyl phenyl ether	80.000	73.783	7.8	88	0.00
80	T	Phenacetin	80.000	88.776	-11.0	96	-0.02
81	P	Hexachlorobenzene	80.000	71.633	10.5	88	0.00
82	P	Atrazine	80.000	94.163	-17.7	109	-0.02
83	T	4-Aminobiphenyl	80.000	72.192	9.8	79	0.00
84	P	Pentachlorophenol	80.000	37.350	53.3#	42	0.00
85	T	Pentachloronitrobenzene	80.000	85.855	-7.3	98	0.00
86	T	Pronamide	80.000	116.927	-46.2#	131	0.00
87	P	Phenanthrene	80.000	75.154	6.1	93	0.00
88	P	Anthracene	80.000	72.111	9.9	87	0.00
89	P	Carbazole	80.000	74.465	6.9	88	0.00
90	P	Di-n-butyl phthalate	80.000	83.773	-4.7	94	-0.01
91	P	Fluoranthene	80.000	78.737	1.6	93	0.00
92	I	Chrysene-d12	40.000	40.000	0.0	93	0.00
93	P	Pyrene	80.000	81.469	-1.8	94	0.00
94	S	4-Terphenyl-d14	80.000	82.865	-3.6	94	0.00
95	T	Benzidine	80.000	87.387	-9.2	108	0.00
96	T	p-Dimethylaminoazobenzene	80.000	74.631	6.7	88	0.00
97	P	Butyl benzyl phthalate	80.000	89.386	-11.7	93	0.00
98	P	Benz(a)anthracene	80.000	83.262	-4.1	92	0.00
99	P	3,3'-Dichlorobenzidine	80.000	88.922	-11.2	95	0.00
100	P	Chrysene	80.000	78.526	1.8	90	0.00
101	P	Bis(2-ethylhexyl)phthalate	80.000	80.846	-1.1	94	-0.01
102	P	Di-n-octyl phthalate	80.000	79.301	0.9	92	-0.01
103	T	3-Methylcholanthrene	80.000	114.334	-42.9#	124	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T211203\
Data File : T21120303.D
Acq On : 3 Dec 2021 11:30 am
Operator : YH
Sample : BNA80 982-99/
Misc : ICV 8270C_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 11:11:34 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
104	I	Perylene-d12	40.000	40.000	0.0	91	0.00
105	P	Benzo[b]fluoranthene	80.000	82.857	-3.6	91	0.00
106	P	Benzo[k]fluoranthene	80.000	81.869	-2.3	94	0.00
107	P	Benzo[a]pyrene	80.000	83.183	-4.0	91	0.00
108	T	Dibenz(a,j)acridine	80.000	76.132	4.8	83	-0.01
109		Indeno[1,2,3-cd]pyrene	80.000	87.340	-9.2	91	0.00
110	P	Dibenz(a,h)anthracene	80.000	80.014	-0.0	89	0.00
111	P	Benzo[g,h,i]perylene	80.000	81.092	-1.4	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T211203\
Data File : T21120303.D
Acq On : 3 Dec 2021 11:30 am
Operator : YH
Sample : BNA80 982-99/
Misc : ICV 8270C_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 11:11:34 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
2		Pyridine	1.590	1.536	3.4	88	-0.09
3	T	2-Picoline	1.540	0.949	38.4#	57	-0.11
4	T	Methyl methanesulfonate	0.593	0.380	35.9#	59	-0.03
5	S	2-Fluorophenol	1.267	1.350	-6.6	97	-0.03
6	T	Ethyl methanesulfonate	1.127	1.136	-0.8	93	-0.03
7	P	Benzaldehyde	0.690	0.843	-22.2	110	-0.02
8	T	Aniline	0.620	0.733	-18.2	106	-0.02
9	S	Phenol-d5	1.486	1.522	-2.4	96	-0.03
10	P	Phenol	1.592	1.547	2.8	92	-0.03
11	P	Bis(2-chloroethyl)ether	1.271	1.283	-0.9	96	-0.01
12	P	2-Chlorophenol	1.303	1.279	1.8	93	-0.02
13	T	1,3-Dichlorobenzene	1.538	1.496	2.7	92	0.00
14	CCC	1,4-Dichlorobenzene	1.481	1.471	0.7	94	0.00
15	T	1,2-Dichlorobenzene	1.470	1.458	0.8	93	0.00
16	T	Benzyl alcohol	0.820	0.796	2.9	88	-0.03
17	T	Bis(2-chloroisopropyl)ether	1.632	1.489	8.8	86	-0.03
18	P	2-Methylphenol	0.983	1.086	-10.5	102	-0.03
19	P	3,4-Methylphenol	1.265	1.250	1.2	94	-0.02
20	P	N-Nitrosodi-n-propylamine	0.832	0.886	-6.5	97	-0.03
21	T	N-Nitrosodimethylamine	0.890	0.930	-4.5	96	-0.03
22	P	Hexachloroethane	0.511	0.521	-2.0	96	0.00
23	I	Naphthalene-d8	1.000	1.000	0.0	98	0.00
24	S	Nitrobenzene-d5	0.317	0.341	-7.6	104	-0.01
25	P	Acetophenone	0.443	0.233	47.4#	53	-0.02
26	P	Nitrobenzene	0.163	0.163#	0.0	97	0.00
27	T	N-Nitrosopiperidine	0.168	0.174	-3.6	97	-0.02
28	P	Isophorone	0.640	0.005#	99.2#	1#	0.01
29	P	2-Nitrophenol	0.173	0.173	0.0	96	0.00
30	P	2,4-Dimethylphenol	0.302	0.299	1.0	95	-0.01
31	P	Bis(2-chloroethoxy)methane	0.398	0.405	-1.8	99	-0.01
32	P	2,4-Dichlorophenol	0.268	0.249	7.1	90	-0.01
33	T	1,2,4-Trichlorobenzene	0.325	0.315	3.1	95	0.00
34	P	Naphthalene	0.990	0.948	4.2	95	0.00
35	T	Benzoic acid	0.058	0.029	50.0#	51	-0.03
36	T	2,6-Dichlorophenol	0.268	0.249	7.1	90	-0.01
37	P	4-Chloroaniline	0.368	0.388	-5.4	103	-0.01
38	P	Hexachlorobutadiene	0.172	0.165	4.1	93	0.00
39	T	a,a-Dimethylphenethylamine	0.781	0.736	5.8	86	0.00
40	P	Caprolactam	0.111	0.135	-21.6	105	-0.07
41	P	4-Chloro-3-methylphenol	0.276	0.290	-5.1	100	-0.01
42	T	N-Nitroso-di-n-butylamine	0.214	0.236	-10.3	102	-0.02
43	P	2-Methylnaphthalene	0.581	0.556	4.3	95	0.00
44	T	1-Methylnaphthalene	0.571	0.515	9.8	90	0.00
45	I	Acenaphthene-d10	1.000	1.000	0.0	96	0.00
46	T	1,2,4,5-Tetrachlorobenzene	0.526	0.507	3.6	94	0.00
47	P	Hexachlorocyclopentadiene	0.268	0.233	13.1	77	0.00
48	P	2,4,6-Trichlorophenol	0.337	0.342	-1.5	94	-0.01
49	P	2,4,5-Trichlorophenol	0.353	0.357	-1.1	94	-0.01
50	S	2-Fluorobiphenyl	1.221	1.190	2.5	97	0.00
51		Biphenyl	1.336	1.132	15.3	86	0.00
52	P	2-Chloronaphthalene	1.052	1.112	-5.7	104	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T211203\
Data File : T21120303.D
Acq On : 3 Dec 2021 11:30 am
Operator : YH
Sample : BNA80 982-99/
Misc : ICV 8270C_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 11:11:34 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
53	T	1-Chloronaphthalene	0.934	0.834	10.7	91	0.00
54	P	2-Nitroaniline	0.287	0.344	-19.9	107	-0.01
55	P	3-Nitroaniline	0.286	0.324	-13.3	100	-0.01
56	T	Pentachlorobenzene	0.476	0.474	0.4	94	0.00
57	P	4-Nitroaniline	0.287	0.324	-12.9	99	0.00
58	T	2-Naphthylamine	0.976	0.912	6.6	88	0.00
59	T	1-Naphthylamine	0.724	0.817	-12.8	103	0.00
60	P	Dimethyl phthalate	1.215	1.258	-3.5	98	-0.01
61	P	Acenaphthylene	1.608	1.556	3.2	93	0.00
62	P	2,6-Dinitrotoluene	0.246	0.278	-13.0	99	0.00
63	P	Acenaphthene	0.992	1.001	-0.9	98	0.00
64	P	2,4-Dinitrophenol	0.088	0.115	-30.7#	106	0.00
65	P	Dibenzofuran	1.524	1.496	1.8	96	0.00
66	P	4-Nitrophenol	0.133	0.119	10.5	80	-0.02
67	P	2,4-Dinitrotoluene	0.325	0.348	-7.1	94	0.00
68	T	2,3,4,6-Tetrachlorophenol	0.278	0.282	-1.4	94	0.00
69	P	Diethyl phthalate	1.163	1.237	-6.4	100	-0.01
70	P	Fluorene	1.250	1.203	3.8	95	0.00
71	P	4-Chlorophenyl phenyl ether	0.588	0.565	3.9	94	0.00
72	S	2,4,6-Tribromophenol	0.153	0.139	9.2	81	0.00
73	I	Phenanthrene-d10	1.000	1.000	0.0	99	0.00
74	P	4,6-Dinitro-2-methylphenol	0.094	0.092	2.1	79	0.00
75	T	Azobenzene	0.598	0.726	-21.4	122	0.00
76	T	1,2-Diphenylhydrazine	0.164	0.186	-13.4	111	0.00
77	CCC	Diphenylamine	0.114	0.140	-22.8#	120	0.00
78	P	N-Nitrosodiphenylamine	0.545	0.652	-19.6	120	0.00
79	P	4-Bromophenyl phenyl ether	0.212	0.195	8.0	88	0.00
80	T	Phenacetin	0.299	0.332	-11.0	96	-0.02
81	P	Hexachlorobenzene	0.222	0.198	10.8	88	0.00
82	P	Atrazine	0.168	0.198	-17.9	109	-0.02
83	T	4-Aminobiphenyl	0.544	0.491	9.7	79	0.00
84	P	Pentachlorophenol	0.133	0.062	53.4#	42#	0.00
85	T	Pentachloronitrobenzene	0.078	0.084	-7.7	98	0.00
86	T	Pronamide	0.217	0.318	-46.5#	131	0.00
87	P	Phenanthrene	1.032	0.970	6.0	93	0.00
88	P	Anthracene	1.027	0.926	9.8	87	0.00
89	P	Carbazole	0.933	0.869	6.9	88	0.00
90	P	Di-n-butyl phthalate	1.129	1.183	-4.8	94	-0.01
91	P	Fluoranthene	1.213	1.194	1.6	93	0.00
92	I	Chrysene-d12	1.000	1.000	0.0	93	0.00
93	P	Pyrene	1.328	1.352	-1.8	94	0.00
94	S	4-Terphenyl-d14	0.973	1.008	-3.6	94	0.00
95	T	Benzidine	0.409	0.531	-29.8#	108	0.00
96	T	p-Dimethylaminoazobenzene	0.245	0.261	-6.5	88	0.00
97	P	Butyl benzyl phthalate	0.528	0.590	-11.7	93	0.00
98	P	Benz(a)anthracene	1.251	1.302	-4.1	92	0.00
99	P	3,3'-Dichlorobenzidine	0.375	0.416	-10.9	95	0.00
100	P	Chrysene	1.181	1.159	1.9	90	0.00
101	P	Bis(2-ethylhexyl)phthalate	0.658	0.774	-17.6	94	-0.01
102	P	Di-n-octyl phthalate	1.152	1.312	-13.9	92	-0.01
103	T	3-Methylcholanthrene	0.415	0.594	-43.1#	124	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\T211203\
Data File : T21120303.D
Acq On : 3 Dec 2021 11:30 am
Operator : YH
Sample : BNA80 982-99/
Misc : ICV 8270C_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 11:11:34 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
104	I	Perylene-d12	1.000	1.000	0.0	91	0.00
105	P	Benzo[b]fluoranthene	1.244	1.288	-3.5	91	0.00
106	P	Benzo[k]fluoranthene	1.023	1.047	-2.3	94	0.00
107	P	Benzo[a]pyrene	1.024	1.064	-3.9	91	0.00
108	T	Dibenz(a,j)acridine	0.888	0.845	4.8	83	-0.01
109		Indeno[1,2,3-cd]pyrene	1.172	1.279	-9.1	91	0.00
110	P	Dibenz(a,h)anthracene	1.023	1.024	-0.1	89	0.00
111	P	Benzo[g,h,i]perylene	1.055	1.070	-1.4	92	0.00

(#) = Out of Range SPCC's out = 2 CCC's out = 1

Injection Log

Directory: C:\msdchem\1\data\T211203

Line	Vial	FileName	Multiplier	SampleName		Misc Info	Injected
1	1	T21120301.D	1.	DFTPP		TUNE DFTPP_4	3 Dec 2021 10:33
2	2	T21120302.D	1.	BNA80	982-99/	ICV 8270C_W	3 Dec 2021 11:02
3	2	T21120303.D	1.	BNA80	982-99/	ICV 8270C_W	3 Dec 2021 11:30

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T211203\
Data File : T21120303.D
Acq On : 3 Dec 2021 11:30 am
Operator : YH
Sample : BNA80 982-99/
Misc : ICV 8270C_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 11:11:34 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.382	152	117626	40.00	ng		0.00
23) Naphthalene-d8	...	5.973	136	471124	40.00	ng		0.00
45) Acenaphthene-d10	...	8.022	164	275419	40.00	ng		0.00
73) Phenanthrene-d10	...	9.684	188	495174	40.00	ng		0.00
92) Chrysene-d12	...	12.622	240	428172	40.00	ng		0.00
104) Perylene-d12	...	14.079	264	450065	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.856	112	317519	85.24	ng		-0.03
Spiked Amount 100.000	Range 21 - 110		Recovery = 85.24%					
9) Phenol-d5	...	4.024	99	358081	81.94	ng		-0.03
Spiked Amount 100.000	Range 10 - 110		Recovery = 81.94%					
24) Nitrobenzene-d5	...	5.109	82	320860	85.94	ng		-0.01
Spiked Amount 50.000	Range 34 - 114		Recovery = 171.88%#					
50) 2-Fluorobiphenyl	...	7.288	172	655365	77.94	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 155.88%#					
72) 2,4,6-Tribromophenol	...	8.925	330	76297	69.14	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 69.14%					
94) 4-Terphenyl-d14	...	11.494	244	862825	82.87	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 165.74%#					
Target Compounds								Qvalue
2) Pyridine	...	1.614	79	361417	77.31	ng		93
3) 2-Picoline	...	2.299	93	223219	49.30	ng		95
4) Methyl methanesulfonate	...	2.674	80	89421	51.32	ng		99
6) Ethyl methanesulfonate	...	3.478	79	267284	80.66	ng		96
7) Benzaldehyde	...	3.828	105	198420	97.85	ng		96
8) Aniline	...	3.984	66	172439	94.52	ng		99
10) Phenol	...	4.041	94	363824	77.72	ng		94
11) Bis(2-chloroethyl)ether	...	4.089	93	301932	80.80	ng		90
12) 2-Chlorophenol	...	4.132	128	300902	78.55	ng		98
13) 1,3-Dichlorobenzene	...	4.305	146	352025	77.85	ng		99
14) 1,4-Dichlorobenzene	...	4.404	146	346121	79.47	ng		98
15) 1,2-Dichlorobenzene	...	4.595	146	342962	79.32	ng		98
16) Benzyl alcohol	...	4.629	108	187319	77.69	ng		91
17) Bis(2-chloroisopropyl)ether	...	4.785	45	350267	72.99	ng		92
18) 2-Methylphenol	...	4.808	107	255447	88.39	ng	#	80
19) 3,4-Methylphenol	...	5.024	107	588047	158.11	ng		87
20) N-Nitrosodi-n-propylamine	...	4.978	70	208519	85.23	ng		96
21) N-Nitrosodimethylamine	...	1.557	74	218883	83.61	ng		97
22) Hexachloroethane	...	5.015	117	122627	81.64	ng		93
25) Acetophenone	...	4.941	105	438242	84.08	ng		95
26) Nitrobenzene	...	5.135	123	154019	80.46	ng		88
27) N-Nitrosopiperidine	...	5.339	114	163964	82.85	ng		96
28) Isophorone	...	5.530	82	4376	0.58	ng	#	62
29) 2-Nitrophenol	...	5.532	139	163331	79.98	ng		92
30) 2,4-Dimethylphenol	...	5.666	122	281487	79.14	ng		98
31) Bis(2-chloroethoxy)methane	...	5.760	93	382075	81.42	ng		99
32) 2,4-Dichlorophenol	...	6.118	162	234185	74.32	ng		95
33) 1,2,4-Trichlorobenzene	...	5.919	180	297068	77.69	ng		100
34) Naphthalene	...	5.998	128	893630	76.64	ng		100
35) Benzoic acid	...	5.862	122	27713	56.46	ng		98
36) 2,6-Dichlorophenol	...	6.118	162	234185	74.32	ng		98
37) 4-Chloroaniline	...	6.115	127	365220	84.36	ng		96
38) Hexachlorobutadiene	...	6.186	225	155486	76.66	ng		99
39) a,a-Dimethylphenethylamine	...	6.055	58	693624	75.36	ng	#	93
40) Caprolactam	...	6.669	113	127576	97.50	ng		95
41) 4-Chloro-3-methylphenol	...	6.771	107	273664	84.09	ng		97

Data Path : C:\msdchem\1\data\T211203\
Data File : T21120303.D
Acq On : 3 Dec 2021 11:30 am
Operator : YH
Sample : BNA80 982-99/
Misc : ICV 8270C_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 11:11:34 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) N-Nitroso-di-n-butylamine	6.553	84	222661	88.44	ng		88
43) 2-Methylnaphthalene	6.831	141	524058	76.59	ng		99
44) 1-Methylnaphthalene	6.942	141	485269	72.16	ng		98
46) 1,2,4,5-Tetrachlorobenzene	7.033	216	279146	77.03	ng	#	98
47) Hexachlorocyclopentadiene	7.036	237	128347	69.50	ng		97
48) 2,4,6-Trichlorophenol	7.200	196	188437	81.28	ng		97
49) 2,4,5-Trichlorophenol	7.249	196	196615	80.86	ng	#	94
51) Biphenyl	7.391	154	623419	67.77	ng		98
52) 2-Chloronaphthalene	7.394	162	612524	84.55	ng		99
53) 1-Chloronaphthalene	7.413	162	459316	71.40	ng		99
54) 2-Nitroaniline	7.550	65	189493	95.84	ng		92
55) 3-Nitroaniline	8.027	138	178693	90.64	ng		96
56) Pentachlorobenzene	8.218	250	260880	79.60	ng	#	98
57) 4-Nitroaniline	8.729	138	178631	90.26	ng		90
58) 2-Naphthylamine	8.360	143	502123	74.75	ng		96
59) 1-Naphthylamine	8.453	143	450125	90.28	ng		95
60) Dimethyl phthalate	7.797	163	693007	82.84	ng		100
61) Acenaphthylene	7.857	152	857093	77.39	ng		99
62) 2,6-Dinitrotoluene	7.840	165	153053	90.26	ng		85
63) Acenaphthene	8.061	154	551238	80.74	ng		97
64) 2,4-Dinitrophenol	8.144	184	63106	87.66	ng		91
65) Dibenzofuran	8.260	168	824152	78.53	ng		95
66) 4-Nitrophenol	8.297	109	65808	72.09	ng	#	88
67) 2,4-Dinitrotoluene	8.291	165	191606	85.52	ng	#	78
68) 2,3,4,6-Tetrachlorophenol	8.431	232	155548	81.27	ng		97
69) Diethyl phthalate	8.601	149	681256	85.05	ng		99
70) Fluorene	8.644	166	662817	77.04	ng		99
71) 4-Chlorophenyl phenyl ether	8.672	204	311373	76.89	ng		97
74) 4,6-Dinitro-2-methylphenol	8.749	198	91382	65.27	ng		85
75) Azobenzene	8.851	77	718736	97.06	ng		96
76) 1,2-Diphenylhydrazine	8.851	182	184548	91.00	ng	#	73
77) Diphenylamine	8.823	170	138393	98.07	ng	#	92
78) N-Nitrosodiphenylamine	8.823	168	645424	95.68	ng		98
79) 4-Bromophenyl phenyl ether	9.215	248	193400	73.78	ng		93
80) Phenacetin	9.229	108	328495	88.78	ng		96
81) Hexachlorobenzene	9.260	284	196448	71.63	ng		94
82) Atrazine	9.474	200	195816	94.16	ng		94
83) 4-Aminobiphenyl	9.516	169	486297	72.19	ng		96
84) Pentachlorophenol	9.525	266	61410	37.35	ng		95
85) Pentachloronitrobenzene	9.510	237	82831	85.86	ng		95
86) Pronamide	9.633	173	314487	116.93	ng		98
87) Phenanthrene	9.712	178	960483	75.15	ng		99
88) Anthracene	9.769	178	917228	72.11	ng		99
89) Carbazole	9.976	167	860361	74.46	ng		99
90) Di-n-butyl phthalate	10.428	149	1171143	83.77	ng		99
91) Fluoranthene	11.031	202	1182591	78.74	ng		97
93) Pyrene	11.275	202	1158020	81.47	ng		99
95) Benzidine	11.227	184	454495	87.39	ng		98
96) p-Dimethylaminoazobenzene	11.661	225	223581	74.63	ng	#	86
97) Butyl benzyl phthalate	12.079	149	505037	89.39	ng		93
98) Benz(a)anthracene	12.608	228	1114634	83.26	ng		100
99) 3,3'-Dichlorobenzidine	12.622	252	356621	88.92	ng		98
100) Chrysene	12.653	228	992792	78.53	ng		99
101) Bis(2-ethylhexyl)phthalate	12.741	149	662724	80.85	ng		99
102) Di-n-octyl phthalate	13.420	149	1123662	79.30	ng		98
103) 3-Methylcholanthrene	14.358	268	508428	114.33	ng		98
105) Benzo[b]fluoranthene	13.730	252	1159478	82.86	ng		97
106) Benzo[k]fluoranthene	13.761	252	942072	81.87	ng		98

Data Path : C:\msdchem\1\data\T211203\
Data File : T21120303.D
Acq On : 3 Dec 2021 11:30 am
Operator : YH
Sample : BNA80 982-99/
Misc : ICV 8270C_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 11:11:34 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration

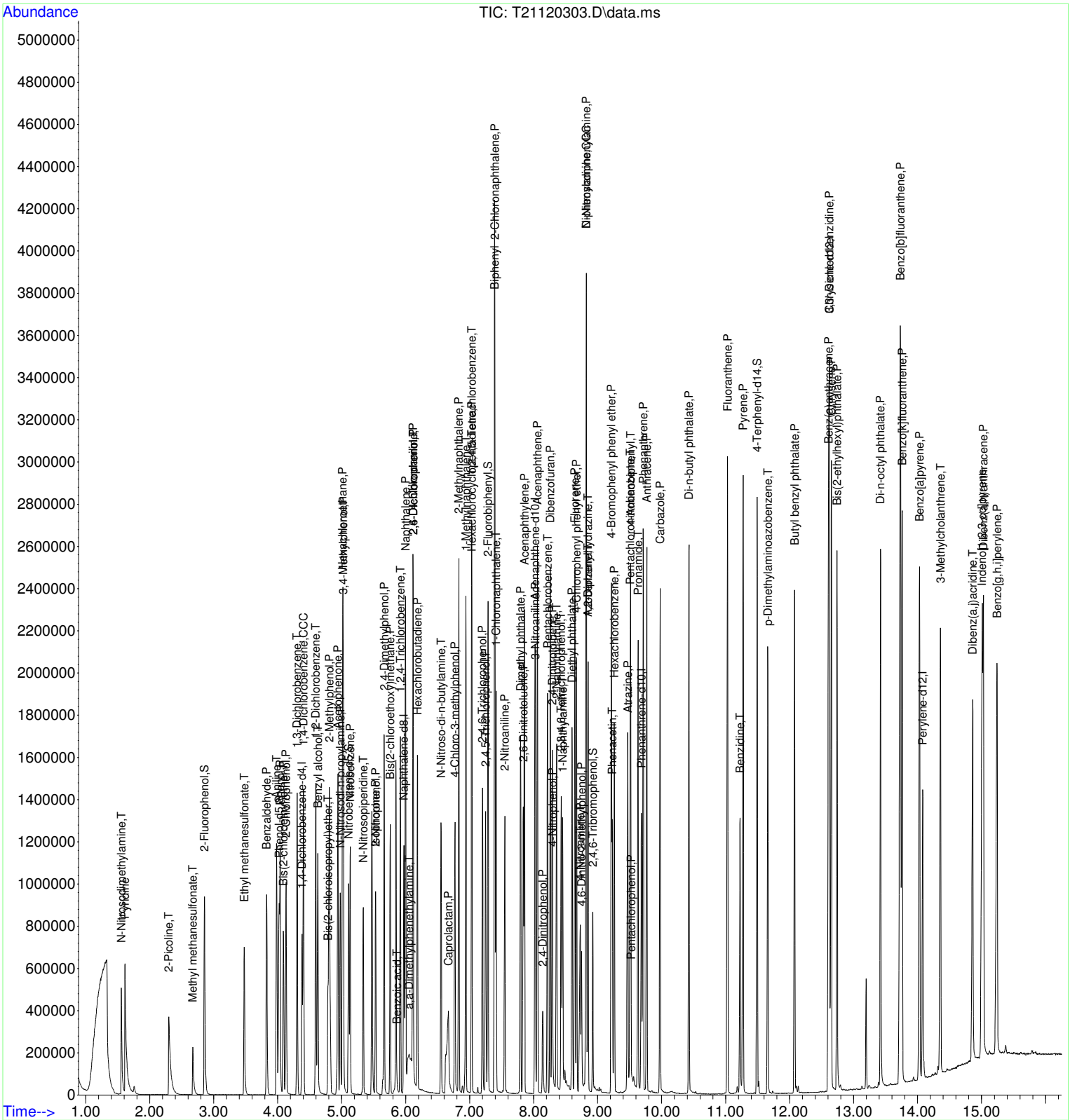
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
107) Benzo[a]pyrene	14.031	252	958010	83.18	ng		98
108) Dibenz(a,j)acridine	14.861	279	760581	76.13	ng		100
109) Indeno[1,2,3-cd]pyrene	15.009	276	1151466	87.34	ng	#	87
110) Dibenz(a,h)anthracene	15.029	278	921287	80.01	ng		99
111) Benzo[g,h,i]perylene	15.242	276	962919	81.09	ng		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\T211203\
Data File : T21120303.D
Acq On : 3 Dec 2021 11:30 am
Operator : YH
Sample : BNA80 982-99/
Misc : ICV 8270C_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 11:11:34 2022
Quant Method : C:\msdchem\1\methods\B112221.M
Quant Title : MS-14 BNA CURVE 8270E/625
QLast Update : Wed Jan 05 10:09:20 2022
Response via : Initial Calibration



Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **1/13/2022 10:33:50**
Prep End Date: **1/13/2022 3:32:16 P**

Prep Batch **328904** Prep Code: **3510_BNA** Technician: **Theodore Tuerke**

Prep Factor Units: **mL / L**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2201A74-001B	Groundwater		1	0	0	1	1.000	1/13/2022	1/13/2022
	Bad emulsion requiring Na2SO4 clean up.								
2201A74-002B	Groundwater		1	0	0	1	1.000	1/13/2022	1/13/2022
	Emulsion requiring Na2SO4 clean up.								
2201A74-003B	Groundwater		0.5	0	0	0.5	1.000	1/13/2022	1/13/2022
	Limited sample. Emulsion requiring Na2SO4clean up.								
2201A74-004B	Groundwater		0.5	0	0	0.5	1.000	1/13/2022	1/13/2022
	Limited sample. Emulsion requiring Na2SO4clean up.								
2201A74-005B	Groundwater		1	0	0	1	1.000	1/13/2022	1/13/2022
	Bad emulsion requiring Na2SO4 clean up.								
2201A74-006B	Groundwater		0.5	0	0	0.5	1.000	1/13/2022	1/13/2022
	Emulsion requiring Na2SO4 clean up.								
2201A74-006BMS	Groundwater		0.5	0	0	0.5	1.000	1/13/2022	1/13/2022
	Emulsion requiring Na2SO4 clean up.								
2201A74-006BMSD	Groundwater		0.5	0	0	0.5	1.000	1/13/2022	1/13/2022
	Emulsion requiring Na2SO4 clean up.								
2201A74-008B	Groundwater		1	0	0	1	1.000	1/13/2022	1/13/2022
	Very bad emulsion requiring Na2SO4 clean up.								
2201A78-001B	Waste Water		1	0	0	1	1.000	1/13/2022	1/13/2022
	Very bad emulsion requiring Na2SO4 clean up.								
LCS-328904			1	0	0	1	1.000	1/13/2022	1/13/2022
MB-328904			1	0	0	1	1.000	1/13/2022	1/13/2022

Injection Log

Directory: C:\MS-7\New\Raw Data\220118

Line	Vial	FileName	Multiplier	SampleName		Misc Info	Injected
1	1	V7103611.D	1.	CCV 8260 20 W (20uL/50mL)		CCV 8260B_W	18 Jan 2022 10:01
2	2	V7103612.D	1.	5 PPB		CCV 8260B_W	18 Jan 2022 10:42
3	3	V7103613.D	1.	1ppb		BLANK	18 Jan 2022 11:06
4	4	V7103614.D	1.	MB-		MBLK 8260B_W	18 Jan 2022 11:31
5	5	V7103615.D	1.	2201H60-003A	1/2	SAMP 8260_TCL4.2_W	18 Jan 2022 11:55
6	6	V7103616.D	1.	2201H60-002A	1/2	SAMP 8260_TCL4.2_W	18 Jan 2022 12:20
7	7	V7103617.D	1.	2201H60-001A	1/2	SAMP 8260_TCL4.2_W	18 Jan 2022 12:45
8	8	V7103618.D	1.	2201G71-001A	1/2	SAMP 8260_TCL4.2_W	18 Jan 2022 13:10
9	9	V7103619.D	1.	2201G71-002A	1/2	SAMP 8260_TCL4.2_W	18 Jan 2022 13:34
10	10	V7103620.D	1.	2201G38-004A	1/2	SAMP 8260_TCL4.2_W	18 Jan 2022 13:59
11	11	V7103621.D	1.	2201G38-005A	1/2	SAMP 8260_TCL4.2_W	18 Jan 2022 14:23
12	12	V7103622.D	1.	LCS-329202		LCS 8260_TCL4.2_W	18 Jan 2022 14:48
13	13	V7103623.D	1.	2201E35-001A	2/2	SAMP 8260B_W	18 Jan 2022 15:12
14	14	V7103624.D	1.	2201E35-004A	2/2	SAMP 8260B_W	18 Jan 2022 15:37
15	15	V7103625.D	1.	2201E35-020A	2/2	SAMP 8260B_W	18 Jan 2022 16:01
16	16	V7103626.D	1.	2201E35-018A	2/2	SAMP 8260B_W	18 Jan 2022 16:25
17	17	V7103627.D	1.	2201E35-033A	2/2	SAMP 8260B_W	18 Jan 2022 16:50
18	18	V7103628.D	1.	2201E35-002A	2/2	SAMP 8260B_W	18 Jan 2022 17:14
19	19	V7103629.D	1.	2201E35-003A	2/2	SAMP 8260B_W	18 Jan 2022 17:39
20	20	V7103630.D	1.	2201E35-015A	2/2	SAMP 8260B_W	18 Jan 2022 18:03
21	21	V7103631.D	1.	2201E35-035A	2/2	SAMP 8260B_W	18 Jan 2022 18:28
22	22	V7103632.D	1.	2201E35-014A	2/2	SAMP 8260B_W	18 Jan 2022 18:53
23	23	V7103633.D	1.	2201E35-016A	2/2	SAMP 8260B_W	18 Jan 2022 19:17
24	24	V7103634.D	1.	2201E35-024A	2/2	SAMP 8260B_W	18 Jan 2022 19:42
25	25	V7103635.D	1.	2201E35-034A	2/2	SAMP 8260B_W	18 Jan 2022 20:06
26	26	V7103636.D	1.	BLANK		SAMP 8260B_W	18 Jan 2022 20:31
27	27	V7103637.D	1.	BLANK		SAMP 8260B_W	18 Jan 2022 20:55
28	28	V7103638.D	1.	BLANK		SAMP 8260B_W	18 Jan 2022 21:20

R: AG

A:

Evaluate Continuing Calibration Report

Data Path : C:\MS-7\New\Raw Data\220118\
Data File : V7103611.D
Acq On : 18 Jan 2022 10:01 am
Operator : ORM
Sample : CCV 8260 20 W (20uL/50mL)
Misc : CCV 8260B_W
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 18 14:53:05 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Jan 18 14:53:04 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	111	0.00
2	T	Dichlorodifluoromethane	20.000	13.864	30.7#	80	0.00
3	pcc	Chloromethane	20.000	16.199	19.0	92	0.00
4	ccc	Vinyl chloride	20.000	16.199	19.0	90	0.00
5	T	Bromomethane	20.000	16.803	16.0	91	0.00
6	T	Chloroethane	20.000	16.897	15.5	96	0.00
7	T	Trichlorofluoromethane	20.000	15.522	22.4#	87	0.00
8	T	Acrolein	20.000	15.025	24.9#	83	0.00
9	Mccc	1,1-Dichloroethene	20.000	21.084	-5.4	128	-0.01
10		Freon-113	20.000	20.138	-0.7	123	-0.01
11	T	Acetone	40.000	37.103	7.2	100	0.00
12	T	Iodomethane	40.000	43.026	-7.6	130	-0.03
13	T	Carbon disulfide	40.000	43.748	-9.4	132	-0.02
14		Methyl acetate	20.000	22.168	-10.8	123	0.00
15	T	Vinyl acetate	40.000	45.032	-12.6	121	-0.01
16	T	Methylene chloride	20.000	21.705	-8.5	119	-0.01
17	T	Acrylonitrile	20.000	19.417	2.9	108	0.00
18		Methyl tert-butyl ether	20.000	21.234	-6.2	121	0.00
19	T	trans-1,2-Dichloroethene	20.000	21.695	-8.5	130	0.00
20	pcc	1,1-Dichloroethane	20.000	21.909	-9.5	128	0.00
21	T	2,2-Dichloropropane	20.000	22.597	-13.0	130	-0.02
22	T	cis-1,2-Dichloroethene	20.000	22.092	-10.5	126	-0.01
23	T	2-Butanone	40.000	41.437	-3.6	112	0.00
24	T	Bromochloromethane	20.000	22.243	-11.2	124	0.00
25	ccc	Chloroform	20.000	21.343	-6.7	123	0.00
26		Cyclohexane	20.000	21.752	-8.8	119	-0.01
27	T	1,1,1-Trichloroethane	20.000	20.244	-1.2	121	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	108	0.00
29	S	Dibromofluoromethane	50.000	47.293	5.4	102	0.00
30	T	1,1-Dichloropropene	20.000	21.727	-8.6	127	0.00
31	T	Carbon tetrachloride	20.000	20.728	-3.6	123	0.00
32	M	Benzene	20.000	22.259	-11.3	129	0.00
33	T	1,2-Dichloroethane	20.000	22.182	-10.9	119	0.00
34	M	Trichloroethene	20.000	21.562	-7.8	125	0.00
35		Methylcyclohexane	20.000	20.595	-3.0	124	0.00
36	ccc	1,2-Dichloropropane	20.000	22.223	-11.1	127	0.00
37	T	Dibromomethane	20.000	22.426	-12.1	123	0.00
38		1,4-Dioxane	200.000	-7.905	104.0#	18	0.00
39	T	Bromodichloromethane	20.000	21.765	-8.8	125	0.00
40	T	2-Chloroethyl vinyl ether	40.000	31.456	21.4#	85	0.00
41	T	cis-1,3-Dichloropropene	20.000	22.379	-11.9	123	0.00
42	T	4-Methyl-2-pentanone	40.000	45.640	-14.1	121	0.00
43	S	Toluene-d8	50.000	45.791	8.4	99	0.00
44	Mccc	Toluene	20.000	20.929	-4.6	118	0.00
45	T	trans-1,3-Dichloropropene	20.000	20.928	-4.6	113	0.00
46	T	1,1,2-Trichloroethane	20.000	21.695	-8.5	118	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	105	0.00
48	T	2-Hexanone	40.000	46.785	-17.0	113	0.00
49	T	Tetrachloroethene	20.000	21.601	-8.0	122	0.00
50	T	1,3-Dichloropropane	20.000	22.685	-13.4	121	0.00
51	T	Dibromochloromethane	20.000	20.821	-4.1	112	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-7\New\Raw Data\220118\
Data File : V7103611.D
Acq On : 18 Jan 2022 10:01 am
Operator : ORM
Sample : CCV 8260 20 W (20uL/50mL)
Misc : CCV 8260B_W
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 18 14:53:05 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Jan 18 14:53:04 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	20.000	22.144	-10.7	116	0.00
53	Mpcc	Chlorobenzene	20.000	22.034	-10.2	123	0.00
54	T	1,1,1,2-Tetrachloroethane	20.000	21.708	-8.5	119	0.00
55	ccc	Ethylbenzene	20.000	22.348	-11.7	123	0.00
56	T	m,p-Xylene	40.000	44.758	-11.9	122	0.00
57	T	o-Xylene	20.000	22.834	-14.2	125	0.00
58	T	Styrene	20.000	23.538	-17.7	123	0.00
59	pcc	Bromoform	20.000	19.452	2.7	102	0.00
60	S	4-Bromofluorobenzene	50.000	45.809	8.4	97	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	99	0.00
62	T	Bromobenzene	20.000	22.941	-14.7	122	0.00
63	pcc	1,1,2,2-Tetrachloroethane	20.000	23.411	-17.1	117	0.00
64	T	1,2,3-Trichloropropane	20.000	25.012	-25.1#	121	0.00
65	T	Isopropylbenzene	20.000	22.968	-14.8	118	0.00
66	T	n-Propylbenzene	20.000	22.978	-14.9	120	0.00
67	T	trans-1,4-Dichloro-2-butene	40.000	29.179	27.1#	72	0.00
68	T	2-Chlorotoluene	20.000	22.676	-13.4	122	0.00
69	T	4-Chlorotoluene	20.000	23.703	-18.5	121	0.00
70	T	1,3,5-Trimethylbenzene	20.000	23.655	-18.3	120	0.00
71	T	tert-Butylbenzene	20.000	24.821	-24.1#	141	0.00
72	T	1,2,4-Trimethylbenzene	20.000	23.521	-17.6	120	0.00
73	T	sec-Butylbenzene	20.000	22.745	-13.7	117	0.00
74	T	1,3-Dichlorobenzene	20.000	22.416	-12.1	116	0.00
75	T	4-Isopropyltoluene	20.000	22.434	-12.2	118	0.00
76	T	1,4-Dichlorobenzene	20.000	22.486	-12.4	116	0.00
77	T	1,2-Dichlorobenzene	20.000	22.213	-11.1	113	0.00
78	T	n-Butylbenzene	20.000	22.460	-12.3	117	0.00
79	T	1,2-Dibromo-3-chloropropane	20.000	21.305	-6.5	111	0.00
80	T	1,2,4-Trichlorobenzene	20.000	22.176	-10.9	111	0.00
81	T	Hexachlorobutadiene	20.000	21.019	-5.1	113	0.00
82	T	Naphthalene	20.000	19.289	3.6	105	0.00
83	T	1,2,3-Trichlorobenzene	20.000	20.832	-4.2	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-7\New\Raw Data\220120\
Data File : V7103670.D
Acq On : 20 Jan 2022 8:24 am
Operator : ORM
Sample : CCV 8260 020 W
Misc : CCV 8260B_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 20 19:18:46 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	145	0.00
2	T	Dichlorodifluoromethane	20.000	16.606	17.0	125	0.00
3	pcc	Chloromethane	20.000	17.871	10.6	133	0.00
4	ccc	Vinyl chloride	20.000	18.783	6.1	137	0.00
5	T	Bromomethane	20.000	18.687	6.6	132	0.00
6	T	Chloroethane	20.000	19.267	3.7	144	0.00
7	T	Trichlorofluoromethane	20.000	19.888	0.6	146	0.00
8	T	Acrolein	20.000	17.359	13.2	125	0.00
9	Mccc	1,1-Dichloroethene	20.000	20.889	-4.4	166	-0.01
10		Freon-113	20.000	19.497	2.5	156	-0.02
11	T	Acetone	40.000	37.903	5.2	134	0.00
12	T	Iodomethane	40.000	38.671	3.3	152	-0.03
13	T	Carbon disulfide	40.000	40.451	-1.1	159	-0.01
14		Methyl acetate	20.000	19.633	1.8	143	0.00
15	T	Vinyl acetate	40.000	40.573	-1.4	142	0.00
16	T	Methylene chloride	20.000	20.276	-1.4	147	-0.02
17	T	Acrylonitrile	20.000	22.488	-12.4	164	-0.01
18		Methyl tert-butyl ether	20.000	19.751	1.2	147	-0.01
19	T	trans-1,2-Dichloroethene	20.000	19.551	2.2	153	0.00
20	pcc	1,1-Dichloroethane	20.000	18.601	7.0	142	0.00
21	T	2,2-Dichloropropane	20.000	19.204	4.0	145	-0.02
22	T	cis-1,2-Dichloroethene	20.000	19.837	0.8	148	-0.01
23	T	2-Butanone	40.000	43.670	-9.2	154	0.00
24	T	Bromochloromethane	20.000	19.426	2.9	141	0.00
25	ccc	Chloroform	20.000	17.967	10.2	136	0.00
26		Cyclohexane	20.000	20.713	-3.6	149	-0.01
27	T	1,1,1-Trichloroethane	20.000	17.695	11.5	139	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	143	0.00
29	S	Dibromofluoromethane	50.000	45.030	9.9	129	-0.01
30	T	1,1-Dichloropropene	20.000	19.968	0.2	155	0.00
31	T	Carbon tetrachloride	20.000	17.746	11.3	140	0.00
32	M	Benzene	20.000	19.179	4.1	148	-0.01
33	T	1,2-Dichloroethane	20.000	17.529	12.4	125	0.00
34	M	Trichloroethene	20.000	18.902	5.5	146	0.00
35		Methylcyclohexane	20.000	19.127	4.4	153	0.00
36	ccc	1,2-Dichloropropane	20.000	18.549	7.3	141	0.00
37	T	Dibromomethane	20.000	18.687	6.6	137	0.00
38		1,4-Dioxane	200.000	463.726	-131.9#	235	-0.03
39	T	Bromodichloromethane	20.000	18.588	7.1	142	0.00
40	T	2-Chloroethyl vinyl ether	40.000	32.527	18.7	116	0.00
41	T	cis-1,3-Dichloropropene	20.000	19.721	1.4	144	0.00
42	T	4-Methyl-2-pentanone	40.000	38.648	3.4	136	0.00
43	S	Toluene-d8	50.000	44.690	10.6	128	0.00
44	Mccc	Toluene	20.000	18.661	6.7	140	0.00
45	T	trans-1,3-Dichloropropene	20.000	19.161	4.2	138	0.00
46	T	1,1,2-Trichloroethane	20.000	18.935	5.3	137	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	133	0.00
48	T	2-Hexanone	40.000	45.319	-13.3	140	0.00
49	T	Tetrachloroethene	20.000	19.942	0.3	143	0.00
50	T	1,3-Dichloropropane	20.000	20.298	-1.5	137	0.00
51	T	Dibromochloromethane	20.000	19.556	2.2	134	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-7\New\Raw Data\220120\
Data File : V7103670.D
Acq On : 20 Jan 2022 8:24 am
Operator : ORM
Sample : CCV 8260 020 W
Misc : CCV 8260B_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 20 19:18:46 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	20.000	20.852	-4.3	139	0.00
53	Mpcc	Chlorobenzene	20.000	19.345	3.3	137	0.00
54	T	1,1,1,2-Tetrachloroethane	20.000	18.927	5.4	132	0.00
55	ccc	Ethylbenzene	20.000	19.904	0.5	139	0.00
56	T	m,p-Xylene	40.000	40.366	-0.9	140	0.00
57	T	o-Xylene	20.000	20.288	-1.4	141	0.00
58	T	Styrene	20.000	20.938	-4.7	140	0.00
59	pcc	Bromoform	20.000	19.983	0.1	133	0.00
60	S	4-Bromofluorobenzene	50.000	44.802	10.4	120	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	122	0.00
62	T	Bromobenzene	20.000	20.322	-1.6	134	0.00
63	pcc	1,1,2,2-Tetrachloroethane	20.000	22.182	-10.9	137	0.00
64	T	1,2,3-Trichloropropane	20.000	20.043	-0.2	120	0.00
65	T	Isopropylbenzene	20.000	21.666	-8.3	137	0.00
66	T	n-Propylbenzene	20.000	21.753	-8.8	140	0.00
67	T	trans-1,4-Dichloro-2-butene	40.000	43.055	-7.6	132	0.00
68	T	2-Chlorotoluene	20.000	20.197	-1.0	134	0.00
69	T	4-Chlorotoluene	20.000	20.904	-4.5	131	0.00
70	T	1,3,5-Trimethylbenzene	20.000	21.485	-7.4	135	0.00
71	T	tert-Butylbenzene	20.000	23.853	-19.3	166	0.00
72	T	1,2,4-Trimethylbenzene	20.000	21.623	-8.1	136	0.00
73	T	sec-Butylbenzene	20.000	21.943	-9.7	139	0.00
74	T	1,3-Dichlorobenzene	20.000	20.307	-1.5	129	0.00
75	T	4-Isopropyltoluene	20.000	21.992	-10.0	142	0.00
76	T	1,4-Dichlorobenzene	20.000	20.319	-1.6	129	0.00
77	T	1,2-Dichlorobenzene	20.000	20.134	-0.7	126	0.00
78	T	n-Butylbenzene	20.000	22.650	-13.2	146	0.00
79	T	1,2-Dibromo-3-chloropropane	20.000	22.636	-13.2	145	0.00
80	T	1,2,4-Trichlorobenzene	20.000	22.882	-14.4	141	0.00
81	T	Hexachlorobutadiene	20.000	23.943	-19.7	159	0.00
82	T	Naphthalene	20.000	20.938	-4.7	142	0.00
83	T	1,2,3-Trichlorobenzene	20.000	22.142	-10.7	133	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

GC/MS QA-QC Check Report

Tune File : C:\MS-7\New\Raw Data\220118\V7103611.D
Tune Time : 18 Jan 2022 10:01 am

Daily Calibration File : C:\MS-7\New\Raw Data\220118\V7103611.D

						363290	575586	524803
						265954		
File	Sample	Surrogate Recovery %				Internal Standard Responses		
V7103611.D								
	CCV 8260	95	92	92		363290	575586	524803
				265954				
V7103614.D								
	MB-	95	91	88		319161	510602	464300
				220625				
V7103615.D								
	2201H60-00	97	93	89		314026	496563	455924
				208382				
V7103616.D								
	2201H60-00	96	91	90		297721	485676	440782
				202720				
V7103617.D								
	2201H60-00	95	91	90		294074	479769	427951
				203294				
V7103618.D								
	2201G71-00	98	91	90		281442	457416	414461
				196562				
V7103619.D								
	2201G71-00	97	93	91		280497	452190	418011
				198452				
V7103620.D								
	2201G38-00	99	90	91		264484	437348	391637
				185594				
V7103621.D								
	2201G38-00	97	93	91		264969	423920	389075
				181770				
V7103622.D								
	LCS-329202	98	94	99		262357	418292	385552
				216516				
V7103623.D								
	2201E35-00	95	94	100		267281	432130	401646
				216573				

(fails) - fails 12hr time check * - fails criteria

Created: Tue Jan 18 15:34:46 2022 MS-7

GC/MS QA-QC Check Report

Tune File : C:\MS-7\New\Raw Data\220120\V7103670.D
Tune Time : 20 Jan 2022 8:24 am

Daily Calibration File : C:\MS-7\New\Raw Data\220120\V7103670.D

475682 765005 666836

327555

File	Sample	Surrogate Recovery %			Internal Standard Responses		
V7103670.D							
	CCV 8260 0	90	89	90	475682	765005	666836
				327555			
V7103672.D							
	MB-	90	90	87	436074	705003	610696
				278322			
V7103673.D							
	2201K35-00	91	90	87	419056	680246	596792
				275559			
V7103674.D							
	2201L15-00	90	90	87	428831	683465	603202
				269096			
V7103675.D							
	2201K57-07	90	89	87	400446	655983	573165
				266113			
V7103676.D							
	2201K57-07	90	91	87	389166	635980	558726
				251578			
V7103677.D							
	2201J62-00	91	91	88	383663	627357	554819
				249533			
V7103678.D							
	2201K67-00	93	91	91	364616	601189	528127
				248010			
V7103679.D							
	2201K35-00	91	90	91	361533	588203	523990
				244746			
V7103680.D							
	2201K67-00	93	92	95	352150	563533	493655
				252984			
V7103681.D							
	2201J62-00	92	92	90	333346	552616	494846
				230045			
V7103682.D							
	2201G62-00	97	95	94	335497	535314	492666
				250228			
V7103683.D							
	2201G62-00	96	93	95	333395	535270	495399
				252263			
V7103684.D							
	2201J18-00	95	93	95	327046	531700	479091
				248522			

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--------------------------------------------------------------------------------
V7103685.D
         2201J18-00   95   94   95          333384     537249     487479
                              245634
--------------------------------------------------------------------------------
V7103687.D
         2201K35-00   93   93   97          318441     520195     445115
                              231651
--------------------------------------------------------------------------------
V7103688.D
         2201K67-00   95   94   98          311854     512981     484550
                              274067
--------------------------------------------------------------------------------
(fails) - fails 12hr time check   * - fails criteria

    Created: Thu Jan 20 19:25:03 2022  MS-7
```

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220118\
Data File : V7103611.D
Acq On : 18 Jan 2022 10:01 am
Operator : ORM
Sample : CCV 8260 20 W (20uL/50mL)
Misc : CCV 8260B_W
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 18 14:53:05 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Jan 18 14:53:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.572	168	363290	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	6.605	114	575586	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.298	117	524803	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	12.304	152	265954	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	5.452	113	198433	47.29	ug/L		0.00
Spiked Amount 50.000	Range 79 - 121		Recovery = 94.58%				
43) Toluene-d8	8.562	98	723117	45.79	ug/L		0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 91.58%				
60) 4-Bromofluorobenzene	11.395	95	293972	45.81	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 91.62%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.194	85	62871	13.86	ug/L		98
3) Chloromethane	1.328	50	62976	16.20	ug/L		88
4) Vinyl chloride	1.414	62	56823	16.20	ug/L		94
5) Bromomethane	1.669	94	42100	16.80	ug/L		97
6) Chloroethane	1.736	64	34126	16.90	ug/L		99
7) Trichlorofluoromethane	1.938	101	88138	15.52	ug/L		97
8) Acrolein	2.305	56	6410	15.02	ug/L	#	71
9) 1,1-Dichloroethene	2.384	96	46920	21.08	ug/L		73
10) Freon-113	2.399	101	53394	20.14	µg/L		93
11) Acetone	2.451	58	8700	37.10	ug/L		98
12) Iodomethane	2.522	142	176813	43.03	ug/L		97
13) Carbon disulfide	2.582	76	341287	43.75	ug/L		100
14) Methyl acetate	2.788	43	51245	22.17	µg/L		94
15) Vinyl acetate	3.847	43	284789	45.03	ug/L		96
16) Methylene chloride	2.881	84	67568	21.71	ug/L		84
17) Acrylonitrile	3.188	53	19576	19.42	ug/L	#	89
18) Methyl tert-butyl ether	3.196	73	186459	21.23	µg/L		96
19) trans-1,2-Dichloroethene	3.188	96	55244	21.69	ug/L		97
20) 1,1-Dichloroethane	3.738	63	125074	21.91	ug/L		99
21) 2,2-Dichloropropane	4.633	77	77487	22.60	ug/L		94
22) cis-1,2-Dichloroethene	4.655	96	60251	22.09	ug/L		90
23) 2-Butanone	4.741	72	10044	41.44	ug/L		65
24) Bromochloromethane	5.037	128	28524	22.24	ug/L	#	62
25) Chloroform	5.202	83	122614	21.34	ug/L		96
26) Cyclohexane	5.482	56	103593	21.75	µg/L		89
27) 1,1,1-Trichloroethane	5.430	97	103657	20.24	ug/L		96
30) 1,1-Dichloropropene	5.688	110	26330	21.73	ug/L		83
31) Carbon tetrachloride	5.669	119	81081	20.73	ug/L		94
32) Benzene	5.991	78	239552	22.26	ug/L		96
33) 1,2-Dichloroethane	6.051	62	107108	22.18	ug/L		96
34) Trichloroethene	6.930	130	54146	21.56	ug/L		92
35) Methylcyclohexane	7.162	55	70435	20.59	µg/L		95
36) 1,2-Dichloropropane	7.245	63	67808	22.22	ug/L		98
37) Dibromomethane	7.398	93	38161	22.43	ug/L		81
38) 1,4-Dioxane	7.484	88	288	Below Cal		#	27
39) Bromodichloromethane	7.641	83	87135	21.77	ug/L		99
40) 2-Chloroethyl vinyl ether	8.098	63	49567	31.46	µg/L		90
41) cis-1,3-Dichloropropene	8.240	75	101122	22.38	ug/L		96
42) 4-Methyl-2-pentanone	8.483	43	128508	45.64	ug/L	#	91
44) Toluene	8.648	92	138964	20.93	ug/L		99
45) trans-1,3-Dichloropropene	8.985	75	85355	20.93	ug/L		97
46) 1,1,2-Trichloroethane	9.202	83	44214	21.69	ug/L		89

Data Path : C:\MS-7\New\Raw Data\220118\
Data File : V7103611.D
Acq On : 18 Jan 2022 10:01 am
Operator : ORM
Sample : CCV 8260 20 W (20uL/50mL)
Misc : CCV 8260B_W
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 18 14:53:05 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Jan 18 14:53:04 2022
Response via : Initial Calibration

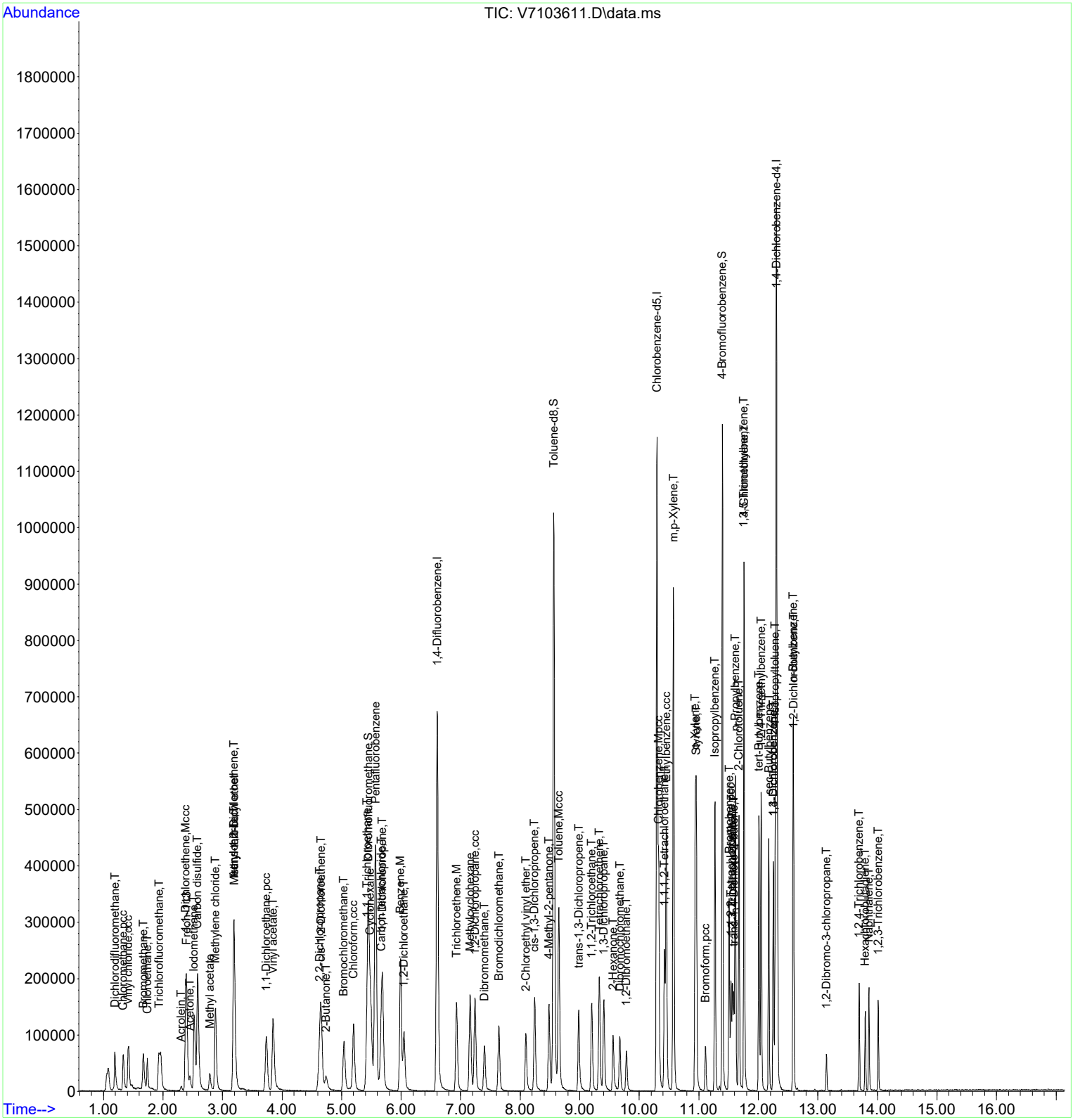
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) 2-Hexanone	9.561	43	79201	46.79 ug/L	96
49) Tetrachloroethene	9.329	166	58614	21.60 ug/L #	83
50) 1,3-Dichloropropane	9.404	76	93093	22.68 ug/L	97
51) Dibromochloromethane	9.674	129	47975	20.82 ug/L	80
52) 1,2-Dibromoethane	9.782	107	48295	22.14 ug/L	92
53) Chlorobenzene	10.328	112	156906	22.03 ug/L	97
54) 1,1,1,2-Tetrachloroethane	10.426	131	56048	21.71 ug/L	99
55) Ethylbenzene	10.452	91	285131	22.35 ug/L	97
56) m,p-Xylene	10.572	91	455124	44.76 ug/L	98
57) o-Xylene	10.938	91	233859	22.83 ug/L	98
58) Styrene	10.957	104	165317	23.54 ug/L	98
59) Bromoform	11.114	173	28439	19.45 ug/L #	89
62) Bromobenzene	11.511	156	65100	22.94 ug/L	93
63) 1,1,2,2-Tetrachloroethane	11.541	83	68312	23.41 ug/L	95
64) 1,2,3-Trichloropropane	11.563	75	62813	25.01 ug/L	88
65) Isopropylbenzene	11.271	105	258962	22.97 ug/L	97
66) n-Propylbenzene	11.612	91	320665	22.98 ug/L	96
67) trans-1,4-Dichloro-2-b...	11.586	124	4537	29.18 ug/L #	14
68) 2-Chlorotoluene	11.672	91	205549	22.68 ug/L	94
69) 4-Chlorotoluene	11.762	91	239699	23.70 ug/L	96
70) 1,3,5-Trimethylbenzene	11.758	105	210392	23.65 ug/L	99
71) tert-Butylbenzene	12.009	119	179979	24.82 ug/L	95
72) 1,2,4-Trimethylbenzene	12.046	105	213345	23.52 ug/L	97
73) sec-Butylbenzene	12.177	105	220440	22.75 ug/L	100
74) 1,3-Dichlorobenzene	12.252	146	109197	22.42 ug/L	98
75) 4-Isopropyltoluene	12.286	119	179336	22.43 ug/L	97
76) 1,4-Dichlorobenzene	12.252	146	109603	22.49 ug/L	98
77) 1,2-Dichlorobenzene	12.592	146	99714	22.21 ug/L	98
78) n-Butylbenzene	12.585	91	154168	22.46 ug/L	98
79) 1,2-Dibromo-3-chloropr...	13.143	75	11291	21.31 ug/L	91
80) 1,2,4-Trichlorobenzene	13.693	180	38285	22.18 ug/L	95
81) Hexachlorobutadiene	13.797	225	19307	21.02 ug/L	93
82) Naphthalene	13.857	128	89736	19.29 ug/L	100
83) 1,2,3-Trichlorobenzene	14.011	180	31577	20.83 ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220118\
Data File : V7103611.D
Acq On : 18 Jan 2022 10:01 am
Operator : ORM
Sample : CCV 8260 20 W (20uL/50mL)
Misc : CCV 8260B_W
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 18 14:53:05 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Jan 18 14:53:04 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220118\
Data File : V7103612.D
Acq On : 18 Jan 2022 10:42 am
Operator : ORM
Sample : 5 PPB
Misc : CCV 8260B_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 18 14:53:29 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Jan 18 14:53:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.568	168	394726	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	6.601	114	620885	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.298	117	552767	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	12.301	152	271366	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	5.445	113	211558	46.74	ug/L		-0.01
Spiked Amount 50.000	Range 79 - 121		Recovery = 93.48%				
43) Toluene-d8	8.562	98	767264	45.04	ug/L		0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 90.08%				
60) 4-Bromofluorobenzene	11.395	95	305123	45.14	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 90.28%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.190	85	25003	5.07	ug/L		89
3) Chloromethane	1.332	50	24355	5.77	ug/L		100
4) Vinyl chloride	1.418	62	22030	5.76	ug/L		86
5) Bromomethane	1.673	94	14789	5.43	ug/L		84
6) Chloroethane	1.740	64	12080	5.50	ug/L		92
7) Trichlorofluoromethane	1.935	101	32808	5.32	ug/L	#	96
8) Acrolein	2.305	56	2484	5.36	ug/L		93
9) 1,1-Dichloroethene	2.376	96	15273	6.32	ug/L		95
10) Freon-113	2.399	101	18163	6.30	µg/L	#	77
11) Acetone	2.458	58	2678	10.51	ug/L		80
12) Iodomethane	2.522	142	52543	11.77	ug/L		99
13) Carbon disulfide	2.582	76	99629	11.75	ug/L		100
14) Methyl acetate	2.780	43	14283	5.69	µg/L		98
15) Vinyl acetate	3.851	43	74467	10.84	ug/L		98
16) Methylene chloride	2.878	84	22125	5.20	ug/L		84
17) Acrylonitrile	3.188	53	6392	5.84	ug/L		93
18) Methyl tert-butyl ether	3.199	73	53858	5.64	µg/L	#	88
19) trans-1,2-Dichloroethene	3.184	96	16876	6.10	ug/L		97
20) 1,1-Dichloroethane	3.735	63	35180	5.67	ug/L		93
21) 2,2-Dichloropropane	4.622	77	22718	6.10	ug/L		91
22) cis-1,2-Dichloroethene	4.648	96	17371	5.86	ug/L		92
23) 2-Butanone	4.749	72	2828	10.74	ug/L	#	50
24) Bromochloromethane	5.037	128	8236	5.91	ug/L		71
25) Chloroform	5.198	83	35324	5.66	ug/L		96
26) Cyclohexane	5.482	56	40021	7.73	µg/L	#	92
27) 1,1,1-Trichloroethane	5.434	97	31248	5.62	ug/L		99
30) 1,1-Dichloropropene	5.688	110	8098	6.19	ug/L	#	48
31) Carbon tetrachloride	5.669	119	24679	5.85	ug/L		90
32) Benzene	5.991	78	70325	6.06	ug/L		98
33) 1,2-Dichloroethane	6.051	62	29324	5.63	ug/L		99
34) Trichloroethene	6.927	130	15040	5.55	ug/L		95
35) Methylcyclohexane	7.155	55	23546	6.38	µg/L		89
36) 1,2-Dichloropropane	7.241	63	17796	5.41	ug/L	#	88
37) Dibromomethane	7.395	93	10457	5.70	ug/L		87
38) 1,4-Dioxane	7.473	88	556	33.26	µg/L	#	11
39) Bromodichloromethane	7.641	83	22887	5.30	ug/L		98
40) 2-Chloroethyl vinyl ether	8.094	63	13586	7.99	µg/L		94
41) cis-1,3-Dichloropropene	8.237	75	26388	5.41	ug/L		90
42) 4-Methyl-2-pentanone	8.483	43	33217	10.94	ug/L	#	84
44) Toluene	8.644	92	40858	5.70	ug/L		95
45) trans-1,3-Dichloropropene	8.981	75	21925	4.98	ug/L		96
46) 1,1,2-Trichloroethane	9.202	83	12081	5.50	ug/L		93

Data Path : C:\MS-7\New\Raw Data\220118\
Data File : V7103612.D
Acq On : 18 Jan 2022 10:42 am
Operator : ORM
Sample : 5 PPB
Misc : CCV 8260B_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 18 14:53:29 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Jan 18 14:53:04 2022
Response via : Initial Calibration

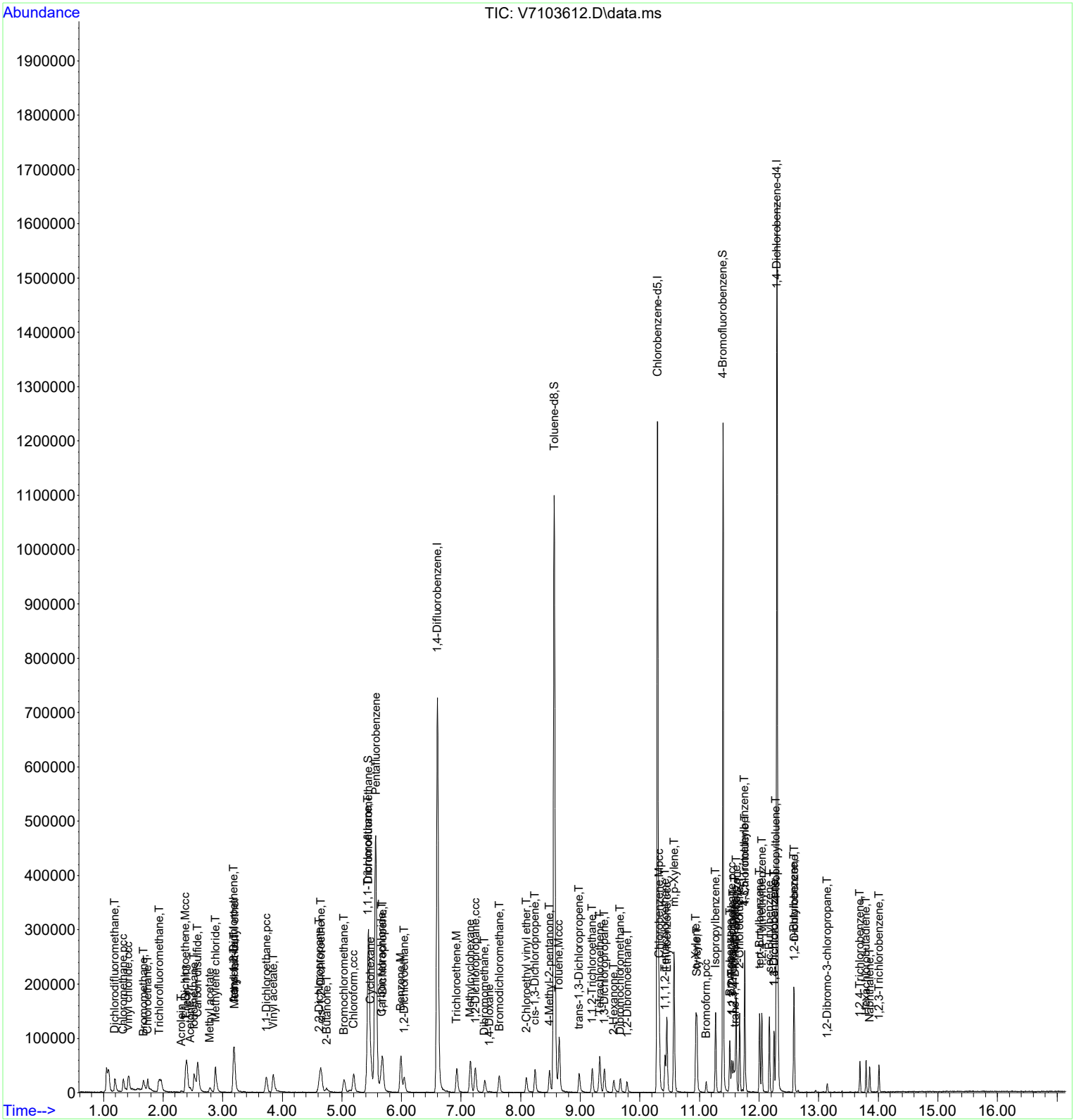
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) 2-Hexanone	9.565	43	20155	11.30 ug/L #	97
49) Tetrachloroethene	9.329	166	17555	6.14 ug/L	87
50) 1,3-Dichloropropane	9.404	76	25574	5.92 ug/L	88
51) Dibromochloromethane	9.666	129	12685	5.23 ug/L	91
52) 1,2-Dibromoethane	9.786	107	13137	5.72 ug/L	98
53) Chlorobenzene	10.325	112	43121	5.75 ug/L	98
54) 1,1,1,2-Tetrachloroethane	10.422	131	14669	5.39 ug/L	96
55) Ethylbenzene	10.452	91	81795	6.09 ug/L	96
56) m,p-Xylene	10.572	91	129741	12.11 ug/L	100
57) o-Xylene	10.938	91	63362	5.87 ug/L	98
58) Styrene	10.957	104	41229	5.57 ug/L	100
59) Bromoform	11.111	173	7167	4.65 ug/L #	91
62) Bromobenzene	11.511	156	17394	6.01 ug/L	98
63) 1,1,2,2-Tetrachloroethane	11.541	83	18674	6.27 ug/L	97
64) 1,2,3-Trichloropropane	11.563	75	24308	9.49 ug/L	98
65) Isopropylbenzene	11.268	105	70765	6.15 ug/L	99
66) n-Propylbenzene	11.616	91	90270	6.34 ug/L	97
67) trans-1,4-Dichloro-2-b...	11.593	124	1147	7.23 ug/L	80
68) 2-Chlorotoluene	11.672	91	56910	6.15 ug/L	90
69) 4-Chlorotoluene	11.762	91	66978	6.49 ug/L	99
70) 1,3,5-Trimethylbenzene	11.758	105	56864	6.27 ug/L	99
71) tert-Butylbenzene	12.009	119	51421	6.95 ug/L	98
72) 1,2,4-Trimethylbenzene	12.046	105	60856	6.58 ug/L	98
73) sec-Butylbenzene	12.173	105	65401	6.61 ug/L	98
74) 1,3-Dichlorobenzene	12.252	146	29622	5.96 ug/L	99
75) 4-Isopropyltoluene	12.286	119	53269	6.53 ug/L	99
76) 1,4-Dichlorobenzene	12.252	146	29706	5.97 ug/L	99
77) 1,2-Dichlorobenzene	12.592	146	28541	6.23 ug/L	89
78) n-Butylbenzene	12.585	91	46318	6.61 ug/L	98
79) 1,2-Dibromo-3-chloropr...	13.146	75	3061	5.66 ug/L	84
80) 1,2,4-Trichlorobenzene	13.693	180	11467	6.51 ug/L	95
81) Hexachlorobutadiene	13.797	225	8090	8.87 ug/L #	69
82) Naphthalene	13.857	128	25214	6.92 ug/L	100
83) 1,2,3-Trichlorobenzene	14.011	180	9523	6.16 ug/L	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220118\
Data File : V7103612.D
Acq On : 18 Jan 2022 10:42 am
Operator : ORM
Sample : 5 PPB
Misc : CCV 8260B_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 18 14:53:29 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Jan 18 14:53:04 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220118\
Data File : V7103613.D
Acq On : 18 Jan 2022 11:06 am
Operator : ORM
Sample : 1ppb
Misc : BLANK
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 18 15:37:52 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.568	168	342313	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	6.605	114	555709	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.299	117	491616	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	12.304	152	237778	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	5.452	113	187492	46.28	ug/L		0.00
Spiked Amount 50.000	Range 79 - 121		Recovery = 92.56%				
43) Toluene-d8	8.566	98	689306	45.21	ug/L		0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 90.42%				
60) 4-Bromofluorobenzene	11.395	95	270052	44.92	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 89.84%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.190	85	4807	1.12	ug/L		100
3) Chloromethane	1.336	50	5178	1.41	ug/L		79
4) Vinyl chloride	1.418	62	4045	1.22	ug/L		98
5) Bromomethane	1.661	94	3724	1.58	ug/L		84
6) Chloroethane	1.736	64	2679	1.41	ug/L		93
7) Trichlorofluoromethane	1.950	101	6486	1.21	ug/L		97
8) Acrolein	0.000		0	N.D.			
9) 1,1-Dichloroethene	2.391	96	2766	1.32	ug/L		75
10) Freon-113	2.406	101	3300	1.32	µg/L	#	70
11) Acetone	2.447	58	565	2.56	ug/L	#	11
12) Iodomethane	2.526	142	9702	2.51	ug/L		89
13) Carbon disulfide	2.586	76	19856	2.70	ug/L		100
14) Methyl acetate	2.788	43	3330	1.53	µg/L	#	83
15) Vinyl acetate	3.862	43	11586	1.94	ug/L		98
16) Methylene chloride	2.878	84	7995	1.05	ug/L	#	66
17) Acrylonitrile	0.000		0	N.D.	d		
18) Methyl tert-butyl ether	3.199	73	10390	1.26	µg/L		88
19) trans-1,2-Dichloroethene	3.188	96	3082	1.28	ug/L		98
20) 1,1-Dichloroethane	3.750	63	7104	1.32	ug/L	#	82
21) 2,2-Dichloropropane	4.636	77	4616	1.43	ug/L	#	58
22) cis-1,2-Dichloroethene	4.663	96	3134	1.22	ug/L		89
23) 2-Butanone	4.756	72	134	0.59	ug/L		55
24) Bromochloromethane	5.052	128	1351	1.12	ug/L	#	63
25) Chloroform	5.202	83	6876	1.27	ug/L		98
26) Cyclohexane	5.568	56	15139	3.37	µg/L	#	29
27) 1,1,1-Trichloroethane	5.434	97	6385	1.32	ug/L		87
30) 1,1-Dichloropropene	5.681	110	1637	1.40	ug/L	#	71
31) Carbon tetrachloride	5.669	119	4455	1.18	ug/L		75
32) Benzene	5.995	78	14087	1.36	ug/L	#	80
33) 1,2-Dichloroethane	6.055	62	5349	1.15	ug/L	#	95
34) Trichloroethene	6.931	130	3088	1.27	ug/L		79
35) Methylcyclohexane	7.155	55	4193	1.27	µg/L	#	91
36) 1,2-Dichloropropane	7.249	63	3525	1.20	ug/L	#	88
37) Dibromomethane	7.406	93	1956	1.19	ug/L		92
38) 1,4-Dioxane	0.000		0	N.D.	d		
39) Bromodichloromethane	7.645	83	4615	1.19	ug/L		87
40) 2-Chloroethyl vinyl ether	8.106	63	2214	1.46	µg/L	#	88
41) cis-1,3-Dichloropropene	8.244	75	4578	1.05	ug/L	#	76
42) 4-Methyl-2-pentanone	8.487	43	5942	2.19	ug/L	#	82
44) Toluene	8.644	92	7683	1.20	ug/L		89
45) trans-1,3-Dichloropropene	8.981	75	3796	0.96	ug/L	#	83
46) 1,1,2-Trichloroethane	9.210	83	2384	1.21	ug/L		97

Data Path : C:\MS-7\New\Raw Data\220118\
Data File : V7103613.D
Acq On : 18 Jan 2022 11:06 am
Operator : ORM
Sample : 1ppb
Misc : BLANK
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 18 15:37:52 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration

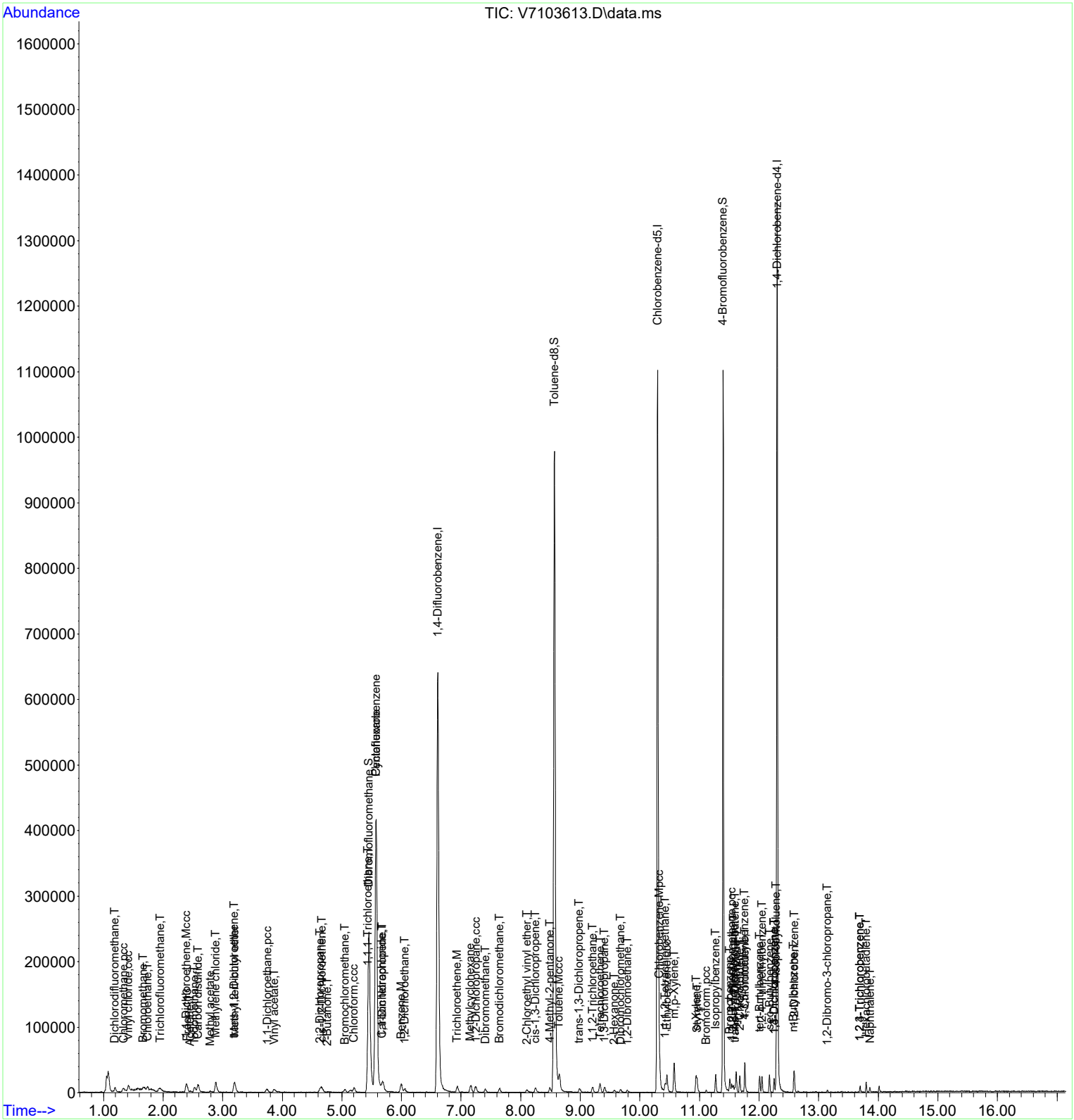
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) 2-Hexanone	9.573	43	2798	1.76 ug/L #	61
49) Tetrachloroethene	9.333	166	3737	1.47 ug/L	95
50) 1,3-Dichloropropane	9.404	76	4682	1.22 ug/L #	53
51) Dibromochloromethane	9.674	129	2467	1.14 ug/L	89
52) 1,2-Dibromoethane	9.790	107	2591	1.27 ug/L #	80
53) Chlorobenzene	10.325	112	8902	1.33 ug/L	97
54) 1,1,1,2-Tetrachloroethane	10.426	131	2866	1.18 ug/L	88
55) Ethylbenzene	10.452	91	15610	1.31 ug/L	92
56) m,p-Xylene	10.572	91	23803	2.50 ug/L	94
57) o-Xylene	10.942	91	11467	1.20 ug/L	96
58) Styrene	10.957	104	6834	1.04 ug/L	89
59) Bromoform	11.114	173	1432	1.05 ug/L #	67
62) Bromobenzene	11.507	156	3853	1.52 ug/L	95
63) 1,1,2,2-Tetrachloroethane	11.545	83	3728	1.43 ug/L #	65
64) 1,2,3-Trichloropropane	11.571	75	3996	1.78 ug/L	90
65) Isopropylbenzene	11.272	105	13134	1.30 ug/L	94
66) n-Propylbenzene	11.616	91	16286	1.31 ug/L	97
67) trans-1,4-Dichloro-2-b...	11.597	124	38	0.27 ug/L	82
68) 2-Chlorotoluene	11.676	91	11652	1.44 ug/L	98
69) 4-Chlorotoluene	11.765	91	12239	1.35 ug/L	97
70) 1,3,5-Trimethylbenzene	11.758	105	10652	1.34 ug/L	98
71) tert-Butylbenzene	12.012	119	8301	1.28 ug/L	95
72) 1,2,4-Trimethylbenzene	12.050	105	10199	1.26 ug/L	96
73) sec-Butylbenzene	12.177	105	12212	1.41 ug/L	92
74) 1,3-Dichlorobenzene	12.256	146	5609	1.29 ug/L	92
75) 4-Isopropyltoluene	12.286	119	9235	1.29 ug/L	94
76) 1,4-Dichlorobenzene	12.256	146	5608	1.29 ug/L	92
77) 1,2-Dichlorobenzene	12.593	146	5399	1.35 ug/L	94
78) n-Butylbenzene	12.581	91	8504	1.39 ug/L	93
79) 1,2-Dibromo-3-chloropr...	13.146	75	671	1.42 ug/L #	65
80) 1,2,4-Trichlorobenzene	13.693	180	2008	1.30 ug/L	99
81) Hexachlorobutadiene	13.798	225	2044	2.85 ug/L	81
82) Naphthalene	13.861	128	3998	3.07 ug/L	100
83) 1,2,3-Trichlorobenzene	13.693	180	2100	1.55 ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220118\
Data File : V7103613.D
Acq On : 18 Jan 2022 11:06 am
Operator : ORM
Sample : 1ppb
Misc : BLANK
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 18 15:37:52 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220118\
Data File : V7103614.D
Acq On : 18 Jan 2022 11:31 am
Operator : ORM
Sample : MB-
Misc : MBLK 8260B_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 18 14:54:11 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Jan 18 14:53:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.576	168	319161	50.00	ug/L	0.00
28) 1,4-Difluorobenzene	6.609	114	510602	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.298	117	464300	50.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.304	152	220625	50.00	ug/L	0.00
System Monitoring Compounds						
29) Dibromofluoromethane	5.452	113	177658	47.73	ug/L	0.00
Spiked Amount 50.000	Range 79 - 121		Recovery = 95.46%			
43) Toluene-d8	8.566	98	639922	45.68	ug/L	0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 91.36%			
60) 4-Bromofluorobenzene	11.395	95	250951	44.20	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 88.40%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Acrolein	0.000		0	N.D.		
9) 1,1-Dichloroethene	0.000		0	N.D.		
10) Freon-113	0.000		0	N.D.		
11) Acetone	0.000		0	N.D.		
12) Iodomethane	0.000		0	N.D.		
13) Carbon disulfide	0.000		0	N.D.		
14) Methyl acetate	0.000		0	N.D.		
15) Vinyl acetate	0.000		0	N.D.		
16) Methylene chloride	2.878	84	1668	Below Cal	#	70
17) Acrylonitrile	0.000		0	N.D.		
18) Methyl tert-butyl ether	0.000		0	N.D.		
19) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) 1,1-Dichloroethane	0.000		0	N.D.		
21) 2,2-Dichloropropane	0.000		0	N.D.		
22) cis-1,2-Dichloroethene	0.000		0	N.D.		
23) 2-Butanone	0.000		0	N.D.		
24) Bromochloromethane	0.000		0	N.D.		
25) Chloroform	0.000		0	N.D.		
26) Cyclohexane	0.000		0	N.D. d		
27) 1,1,1-Trichloroethane	0.000		0	N.D.		
30) 1,1-Dichloropropene	0.000		0	N.D. d		
31) Carbon tetrachloride	0.000		0	N.D. d		
32) Benzene	0.000		0	N.D.		
33) 1,2-Dichloroethane	0.000		0	N.D.		
34) Trichloroethene	0.000		0	N.D.		
35) Methylcyclohexane	0.000		0	N.D.		
36) 1,2-Dichloropropane	0.000		0	N.D.		
37) Dibromomethane	0.000		0	N.D.		
38) 1,4-Dioxane	0.000		0	N.D.		
39) Bromodichloromethane	0.000		0	N.D.		
40) 2-Chloroethyl vinyl ether	0.000		0	N.D.		
41) cis-1,3-Dichloropropene	0.000		0	N.D.		
42) 4-Methyl-2-pentanone	0.000		0	N.D. d		
44) Toluene	0.000		0	N.D.		
45) trans-1,3-Dichloropropene	0.000		0	N.D.		
46) 1,1,2-Trichloroethane	0.000		0	N.D.		

Data Path : C:\MS-7\New\Raw Data\220118\
Data File : V7103614.D
Acq On : 18 Jan 2022 11:31 am
Operator : ORM
Sample : MB-
Misc : MBLK 8260B_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 18 14:54:11 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Jan 18 14:53:04 2022
Response via : Initial Calibration

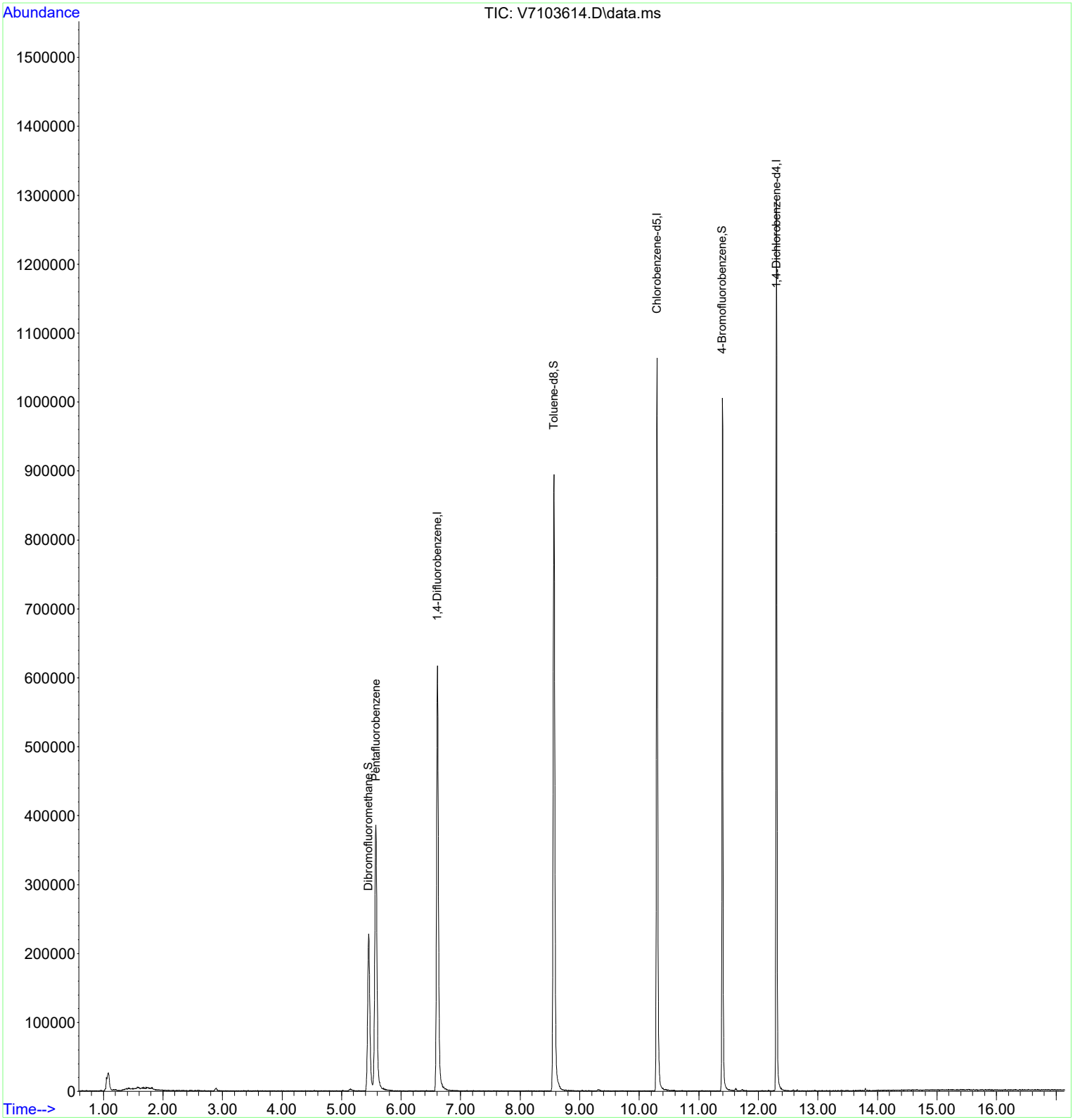
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) 2-Hexanone	0.000		0	N.D.	
49) Tetrachloroethene	0.000		0	N.D.	
50) 1,3-Dichloropropane	0.000		0	N.D.	
51) Dibromochloromethane	0.000		0	N.D.	
52) 1,2-Dibromoethane	0.000		0	N.D.	
53) Chlorobenzene	0.000		0	N.D.	
54) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
55) Ethylbenzene	0.000		0	N.D.	
56) m,p-Xylene	0.000		0	N.D.	
57) o-Xylene	0.000		0	N.D.	
58) Styrene	0.000		0	N.D.	
59) Bromoform	0.000		0	N.D.	
62) Bromobenzene	0.000		0	N.D.	
63) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
64) 1,2,3-Trichloropropane	0.000		0	N.D.	d
65) Isopropylbenzene	0.000		0	N.D.	
66) n-Propylbenzene	0.000		0	N.D.	
67) trans-1,4-Dichloro-2-b...	0.000		0	N.D.	
68) 2-Chlorotoluene	0.000		0	N.D.	
69) 4-Chlorotoluene	0.000		0	N.D.	
70) 1,3,5-Trimethylbenzene	0.000		0	N.D.	
71) tert-Butylbenzene	0.000		0	N.D.	
72) 1,2,4-Trimethylbenzene	0.000		0	N.D.	
73) sec-Butylbenzene	0.000		0	N.D.	
74) 1,3-Dichlorobenzene	0.000		0	N.D.	
75) 4-Isopropyltoluene	0.000		0	N.D.	
76) 1,4-Dichlorobenzene	0.000		0	N.D.	
77) 1,2-Dichlorobenzene	0.000		0	N.D.	
78) n-Butylbenzene	0.000		0	N.D.	
79) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
80) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
81) Hexachlorobutadiene	0.000		0	N.D.	
82) Naphthalene	0.000		0	N.D.	
83) 1,2,3-Trichlorobenzene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220118\
Data File : V7103614.D
Acq On : 18 Jan 2022 11:31 am
Operator : ORM
Sample : MB-
Misc : MBLK 8260B_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 18 14:54:11 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Jan 18 14:53:04 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220118\
Data File : V7103622.D
Acq On : 18 Jan 2022 2:48 pm
Operator : ORM
Sample : LCS-329202
Misc : LCS 8260_TCL4.2_W
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 18 15:33:44 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Jan 18 14:53:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	262357	50.00	ug/L	0.00
28) 1,4-Difluorobenzene	6.605	114	418292	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.295	117	385552	50.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.304	152	216516	50.00	ug/L	0.00
System Monitoring Compounds						
29) Dibromofluoromethane	5.449	113	149343	48.98	ug/L	0.00
Spiked Amount 50.000	Range 79 - 121		Recovery = 97.96%			
43) Toluene-d8	8.562	98	540910	47.13	ug/L	0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 94.26%			
60) 4-Bromofluorobenzene	11.395	95	233543	49.54	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 99.08%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.190	85	59169	18.07	ug/L	94
3) Chloromethane	1.328	50	56842	20.25	ug/L	98
4) Vinyl chloride	1.415	62	52903	20.89	ug/L	99
5) Bromomethane	1.665	94	41014	22.67	ug/L	98
6) Chloroethane	1.733	64	30363	20.82	ug/L	99
7) Trichlorofluoromethane	1.938	101	92328	22.52	ug/L	95
8) Acrolein	0.000		0	N.D.		
9) 1,1-Dichloroethene	2.380	96	37958	23.62	ug/L #	62
10) Freon-113	2.399	101	43998	22.98	µg/L #	83
11) Acetone	2.447	58	7520	44.41	ug/L	97
12) Iodomethane	2.526	142	134374	45.28	ug/L	91
13) Carbon disulfide	2.578	76	269663	47.87	ug/L	100
14) Methyl acetate	2.784	43	42122	25.23	µg/L	94
15) Vinyl acetate	3.851	43	225862	49.45	ug/L	97
16) Methylene chloride	2.878	84	47845	21.25	ug/L	87
17) Acrylonitrile	0.000		0	N.D. d		
18) Methyl tert-butyl ether	3.192	73	146905	23.17	µg/L #	91
19) trans-1,2-Dichloroethene	3.188	96	43005	23.39	ug/L	89
20) 1,1-Dichloroethane	3.735	63	100656	24.41	ug/L	97
21) 2,2-Dichloropropane	4.633	77	75320	30.42	ug/L	90
22) cis-1,2-Dichloroethene	4.655	96	44410	22.55	ug/L	93
23) 2-Butanone	4.730	72	7422	42.40	ug/L	75
24) Bromochloromethane	5.041	128	21112	22.80	ug/L #	69
25) Chloroform	5.202	83	102544	24.72	ug/L	92
26) Cyclohexane	5.486	56	87753	25.51	µg/L	89
27) 1,1,1-Trichloroethane	5.430	97	93890	25.39	ug/L	96
30) 1,1-Dichloropropene	5.696	110	20596	23.39	ug/L	76
31) Carbon tetrachloride	5.666	119	72458	25.49	ug/L	95
32) Benzene	5.991	78	185414	23.71	ug/L	100
33) 1,2-Dichloroethane	6.051	62	93424	26.62	ug/L	98
34) Trichloroethene	6.934	130	43024	23.58	ug/L	90
35) Methylcyclohexane	7.163	55	60134	24.19	µg/L	91
36) 1,2-Dichloropropane	7.241	63	51617	23.28	ug/L	97
37) Dibromomethane	7.402	93	30104	24.34	ug/L	79
38) 1,4-Dioxane	7.484	88	195	Below Cal	#	27
39) Bromodichloromethane	7.645	83	72352	24.87	ug/L	96
40) 2-Chloroethyl vinyl ether	8.091	63	35788	31.25	µg/L #	92
41) cis-1,3-Dichloropropene	8.240	75	77472	23.59	ug/L	89
42) 4-Methyl-2-pentanone	8.487	43	102809	50.24	ug/L #	86
44) Toluene	8.648	92	113083	23.44	ug/L	97
45) trans-1,3-Dichloropropene	8.981	75	71112	23.99	ug/L	93
46) 1,1,2-Trichloroethane	9.202	83	35711	24.11	ug/L	89

Data Path : C:\MS-7\New\Raw Data\220118\
Data File : V7103622.D
Acq On : 18 Jan 2022 2:48 pm
Operator : ORM
Sample : LCS-329202
Misc : LCS 8260_TCL4.2_W
ALS Vial : 12 Sample Multiplier: 1

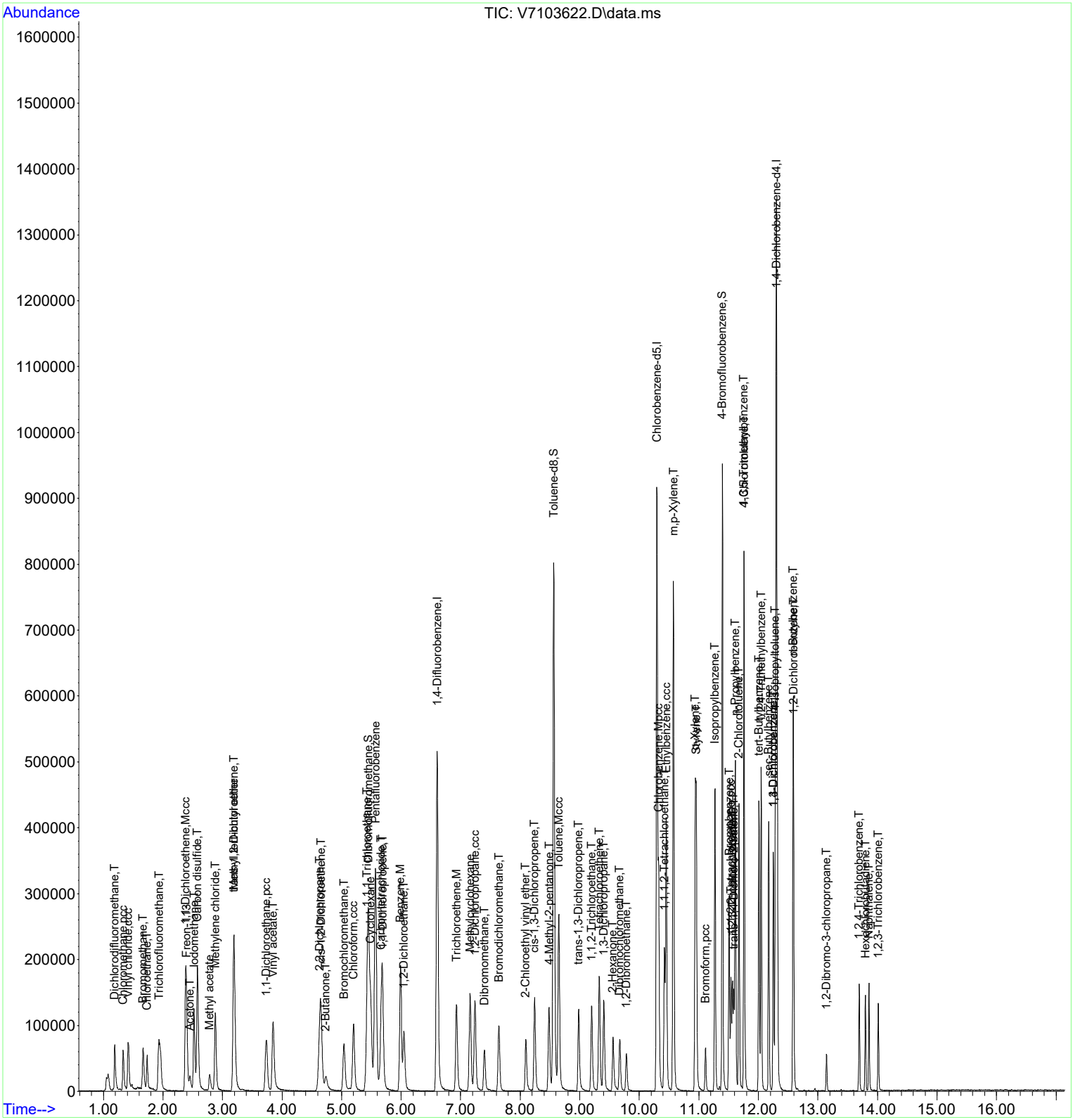
Quant Time: Jan 18 15:33:44 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Jan 18 14:53:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) 2-Hexanone	9.558	43	66278	53.29 ug/L #	86
49) Tetrachloroethene	9.326	166	47611	23.88 ug/L #	79
50) 1,3-Dichloropropane	9.400	76	72704	24.11 ug/L	98
51) Dibromochloromethane	9.670	129	39047	23.07 ug/L	93
52) 1,2-Dibromoethane	9.782	107	38587	24.08 ug/L	98
53) Chlorobenzene	10.325	112	123644	23.63 ug/L	95
54) 1,1,1,2-Tetrachloroethane	10.426	131	47010	24.78 ug/L	96
55) Ethylbenzene	10.452	91	237196	25.31 ug/L	97
56) m,p-Xylene	10.572	91	382477	51.20 ug/L	99
57) o-Xylene	10.939	91	196195	26.08 ug/L	96
58) Styrene	10.957	104	131792	25.54 ug/L	97
59) Bromoform	11.114	173	22753	21.18 ug/L	96
62) Bromobenzene	11.511	156	52115	22.56 ug/L	98
63) 1,1,2,2-Tetrachloroethane	11.541	83	56714	23.87 ug/L	100
64) 1,2,3-Trichloropropane	11.567	75	47816	23.39 ug/L	94
65) Isopropylbenzene	11.272	105	221225	24.10 ug/L	97
66) n-Propylbenzene	11.612	91	277108	24.39 ug/L	99
67) trans-1,4-Dichloro-2-b...	11.590	124	3674	29.02 ug/L #	24
68) 2-Chlorotoluene	11.672	91	175041	23.72 ug/L	92
69) 4-Chlorotoluene	11.762	91	206971	25.14 ug/L	97
70) 1,3,5-Trimethylbenzene	11.758	105	182504	25.20 ug/L	98
71) tert-Butylbenzene	12.009	119	160885	27.25 ug/L	99
72) 1,2,4-Trimethylbenzene	12.046	105	188918	25.58 ug/L	97
73) sec-Butylbenzene	12.173	105	196148	24.86 ug/L	100
74) 1,3-Dichlorobenzene	12.252	146	90372	22.79 ug/L	95
75) 4-Isopropyltoluene	12.286	119	163950	25.19 ug/L	98
76) 1,4-Dichlorobenzene	12.252	146	90786	22.88 ug/L	95
77) 1,2-Dichlorobenzene	12.593	146	83219	22.77 ug/L	94
78) n-Butylbenzene	12.585	91	139187	24.91 ug/L	99
79) 1,2-Dibromo-3-chloropr...	13.143	75	10904	25.27 ug/L	89
80) 1,2,4-Trichlorobenzene	13.693	180	31662	22.53 ug/L	96
81) Hexachlorobutadiene	13.801	225	18095	24.14 ug/L	96
82) Naphthalene	13.857	128	75836	19.94 ug/L	100
83) 1,2,3-Trichlorobenzene	14.015	180	24466	19.83 ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MS-7\New\Raw Data\220118\
Data File : V7103622.D
Acq On : 18 Jan 2022 2:48 pm
Operator : ORM
Sample : LCS-329202
Misc : LCS 8260_TCL4.2_W
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 18 15:33:44 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Jan 18 14:53:04 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220120\
Data File : V7103670.D
Acq On : 20 Jan 2022 8:24 am
Operator : ORM
Sample : CCV 8260 020 W
Misc : CCV 8260B_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 20 19:18:46 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.568	168	475682	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	6.605	114	765005	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.299	117	666836	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	12.304	152	327555	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	5.445	113	251112	45.03	ug/L		-0.01
Spiked Amount 50.000	Range 79 - 121		Recovery = 90.06%				
43) Toluene-d8	8.562	98	937991	44.69	ug/L		0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 89.38%				
60) 4-Bromofluorobenzene	11.395	95	365322	44.80	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 89.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.186	85	98605	16.61	ug/L		99
3) Chloromethane	1.328	50	90969	17.87	ug/L		92
4) Vinyl chloride	1.411	62	86754	18.78	ug/L		91
5) Bromomethane	1.669	94	61306	18.69	ug/L		97
6) Chloroethane	1.736	64	50953	19.27	ug/L		92
7) Trichlorofluoromethane	1.938	101	147867	19.89	ug/L	#	95
8) Acrolein	2.301	56	9697	17.36	ug/L	#	70
9) 1,1-Dichloroethene	2.384	96	60867	20.89	ug/L		92
10) Freon-113	2.391	101	67686	19.50	µg/L		88
11) Acetone	2.447	58	11637	37.90	ug/L		98
12) Iodomethane	2.522	142	208082	38.67	ug/L		97
13) Carbon disulfide	2.582	76	413190	40.45	ug/L		100
14) Methyl acetate	2.788	43	59424	19.63	µg/L		99
15) Vinyl acetate	3.851	43	335972	40.57	ug/L		98
16) Methylene chloride	2.878	84	83120	20.28	ug/L		94
17) Acrylonitrile	3.181	53	29687	22.49	ug/L		98
18) Methyl tert-butyl ether	3.192	73	227094	19.75	µg/L		97
19) trans-1,2-Dichloroethene	3.185	96	65188	19.55	ug/L		92
20) 1,1-Dichloroethane	3.738	63	139040	18.60	ug/L		98
21) 2,2-Dichloropropane	4.633	77	86224	19.20	ug/L		98
22) cis-1,2-Dichloroethene	4.651	96	70836	19.84	ug/L		92
23) 2-Butanone	4.734	72	13860	43.67	ug/L		54
24) Bromochloromethane	5.044	128	32618	19.43	ug/L	#	69
25) Chloroform	5.202	83	135150	17.97	ug/L		93
26) Cyclohexane	5.482	56	129163	20.71	µg/L		98
27) 1,1,1-Trichloroethane	5.430	97	118635	17.69	ug/L		96
30) 1,1-Dichloropropene	5.688	110	32161	19.97	ug/L		85
31) Carbon tetrachloride	5.666	119	92263	17.75	ug/L		92
32) Benzene	5.987	78	274329	19.18	ug/L		99
33) 1,2-Dichloroethane	6.051	62	112495	17.53	ug/L	#	94
34) Trichloroethene	6.931	130	63086	18.90	ug/L		96
35) Methylcyclohexane	7.163	55	86941	19.13	µg/L	#	92
36) 1,2-Dichloropropane	7.237	63	75226	18.55	ug/L		99
37) Dibromomethane	7.402	93	42262	18.69	ug/L		87
38) 1,4-Dioxane	7.462	88	3846	463.73	µg/L	#	71
39) Bromodichloromethane	7.642	83	98903	18.59	ug/L		92
40) 2-Chloroethyl vinyl ether	8.094	63	68122	32.53	µg/L		99
41) cis-1,3-Dichloropropene	8.244	75	118435	19.72	ug/L		94
42) 4-Methyl-2-pentanone	8.484	43	144632	38.65	ug/L		95
44) Toluene	8.648	92	164683	18.66	ug/L		93
45) trans-1,3-Dichloropropene	8.981	75	103868	19.16	ug/L		98
46) 1,1,2-Trichloroethane	9.202	83	51290	18.94	ug/L		92

Data Path : C:\MS-7\New\Raw Data\220120\
Data File : V7103670.D
Acq On : 20 Jan 2022 8:24 am
Operator : ORM
Sample : CCV 8260 020 W
Misc : CCV 8260B_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 20 19:18:46 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration

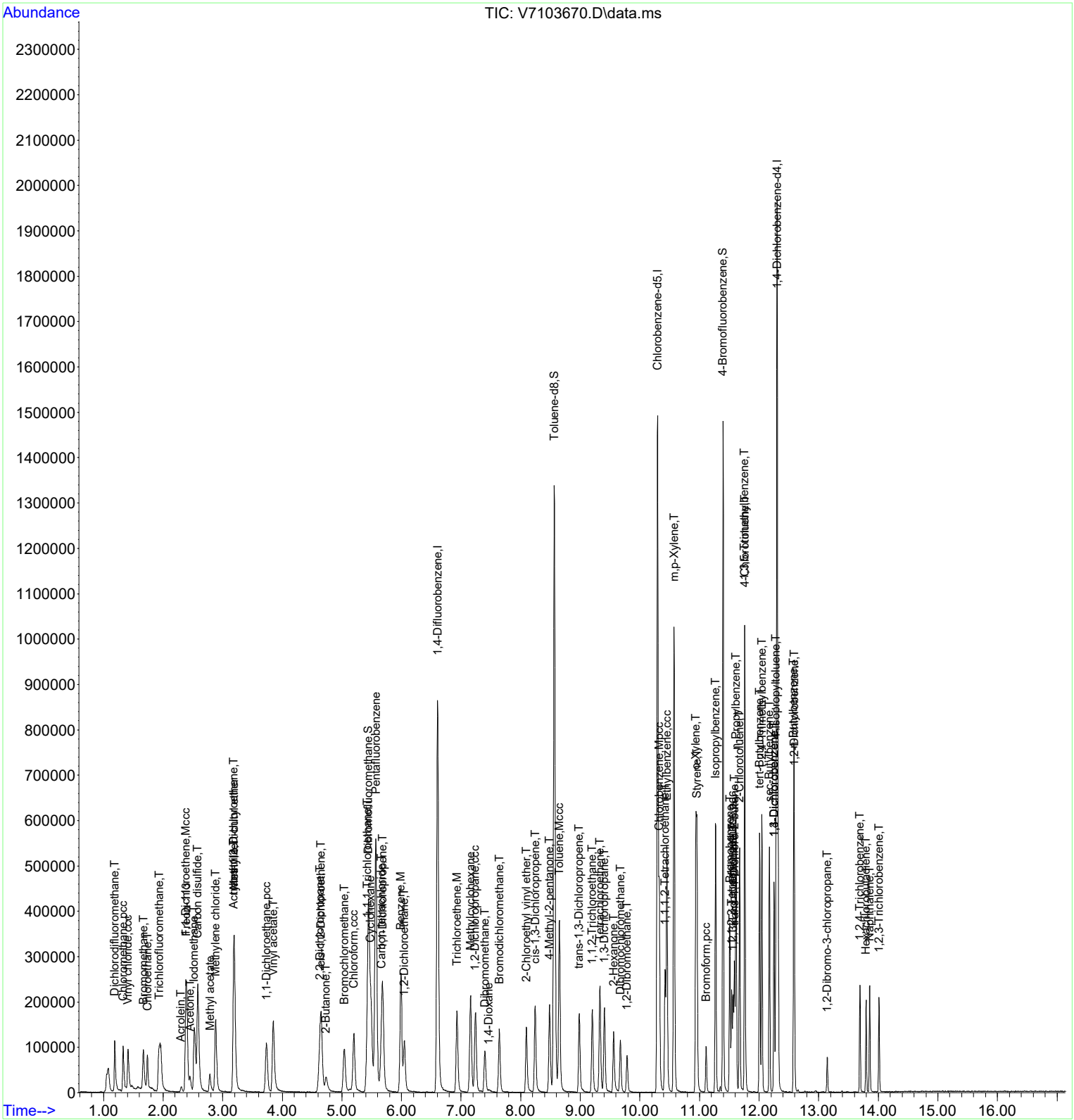
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Hexanone	9.561	43	97483	45.32	ug/L		99
49) Tetrachloroethene	9.329	166	68758	19.94	ug/L	#	82
50) 1,3-Dichloropropane	9.404	76	105842	20.30	ug/L		93
51) Dibromochloromethane	9.674	129	57254	19.56	ug/L		94
52) 1,2-Dibromoethane	9.782	107	57786	20.85	ug/L		94
53) Chlorobenzene	10.325	112	175039	19.34	ug/L		99
54) 1,1,1,2-Tetrachloroethane	10.422	131	62091	18.93	ug/L		97
55) Ethylbenzene	10.452	91	322684	19.90	ug/L		96
56) m,p-Xylene	10.572	91	521553	40.37	ug/L		99
57) o-Xylene	10.938	91	264015	20.29	ug/L		99
58) Styrene	10.957	104	186857	20.94	ug/L		96
59) Bromoform	11.111	173	37123	19.98	ug/L		97
62) Bromobenzene	11.511	156	71027	20.32	ug/L		95
63) 1,1,2,2-Tetrachloroethane	11.541	83	79718	22.18	ug/L		98
64) 1,2,3-Trichloropropane	11.563	75	61992	20.04	ug/L		95
65) Isopropylbenzene	11.268	105	300861	21.67	ug/L		99
66) n-Propylbenzene	11.612	91	373874	21.75	ug/L		97
67) trans-1,4-Dichloro-2-b...	11.590	124	8245	43.05	ug/L		54
68) 2-Chlorotoluene	11.672	91	225481	20.20	ug/L		96
69) 4-Chlorotoluene	11.762	91	260358	20.90	ug/L		99
70) 1,3,5-Trimethylbenzene	11.758	105	235358	21.49	ug/L		99
71) tert-Butylbenzene	12.009	119	213026	23.85	ug/L		96
72) 1,2,4-Trimethylbenzene	12.046	105	241559	21.62	ug/L		94
73) sec-Butylbenzene	12.173	105	261921	21.94	ug/L		100
74) 1,3-Dichlorobenzene	12.252	146	121838	20.31	ug/L		98
75) 4-Isopropyltoluene	12.286	119	216518	21.99	ug/L		97
76) 1,4-Dichlorobenzene	12.252	146	121980	20.32	ug/L		98
77) 1,2-Dichlorobenzene	12.593	146	111316	20.13	ug/L		98
78) n-Butylbenzene	12.581	91	191491	22.65	ug/L		97
79) 1,2-Dibromo-3-chloropr...	13.143	75	14775	22.64	ug/L		92
80) 1,2,4-Trichlorobenzene	13.693	180	48654	22.88	ug/L		99
81) Hexachlorobutadiene	13.798	225	27152	23.94	ug/L		92
82) Naphthalene	13.857	128	121197	20.94	ug/L		100
83) 1,2,3-Trichlorobenzene	14.011	180	41337	22.14	ug/L		90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220120\
Data File : V7103670.D
Acq On : 20 Jan 2022 8:24 am
Operator : ORM
Sample : CCV 8260 020 W
Misc : CCV 8260B_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 20 19:18:46 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220120\
Data File : V7103672.D
Acq On : 20 Jan 2022 9:25 am
Operator : ORM
Sample : MB-
Misc : MBLK 8260B_W
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 20 19:25:28 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	436074	50.00	ug/L	0.00
28) 1,4-Difluorobenzene	6.605	114	705003	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.298	117	610696	50.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.301	152	278322	50.00	ug/L	0.00
System Monitoring Compounds						
29) Dibromofluoromethane	5.452	113	230252	44.80	ug/L	0.00
Spiked Amount 50.000	Range 79 - 121		Recovery = 89.60%			
43) Toluene-d8	8.562	98	866155	44.78	ug/L	0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 89.56%			
60) 4-Bromofluorobenzene	11.395	95	323459	43.31	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 86.62%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Acrolein	0.000		0	N.D.		
9) 1,1-Dichloroethene	0.000		0	N.D.		
10) Freon-113	0.000		0	N.D.		
11) Acetone	0.000		0	N.D.		
12) Iodomethane	0.000		0	N.D.		
13) Carbon disulfide	0.000		0	N.D.		
14) Methyl acetate	0.000		0	N.D. d		
15) Vinyl acetate	0.000		0	N.D.		
16) Methylene chloride	2.889	84	2482	Below Cal		77
17) Acrylonitrile	0.000		0	N.D.		
18) Methyl tert-butyl ether	0.000		0	N.D.		
19) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) 1,1-Dichloroethane	0.000		0	N.D.		
21) 2,2-Dichloropropane	0.000		0	N.D.		
22) cis-1,2-Dichloroethene	0.000		0	N.D.		
23) 2-Butanone	0.000		0	N.D.		
24) Bromochloromethane	0.000		0	N.D.		
25) Chloroform	0.000		0	N.D.		
26) Cyclohexane	0.000		0	N.D. d		
27) 1,1,1-Trichloroethane	0.000		0	N.D.		
30) 1,1-Dichloropropene	0.000		0	N.D. d		
31) Carbon tetrachloride	0.000		0	N.D.		
32) Benzene	0.000		0	N.D.		
33) 1,2-Dichloroethane	0.000		0	N.D.		
34) Trichloroethene	0.000		0	N.D.		
35) Methylcyclohexane	0.000		0	N.D.		
36) 1,2-Dichloropropane	0.000		0	N.D.		
37) Dibromomethane	0.000		0	N.D.		
38) 1,4-Dioxane	0.000		0	N.D.		
39) Bromodichloromethane	0.000		0	N.D.		
40) 2-Chloroethyl vinyl ether	0.000		0	N.D.		
41) cis-1,3-Dichloropropene	0.000		0	N.D.		
42) 4-Methyl-2-pentanone	0.000		0	N.D. d		
44) Toluene	0.000		0	N.D.		
45) trans-1,3-Dichloropropene	0.000		0	N.D.		
46) 1,1,2-Trichloroethane	0.000		0	N.D.		

Data Path : C:\MS-7\New\Raw Data\220120\
Data File : V7103672.D
Acq On : 20 Jan 2022 9:25 am
Operator : ORM
Sample : MB-
Misc : MBLK 8260B_W
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 20 19:25:28 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration

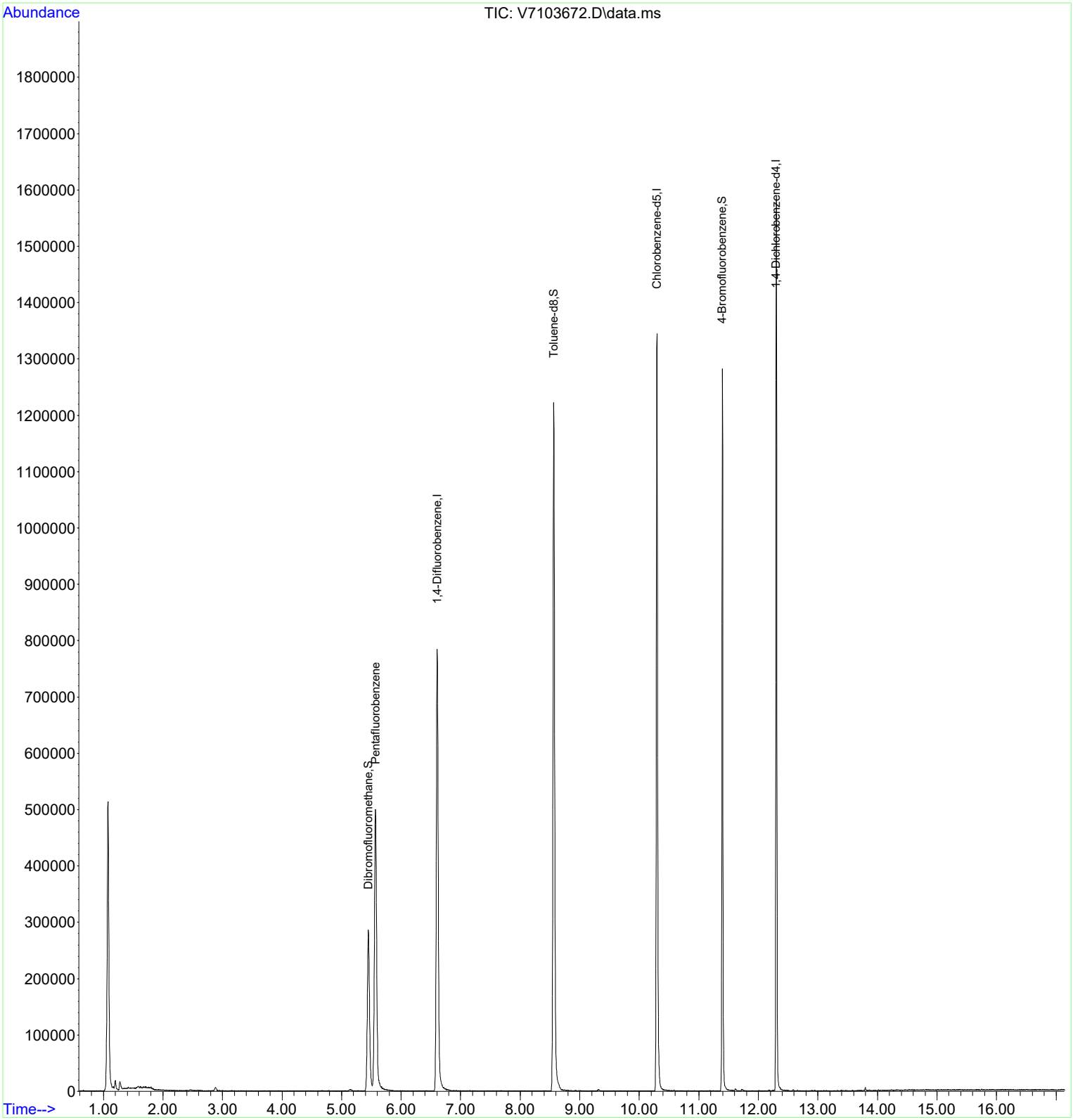
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	0.000		0	N.D.		
49) Tetrachloroethene	0.000		0	N.D.		
50) 1,3-Dichloropropane	0.000		0	N.D.		
51) Dibromochloromethane	0.000		0	N.D.		
52) 1,2-Dibromoethane	0.000		0	N.D.		
53) Chlorobenzene	0.000		0	N.D.		
54) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
55) Ethylbenzene	0.000		0	N.D.		
56) m,p-Xylene	0.000		0	N.D.		
57) o-Xylene	0.000		0	N.D.		
58) Styrene	0.000		0	N.D.		
59) Bromoform	0.000		0	N.D.		
62) Bromobenzene	0.000		0	N.D.		
63) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
64) 1,2,3-Trichloropropane	0.000		0	N.D.	d	
65) Isopropylbenzene	0.000		0	N.D.		
66) n-Propylbenzene	0.000		0	N.D.		
67) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
68) 2-Chlorotoluene	0.000		0	N.D.		
69) 4-Chlorotoluene	0.000		0	N.D.		
70) 1,3,5-Trimethylbenzene	0.000		0	N.D.		
71) tert-Butylbenzene	0.000		0	N.D.		
72) 1,2,4-Trimethylbenzene	0.000		0	N.D.		
73) sec-Butylbenzene	0.000		0	N.D.		
74) 1,3-Dichlorobenzene	0.000		0	N.D.		
75) 4-Isopropyltoluene	0.000		0	N.D.		
76) 1,4-Dichlorobenzene	0.000		0	N.D.		
77) 1,2-Dichlorobenzene	0.000		0	N.D.		
78) n-Butylbenzene	0.000		0	N.D.		
79) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
80) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
81) Hexachlorobutadiene	0.000		0	N.D.		
82) Naphthalene	0.000		0	N.D.		
83) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220120\
Data File : V7103672.D
Acq On : 20 Jan 2022 9:25 am
Operator : ORM
Sample : MB-
Misc : MBLK 8260B_W
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 20 19:25:28 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220120\
Data File : V7103682.D
Acq On : 20 Jan 2022 1:29 pm
Operator : ORM
Sample : 2201G62-003AMS 2/2
Misc : MS 8260_TCL4.2_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 20 19:20:31 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.568	168	335497	50.00 ug/L	0.00
28) 1,4-Difluorobenzene	6.605	114	535314	50.00 ug/L	0.00
47) Chlorobenzene-d5	10.295	117	492666	50.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.300	152	250228	50.00 ug/L	0.00
System Monitoring Compounds					
29) Dibromofluoromethane	5.448	113	188819	48.39 ug/L	0.00
Spiked Amount 50.000	Range 79 - 121		Recovery = 96.78%		
43) Toluene-d8	8.562	98	698729	47.57 ug/L	0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 95.14%		
60) 4-Bromofluorobenzene	11.391	95	284333	47.20 ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 94.40%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.190	85	73010	17.43 ug/L	94
3) Chloromethane	1.328	50	68237	19.01 ug/L	91
4) Vinyl chloride	1.411	62	67274	20.65 ug/L	98
5) Bromomethane	1.665	94	48141	20.81 ug/L	96
6) Chloroethane	1.736	64	39362	21.10 ug/L	97
7) Trichlorofluoromethane	1.931	101	116332	22.18 ug/L #	91
8) Acrolein	0.000		0	N.D.	
9) 1,1-Dichloroethene	2.380	96	43553	21.19 ug/L	69
10) Freon-113	2.398	101	50547	20.64 µg/L	87
11) Acetone	2.447	58	7211	33.30 ug/L	92
12) Iodomethane	2.522	142	155215	40.90 ug/L	93
13) Carbon disulfide	2.582	76	311709	43.27 ug/L	100
14) Methyl acetate	2.784	43	46054	21.57 µg/L	92
15) Vinyl acetate	3.847	43	267391	45.78 ug/L	98
16) Methylene chloride	2.877	84	57090	19.70 ug/L	82
17) Acrylonitrile	3.192	53	2307	2.48 ug/L #	19
18) Methyl tert-butyl ether	3.196	73	184473	22.75 µg/L	96
19) trans-1,2-Dichloroethene	3.184	96	50544	21.49 ug/L	93
20) 1,1-Dichloroethane	3.734	63	115426	21.89 ug/L	97
21) 2,2-Dichloropropane	4.629	77	80425	25.40 ug/L	98
22) cis-1,2-Dichloroethene	4.651	96	55221	21.93 ug/L	82
23) 2-Butanone	4.741	72	8506	38.00 ug/L	74
24) Bromochloromethane	5.044	128	24847	20.98 ug/L #	73
25) Chloroform	5.198	83	130936	24.68 ug/L	89
26) Cyclohexane	5.482	56	107153	24.36 µg/L	96
27) 1,1,1-Trichloroethane	5.426	97	107435	22.72 ug/L	96
30) 1,1-Dichloropropene	5.692	110	24437	21.68 ug/L #	61
31) Carbon tetrachloride	5.665	119	84997	23.36 ug/L	95
32) Benzene	5.987	78	220968	22.08 ug/L	99
33) 1,2-Dichloroethane	6.043	62	102046	22.72 ug/L	96
34) Trichloroethene	6.930	130	48513	20.77 ug/L	96
35) Methylcyclohexane	7.159	55	72919	22.93 µg/L	96
36) 1,2-Dichloropropane	7.241	63	58840	20.73 ug/L	100
37) Dibromomethane	7.398	93	35258	22.28 ug/L	74
38) 1,4-Dioxane	0.000		0	N.D.	
39) Bromodichloromethane	7.641	83	83228	22.35 ug/L	97
40) 2-Chloroethyl vinyl ether	0.000		0	N.D.	
41) cis-1,3-Dichloropropene	8.240	75	90111	21.44 ug/L	94
42) 4-Methyl-2-pentanone	8.483	43	118265	45.16 ug/L #	89
44) Toluene	8.648	92	133545	21.63 ug/L	94
45) trans-1,3-Dichloropropene	8.981	75	84047	22.16 ug/L	93
46) 1,1,2-Trichloroethane	9.202	83	41272	21.77 ug/L	90

Data Path : C:\MS-7\New\Raw Data\220120\
Data File : V7103682.D
Acq On : 20 Jan 2022 1:29 pm
Operator : ORM
Sample : 2201G62-003AMS 2/2
Misc : MS 8260_TCL4.2_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 20 19:20:31 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration

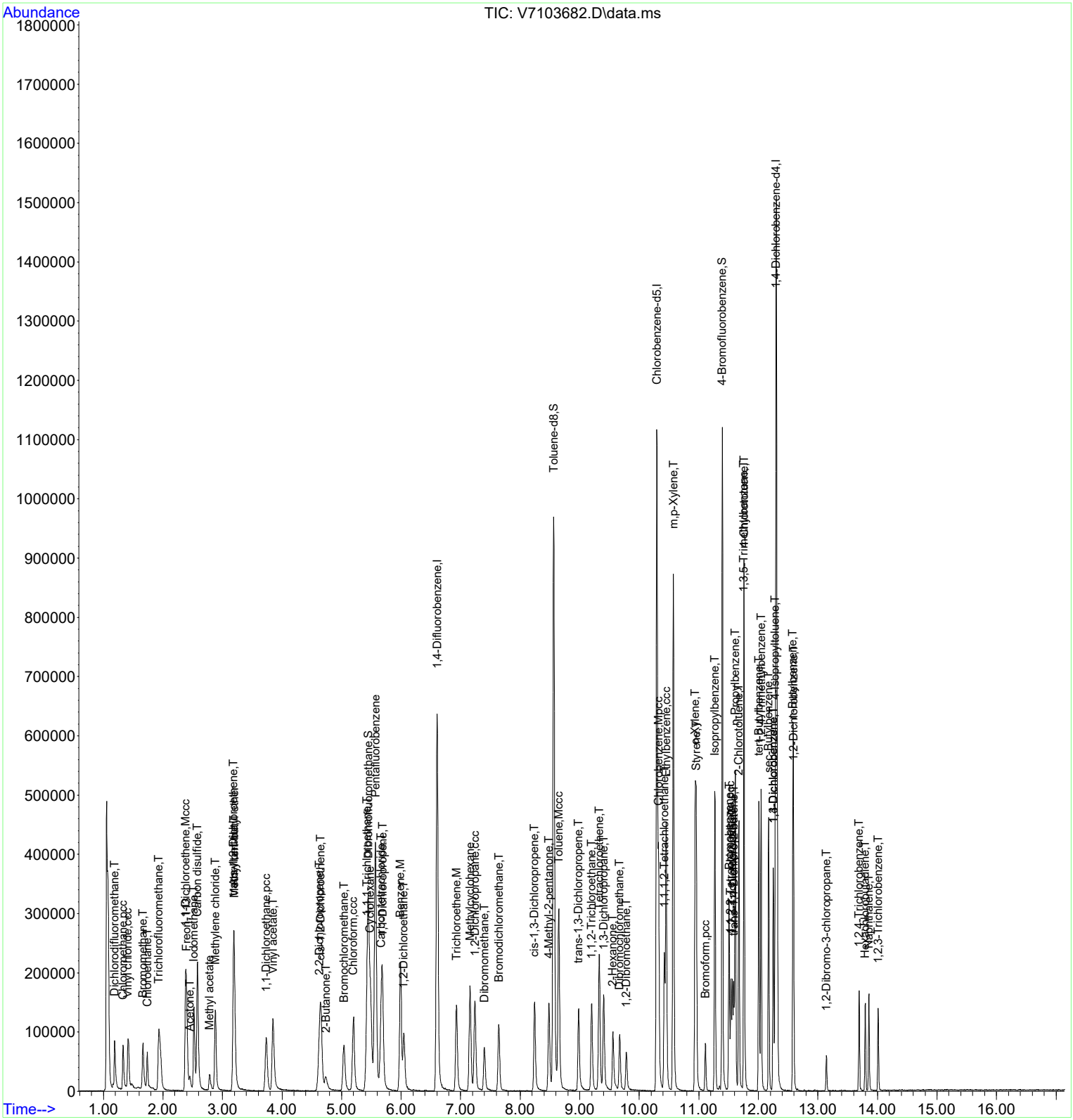
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Hexanone	9.557	43	79141	49.80	ug/L		97
49) Tetrachloroethene	9.329	166	69020	27.10	ug/L		93
50) 1,3-Dichloropropane	9.400	76	88665	23.01	ug/L		94
51) Dibromochloromethane	9.670	129	49807	23.03	ug/L		94
52) 1,2-Dibromoethane	9.782	107	45296	22.12	ug/L		97
53) Chlorobenzene	10.325	112	143514	21.47	ug/L		96
54) 1,1,1,2-Tetrachloroethane	10.422	131	54126	22.33	ug/L		99
55) Ethylbenzene	10.452	91	276517	23.09	ug/L		98
56) m,p-Xylene	10.572	91	444144	46.53	ug/L		99
57) o-Xylene	10.938	91	225737	23.48	ug/L		95
58) Styrene	10.957	104	151278	22.94	ug/L		97
59) Bromoform	11.110	173	28246	20.58	ug/L		90
62) Bromobenzene	11.511	156	58109	21.76	ug/L		96
63) 1,1,2,2-Tetrachloroethane	11.537	83	63713	23.21	ug/L		96
64) 1,2,3-Trichloropropane	11.563	75	57037	24.14	ug/L		95
65) Isopropylbenzene	11.271	105	256013	24.13	ug/L		97
66) n-Propylbenzene	11.612	91	306106	23.31	ug/L		97
67) trans-1,4-Dichloro-2-b...	11.586	124	4524	30.92	ug/L	#	16
68) 2-Chlorotoluene	11.672	91	195764	22.95	ug/L		95
69) 4-Chlorotoluene	11.762	91	226527	23.81	ug/L		98
70) 1,3,5-Trimethylbenzene	11.754	105	200113	23.91	ug/L		96
71) tert-Butylbenzene	12.009	119	177287	25.99	ug/L		98
72) 1,2,4-Trimethylbenzene	12.046	105	201227	23.58	ug/L		96
73) sec-Butylbenzene	12.173	105	217106	23.81	ug/L		100
74) 1,3-Dichlorobenzene	12.252	146	96965	21.16	ug/L		98
75) 4-Isopropyltoluene	12.286	119	176557	23.47	ug/L		98
76) 1,4-Dichlorobenzene	12.252	146	97231	21.20	ug/L		98
77) 1,2-Dichlorobenzene	12.592	146	91725	21.72	ug/L		99
78) n-Butylbenzene	12.581	91	154655	23.95	ug/L		97
79) 1,2-Dibromo-3-chloropr...	13.142	75	11259	22.58	ug/L		98
80) 1,2,4-Trichlorobenzene	13.693	180	33855	20.84	ug/L		96
81) Hexachlorobutadiene	13.797	225	19318	22.33	ug/L		85
82) Naphthalene	13.857	128	80065	18.41	ug/L		100
83) 1,2,3-Trichlorobenzene	14.011	180	27736	19.45	ug/L		91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220120\
Data File : V7103682.D
Acq On : 20 Jan 2022 1:29 pm
Operator : ORM
Sample : 2201G62-003AMS 2/2
Misc : MS 8260_TCL4.2_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 20 19:20:31 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220120\
Data File : V7103683.D
Acq On : 20 Jan 2022 1:54 pm
Operator : ORM
Sample : 2201G62-003AMSD 2/2
Misc : MSD 8260_TCL4.2_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 20 19:20:45 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.572	168	333395	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	6.605	114	535270	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.295	117	495399	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	12.301	152	252263	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	5.449	113	187624	48.09	ug/L		0.00
Spiked Amount 50.000	Range 79 - 121		Recovery = 96.18%				
43) Toluene-d8	8.562	98	684157	46.59	ug/L		0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 93.18%				
60) 4-Bromofluorobenzene	11.395	95	287482	47.46	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 94.92%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.190	85	72530	17.43	ug/L		95
3) Chloromethane	1.328	50	68806	19.29	ug/L		100
4) Vinyl chloride	1.415	62	64114	19.81	ug/L		100
5) Bromomethane	1.665	94	44094	19.18	ug/L		96
6) Chloroethane	1.740	64	35558	19.18	ug/L		93
7) Trichlorofluoromethane	1.938	101	109351	20.98	ug/L	#	98
8) Acrolein	0.000		0	N.D.			
9) 1,1-Dichloroethene	2.388	96	41305	20.23	ug/L		83
10) Freon-113	2.402	101	48419	19.90	µg/L		90
11) Acetone	2.447	58	9358	43.49	ug/L		67
12) Iodomethane	2.526	142	146523	38.85	ug/L		93
13) Carbon disulfide	2.582	76	290903	40.63	ug/L		100
14) Methyl acetate	2.784	43	42618	20.09	µg/L		95
15) Vinyl acetate	3.851	43	247720	42.68	ug/L		95
16) Methylene chloride	2.881	84	55764	19.33	ug/L		88
17) Acrylonitrile	3.200	53	2030	2.19	ug/L	#	39
18) Methyl tert-butyl ether	3.196	73	174270	21.63	µg/L		95
19) trans-1,2-Dichloroethene	3.185	96	45489	19.47	ug/L		93
20) 1,1-Dichloroethane	3.735	63	108383	20.69	ug/L		95
21) 2,2-Dichloropropane	4.629	77	68972	21.92	ug/L		93
22) cis-1,2-Dichloroethene	4.659	96	51082	20.41	ug/L		86
23) 2-Butanone	4.741	72	10042	45.14	ug/L		61
24) Bromochloromethane	5.048	128	23197	19.71	ug/L	#	67
25) Chloroform	5.202	83	123889	23.50	ug/L		91
26) Cyclohexane	5.494	56	97907	22.40	µg/L		89
27) 1,1,1-Trichloroethane	5.430	97	100125	21.31	µg/L		94
30) 1,1-Dichloropropene	5.684	110	23645	20.98	ug/L		77
31) Carbon tetrachloride	5.666	119	75795	20.84	ug/L		97
32) Benzene	5.991	78	210432	21.03	ug/L		100
33) 1,2-Dichloroethane	6.051	62	99112	22.07	ug/L		97
34) Trichloroethene	6.931	130	46809	20.04	ug/L		90
35) Methylcyclohexane	7.159	55	66051	20.77	µg/L		97
36) 1,2-Dichloropropane	7.241	63	60023	21.15	ug/L		100
37) Dibromomethane	7.402	93	32726	20.68	ug/L		88
38) 1,4-Dioxane	7.473	88	2231	374.19	µg/L	#	27
39) Bromodichloromethane	7.642	83	79566	21.37	ug/L		97
40) 2-Chloroethyl vinyl ether	0.000		0	N.D.			
41) cis-1,3-Dichloropropene	8.240	75	86654	20.62	ug/L		91
42) 4-Methyl-2-pentanone	8.484	43	126246	48.21	ug/L	#	91
44) Toluene	8.648	92	126953	20.56	ug/L		90
45) trans-1,3-Dichloropropene	8.981	75	79531	20.97	ug/L		98
46) 1,1,2-Trichloroethane	9.202	83	39784	20.99	ug/L		92

Data Path : C:\MS-7\New\Raw Data\220120\
Data File : V7103683.D
Acq On : 20 Jan 2022 1:54 pm
Operator : ORM
Sample : 2201G62-003AMSD 2/2
Misc : MSD 8260_TCL4.2_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 20 19:20:45 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration

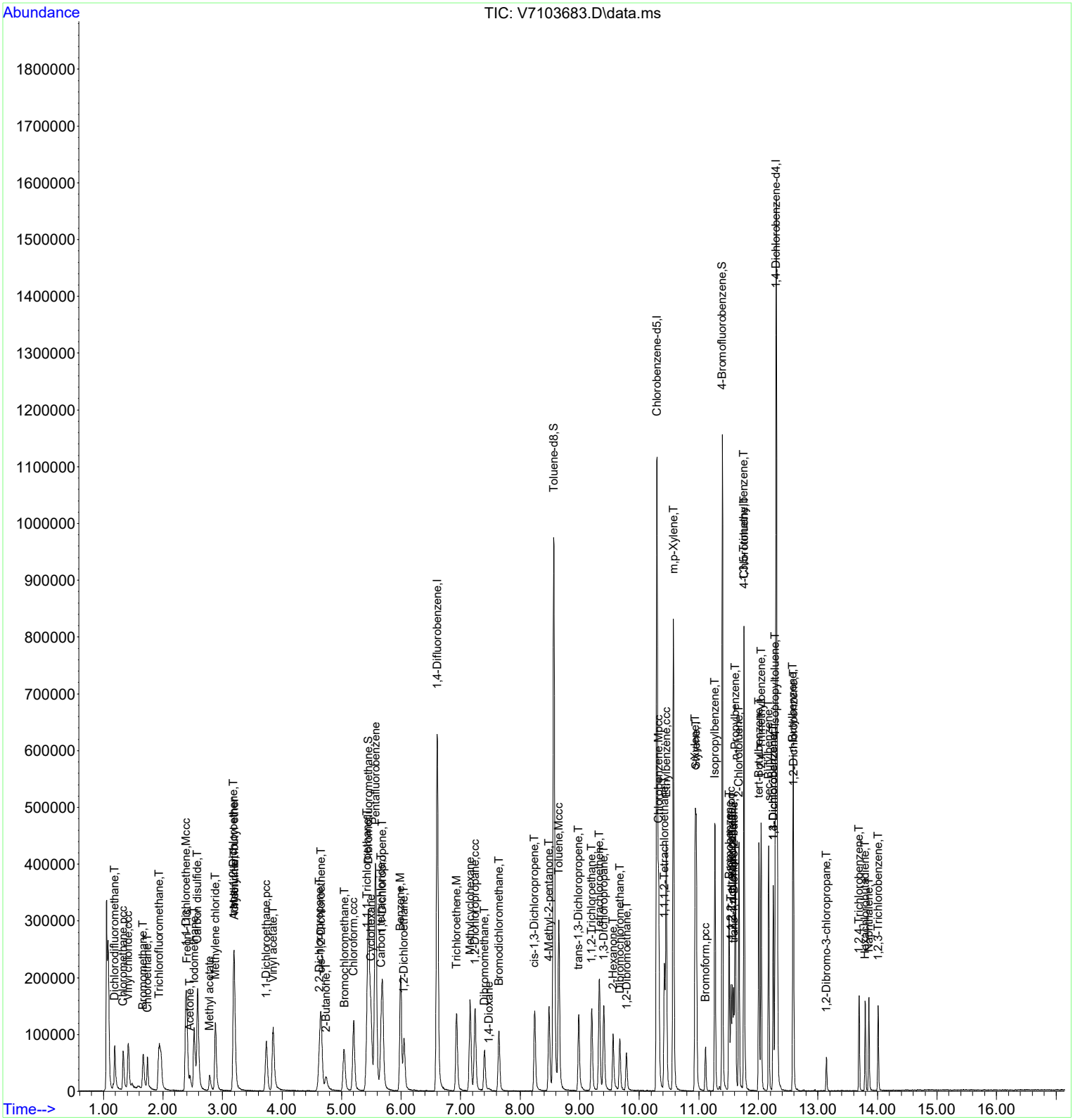
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) 2-Hexanone	9.561	43	77549	48.53 ug/L	99
49) Tetrachloroethene	9.329	166	59599	23.27 ug/L	84
50) 1,3-Dichloropropane	9.400	76	84237	21.74 ug/L	99
51) Dibromochloromethane	9.674	129	46790	21.51 ug/L	92
52) 1,2-Dibromoethane	9.786	107	44433	21.58 ug/L #	89
53) Chlorobenzene	10.325	112	137627	20.47 ug/L	92
54) 1,1,1,2-Tetrachloroethane	10.422	131	50988	20.92 ug/L	100
55) Ethylbenzene	10.452	91	262009	21.75 ug/L	97
56) m,p-Xylene	10.572	91	413581	43.09 ug/L	99
57) o-Xylene	10.939	91	212971	22.03 ug/L	98
58) Styrene	10.954	104	146053	22.03 ug/L	97
59) Bromoform	11.114	173	27729	20.09 ug/L	93
62) Bromobenzene	11.511	156	55431	20.59 ug/L	97
63) 1,1,2,2-Tetrachloroethane	11.541	83	62737	22.67 ug/L	96
64) 1,2,3-Trichloropropane	11.563	75	56206	23.60 ug/L	89
65) Isopropylbenzene	11.268	105	235684	22.04 ug/L	100
66) n-Propylbenzene	11.612	91	285766	21.59 ug/L	97
67) trans-1,4-Dichloro-2-b...	11.586	124	4271	28.96 ug/L #	22
68) 2-Chlorotoluene	11.672	91	180448	20.99 ug/L	93
69) 4-Chlorotoluene	11.762	91	212364	22.14 ug/L	94
70) 1,3,5-Trimethylbenzene	11.758	105	185963	22.04 ug/L	96
71) tert-Butylbenzene	12.009	119	160907	23.39 ug/L	96
72) 1,2,4-Trimethylbenzene	12.046	105	188981	21.97 ug/L	99
73) sec-Butylbenzene	12.173	105	203441	22.13 ug/L	96
74) 1,3-Dichlorobenzene	12.252	146	90730	19.64 ug/L	96
75) 4-Isopropyltoluene	12.286	119	166599	21.97 ug/L	97
76) 1,4-Dichlorobenzene	12.252	146	90842	19.65 ug/L	95
77) 1,2-Dichlorobenzene	12.593	146	85911	20.18 ug/L	99
78) n-Butylbenzene	12.581	91	145420	22.33 ug/L	99
79) 1,2-Dibromo-3-chloropr...	13.143	75	10773	21.43 ug/L	88
80) 1,2,4-Trichlorobenzene	13.693	180	33488	20.45 ug/L	99
81) Hexachlorobutadiene	13.798	225	20757	23.77 ug/L	88
82) Naphthalene	13.857	128	84807	19.23 ug/L	100
83) 1,2,3-Trichlorobenzene	14.011	180	29388	20.44 ug/L	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220120\
Data File : V7103683.D
Acq On : 20 Jan 2022 1:54 pm
Operator : ORM
Sample : 2201G62-003AMSD 2/2
Misc : MSD 8260_TCL4.2_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 20 19:20:45 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration



Injection Log

Directory: C:\MS-13\New\Raw data\220117

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	51	V13971571.D	1.	BLANK	BLANK	17 Jan 2022 07:00
2	52	V13971572.D	1.	BLANK	BLANK	17 Jan 2022 07:22
3	53	V13971573.D	1.	CCV OXY/BTEX 050 W (50uL/50mL)	CCV 8260B_W	17 Jan 2022 07:44
4	54	V13971574.D	1.	CCV 8260 020 W (20uL/50mL)	CCV 8260B_W	17 Jan 2022 08:30
5	55	V13971575.D	1.	CCV OXY/BTEX 050 W (50uL/50mL)	CCV 8260B_W	17 Jan 2022 08:52
6	56	V13971576.D	1.	5ppb	BLANK	17 Jan 2022 09:33
7	57	V13971577.D	1.	MB-	MBLK 8260_UST_W	17 Jan 2022 09:55
8	58	V13971578.D	1.	MB-	MBLK 8260B_W	17 Jan 2022 10:18
9	59	V13971579.D	1.	2201G05-001A 1/1	SAMP 8260_UST_W	17 Jan 2022 10:39
10	60	V13971580.D	1.	2201G05-002A 1/3	SAMP 8260_UST_W	17 Jan 2022 11:01
11	61	V13971581.D	1.	2201G62-007A 1/2	SAMP 8260_TCL4.2_W	17 Jan 2022 11:23
12	62	V13971582.D	1.	2201G62-008A 1/2	SAMP 8260_TCL4.2_W	17 Jan 2022 11:46
13	63	V13971583.D	1.	2201E36-003A 1/2	SAMP 8260_TCL4.2_W	17 Jan 2022 12:08
14	64	V13971584.D	1.	2201G05-012A 1/3	SAMP 8260_UST_W	17 Jan 2022 12:30
15	65	V13971585.D	1.	2201A78-001A 1/3	SAMP 8260_TCL4.2_W	17 Jan 2022 12:52
16	66	V13971586.D	1.	2201A78-001A *20 1/3	SAMP 8260_TCL4.2_W	17 Jan 2022 13:18
17	67	V13971587.D	1.	2201F64-002AMS 2/2	MS 8260_TCL4.2_W	17 Jan 2022 13:40
18	67	V13971588.D	1.	2201F64-002AMSD 2/2	MSD 8260_TCL4.2_W	17 Jan 2022 14:02
19	68	V13971589.D	1.	2201G05-003A 1/3	SAMP 8260_UST_W	17 Jan 2022 14:24
20	69	V13971590.D	1.	2201G05-015A 1/3	SAMP 8260_UST_W	17 Jan 2022 14:46
21	70	V13971591.D	1.	2201G05-014A 1/3	SAMP 8260_UST_W	17 Jan 2022 15:08
22	71	V13971592.D	1.	2201A70-020A *10 2/3	SAMP 8260_UST_W	17 Jan 2022 15:29
23	72	V13971593.D	1.	2201A70-020AMS *10 2/3	MS 8260_UST_W	17 Jan 2022 15:52
24	72	V13971594.D	1.	2201A70-020AMSD *10 2/3	MSD 8260_UST_W	17 Jan 2022 16:14
25	73	V13971595.D	1.	2201A13-001A *50 2/3	SAMP 8260_UST_W	17 Jan 2022 16:36
26	74	V13971596.D	1.	2201G05-013A *50 2/3	SAMP 8260_UST_W	17 Jan 2022 16:57
27	75	V13971597.D	1.	2201G05-018A *50 3/3	SAMP 8260_UST_W	17 Jan 2022 17:19
28	76	V13971598.D	1.	2201G05-018A *500 3/3	SAMP 8260_UST_W	17 Jan 2022 17:41
29	77	V13971599.D	1.	2201G05-004A 1/3	SAMP 8260_UST_W	17 Jan 2022 18:03
30	78	V13971600.D	1.	2201G05-005A 1/3	SAMP 8260_UST_W	17 Jan 2022 18:25
31	79	V13971601.D	1.	2201G05-006A 1/3	SAMP 8260_UST_W	17 Jan 2022 18:47
32	80	V13971602.D	1.	2201G05-008A 1/3	SAMP 8260_UST_W	17 Jan 2022 19:09

Injection Log

Directory: C:\MS-13\New\Raw data\220117

Line	Vial	FileName	Multiplier	SampleName		Misc Info	Injected
33	81	V13971603.D	1.	2201G05-011A	1/3	SAMP 8260_UST_W	17 Jan 2022 19:31
34	82	V13971604.D	1.	2201G05-016A	1/3	SAMP 8260_UST_W	17 Jan 2022 19:53
35	83	V13971605.D	1.	2201G05-017A	1/3	SAMP 8260_UST_W	17 Jan 2022 20:15
36	84	V13971606.D	1.	LCS-		LCS 8260_UST_W	17 Jan 2022 20:38

R. Cu

A: WD

Injection Log

Directory: C:\MS-13\New\Raw data\220118

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	V13971607.D	1.	BLANK	BLANK	18 Jan 2022 06:49
2	2	V13971608.D	1.	CCV OXY/BTEX 050 W (50uL/50mL)	CCV 8260_UST_W	18 Jan 2022 07:11
3	3	V13971609.D	1.	CCV 8260 020 W (20uL/50mL)	CCV 8260B_W	18 Jan 2022 07:33
4	4	V13971610.D	1.	CCV 8260 020 W (20uL/50mL)	CCV 8260B_W	18 Jan 2022 08:08
5	5	V13971611.D	1.	1ppb	BLANK	18 Jan 2022 08:47
6	6	V13971612.D	1.	MB-	MBLK 8260_UST_W	18 Jan 2022 09:09
7	7	V13971613.D	1.	MB-	MBLK 8260B_W	18 Jan 2022 09:31
8	8	V13971614.D	1.	BLANK	BLANK	18 Jan 2022 09:53
9	9	V13971615.D	1.	2201A78-001A *5 2/3	SAMP 8260_TCL4.2_W	18 Jan 2022 10:16
10	10	V13971616.D	1.	2201G19-001A 1/2	SAMP 8260_UST_W	18 Jan 2022 10:38
11	11	V13971617.D	1.	2201G19-002A 1/2	SAMP 8260_UST_W	18 Jan 2022 11:00
12	12	V13971618.D	1.	2201G19-005A 1/2	SAMP 8260_UST_W	18 Jan 2022 11:22
13	13	V13971619.D	1.	2201G19-006A 1/2	SAMP 8260_UST_W	18 Jan 2022 11:43
14	14	V13971620.D	1.	2201G19-006A *10 1/2	SAMP 8260_UST_W	18 Jan 2022 12:05
15	15	V13971621.D	1.	2201G19-003A *50 1/2	SAMP 8260_UST_W	18 Jan 2022 12:27
16	16	V13971622.D	1.	2201G19-004A *50 1/2	SAMP 8260_UST_W	18 Jan 2022 12:49
17	17	V13971623.D	1.	2201G05-013A *500 2/3	SAMP 8260_UST_W	18 Jan 2022 13:11
18	18	V13971624.D	1.	2201A70-001A 3/3 TBA	SAMP 8260_UST_W	18 Jan 2022 13:33
19	19	V13971625.D	1.	2201G05-013AMS *500 2/3	MS 8260_UST_W	18 Jan 2022 13:55
20	19	V13971626.D	1.	2201G05-013AMSD *500 2/3	MSD 8260_UST_W	18 Jan 2022 14:17
21	20	V13971627.D	1.	2201G05-005A 2/3	SAMP 8260_UST_W	18 Jan 2022 14:38
22	21	V13971628.D	1.	2201G05-016A *10 2/3	SAMP 8260_UST_W	18 Jan 2022 15:00
23	22	V13971629.D	1.	2201G05-017A *10 2/3	SAMP 8260_UST_W	18 Jan 2022 15:22
24	23	V13971630.D	1.	2201G05-009A 1/3	SAMP 8260_UST_W	18 Jan 2022 15:44
25	24	V13971631.D	1.	2201G05-007A 1/3	SAMP 8260_UST_W	18 Jan 2022 16:06
26	25	V13971632.D	1.	2201G05-010A 1/3	SAMP 8260_UST_W	18 Jan 2022 16:28
27	26	V13971633.D	1.	2201G62-001A 1/2	SAMP 8260_TCL4.2_W	18 Jan 2022 16:50
28	27	V13971634.D	1.	2201G62-002A 1/2	SAMP 8260_TCL4.2_W	18 Jan 2022 17:11
29	28	V13971635.D	1.	2201G62-003A 1/2	SAMP 8260_TCL4.2_W	18 Jan 2022 17:33
30	29	V13971636.D	1.	2201G62-004A 1/2	SAMP 8260_TCL4.2_W	18 Jan 2022 17:55

pH

Vial ID

Injection Log

Directory: C:\MS-13\New\Raw data\220118

Line	Vial	FileName	Multiplier	SampleName		Misc Info	Injected
31	30	V13971637.D	1.	2201G62-005A	1/2	SAMP 8260_TCL4.2_W	18 Jan 2022 18:17
32	31	V13971638.D	1.	2201G62-006A	1/2	SAMP 8260_TCL4.2_W	18 Jan 2022 18:39
33	32	V13971639.D	1.	2201E36-001A	1/2	SAMP 8260_TCL4.2_W	18 Jan 2022 19:01
34	33	V13971640.D	1.	2201E36-002A	1/2	SAMP 8260_TCL4.2_W	18 Jan 2022 19:22
35	34	V13971641.D	1.	tb test blank		BLANK	18 Jan 2022 19:44

R:AU

A:

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220117\
Data File : V13971574.D
Acq On : 17 Jan 2022 8:30 am
Operator : ORM
Sample : CCV 8260 020 W (20uL/50mL)
Misc : CCV 8260B_W
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jan 17 09:14:23 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	105	0.00
2	T	Dichlorodifluoromethane	20.000	16.764	16.2	92	0.00
3	pcc	Chloromethane	20.000	20.569	-2.8	113	0.00
4	ccc	Vinyl chloride	20.000	20.388	-1.9	115	0.00
5	T	Bromomethane	20.000	20.512	-2.6	113	0.00
6	T	Chloroethane	20.000	21.544	-7.7	117	0.00
7	T	Trichlorofluoromethane	20.000	21.837	-9.2	114	0.00
8	T	Acrolein	20.000	15.383	23.1#	79	0.00
9	ccc	1,1-Dichloroethene	20.000	26.945	-34.7#	120	0.00
10		Freon-113	20.000	26.137	-30.7#	123	0.00
11	T	Acetone	40.000	50.364	-25.9#	108	0.00
12	T	Iodomethane	40.000	45.727	-14.3	120	-0.01
13	T	Carbon disulfide	40.000	46.456	-16.1	123	0.00
14		Methyl acetate	20.000	22.170	-10.9	121	0.00
15	T	Vinyl acetate	40.000	52.098	-30.2#	136	0.00
16	T	Methylene chloride	20.000	23.825	-19.1	125	0.00
17	T	Acrylonitrile	20.000	21.157	-5.8	116	0.00
18		Methyl tert-butyl ether	20.000	23.101	-15.5	118	0.00
19	T	trans-1,2-Dichloroethene	20.000	23.324	-16.6	119	0.00
20	pcc	1,1-Dichloroethane	20.000	23.123	-15.6	119	0.00
21	T	2,2-Dichloropropane	20.000	27.320	-36.6#	144	0.00
22	T	cis-1,2-Dichloroethene	20.000	22.703	-13.5	116	0.00
23	T	2-Butanone	40.000	42.198	-5.5	111	0.00
24	T	Bromochloromethane	20.000	22.646	-13.2	111	0.00
25	ccc	Chloroform	20.000	21.992	-10.0	116	0.00
26		Cyclohexane	20.000	24.398	-22.0#	121	0.00
27	T	1,1,1-Trichloroethane	20.000	22.975	-14.9	123	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	109	0.00
29	S	Dibromofluoromethane	50.000	50.320	-0.6	108	0.00
30	T	1,1-Dichloropropene	20.000	22.291	-11.5	118	0.00
31	T	Carbon tetrachloride	20.000	22.656	-13.3	123	0.00
32	T	Benzene	20.000	22.208	-11.0	116	0.00
33	T	1,2-Dichloroethane	20.000	22.777	-13.9	119	0.00
34	M	Trichloroethene	20.000	21.147	-5.7	114	0.00
35		Methylcyclohexane	20.000	22.499	-12.5	120	0.00
36	ccc	1,2-Dichloropropane	20.000	22.274	-11.4	115	0.00
37	T	Dibromomethane	20.000	21.379	-6.9	111	0.00
38		1,4-Dioxane	200.000	274.228	-37.1#	131	0.00
39	T	Bromodichloromethane	20.000	21.982	-9.9	113	0.00
40	T	2-Chloroethyl vinyl ether	40.000	50.004	-25.0#	112	0.00
41	T	cis-1,3-Dichloropropene	20.000	22.989	-14.9	119	0.00
42	T	4-Methyl-2-pentanone	40.000	45.359	-13.4	112	0.00
43	S	Toluene-d8	50.000	50.398	-0.8	109	0.00
44	ccc	Toluene	20.000	21.665	-8.3	114	0.00
45	T	trans-1,3-Dichloropropene	20.000	22.989	-14.9	119	0.00
46	T	1,1,2-Trichloroethane	20.000	22.421	-12.1	114	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	111	0.00
48	T	2-Hexanone	40.000	47.009	-17.5	116	0.00
49	T	Tetrachloroethene	20.000	21.073	-5.4	115	0.00
50	T	1,3-Dichloropropane	20.000	21.591	-8.0	112	0.00
51	T	Dibromochloromethane	20.000	21.809	-9.0	114	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220117\
Data File : V13971574.D
Acq On : 17 Jan 2022 8:30 am
Operator : ORM
Sample : CCV 8260 020 W (20uL/50mL)
Misc : CCV 8260B_W
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jan 17 09:14:23 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	20.000	22.589	-12.9	115	0.00
53	pcc	Chlorobenzene	20.000	20.975	-4.9	112	0.00
54	T	1,1,1,2-Tetrachloroethane	20.000	22.376	-11.9	114	0.00
55	ccc	Ethylbenzene	20.000	22.143	-10.7	114	0.00
56	T	m,p-Xylene	40.000	45.685	-14.2	117	0.00
57	T	o-Xylene	20.000	22.672	-13.4	115	0.00
58	T	Styrene	20.000	23.123	-15.6	114	0.00
59	pcc	Bromoform	20.000	21.865	-9.3	116	0.00
60	S	4-Bromofluorobenzene	50.000	51.392	-2.8	114	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	110	-0.01
62	T	Bromobenzene	20.000	20.449	-2.2	112	0.00
63	pcc	1,1,2,2-Tetrachloroethane	20.000	21.142	-5.7	116	0.00
64	T	1,2,3-Trichloropropane	20.000	19.966	0.2	108	0.00
65	T	Isopropylbenzene	20.000	22.143	-10.7	116	0.00
66	T	n-Propylbenzene	20.000	21.102	-5.5	115	0.00
67	T	trans-1,4-Dichloro-2-butene	40.000	39.635	0.9	123	0.00
68	T	2-Chlorotoluene	20.000	21.102	-5.5	115	0.00
69	T	4-Chlorotoluene	20.000	21.993	-10.0	118	0.00
70	T	1,3,5-Trimethylbenzene	20.000	22.493	-12.5	116	0.00
71	T	tert-Butylbenzene	20.000	25.238	-26.2#	131	-0.01
72	T	1,2,4-Trimethylbenzene	20.000	22.722	-13.6	114	-0.01
73	T	sec-Butylbenzene	20.000	22.254	-11.3	116	-0.01
74	T	1,3-Dichlorobenzene	20.000	20.760	-3.8	110	-0.01
75	T	4-Isopropyltoluene	20.000	22.811	-14.1	115	0.00
76	T	1,4-Dichlorobenzene	20.000	20.204	-1.0	109	0.00
77	T	1,2-Dichlorobenzene	20.000	21.197	-6.0	112	0.00
78	T	n-Butylbenzene	20.000	22.715	-13.6	114	0.00
79	T	1,2-Dibromo-3-chloropropane	20.000	18.196	9.0	112	-0.01
80	T	1,2,4-Trichlorobenzene	20.000	20.588	-2.9	107	0.00
81	T	Hexachlorobutadiene	20.000	20.614	-3.1	107	0.00
82	T	Naphthalene	20.000	19.686	1.6	108	0.00
83	T	1,2,3-Trichlorobenzene	20.000	21.653	-8.3	104	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220118\
Data File : V13971610.D
Acq On : 18 Jan 2022 8:08 am
Operator : ORM
Sample : CCV 8260 020 W (20uL/50mL)
Misc : CCV 8260B_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 18 08:31:25 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	117	0.00
2	T	Dichlorodifluoromethane	20.000	15.979	20.1#	97	0.00
3	pcc	Chloromethane	20.000	21.033	-5.2	129	0.00
4	ccc	Vinyl chloride	20.000	20.133	-0.7	126	0.00
5	T	Bromomethane	20.000	22.162	-10.8	136	0.00
6	T	Chloroethane	20.000	21.802	-9.0	132	0.00
7	T	Trichlorofluoromethane	20.000	20.364	-1.8	118	0.00
8	T	Acrolein	20.000	23.709	-18.5	134	0.00
9	ccc	1,1-Dichloroethene	20.000	22.960	-14.8	114	0.00
10		Freon-113	20.000	21.465	-7.3	112	0.00
11	T	Acetone	40.000	42.606	-6.5	101	0.00
12	T	Iodomethane	40.000	40.708	-1.8	119	-0.02
13	T	Carbon disulfide	40.000	42.270	-5.7	124	-0.01
14		Methyl acetate	20.000	17.846	10.8	108	0.00
15	T	Vinyl acetate	40.000	45.540	-13.8	131	0.00
16	T	Methylene chloride	20.000	19.324	3.4	114	0.00
17	T	Acrylonitrile	20.000	18.562	7.2	113	0.00
18		Methyl tert-butyl ether	20.000	20.855	-4.3	118	0.00
19	T	trans-1,2-Dichloroethene	20.000	20.041	-0.2	113	0.00
20	pcc	1,1-Dichloroethane	20.000	19.519	2.4	111	0.00
21	T	2,2-Dichloropropane	20.000	25.922	-29.6#	152	0.00
22	T	cis-1,2-Dichloroethene	20.000	20.006	-0.0	113	0.00
23	T	2-Butanone	40.000	34.871	12.8	101	0.00
24	T	Bromochloromethane	20.000	20.096	-0.5	109	0.00
25	ccc	Chloroform	20.000	19.083	4.6	112	0.00
26		Cyclohexane	20.000	20.530	-2.7	113	0.00
27	T	1,1,1-Trichloroethane	20.000	19.433	2.8	115	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	119	0.00
29	S	Dibromofluoromethane	50.000	49.637	0.7	117	0.00
30	T	1,1-Dichloropropene	20.000	18.735	6.3	109	0.00
31	T	Carbon tetrachloride	20.000	19.133	4.3	114	0.00
32	T	Benzene	20.000	19.309	3.5	111	0.00
33	T	1,2-Dichloroethane	20.000	20.294	-1.5	116	0.00
34	M	Trichloroethene	20.000	18.695	6.5	110	0.00
35		Methylcyclohexane	20.000	19.366	3.2	113	0.00
36	ccc	1,2-Dichloropropane	20.000	18.957	5.2	108	0.00
37	T	Dibromomethane	20.000	19.048	4.8	108	0.00
38		1,4-Dioxane	200.000	221.103	-10.6	116	0.00
39	T	Bromodichloromethane	20.000	19.591	2.0	111	0.00
40	T	2-Chloroethyl vinyl ether	40.000	44.294	-10.7	109	0.00
41	T	cis-1,3-Dichloropropene	20.000	20.552	-2.8	117	0.00
42	T	4-Methyl-2-pentanone	40.000	40.203	-0.5	109	0.00
43	S	Toluene-d8	50.000	49.874	0.3	118	0.00
44	ccc	Toluene	20.000	18.681	6.6	108	0.00
45	T	trans-1,3-Dichloropropene	20.000	20.552	-2.8	117	0.00
46	T	1,1,2-Trichloroethane	20.000	19.436	2.8	108	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	125	0.00
48	T	2-Hexanone	40.000	39.084	2.3	108	0.00
49	T	Tetrachloroethene	20.000	17.457	12.7	107	0.00
50	T	1,3-Dichloropropane	20.000	18.611	6.9	109	0.00
51	T	Dibromochloromethane	20.000	18.477	7.6	109	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220118\
Data File : V13971610.D
Acq On : 18 Jan 2022 8:08 am
Operator : ORM
Sample : CCV 8260 020 W (20uL/50mL)
Misc : CCV 8260B_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 18 08:31:25 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	20.000	18.952	5.2	109	0.00
53	pcc	Chlorobenzene	20.000	17.785	11.1	107	0.00
54	T	1,1,1,2-Tetrachloroethane	20.000	18.837	5.8	109	0.00
55	ccc	Ethylbenzene	20.000	18.816	5.9	109	0.00
56	T	m,p-Xylene	40.000	39.047	2.4	113	0.00
57	T	o-Xylene	20.000	19.380	3.1	111	0.00
58	T	Styrene	20.000	19.623	1.9	109	0.00
59	pcc	Bromoform	20.000	17.899	10.5	107	0.00
60	S	4-Bromofluorobenzene	50.000	51.959	-3.9	130	-0.01
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	125	-0.01
62	T	Bromobenzene	20.000	17.151	14.2	107	0.00
63	pcc	1,1,2,2-Tetrachloroethane	20.000	17.383	13.1	108	0.00
64	T	1,2,3-Trichloropropane	20.000	17.838	10.8	110	0.00
65	T	Isopropylbenzene	20.000	18.659	6.7	111	0.00
66	T	n-Propylbenzene	20.000	17.643	11.8	109	0.00
67	T	trans-1,4-Dichloro-2-butene	40.000	34.267	14.3	115	0.00
68	T	2-Chlorotoluene	20.000	17.643	11.8	109	0.00
69	T	4-Chlorotoluene	20.000	18.602	7.0	113	0.00
70	T	1,3,5-Trimethylbenzene	20.000	18.968	5.2	111	0.00
71	T	tert-Butylbenzene	20.000	21.115	-5.6	124	-0.01
72	T	1,2,4-Trimethylbenzene	20.000	19.372	3.1	111	-0.01
73	T	sec-Butylbenzene	20.000	18.958	5.2	112	-0.01
74	T	1,3-Dichlorobenzene	20.000	17.733	11.3	107	-0.01
75	T	4-Isopropyltoluene	20.000	19.196	4.0	110	0.00
76	T	1,4-Dichlorobenzene	20.000	17.279	13.6	106	0.00
77	T	1,2-Dichlorobenzene	20.000	17.844	10.8	107	0.00
78	T	n-Butylbenzene	20.000	19.328	3.4	111	-0.01
79	T	1,2-Dibromo-3-chloropropane	20.000	15.318	23.4#	106	-0.01
80	T	1,2,4-Trichlorobenzene	20.000	18.008	10.0	107	-0.01
81	T	Hexachlorobutadiene	20.000	18.675	6.6	111	0.00
82	T	Naphthalene	20.000	16.744	16.3	102	0.00
83	T	1,2,3-Trichlorobenzene	20.000	18.996	5.0	104	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

GC/MS QA-QC Check Report

Tune File : C:\MS-13\New\Raw data\220117\V13971574.D
Tune Time : 17 Jan 2022 8:30 am

Daily Calibration File : C:\MS-13\New\Raw data\220117\V13971574.D

209799 340641 340861

195683

File	Sample	Surrogate Recovery %			Internal Standard Responses		
V13971574.D							
	CCV 8260	101	101	103	209799	340641	340861
				195683			
V13971576.D							
	5ppb	102	101	103	213503	348110	348166
				202852			
V13971578.D							
	MB-	102	101	101	198495	329464	338160
				188515			
V13971581.D							
	2201G62-00	102	100	100	193280	327327	329815
				180479			
V13971582.D							
	2201G62-00	102	101	98	194403	328185	332437
				176114			
V13971583.D							
	2201E36-00	101	100	99	193724	329189	331887
				183711			
V13971585.D							
	2201A78-00	97	104	100	193995	321774	340210
				189789			
V13971586.D							
	2201A78-00	99	100	100	230876	381962	383820
				214375			
V13971587.D							
	2201F64-00	108	100	105	189489	319533	328179
				201267			
V13971588.D							
	2201F64-00	101	100	103	202109	338197	343624
				194270			

(fails) - fails 12hr time check * - fails criteria

Created: Tue Jan 18 07:49:11 2022 MS-13

GC/MS QA-QC Check Report

Tune File : C:\MS-13\New\Raw data\220118\V13971610.D
Tune Time : 18 Jan 2022 8:08 am

Daily Calibration File : C:\MS-13\New\Raw data\220118\V13971610.D

232630 373378 384151

222362

File	Sample	Surrogate Recovery %			Internal Standard Responses		
V13971610.D							
	CCV 8260	99	100	104	232630	373378	384151
				222362			
V13971611.D							
	1ppb	100	99	103	236353	380198	393716
				228018			
V13971613.D							
	MB-	99	100	105	210258	343847	356484
				209673			
V13971615.D							
	2201A78-00	97	101	102	213813	346505	363902
				213403			

(fails) - fails 12hr time check * - fails criteria

Created: Tue Jan 18 11:04:58 2022 MS-13

GC/MS QA-QC Check Report

Tune File : C:\MS-13\New\Raw data\220118\V13971610.D
Tune Time : 18 Jan 2022 8:08 am

Daily Calibration File : C:\MS-13\New\Raw data\220118\V13971610.D

232630 373378 384151

222362

File	Sample	Surrogate Recovery %			Internal Standard Responses		
V13971610.D							
	CCV 8260	99	100	104	232630	373378	384151
				222362			
V13971613.D							
	MB-	99	100	105	210258	343847	356484
				209673			
V13971633.D							
	2201G62-00	98	99	103	230133	372007	382138
				217336			
V13971634.D							
	2201G62-00	111	100	110	201144	318598	339992
				216095			
V13971635.D							
	2201G62-00	99	100	103	222157	360193	373839
				215566			
V13971636.D							
	2201G62-00	99	99	105	217392	353064	365464
				216123			
V13971637.D							
	2201G62-00	99	99	104	219764	352841	364570
				214189			
V13971638.D							
	2201G62-00	99	100	103	214610	341392	359038
				208408			
V13971639.D							
	2201E36-00	110	100	108	196444	314343	338981
				210752			
V13971640.D							
	2201E36-00	100	99	105	213007	344103	361933
				214467			

(fails) - fails 12hr time check * - fails criteria

Created: Wed Jan 19 18:32:59 2022 MS-13

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220117\
Data File : V13971574.D
Acq On : 17 Jan 2022 8:30 am
Operator : ORM
Sample : CCV 8260 020 W (20uL/50mL)
Misc : CCV 8260B_W
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jan 17 09:14:23 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.793	168	209799	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	4.348	114	340641	50.00	ug/L		0.00
47) Chlorobenzene-d5	6.634	117	340861	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	8.689	152	195683	50.00	ug/L		-0.01
System Monitoring Compounds							
29) Dibromofluoromethane	3.775	113	105012	50.32	ug/L		0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 100.64%				
43) Toluene-d8	5.446	98	407348	50.40	ug/L		0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 100.80%				
60) 4-Bromofluorobenzene	7.659	95	172698	51.39	ug/L		0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 102.78%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.129	85	31048	16.76	ug/L		99
3) Chloromethane	1.257	50	26019	20.57	ug/L		96
4) Vinyl chloride	1.337	62	24844	20.39	ug/L		99
5) Bromomethane	1.568	94	16112	20.51	ug/L		98
6) Chloroethane	1.635	64	13383	21.54	ug/L		97
7) Trichlorofluoromethane	1.812	101	43063	21.84	ug/L		98
8) Acrolein	2.099	56	2876	15.38	ug/L		97
9) 1,1-Dichloroethene	2.166	96	32153	26.94	ug/L		96
10) Freon-113	2.184	101	33021	26.14	µg/L		98
11) Acetone	2.190	58	9052	50.36	ug/L		85
12) Iodomethane	2.275	142	123891	45.73	ug/L		99
13) Carbon disulfide	2.330	76	196661	46.46	ug/L		100
14) Methyl acetate	2.416	43	36739	22.17	µg/L		96
15) Vinyl acetate	3.019	43	166196	52.10	ug/L		97
16) Methylene chloride	2.519	84	40251	23.83	ug/L		90
17) Acrylonitrile	2.678	53	17661	21.16	ug/L		97
18) Methyl tert-butyl ether	2.708	73	101990	23.10	µg/L		92
19) trans-1,2-Dichloroethene	2.714	96	35508	23.32	ug/L		97
20) 1,1-Dichloroethane	3.019	63	67479	23.12	ug/L		98
21) 2,2-Dichloropropane	3.428	77	33782	27.32	ug/L		94
22) cis-1,2-Dichloroethene	3.422	96	37582	22.70	ug/L		97
23) 2-Butanone	3.409	72	9987	42.20	ug/L		95
24) Bromochloromethane	3.592	128	19612	22.65	ug/L		95
25) Chloroform	3.659	83	62699	21.99	ug/L		98
26) Cyclohexane	3.842	56	62305	24.40	µg/L		99
27) 1,1,1-Trichloroethane	3.781	97	53202	22.98	ug/L	#	1
30) 1,1-Dichloropropene	3.897	110	18386	22.29	ug/L		98
31) Carbon tetrachloride	3.897	119	42513	22.66	ug/L		97
32) Benzene	4.037	78	141534	22.21	ug/L		100
33) 1,2-Dichloroethane	4.074	62	50208	22.78	ug/L		99
34) Trichloroethene	4.519	130	38408	21.15	ug/L		99
35) Methylcyclohexane	4.696	55	46588	22.50	µg/L		89
36) 1,2-Dichloropropane	4.714	63	36533	22.27	ug/L		99
37) Dibromomethane	4.775	93	21515	21.38	ug/L		93
38) 1,4-Dioxane	4.763	88	3381	274.23	µg/L		97
39) Bromodichloromethane	4.909	83	44181	21.98	ug/L		99
40) 2-Chloroethyl vinyl ether	5.116	63	47597	50.00	µg/L		95
41) cis-1,3-Dichloropropene	5.244	75	52327	22.99	ug/L		96
42) 4-Methyl-2-pentanone	5.116	43	33194	45.36	ug/L	#	48
44) Toluene	5.500	92	87607	21.67	ug/L		99
45) trans-1,3-Dichloropropene	5.244	75	52327	22.99	ug/L		100
46) 1,1,2-Trichloroethane	5.842	83	25932	22.42	ug/L		99

Data Path : C:\MS-13\New\Raw data\220117\
Data File : V13971574.D
Acq On : 17 Jan 2022 8:30 am
Operator : ORM
Sample : CCV 8260 020 W (20uL/50mL)
Misc : CCV 8260B_W
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jan 17 09:14:23 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

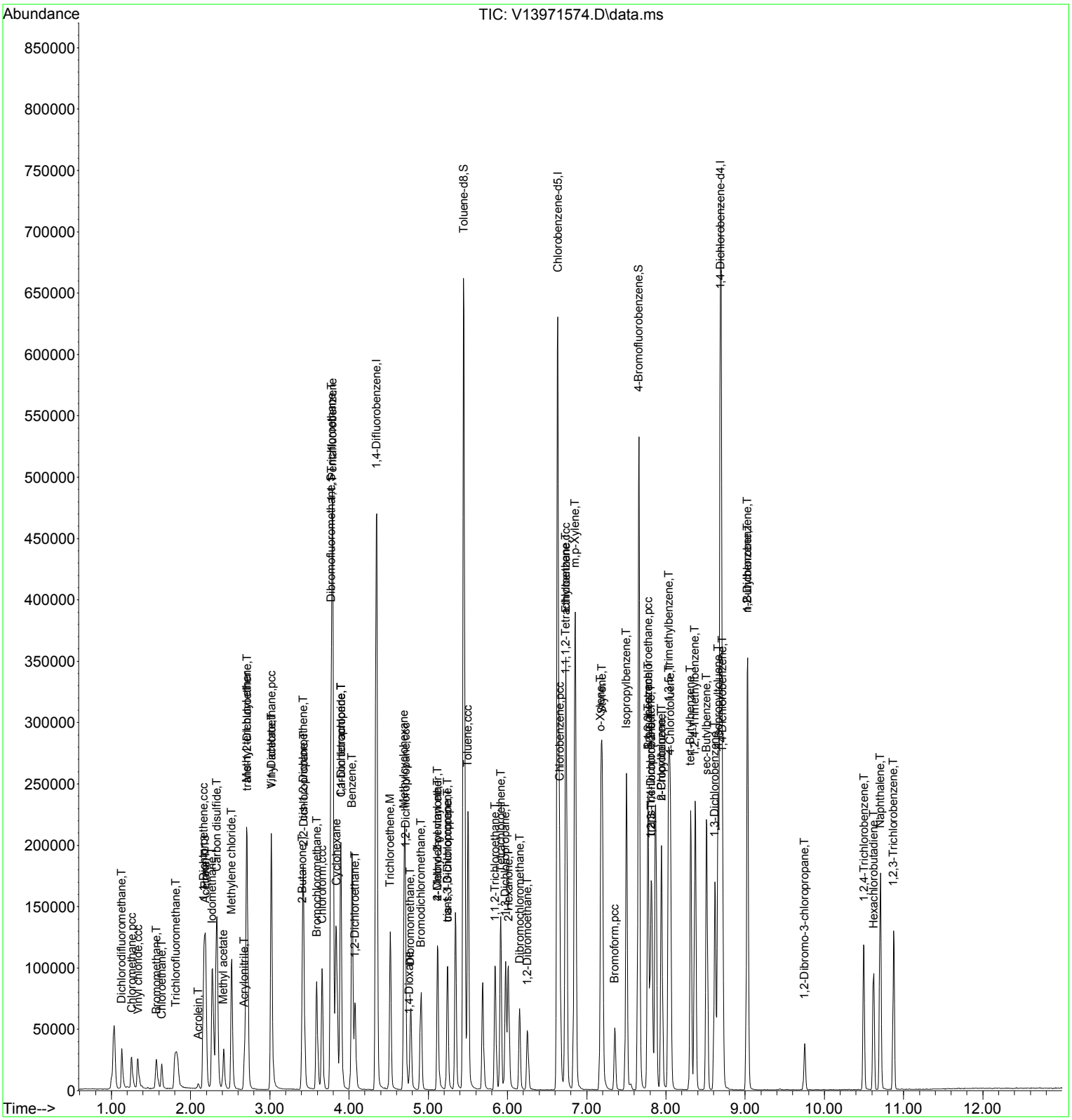
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Hexanone	6.013	43	65143	47.01	ug/L		99
49) Tetrachloroethene	5.915	166	39785	21.07	ug/L		98
50) 1,3-Dichloropropane	5.976	76	52411	21.59	ug/L		97
51) Dibromochloromethane	6.153	129	33523	21.81	ug/L		99
52) 1,2-Dibromoethane	6.250	107	32966	22.59	ug/L		95
53) Chlorobenzene	6.659	112	98458	20.98	ug/L		98
54) 1,1,1,2-Tetrachloroethane	6.732	131	32289	22.38	ug/L		98
55) Ethylbenzene	6.738	91	162362	22.14	ug/L	#	74
56) m,p-Xylene	6.854	91	256884	45.69	ug/L		99
57) o-Xylene	7.177	91	130540	22.67	ug/L		99
58) Styrene	7.195	104	105256	23.12	ug/L		100
59) Bromoform	7.354	173	23242	21.87	ug/L		98
62) Bromobenzene	7.774	156	41279	20.45	ug/L		84
63) 1,1,2,2-Tetrachloroethane	7.774	83	44834	21.14	ug/L		97
64) 1,2,3-Trichloropropane	7.817	75	59075	19.97	ug/L	#	1
65) Isopropylbenzene	7.500	105	163843	22.14	ug/L		98
66) n-Propylbenzene	7.945	91	108940	21.10	ug/L	#	51
67) trans-1,4-Dichloro-2-b...	7.811	124	5249	39.63	ug/L		77
68) 2-Chlorotoluene	7.945	91	108940	21.10	ug/L		98
69) 4-Chlorotoluene	8.055	91	126044	21.99	ug/L		98
70) 1,3,5-Trimethylbenzene	8.037	105	130186	22.49	ug/L		100
71) tert-Butylbenzene	8.311	119	126677	25.24	ug/L		98
72) 1,2,4-Trimethylbenzene	8.366	105	130831	22.72	ug/L		98
73) sec-Butylbenzene	8.512	105	154093	22.25	ug/L		99
74) 1,3-Dichlorobenzene	8.616	146	72025	20.76	ug/L		97
75) 4-Isopropyltoluene	8.658	119	133349	22.81	ug/L		99
76) 1,4-Dichlorobenzene	8.713	146	71581	20.20	ug/L		99
77) 1,2-Dichlorobenzene	9.030	146	69050	21.20	ug/L		98
78) n-Butylbenzene	9.030	91	105212	22.71	ug/L		100
79) 1,2-Dibromo-3-chloropr...	9.750	75	8771	18.20	ug/L		91
80) 1,2,4-Trichlorobenzene	10.499	180	36895	20.59	ug/L		99
81) Hexachlorobutadiene	10.621	225	16091	20.61	ug/L		97
82) Naphthalene	10.707	128	121566	19.69	ug/L		100
83) 1,2,3-Trichlorobenzene	10.871	180	34406	21.65	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220117\
Data File : V13971574.D
Acq On : 17 Jan 2022 8:30 am
Operator : ORM
Sample : CCV 8260 020 W (20uL/50mL)
Misc : CCV 8260B_W
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jan 17 09:14:23 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220117\
Data File : V13971576.D
Acq On : 17 Jan 2022 9:33 am
Operator : ORM
Sample : 5ppb
Misc : BLANK
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Jan 17 10:14:53 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.794	168	213503	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	4.348	114	348110	50.00	ug/L		0.00
47) Chlorobenzene-d5	6.635	117	348166	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	8.689	152	202852	50.00	ug/L		-0.01
System Monitoring Compounds							
29) Dibromofluoromethane	3.775	113	108988	51.10	ug/L		0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 102.20%				
43) Toluene-d8	5.446	98	417351	50.53	ug/L		0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 101.06%				
60) 4-Bromofluorobenzene	7.659	95	176479	51.42	ug/L		0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 102.84%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.129	85	7626	4.05	ug/L		94
3) Chloromethane	1.251	50	6281	4.88	ug/L		95
4) Vinyl chloride	1.331	62	5911	4.77	ug/L		91
5) Bromomethane	1.568	94	5186	6.49	ug/L		78
6) Chloroethane	1.635	64	3340	5.28	ug/L		94
7) Trichlorofluoromethane	1.806	101	9946	4.96	ug/L	#	94
8) Acrolein	2.093	56	1273	6.69	ug/L		98
9) 1,1-Dichloroethene	2.166	96	7408	6.10	ug/L		93
10) Freon-113	2.190	101	9236	7.18	µg/L		96
11) Acetone	2.190	58	2673	14.61	ug/L		84
12) Iodomethane	2.276	142	41115	14.91	ug/L		100
13) Carbon disulfide	2.330	76	67076	15.57	ug/L		100
14) Methyl acetate	2.416	43	11519	6.83	µg/L		98
15) Vinyl acetate	3.019	43	49456	15.23	ug/L		98
16) Methylene chloride	2.519	84	13409	6.53	ug/L		91
17) Acrylonitrile	2.678	53	4827	5.68	ug/L		97
18) Methyl tert-butyl ether	2.708	73	30819	6.86	µg/L		90
19) trans-1,2-Dichloroethene	2.715	96	11407	7.36	ug/L		94
20) 1,1-Dichloroethane	3.019	63	21509	7.24	ug/L		96
21) 2,2-Dichloropropane	3.428	77	10693	8.50	ug/L		100
22) cis-1,2-Dichloroethene	3.422	96	12023	7.14	ug/L		97
23) 2-Butanone	3.410	72	2987	12.40	ug/L		87
24) Bromochloromethane	3.592	128	6018	6.83	ug/L		96
25) Chloroform	3.659	83	20092	6.93	ug/L		97
26) Cyclohexane	3.836	56	22414	8.62	µg/L		95
27) 1,1,1-Trichloroethane	3.781	97	16703	7.09	ug/L	#	1
30) 1,1-Dichloropropene	3.897	110	5795	6.87	ug/L		94
31) Carbon tetrachloride	3.897	119	12905	6.73	ug/L		95
32) Benzene	4.037	78	44928	6.90	ug/L		99
33) 1,2-Dichloroethane	4.074	62	15999	7.10	ug/L		99
34) Trichloroethene	4.519	130	11773	6.34	ug/L		98
35) Methylcyclohexane	4.696	55	14527	6.87	µg/L		86
36) 1,2-Dichloropropane	4.714	63	11507	6.87	ug/L		98
37) Dibromomethane	4.775	93	6801	6.61	ug/L		96
38) 1,4-Dioxane	4.763	88	898	71.27	µg/L		94
39) Bromodichloromethane	4.909	83	13634	6.64	ug/L		98
40) 2-Chloroethyl vinyl ether	5.123	63	13935	14.33	µg/L		96
41) cis-1,3-Dichloropropene	5.245	75	15346	6.60	ug/L		96
42) 4-Methyl-2-pentanone	5.117	43	9850	13.17	ug/L	#	47
44) Toluene	5.501	92	28405	6.87	ug/L		97
45) trans-1,3-Dichloropropene	5.245	75	15346	6.60	ug/L		98
46) 1,1,2-Trichloroethane	5.848	83	7925	6.71	ug/L		97

Data Path : C:\MS-13\New\Raw data\220117\
Data File : V13971576.D
Acq On : 17 Jan 2022 9:33 am
Operator : ORM
Sample : 5ppb
Misc : BLANK
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Jan 17 10:14:53 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

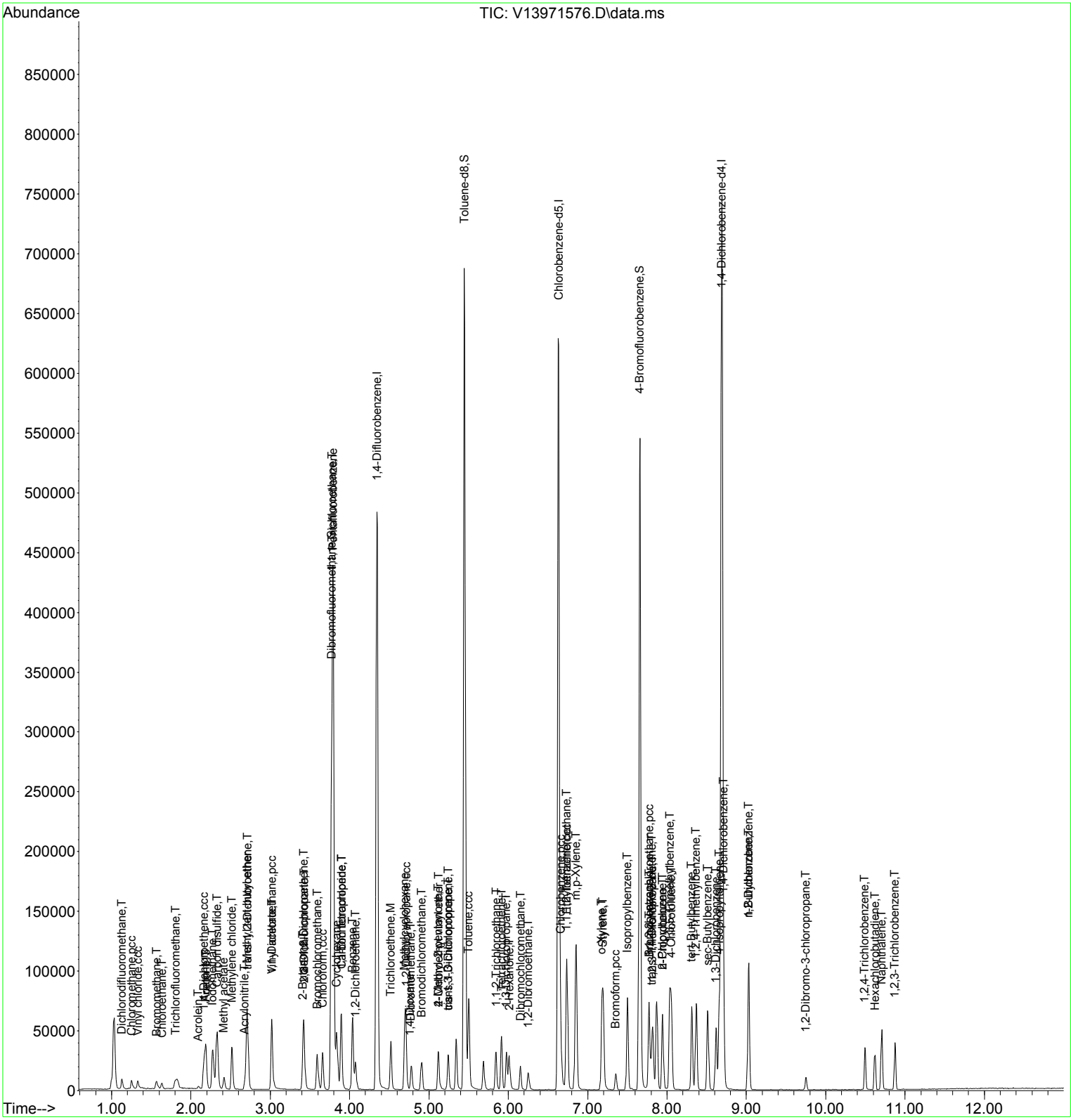
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Hexanone	6.013	43	18931	13.37	ug/L		100
49) Tetrachloroethene	5.915	166	12817	6.65	ug/L		98
50) 1,3-Dichloropropane	5.976	76	16015	6.46	ug/L		97
51) Dibromochloromethane	6.153	129	9694	6.17	ug/L		98
52) 1,2-Dibromoethane	6.250	107	9947	6.67	ug/L		95
53) Chlorobenzene	6.659	112	30851	6.43	ug/L		98
54) 1,1,1,2-Tetrachloroethane	6.732	131	9689	6.57	ug/L		93
55) Ethylbenzene	6.738	91	50722	6.77	ug/L	#	71
56) m,p-Xylene	6.854	91	80389	14.00	ug/L		97
57) o-Xylene	7.177	91	39944	6.79	ug/L		100
58) Styrene	7.195	104	31738	6.83	ug/L		94
59) Bromoform	7.354	173	6513	6.00	ug/L		94
62) Bromobenzene	7.775	156	12882	6.16	ug/L		86
63) 1,1,2,2-Tetrachloroethane	7.775	83	14148	6.44	ug/L		97
64) 1,2,3-Trichloropropane	7.817	75	19236	6.27	ug/L	#	1
65) Isopropylbenzene	7.500	105	49484	6.45	ug/L		97
66) n-Propylbenzene	7.945	91	34492	6.45	ug/L	#	51
67) trans-1,4-Dichloro-2-b...	7.811	124	1260	16.26	ug/L	#	21
68) 2-Chlorotoluene	7.945	91	34492	6.45	ug/L		97
69) 4-Chlorotoluene	8.055	91	39663	6.68	ug/L		100
70) 1,3,5-Trimethylbenzene	8.037	105	39399	6.57	ug/L		95
71) tert-Butylbenzene	8.311	119	38382	7.38	ug/L		99
72) 1,2,4-Trimethylbenzene	8.366	105	39912	6.69	ug/L		98
73) sec-Butylbenzene	8.512	105	46141	6.43	ug/L		97
74) 1,3-Dichlorobenzene	8.616	146	22509	6.26	ug/L		99
75) 4-Isopropyltoluene	8.659	119	39297	6.48	ug/L		99
76) 1,4-Dichlorobenzene	8.713	146	23284	6.34	ug/L		99
77) 1,2-Dichlorobenzene	9.030	146	21232	6.29	ug/L		98
78) n-Butylbenzene	9.030	91	31226	6.50	ug/L		98
79) 1,2-Dibromo-3-chloropr...	9.750	75	2613	5.86	ug/L		92
80) 1,2,4-Trichlorobenzene	10.493	180	11106	5.98	ug/L		93
81) Hexachlorobutadiene	10.622	225	5335	6.59	ug/L		99
82) Naphthalene	10.707	128	34629	7.12	ug/L		100
83) 1,2,3-Trichlorobenzene	10.871	180	10434	6.33	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220117\
Data File : V13971576.D
Acq On : 17 Jan 2022 9:33 am
Operator : ORM
Sample : 5ppb
Misc : BLANK
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Jan 17 10:14:53 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220117\
Data File : V13971578.D
Acq On : 17 Jan 2022 10:18 am
Operator : ORM
Sample : MB-
Misc : MBLK 8260_TCL4.2_W
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jan 17 15:35:51 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.800	168	198495	50.00	ug/L	0.00
28) 1,4-Difluorobenzene	4.348	114	329464	50.00	ug/L	0.00
47) Chlorobenzene-d5	6.634	117	338160	50.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	8.695	152	188515	50.00	ug/L	0.00
System Monitoring Compounds						
29) Dibromofluoromethane	3.775	113	102611	50.84	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 101.68%			
43) Toluene-d8	5.452	98	394928	50.52	ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 101.04%			
60) 4-Bromofluorobenzene	7.659	95	167601	50.27	ug/L	0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 100.54%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Acrolein	0.000		0	N.D.		
9) 1,1-Dichloroethene	0.000		0	N.D.		
10) Freon-113	0.000		0	N.D.		
11) Acetone	0.000		0	N.D.		
12) Iodomethane	0.000		0	N.D.		
13) Carbon disulfide	0.000		0	N.D.		
14) Methyl acetate	0.000		0	N.D.		
15) Vinyl acetate	0.000		0	N.D.		
16) Methylene chloride	0.000		0	N.D.		
17) Acrylonitrile	0.000		0	N.D.		
18) Methyl tert-butyl ether	0.000		0	N.D.		
19) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) 1,1-Dichloroethane	0.000		0	N.D.		
21) 2,2-Dichloropropane	0.000		0	N.D.		
22) cis-1,2-Dichloroethene	0.000		0	N.D.		
23) 2-Butanone	0.000		0	N.D.		
24) Bromochloromethane	0.000		0	N.D.		
25) Chloroform	0.000		0	N.D.		
26) Cyclohexane	0.000		0	N.D.	d	
27) 1,1,1-Trichloroethane	0.000		0	N.D.		
30) 1,1-Dichloropropene	0.000		0	N.D.	d	
31) Carbon tetrachloride	0.000		0	N.D.		
32) Benzene	0.000		0	N.D.		
33) 1,2-Dichloroethane	0.000		0	N.D.	d	
34) Trichloroethene	0.000		0	N.D.		
35) Methylcyclohexane	0.000		0	N.D.		
36) 1,2-Dichloropropane	0.000		0	N.D.	d	
37) Dibromomethane	0.000		0	N.D.	d	
38) 1,4-Dioxane	0.000		0	N.D.	d	
39) Bromodichloromethane	0.000		0	N.D.		
40) 2-Chloroethyl vinyl ether	0.000		0	N.D.		
41) cis-1,3-Dichloropropene	0.000		0	N.D.		
42) 4-Methyl-2-pentanone	0.000		0	N.D.	d	
44) Toluene	0.000		0	N.D.		
45) trans-1,3-Dichloropropene	0.000		0	N.D.		
46) 1,1,2-Trichloroethane	0.000		0	N.D.		

Data Path : C:\MS-13\New\Raw data\220117\
Data File : V13971578.D
Acq On : 17 Jan 2022 10:18 am
Operator : ORM
Sample : MB-
Misc : MBLK 8260_TCL4.2_W
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jan 17 15:35:51 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

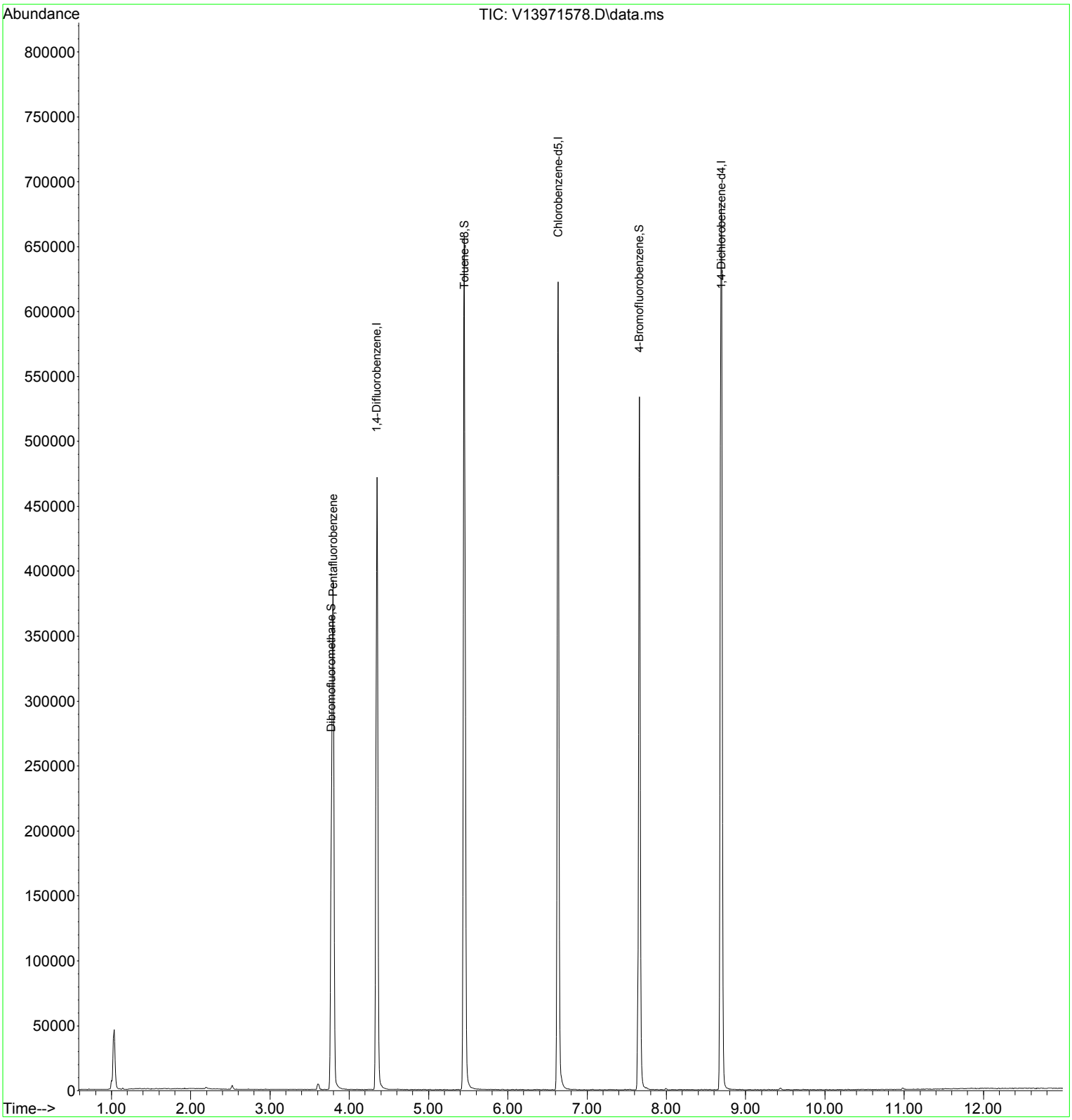
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	0.000		0	N.D.		
49) Tetrachloroethene	0.000		0	N.D.		
50) 1,3-Dichloropropane	0.000		0	N.D.		
51) Dibromochloromethane	0.000		0	N.D.		
52) 1,2-Dibromoethane	0.000		0	N.D.		
53) Chlorobenzene	0.000		0	N.D.		
54) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
55) Ethylbenzene	0.000		0	N.D.		
56) m,p-Xylene	0.000		0	N.D.		
57) o-Xylene	0.000		0	N.D.		
58) Styrene	0.000		0	N.D.		
59) Bromoform	0.000		0	N.D.		
62) Bromobenzene	0.000		0	N.D.		
63) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
64) 1,2,3-Trichloropropane	0.000		0	N.D.	d	
65) Isopropylbenzene	0.000		0	N.D.		
66) n-Propylbenzene	0.000		0	N.D.		
67) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
68) 2-Chlorotoluene	0.000		0	N.D.		
69) 4-Chlorotoluene	0.000		0	N.D.		
70) 1,3,5-Trimethylbenzene	0.000		0	N.D.		
71) tert-Butylbenzene	0.000		0	N.D.		
72) 1,2,4-Trimethylbenzene	0.000		0	N.D.		
73) sec-Butylbenzene	0.000		0	N.D.		
74) 1,3-Dichlorobenzene	0.000		0	N.D.		
75) 4-Isopropyltoluene	0.000		0	N.D.		
76) 1,4-Dichlorobenzene	0.000		0	N.D.		
77) 1,2-Dichlorobenzene	0.000		0	N.D.		
78) n-Butylbenzene	0.000		0	N.D.		
79) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
80) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
81) Hexachlorobutadiene	0.000		0	N.D.		
82) Naphthalene	0.000		0	N.D.		
83) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220117\
Data File : V13971578.D
Acq On : 17 Jan 2022 10:18 am
Operator : ORM
Sample : MB-
Misc : MBLK 8260_TCL4.2_W
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jan 17 15:35:51 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220117\
Data File : V13971585.D
Acq On : 17 Jan 2022 12:52 pm
Operator : ORM
Sample : 2201A78-001A 1/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 65 Sample Multiplier: 1

Quant Time: Jan 18 07:42:19 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	3.793	168	193995	50.00 ug/L	0.00
28) 1,4-Difluorobenzene	4.348	114	321774	50.00 ug/L	0.00
47) Chlorobenzene-d5	6.634	117	340210	50.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	8.695	152	189789	50.00 ug/L	0.00
System Monitoring Compounds					
29) Dibromofluoromethane	3.775	113	95238	48.31 ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 96.62%		
43) Toluene-d8	5.452	98	398564	52.20 ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 104.40%		
60) 4-Bromofluorobenzene	7.659	95	168249	50.16 ug/L	0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 100.32%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.257	50	76157	65.11 ug/L	98
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	1.568	94	95957	132.12 ug/L	99
6) Chloroethane	1.635	64	2788	4.85 ug/L #	77
7) Trichlorofluoromethane	0.000		0	N.D.	
8) Acrolein	0.000		0	N.D.	
9) 1,1-Dichloroethene	0.000		0	N.D.	
10) Freon-113	0.000		0	N.D.	
11) Acetone	2.190	58	41429	249.28 ug/L	85
12) Iodomethane	0.000		0	N.D.	
13) Carbon disulfide	0.000		0	N.D. d	
14) Methyl acetate	0.000		0	N.D. d	
15) Vinyl acetate	0.000		0	N.D. d	
16) Methylene chloride	2.525	84	3107	0.26 ug/L	88
17) Acrylonitrile	2.678	53	629498	815.52 ug/L	99
18) Methyl tert-butyl ether	0.000		0	N.D.	
19) trans-1,2-Dichloroethene	0.000		0	N.D.	
20) 1,1-Dichloroethane	0.000		0	N.D.	
21) 2,2-Dichloropropane	0.000		0	N.D. d	
22) cis-1,2-Dichloroethene	0.000		0	N.D.	
23) 2-Butanone	3.409	72	20858	95.31 ug/L	92
24) Bromochloromethane	0.000		0	N.D.	
25) Chloroform	3.665	83	9706	3.68 ug/L	95
26) Cyclohexane	0.000		0	N.D. d	
27) 1,1,1-Trichloroethane	0.000		0	N.D.	
30) 1,1-Dichloropropene	0.000		0	N.D. d	
31) Carbon tetrachloride	0.000		0	N.D.	
32) Benzene	4.037	78	2838473	471.49 ug/L	100
33) 1,2-Dichloroethane	0.000		0	N.D. d	
34) Trichloroethene	0.000		0	N.D.	
35) Methylcyclohexane	0.000		0	N.D. d	
36) 1,2-Dichloropropane	0.000		0	N.D. d	
37) Dibromomethane	0.000		0	N.D. d	
38) 1,4-Dioxane	0.000		0	N.D. d	
39) Bromodichloromethane	0.000		0	N.D.	
40) 2-Chloroethyl vinyl ether	0.000		0	N.D. d	
41) cis-1,3-Dichloropropene	0.000		0	N.D. d	
42) 4-Methyl-2-pentanone	0.000		0	N.D. d	
44) Toluene	5.507	92	1926163	504.27 ug/L	95
45) trans-1,3-Dichloropropene	0.000		0	N.D. d	
46) 1,1,2-Trichloroethane	0.000		0	N.D. d	

Data Path : C:\MS-13\New\Raw data\220117\
Data File : V13971585.D
Acq On : 17 Jan 2022 12:52 pm
Operator : ORM
Sample : 2201A78-001A 1/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 65 Sample Multiplier: 1

Quant Time: Jan 18 07:42:19 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

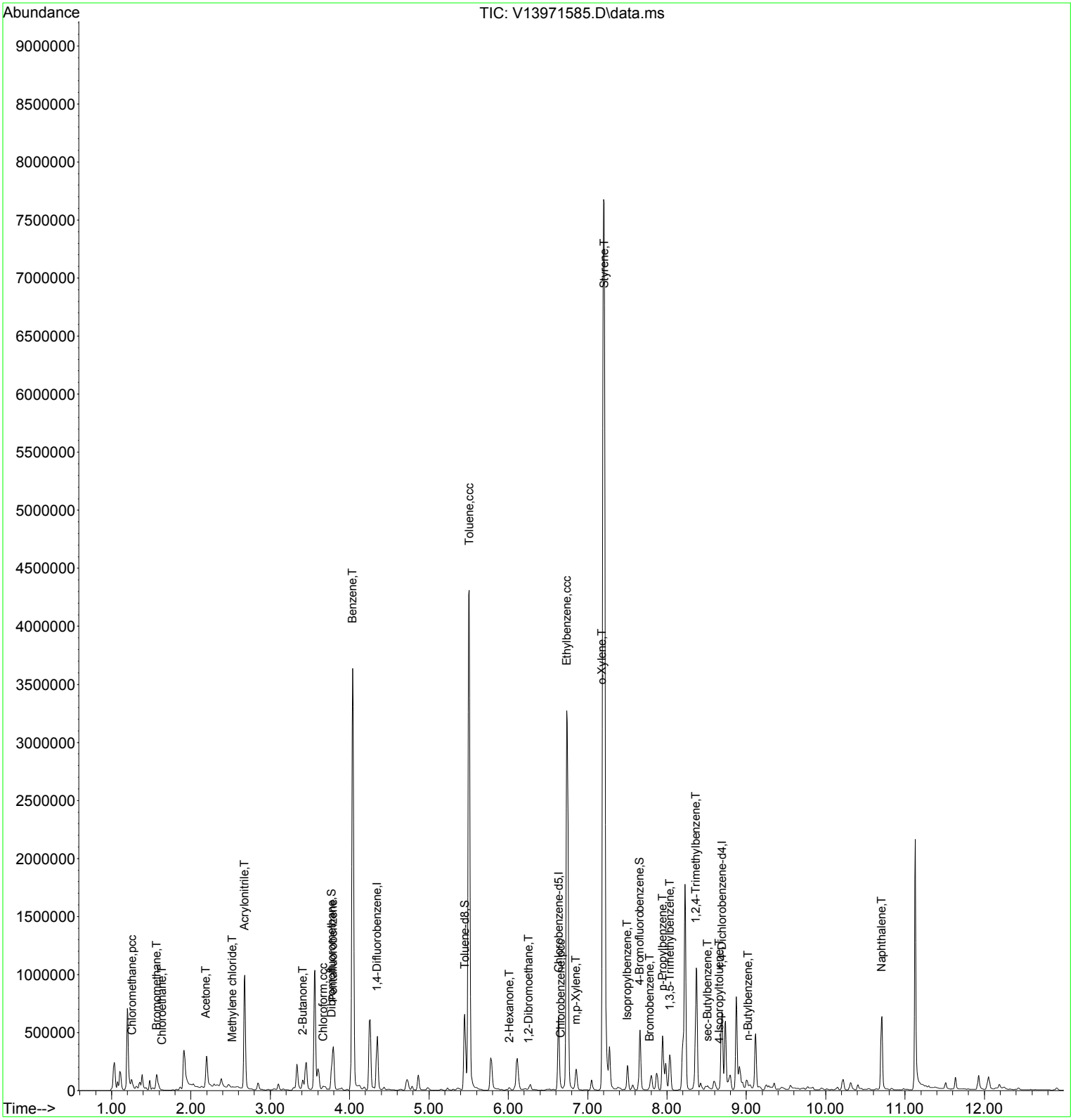
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) 2-Hexanone	6.013	43	5982	4.33 ug/L	98
49) Tetrachloroethene	0.000		0	N.D.	
50) 1,3-Dichloropropane	0.000		0	N.D.	
51) Dibromochloromethane	0.000		0	N.D.	
52) 1,2-Dibromoethane	6.256	107	3738	2.57 ug/L #	98
53) Chlorobenzene	6.659	112	9162	1.96 ug/L	97
54) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
55) Ethylbenzene	6.738	91	2370092	323.85 ug/L #	75
56) m,p-Xylene	6.854	91	114979	20.49 ug/L	100
57) o-Xylene	7.183	91	85639	14.90 ug/L	88
58) Styrene	7.207	104	5177640	1139.63 ug/L	94
59) Bromoform	0.000		0	N.D.	
62) Bromobenzene	7.780	156	5304	2.71 ug/L	81
63) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
64) 1,2,3-Trichloropropane	0.000		0	N.D. d	
65) Isopropylbenzene	7.500	105	140472	19.57 ug/L	100
66) n-Propylbenzene	7.945	91	47232	9.43 ug/L #	1
67) trans-1,4-Dichloro-2-b...	0.000		0	N.D.	
68) 2-Chlorotoluene	0.000		0	N.D. d	
69) 4-Chlorotoluene	0.000		0	N.D. d	
70) 1,3,5-Trimethylbenzene	8.037	105	162014	28.86 ug/L	100
71) tert-Butylbenzene	0.000		0	N.D. d	
72) 1,2,4-Trimethylbenzene	8.366	105	593586	106.29 ug/L	99
73) sec-Butylbenzene	8.512	105	8839	1.32 ug/L	99
74) 1,3-Dichlorobenzene	0.000		0	N.D.	
75) 4-Isopropyltoluene	8.658	119	5366	0.95 ug/L	95
76) 1,4-Dichlorobenzene	0.000		0	N.D.	
77) 1,2-Dichlorobenzene	0.000		0	N.D.	
78) n-Butylbenzene	9.024	91	18401	4.10 ug/L #	78
79) 1,2-Dibromo-3-chloropr...	0.000		0	N.D. d	
80) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
81) Hexachlorobutadiene	0.000		0	N.D.	
82) Naphthalene	10.707	128	458431	69.74 ug/L	100
83) 1,2,3-Trichlorobenzene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220117\
Data File : V13971585.D
Acq On : 17 Jan 2022 12:52 pm
Operator : ORM
Sample : 2201A78-001A 1/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 65 Sample Multiplier: 1

Quant Time: Jan 18 07:42:19 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220117\
Data File : V13971586.D
Acq On : 17 Jan 2022 1:18 pm
Operator : ORM
Sample : 2201A78-001A *20 1/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Jan 18 07:43:54 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	3.794	168	230876	50.00 ug/L	0.00
28) 1,4-Difluorobenzene	4.348	114	381962	50.00 ug/L	0.00
47) Chlorobenzene-d5	6.634	117	383820	50.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	8.689	152	214375	50.00 ug/L	-0.01
System Monitoring Compounds					
29) Dibromofluoromethane	3.775	113	115744	49.46 ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 98.92%		
43) Toluene-d8	5.452	98	452209	49.90 ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 99.80%		
60) 4-Bromofluorobenzene	7.659	95	188881	49.92 ug/L	0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 99.84%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.251	50	4394	3.16 ug/L	87
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	1.574	94	3680	4.26 ug/L	85
6) Chloroethane	0.000		0	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
8) Acrolein	0.000		0	N.D.	
9) 1,1-Dichloroethene	0.000		0	N.D.	
10) Freon-113	0.000		0	N.D.	
11) Acetone	2.190	58	2581	13.05 ug/L	76
12) Iodomethane	0.000		0	N.D.	
13) Carbon disulfide	0.000		0	N.D.	
14) Methyl acetate	0.000		0	N.D. d	
15) Vinyl acetate	0.000		0	N.D.	
16) Methylene chloride	2.513	84	2751	Below Cal	85
17) Acrylonitrile	2.678	53	33966	36.97 ug/L	99
18) Methyl tert-butyl ether	0.000		0	N.D.	
19) trans-1,2-Dichloroethene	0.000		0	N.D.	
20) 1,1-Dichloroethane	0.000		0	N.D.	
21) 2,2-Dichloropropane	0.000		0	N.D.	
22) cis-1,2-Dichloroethene	0.000		0	N.D.	
23) 2-Butanone	0.000		0	N.D. d	
24) Bromochloromethane	0.000		0	N.D.	
25) Chloroform	0.000		0	N.D.	
26) Cyclohexane	0.000		0	N.D. d	
27) 1,1,1-Trichloroethane	0.000		0	N.D.	
30) 1,1-Dichloropropene	0.000		0	N.D. d	
31) Carbon tetrachloride	0.000		0	N.D.	
32) Benzene	4.037	78	164539	23.02 ug/L	99
33) 1,2-Dichloroethane	0.000		0	N.D. d	
34) Trichloroethene	0.000		0	N.D.	
35) Methylcyclohexane	0.000		0	N.D.	
36) 1,2-Dichloropropane	0.000		0	N.D. d	
37) Dibromomethane	0.000		0	N.D. d	
38) 1,4-Dioxane	0.000		0	N.D. d	
39) Bromodichloromethane	0.000		0	N.D.	
40) 2-Chloroethyl vinyl ether	0.000		0	N.D.	
41) cis-1,3-Dichloropropene	0.000		0	N.D.	
42) 4-Methyl-2-pentanone	0.000		0	N.D. d	
44) Toluene	5.501	92	108534	23.94 ug/L	100
45) trans-1,3-Dichloropropene	0.000		0	N.D.	
46) 1,1,2-Trichloroethane	0.000		0	N.D.	

Data Path : C:\MS-13\New\Raw data\220117\
Data File : V13971586.D
Acq On : 17 Jan 2022 1:18 pm
Operator : ORM
Sample : 2201A78-001A *20 1/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Jan 18 07:43:54 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

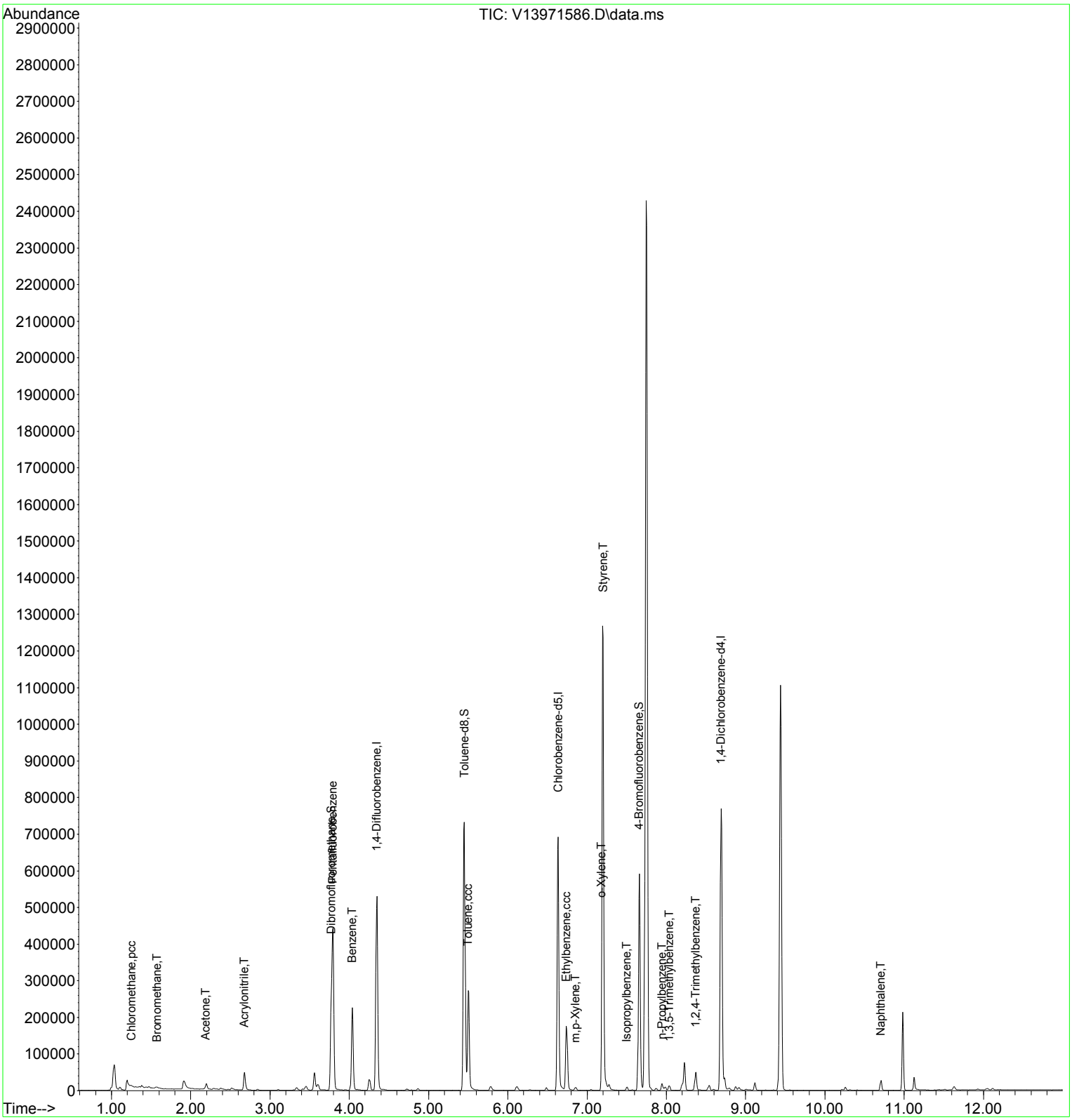
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) 2-Hexanone	0.000		0	N.D. d	
49) Tetrachloroethene	0.000		0	N.D.	
50) 1,3-Dichloropropane	0.000		0	N.D.	
51) Dibromochloromethane	0.000		0	N.D.	
52) 1,2-Dibromoethane	0.000		0	N.D.	
53) Chlorobenzene	0.000		0	N.D.	
54) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
55) Ethylbenzene	6.738	91	122254	14.81 ug/L #	71
56) m,p-Xylene	6.854	91	7281	1.15 ug/L	99
57) o-Xylene	7.183	91	6580	1.01 ug/L	91
58) Styrene	7.201	104	624030	121.75 ug/L	93
59) Bromoform	0.000		0	N.D.	
62) Bromobenzene	0.000		0	N.D.	
63) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
64) 1,2,3-Trichloropropane	0.000		0	N.D. d	
65) Isopropylbenzene	7.500	105	6145	0.76 ug/L	97
66) n-Propylbenzene	7.945	91	2171	0.38 ug/L #	1
67) trans-1,4-Dichloro-2-b...	0.000		0	N.D.	
68) 2-Chlorotoluene	0.000		0	N.D. d	
69) 4-Chlorotoluene	0.000		0	N.D. d	
70) 1,3,5-Trimethylbenzene	8.037	105	7102	1.12 ug/L	96
71) tert-Butylbenzene	0.000		0	N.D. d	
72) 1,2,4-Trimethylbenzene	8.372	105	27217	4.31 ug/L	91
73) sec-Butylbenzene	0.000		0	N.D. d	
74) 1,3-Dichlorobenzene	0.000		0	N.D.	
75) 4-Isopropyltoluene	0.000		0	N.D. d	
76) 1,4-Dichlorobenzene	0.000		0	N.D.	
77) 1,2-Dichlorobenzene	0.000		0	N.D.	
78) n-Butylbenzene	0.000		0	N.D. d	
79) 1,2-Dibromo-3-chloropr...	0.000		0	N.D. d	
80) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
81) Hexachlorobutadiene	0.000		0	N.D.	
82) Naphthalene	10.707	128	19845	4.94 ug/L	100
83) 1,2,3-Trichlorobenzene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220117\
Data File : V13971586.D
Acq On : 17 Jan 2022 1:18 pm
Operator : ORM
Sample : 2201A78-001A *20 1/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Jan 18 07:43:54 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220118\
Data File : V13971610.D
Acq On : 18 Jan 2022 8:08 am
Operator : ORM
Sample : CCV 8260 020 W (20uL/50mL)
Misc : CCV 8260B_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 18 08:31:25 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.793	168	232630	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	4.342	114	373378	50.00	ug/L		0.00
47) Chlorobenzene-d5	6.634	117	384151	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	8.689	152	222362	50.00	ug/L		-0.01
System Monitoring Compounds							
29) Dibromofluoromethane	3.775	113	113542	49.64	ug/L		0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 99.28%				
43) Toluene-d8	5.446	98	441852	49.87	ug/L		0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 99.74%				
60) 4-Bromofluorobenzene	7.652	95	196777	51.96	ug/L		-0.01
Spiked Amount 50.000	Range 64 - 125		Recovery = 103.92%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.129	85	32815	15.98	ug/L		98
3) Chloromethane	1.251	50	29502	21.03	ug/L		100
4) Vinyl chloride	1.331	62	27202	20.13	ug/L		100
5) Bromomethane	1.562	94	19302	22.16	ug/L		96
6) Chloroethane	1.635	64	15017	21.80	ug/L		99
7) Trichlorofluoromethane	1.806	101	44530	20.36	ug/L	#	98
8) Acrolein	2.093	56	4915	23.71	ug/L		96
9) 1,1-Dichloroethene	2.166	96	30380	22.96	ug/L		95
10) Freon-113	2.184	101	30070	21.47	µg/L		98
11) Acetone	2.190	58	8491	42.61	ug/L		87
12) Iodomethane	2.269	142	122297	40.71	ug/L		100
13) Carbon disulfide	2.324	76	198414	42.27	ug/L		100
14) Methyl acetate	2.416	43	32792	17.85	µg/L		98
15) Vinyl acetate	3.019	43	161085	45.54	ug/L		98
16) Methylene chloride	2.513	84	36819	19.32	ug/L		85
17) Acrylonitrile	2.678	53	17181	18.56	ug/L		96
18) Methyl tert-butyl ether	2.702	73	102095	20.85	µg/L		93
19) trans-1,2-Dichloroethene	2.714	96	33830	20.04	ug/L		97
20) 1,1-Dichloroethane	3.019	63	63159	19.52	ug/L		97
21) 2,2-Dichloropropane	3.422	77	35541	25.92	ug/L		95
22) cis-1,2-Dichloroethene	3.422	96	36722	20.01	ug/L		91
23) 2-Butanone	3.409	72	9151	34.87	ug/L		93
24) Bromochloromethane	3.592	128	19298	20.10	ug/L		99
25) Chloroform	3.659	83	60325	19.08	ug/L		98
26) Cyclohexane	3.836	56	58135	20.53	µg/L		98
27) 1,1,1-Trichloroethane	3.781	97	49895	19.43	ug/L	#	1
30) 1,1-Dichloropropene	3.897	110	16938	18.73	ug/L		96
31) Carbon tetrachloride	3.897	119	39353	19.13	ug/L		99
32) Benzene	4.037	78	134890	19.31	ug/L		99
33) 1,2-Dichloroethane	4.074	62	49032	20.29	ug/L		99
34) Trichloroethene	4.519	130	37218	18.70	ug/L		96
35) Methylcyclohexane	4.696	55	43955	19.37	µg/L		89
36) 1,2-Dichloropropane	4.708	63	34080	18.96	ug/L		99
37) Dibromomethane	4.781	93	21011	19.05	ug/L		97
38) 1,4-Dioxane	4.757	88	2988	221.10	µg/L		98
39) Bromodichloromethane	4.903	83	43161	19.59	ug/L		99
40) 2-Chloroethyl vinyl ether	5.116	63	46214	44.29	µg/L		98
41) cis-1,3-Dichloropropene	5.238	75	51276	20.55	ug/L		98
42) 4-Methyl-2-pentanone	5.116	43	32248	40.20	ug/L	#	49
44) Toluene	5.500	92	82802	18.68	ug/L		99
45) trans-1,3-Dichloropropene	5.238	75	51276	20.55	ug/L		96
46) 1,1,2-Trichloroethane	5.842	83	24640	19.44	ug/L		97

Data Path : C:\MS-13\New\Raw data\220118\
Data File : V13971610.D
Acq On : 18 Jan 2022 8:08 am
Operator : ORM
Sample : CCV 8260 020 W (20uL/50mL)
Misc : CCV 8260B_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 18 08:31:25 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

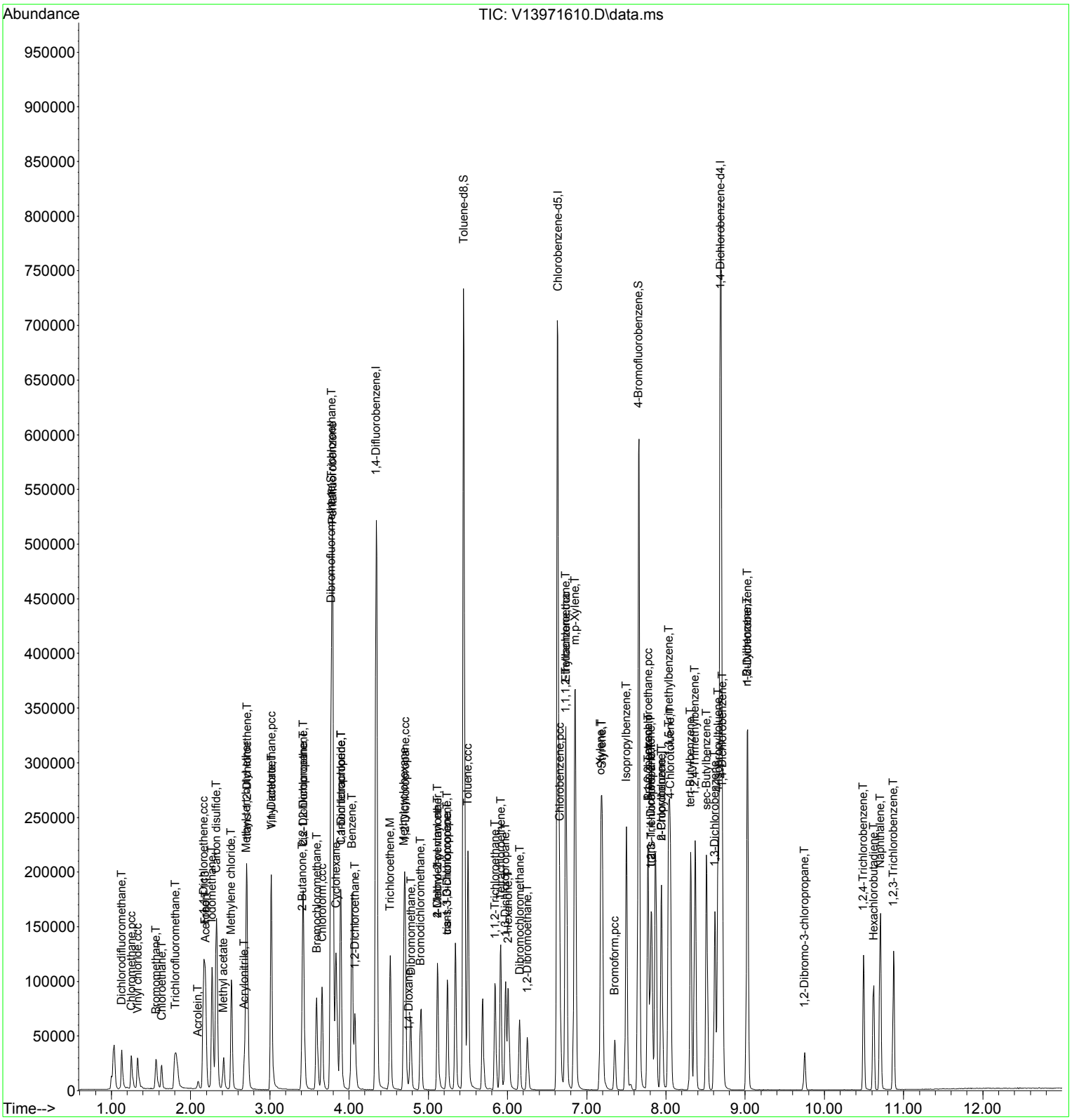
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Hexanone	6.006	43	61039	39.08	ug/L		98
49) Tetrachloroethene	5.915	166	37144	17.46	ug/L		96
50) 1,3-Dichloropropane	5.976	76	50915	18.61	ug/L		97
51) Dibromochloromethane	6.153	129	32008	18.48	ug/L		97
52) 1,2-Dibromoethane	6.250	107	31171	18.95	ug/L		97
53) Chlorobenzene	6.659	112	94085	17.78	ug/L		97
54) 1,1,1,2-Tetrachloroethane	6.732	131	30634	18.84	ug/L		97
55) Ethylbenzene	6.738	91	155490	18.82	ug/L	#	72
56) m,p-Xylene	6.854	91	247441	39.05	ug/L		100
57) o-Xylene	7.177	91	125758	19.38	ug/L		99
58) Styrene	7.195	104	100666	19.62	ug/L		99
59) Bromoform	7.354	173	21442	17.90	ug/L		99
62) Bromobenzene	7.774	156	39343	17.15	ug/L		84
63) 1,1,2,2-Tetrachloroethane	7.774	83	41887	17.38	ug/L		99
64) 1,2,3-Trichloropropane	7.817	75	59974	17.84	ug/L	#	1
65) Isopropylbenzene	7.500	105	156883	18.66	ug/L		98
66) n-Propylbenzene	7.945	91	103499	17.64	ug/L	#	51
67) trans-1,4-Dichloro-2-b...	7.811	124	4912	34.27	ug/L		71
68) 2-Chlorotoluene	7.945	91	103499	17.64	ug/L		94
69) 4-Chlorotoluene	8.055	91	121139	18.60	ug/L		97
70) 1,3,5-Trimethylbenzene	8.037	105	124750	18.97	ug/L		96
71) tert-Butylbenzene	8.311	119	120428	21.11	ug/L		99
72) 1,2,4-Trimethylbenzene	8.366	105	126749	19.37	ug/L		98
73) sec-Butylbenzene	8.512	105	149171	18.96	ug/L		97
74) 1,3-Dichlorobenzene	8.616	146	69910	17.73	ug/L		98
75) 4-Isopropyltoluene	8.658	119	127512	19.20	ug/L		98
76) 1,4-Dichlorobenzene	8.713	146	69564	17.28	ug/L		100
77) 1,2-Dichlorobenzene	9.030	146	66054	17.84	ug/L		97
78) n-Butylbenzene	9.024	91	101732	19.33	ug/L		97
79) 1,2-Dibromo-3-chloropr...	9.750	75	8309	15.32	ug/L		94
80) 1,2,4-Trichlorobenzene	10.493	180	36671	18.01	ug/L		97
81) Hexachlorobutadiene	10.621	225	16565	18.67	ug/L		96
82) Naphthalene	10.707	128	114692	16.74	ug/L		100
83) 1,2,3-Trichlorobenzene	10.871	180	34299	19.00	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220118\
Data File : V13971610.D
Acq On : 18 Jan 2022 8:08 am
Operator : ORM
Sample : CCV 8260 020 W (20uL/50mL)
Misc : CCV 8260B_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 18 08:31:25 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220118\
Data File : V13971611.D
Acq On : 18 Jan 2022 8:47 am
Operator : ORM
Sample : 1ppb
Misc : BLANK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 18 11:04:18 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.793	168	236353	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	4.342	114	380198m	50.00	ug/L		0.00
47) Chlorobenzene-d5	6.634	117	393716	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	8.689	152	228018	50.00	ug/L		-0.01
System Monitoring Compounds							
29) Dibromofluoromethane	3.775	113	116574	50.05	ug/L		0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 100.10%				
43) Toluene-d8	5.445	98	448678	49.74	ug/L		0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 99.48%				
60) 4-Bromofluorobenzene	7.658	95	200726	51.71	ug/L		0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 103.42%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.129	85	1482	0.71	ug/L		90
3) Chloromethane	1.257	50	1583	1.11	ug/L		89
4) Vinyl chloride	1.330	62	1270	0.93	ug/L		93
5) Bromomethane	1.568	94	1961	2.22	ug/L		78
6) Chloroethane	1.629	64	830	1.19	ug/L		94
7) Trichlorofluoromethane	1.812	101	1946	0.88	ug/L	#	93
8) Acrolein	0.000		0	N.D.			
9) 1,1-Dichloroethene	2.166	96	1562	1.16	ug/L		92
10) Freon-113	2.178	101	1587	1.12	µg/L		95
11) Acetone	2.196	58	474	2.34	ug/L		70
12) Iodomethane	2.275	142	8839	2.90	ug/L		98
13) Carbon disulfide	2.324	76	13904	2.92	ug/L		100
14) Methyl acetate	2.416	43	2334	1.25	µg/L		94
15) Vinyl acetate	3.019	43	9372	2.61	ug/L		96
16) Methylene chloride	2.513	84	5315	1.12	ug/L		80
17) Acrylonitrile	0.000		0	N.D.			
18) Methyl tert-butyl ether	2.708	73	6716	1.35	µg/L	#	90
19) trans-1,2-Dichloroethene	2.714	96	2377	1.39	ug/L		95
20) 1,1-Dichloroethane	3.019	63	4454	1.35	ug/L		96
21) 2,2-Dichloropropane	3.421	77	2408	1.73	ug/L		87
22) cis-1,2-Dichloroethene	3.421	96	2603	1.40	ug/L		95
23) 2-Butanone	3.409	72	513	1.92	ug/L		89
24) Bromochloromethane	3.592	128	1244	1.28	ug/L		90
25) Chloroform	3.659	83	4382	1.36	ug/L		90
26) Cyclohexane	3.787	56	8024	2.79	µg/L	#	1
27) 1,1,1-Trichloroethane	3.781	97	3729	1.43	ug/L	#	1
30) 1,1-Dichloropropene	3.897	110	1280	1.39	ug/L		67
31) Carbon tetrachloride	3.897	119	2747	1.31	ug/L		88
32) Benzene	4.037	78	10047	1.41	ug/L		97
33) 1,2-Dichloroethane	4.074	62	3424	1.39	ug/L		97
34) Trichloroethene	4.519	130	2611	1.29	ug/L		90
35) Methylcyclohexane	4.696	55	2886	1.25	µg/L		81
36) 1,2-Dichloropropane	4.708	63	2530	1.38	ug/L	#	87
37) Dibromomethane	4.775	93	1621	1.44	ug/L		85
38) 1,4-Dioxane	4.757	88	395	28.70	µg/L		87
39) Bromodichloromethane	4.909	83	2973	1.33	ug/L		94
40) 2-Chloroethyl vinyl ether	5.122	63	2700	2.54	µg/L		94
41) cis-1,3-Dichloropropene	5.238	75	3044	1.20	ug/L		94
42) 4-Methyl-2-pentanone	5.116	43	1960	2.40	ug/L	#	47
44) Toluene	5.500	92	5980	1.32	ug/L		99
45) trans-1,3-Dichloropropene	5.238	75	3044	1.20	ug/L		98
46) 1,1,2-Trichloroethane	5.842	83	1729	1.34	ug/L		90

Data Path : C:\MS-13\New\Raw data\220118\
Data File : V13971611.D
Acq On : 18 Jan 2022 8:47 am
Operator : ORM
Sample : 1ppb
Misc : BLANK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 18 11:04:18 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

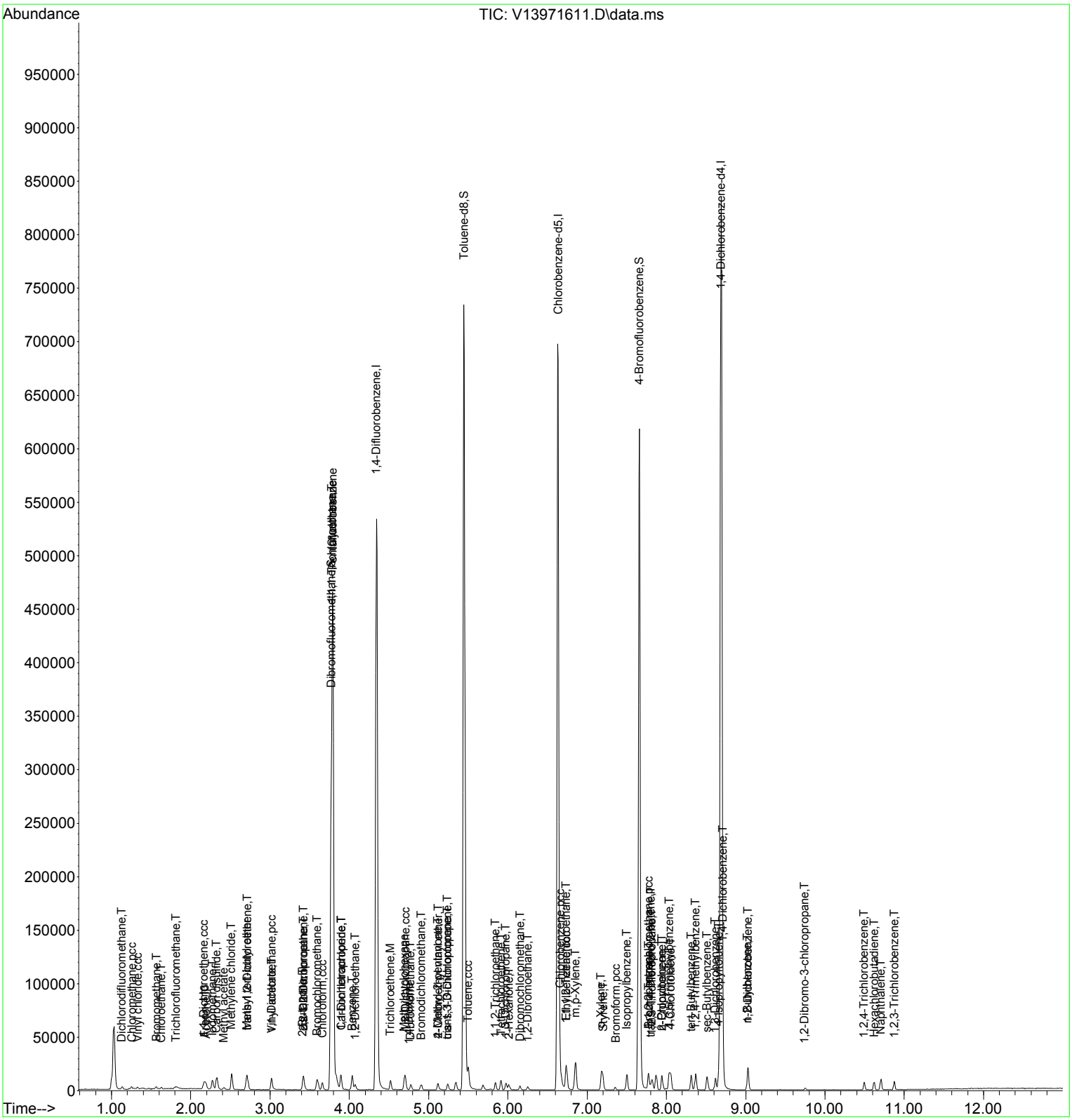
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) 2-Hexanone	6.012	43	3703	2.31 ug/L #	96
49) Tetrachloroethene	5.915	166	2630	1.21 ug/L	92
50) 1,3-Dichloropropane	5.976	76	3469	1.24 ug/L	97
51) Dibromochloromethane	6.153	129	2144	1.21 ug/L	99
52) 1,2-Dibromoethane	6.250	107	2090	1.24 ug/L #	92
53) Chlorobenzene	6.659	112	6753	1.25 ug/L	94
54) 1,1,1,2-Tetrachloroethane	6.732	131	1904	1.14 ug/L	88
55) Ethylbenzene	6.738	91	10764	1.27 ug/L #	71
56) m,p-Xylene	6.854	91	17587	2.71 ug/L	97
57) o-Xylene	7.177	91	8505	1.28 ug/L	98
58) Styrene	7.201	104	6474	1.23 ug/L	89
59) Bromoform	7.360	173	1297	1.06 ug/L #	79
62) Bromobenzene	7.774	156	2834	1.20 ug/L	82
63) 1,1,2,2-Tetrachloroethane	7.774	83	2764	1.12 ug/L	84
64) 1,2,3-Trichloropropane	7.817	75	3717	1.08 ug/L #	1
65) Isopropylbenzene	7.500	105	10126	1.17 ug/L	97
66) n-Propylbenzene	7.945	91	7630	1.27 ug/L #	56
67) trans-1,4-Dichloro-2-b...	7.805	124	143	9.93 ug/L #	57
68) 2-Chlorotoluene	7.945	91	7630	1.27 ug/L	97
69) 4-Chlorotoluene	8.055	91	8598	1.29 ug/L	95
70) 1,3,5-Trimethylbenzene	8.036	105	8026	1.19 ug/L	99
71) tert-Butylbenzene	8.317	119	7971	1.36 ug/L	93
72) 1,2,4-Trimethylbenzene	8.366	105	8582	1.28 ug/L	95
73) sec-Butylbenzene	8.512	105	9214	1.14 ug/L	98
74) 1,3-Dichlorobenzene	8.616	146	4967	1.23 ug/L	99
75) 4-Isopropyltoluene	8.658	119	7983	1.17 ug/L	98
76) 1,4-Dichlorobenzene	8.713	146	5227	1.27 ug/L	92
77) 1,2-Dichlorobenzene	9.030	146	4712	1.24 ug/L	91
78) n-Butylbenzene	9.024	91	6043	1.12 ug/L	93
79) 1,2-Dibromo-3-chloropr...	9.743	75	487	1.71 ug/L #	55
80) 1,2,4-Trichlorobenzene	10.493	180	2731	1.31 ug/L	96
81) Hexachlorobutadiene	10.621	225	1356	1.49 ug/L	85
82) Naphthalene	10.707	128	7385	3.26 ug/L	100
83) 1,2,3-Trichlorobenzene	10.877	180	2431	1.31 ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220118\
Data File : V13971611.D
Acq On : 18 Jan 2022 8:47 am
Operator : ORM
Sample : 1ppb
Misc : BLANK
ALS Vial : 5 Sample Multiplier: 1

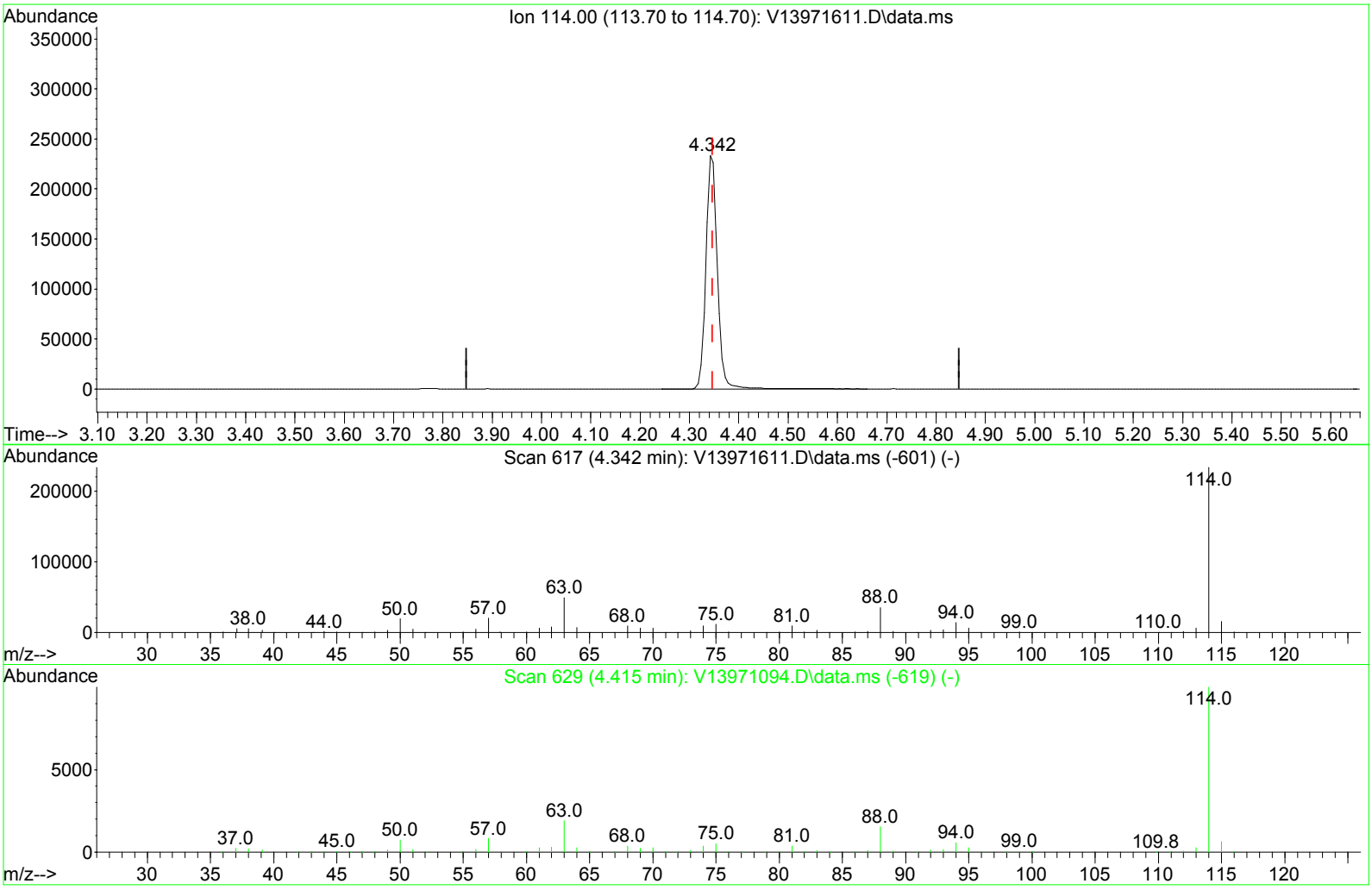
Quant Time: Jan 18 11:04:18 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\MS-13\New\Raw data\220118\
Data File : V13971611.D
Acq On : 18 Jan 2022 8:47 am
Operator : ORM
Sample : 1ppb
Misc : BLANK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 18 10:58:04 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration



TIC: V13971611.D\data.ms

(28) 1,4-Difluorobenzene (I)

4.342min (-0.006) 50.00 ug/L m

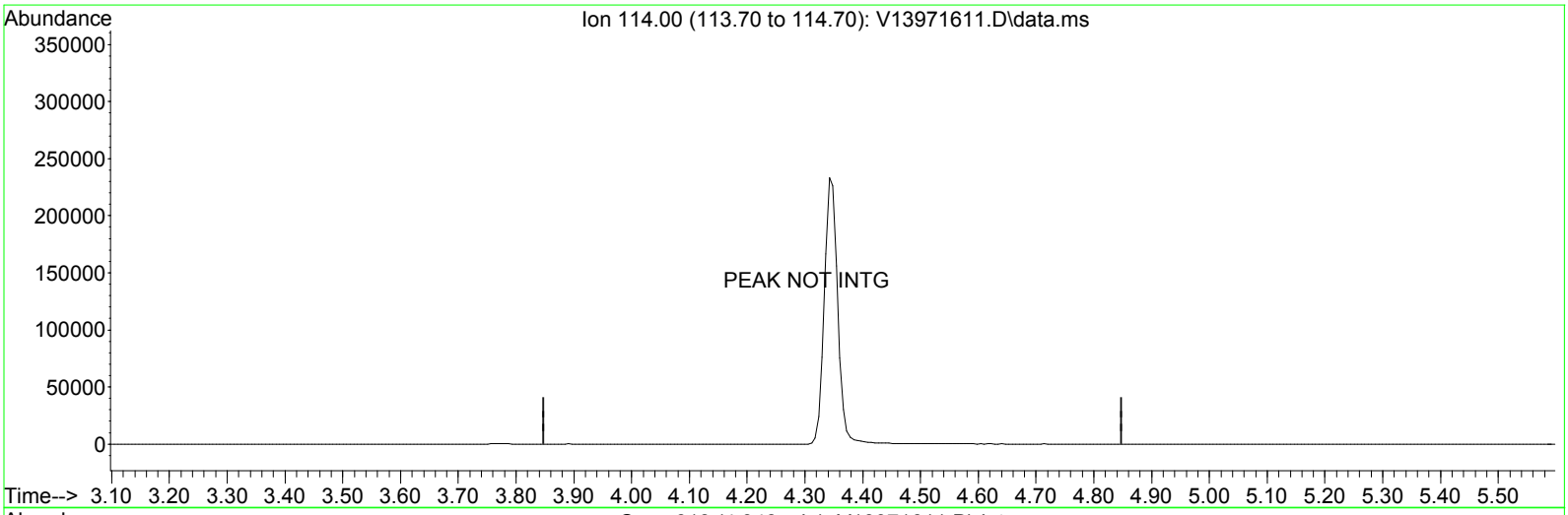
response 380198

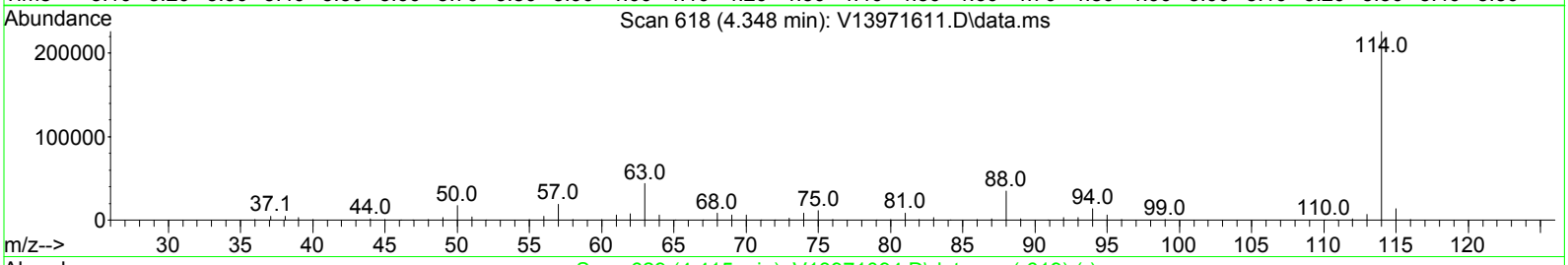
Ion	Exp%	Act%
114.00	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

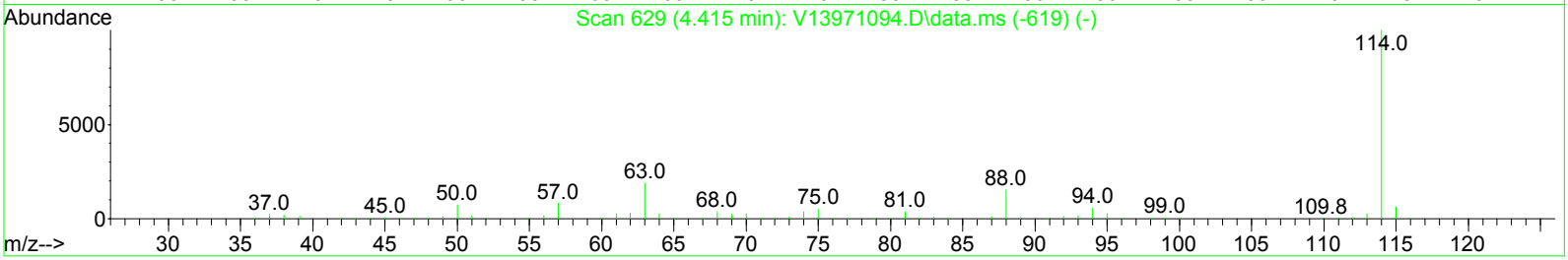
Quantitation Report (Qedit)

Data Path : C:\MS-13\New\Raw data\220118\
Data File : V13971611.D
Acq On : 18 Jan 2022 8:47 am
Operator : ORM
Sample : 1ppb
Misc : BLANK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 18 10:58:04 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration







TIC: V13971611.D\data.ms

(28) 1,4-Difluorobenzene (I)

4.348min (-4.348) 0.00 ug/L

response 0

Ion	Exp%	Act%
114.00	100.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220118\
Data File : V13971613.D
Acq On : 18 Jan 2022 9:31 am
Operator : ORM
Sample : MB-
Misc : MBLK 8260_TCL4.2_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 18 10:58:49 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.793	168	210258	50.00	ug/L	0.00
28) 1,4-Difluorobenzene	4.348	114	343847	50.00	ug/L	0.00
47) Chlorobenzene-d5	6.634	117	356484	50.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	8.689	152	209673	50.00	ug/L	-0.01
System Monitoring Compounds						
29) Dibromofluoromethane	3.775	113	104682	49.69	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 99.38%			
43) Toluene-d8	5.452	98	408688	50.09	ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 100.18%			
60) 4-Bromofluorobenzene	7.658	95	183767	52.29	ug/L	0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 104.58%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Acrolein	0.000		0	N.D.		
9) 1,1-Dichloroethene	0.000		0	N.D.		
10) Freon-113	0.000		0	N.D.		
11) Acetone	0.000		0	N.D.		
12) Iodomethane	0.000		0	N.D.		
13) Carbon disulfide	0.000		0	N.D.		
14) Methyl acetate	0.000		0	N.D.		
15) Vinyl acetate	0.000		0	N.D.		
16) Methylene chloride	0.000		0	N.D.		
17) Acrylonitrile	0.000		0	N.D.		
18) Methyl tert-butyl ether	0.000		0	N.D.		
19) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) 1,1-Dichloroethane	0.000		0	N.D.		
21) 2,2-Dichloropropane	0.000		0	N.D.		
22) cis-1,2-Dichloroethene	0.000		0	N.D.		
23) 2-Butanone	0.000		0	N.D.		
24) Bromochloromethane	0.000		0	N.D.		
25) Chloroform	0.000		0	N.D.		
26) Cyclohexane	0.000		0	N.D.	d	
27) 1,1,1-Trichloroethane	0.000		0	N.D.		
30) 1,1-Dichloropropene	0.000		0	N.D.	d	
31) Carbon tetrachloride	0.000		0	N.D.		
32) Benzene	0.000		0	N.D.		
33) 1,2-Dichloroethane	0.000		0	N.D.	d	
34) Trichloroethene	0.000		0	N.D.		
35) Methylcyclohexane	0.000		0	N.D.		
36) 1,2-Dichloropropane	0.000		0	N.D.	d	
37) Dibromomethane	0.000		0	N.D.	d	
38) 1,4-Dioxane	0.000		0	N.D.	d	
39) Bromodichloromethane	0.000		0	N.D.		
40) 2-Chloroethyl vinyl ether	0.000		0	N.D.		
41) cis-1,3-Dichloropropene	0.000		0	N.D.		
42) 4-Methyl-2-pentanone	0.000		0	N.D.	d	
44) Toluene	0.000		0	N.D.		
45) trans-1,3-Dichloropropene	0.000		0	N.D.		
46) 1,1,2-Trichloroethane	0.000		0	N.D.		

Data Path : C:\MS-13\New\Raw data\220118\
Data File : V13971613.D
Acq On : 18 Jan 2022 9:31 am
Operator : ORM
Sample : MB-
Misc : MBLK 8260_TCL4.2_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 18 10:58:49 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

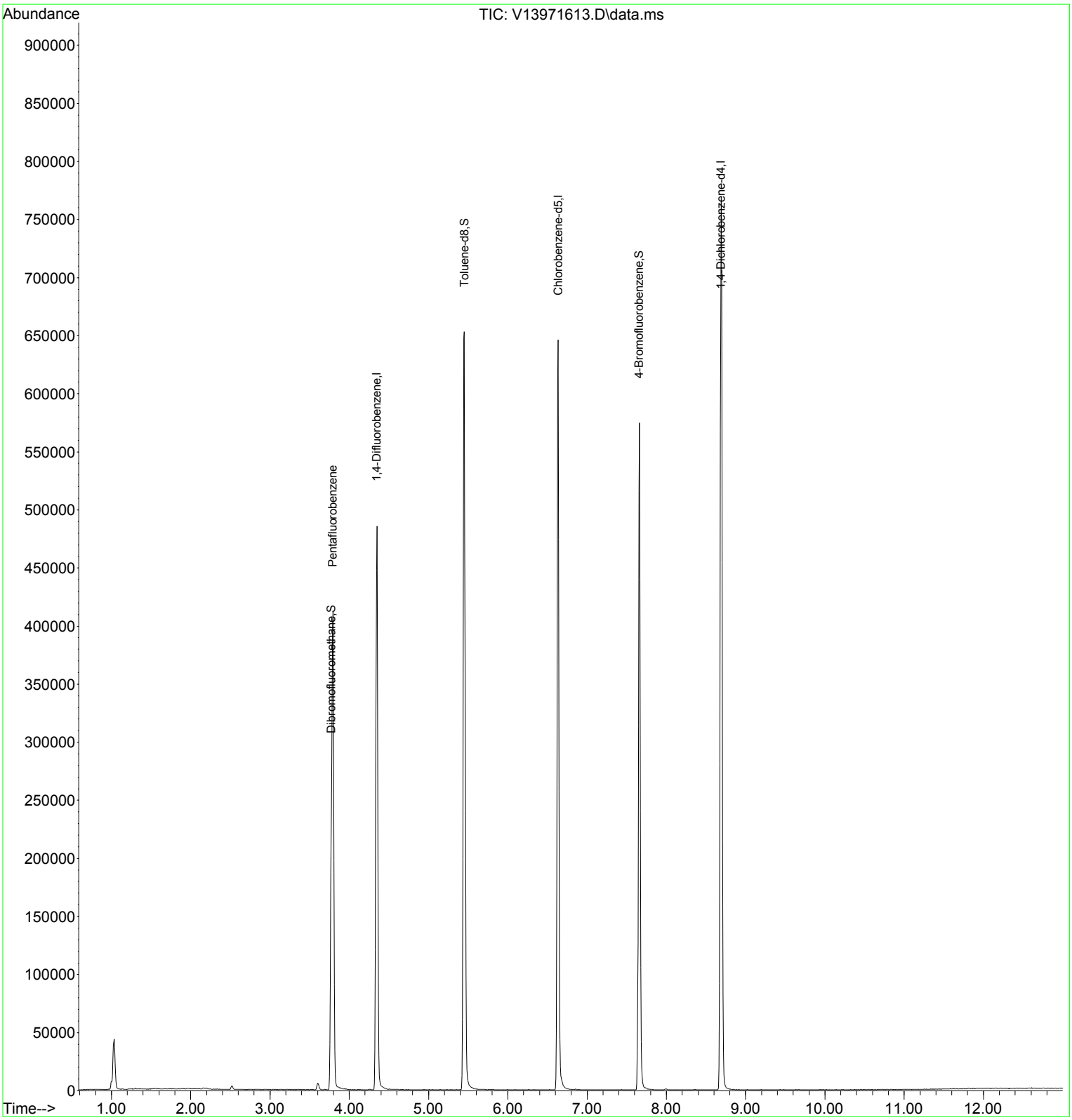
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	0.000		0	N.D.		
49) Tetrachloroethene	0.000		0	N.D.		
50) 1,3-Dichloropropane	0.000		0	N.D.		
51) Dibromochloromethane	0.000		0	N.D.		
52) 1,2-Dibromoethane	0.000		0	N.D.		
53) Chlorobenzene	0.000		0	N.D.		
54) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
55) Ethylbenzene	0.000		0	N.D.		
56) m,p-Xylene	0.000		0	N.D.		
57) o-Xylene	0.000		0	N.D.		
58) Styrene	0.000		0	N.D.		
59) Bromoform	0.000		0	N.D.		
62) Bromobenzene	0.000		0	N.D.		
63) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
64) 1,2,3-Trichloropropane	0.000		0	N.D.	d	
65) Isopropylbenzene	0.000		0	N.D.		
66) n-Propylbenzene	0.000		0	N.D.		
67) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
68) 2-Chlorotoluene	0.000		0	N.D.		
69) 4-Chlorotoluene	0.000		0	N.D.		
70) 1,3,5-Trimethylbenzene	0.000		0	N.D.		
71) tert-Butylbenzene	0.000		0	N.D.		
72) 1,2,4-Trimethylbenzene	0.000		0	N.D.		
73) sec-Butylbenzene	0.000		0	N.D.		
74) 1,3-Dichlorobenzene	0.000		0	N.D.		
75) 4-Isopropyltoluene	0.000		0	N.D.		
76) 1,4-Dichlorobenzene	0.000		0	N.D.		
77) 1,2-Dichlorobenzene	0.000		0	N.D.		
78) n-Butylbenzene	0.000		0	N.D.		
79) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
80) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
81) Hexachlorobutadiene	0.000		0	N.D.		
82) Naphthalene	0.000		0	N.D.		
83) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220118\
Data File : V13971613.D
Acq On : 18 Jan 2022 9:31 am
Operator : ORM
Sample : MB-
Misc : MBLK 8260_TCL4.2_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 18 10:58:49 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220118\
Data File : V13971615.D
Acq On : 18 Jan 2022 10:16 am
Operator : ORM
Sample : 2201A78-001A *5 2/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 18 11:00:38 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	3.794	168	213813	50.00 ug/L	0.00
28) 1,4-Difluorobenzene	4.348	114	346505	50.00 ug/L	0.00
47) Chlorobenzene-d5	6.634	117	363902	50.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	8.689	152	213403	50.00 ug/L	-0.01
System Monitoring Compounds					
29) Dibromofluoromethane	3.775	113	102682	48.37 ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 96.74%		
43) Toluene-d8	5.452	98	415196	50.50 ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 101.00%		
60) 4-Bromofluorobenzene	7.659	95	182930	50.99 ug/L	0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 101.98%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.257	50	19102	14.82 ug/L	100
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	1.568	94	23140	28.91 ug/L	99
6) Chloroethane	0.000		0	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
8) Acrolein	0.000		0	N.D.	
9) 1,1-Dichloroethene	0.000		0	N.D.	
10) Freon-113	0.000		0	N.D.	
11) Acetone	2.196	58	7277	39.73 ug/L	74
12) Iodomethane	0.000		0	N.D.	
13) Carbon disulfide	0.000		0	N.D.	
14) Methyl acetate	2.422	43	2207	1.31 µg/L	88
15) Vinyl acetate	0.000		0	N.D. d	
16) Methylene chloride	2.519	84	3550	0.33 ug/L	82
17) Acrylonitrile	2.678	53	149313	175.51 ug/L	99
18) Methyl tert-butyl ether	0.000		0	N.D.	
19) trans-1,2-Dichloroethene	0.000		0	N.D.	
20) 1,1-Dichloroethane	0.000		0	N.D.	
21) 2,2-Dichloropropane	0.000		0	N.D.	
22) cis-1,2-Dichloroethene	0.000		0	N.D.	
23) 2-Butanone	3.416	72	3419	14.18 ug/L	84
24) Bromochloromethane	0.000		0	N.D.	
25) Chloroform	3.666	83	2197	0.76 ug/L	91
26) Cyclohexane	0.000		0	N.D. d	
27) 1,1,1-Trichloroethane	0.000		0	N.D.	
30) 1,1-Dichloropropene	0.000		0	N.D. d	
31) Carbon tetrachloride	0.000		0	N.D.	
32) Benzene	4.037	78	722856	111.50 ug/L	99
33) 1,2-Dichloroethane	0.000		0	N.D. d	
34) Trichloroethene	0.000		0	N.D.	
35) Methylcyclohexane	0.000		0	N.D. d	
36) 1,2-Dichloropropane	0.000		0	N.D. d	
37) Dibromomethane	0.000		0	N.D. d	
38) 1,4-Dioxane	0.000		0	N.D. d	
39) Bromodichloromethane	0.000		0	N.D.	
40) 2-Chloroethyl vinyl ether	0.000		0	N.D.	
41) cis-1,3-Dichloropropene	0.000		0	N.D. d	
42) 4-Methyl-2-pentanone	0.000		0	N.D. d	
44) Toluene	5.501	92	490108	119.15 ug/L	99
45) trans-1,3-Dichloropropene	0.000		0	N.D. d	
46) 1,1,2-Trichloroethane	0.000		0	N.D.	

Data Path : C:\MS-13\New\Raw data\220118\
Data File : V13971615.D
Acq On : 18 Jan 2022 10:16 am
Operator : ORM
Sample : 2201A78-001A *5 2/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 18 11:00:38 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

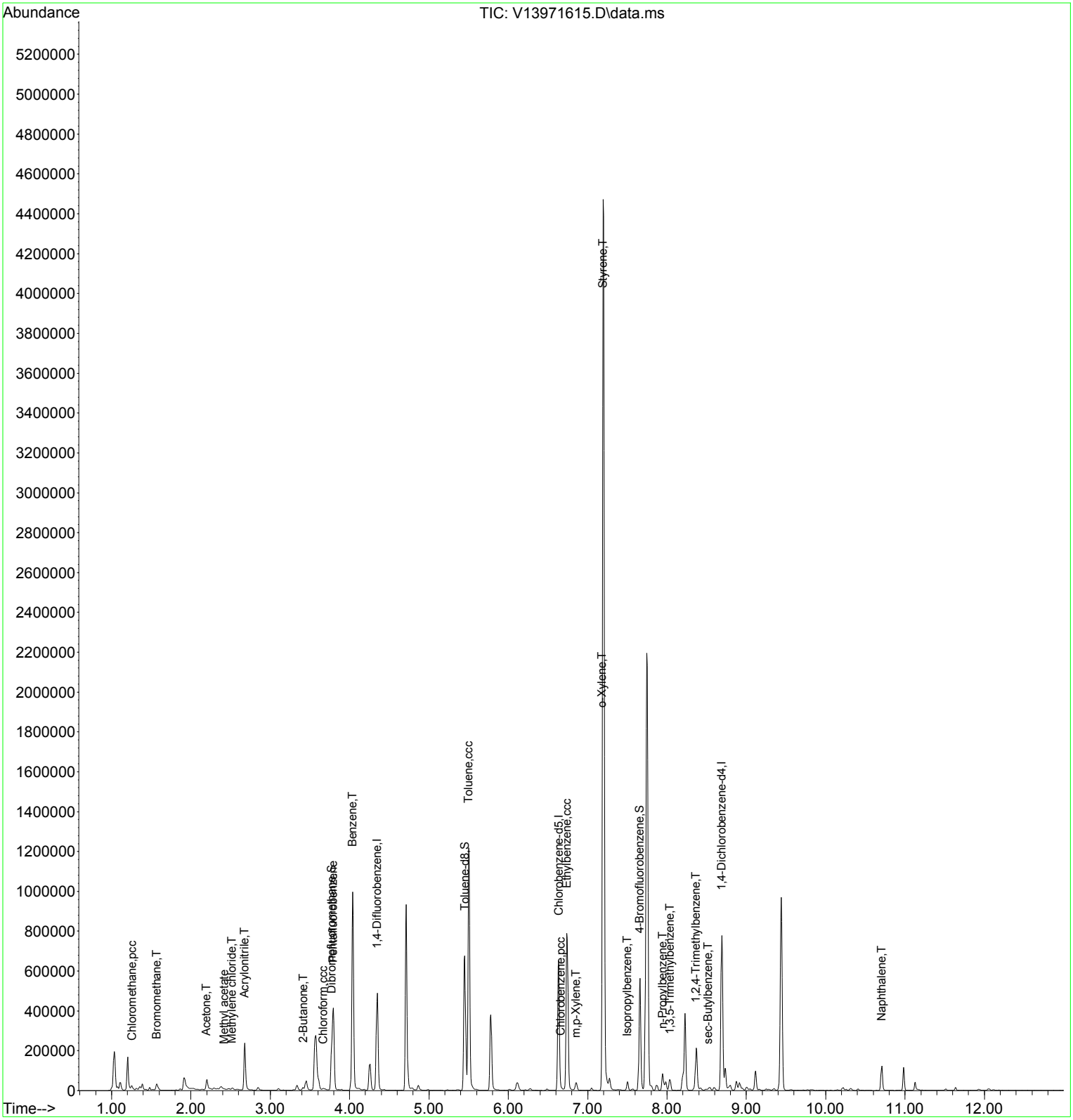
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) 2-Hexanone	0.000		0	N.D. d	
49) Tetrachloroethene	0.000		0	N.D.	
50) 1,3-Dichloropropane	0.000		0	N.D.	
51) Dibromochloromethane	0.000		0	N.D.	
52) 1,2-Dibromoethane	0.000		0	N.D.	
53) Chlorobenzene	6.659	112	1812	0.36 ug/L	96
54) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
55) Ethylbenzene	6.738	91	554090	70.78 ug/L #	74
56) m,p-Xylene	6.854	91	25838	4.30 ug/L	96
57) o-Xylene	7.183	91	22688	3.69 ug/L	80
58) Styrene	7.195	104	2354882	484.58 ug/L	97
59) Bromoform	0.000		0	N.D.	
62) Bromobenzene	0.000		0	N.D.	
63) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
64) 1,2,3-Trichloropropane	0.000		0	N.D. d	
65) Isopropylbenzene	7.500	105	28311	3.51 ug/L	97
66) n-Propylbenzene	7.945	91	9385	1.67 ug/L #	1
67) trans-1,4-Dichloro-2-b...	0.000		0	N.D.	
68) 2-Chlorotoluene	0.000		0	N.D. d	
69) 4-Chlorotoluene	0.000		0	N.D. d	
70) 1,3,5-Trimethylbenzene	8.037	105	29671	4.70 ug/L	94
71) tert-Butylbenzene	0.000		0	N.D. d	
72) 1,2,4-Trimethylbenzene	8.366	105	115748	18.43 ug/L	100
73) sec-Butylbenzene	8.518	105	1992	0.26 ug/L	95
74) 1,3-Dichlorobenzene	0.000		0	N.D.	
75) 4-Isopropyltoluene	0.000		0	N.D. d	
76) 1,4-Dichlorobenzene	0.000		0	N.D.	
77) 1,2-Dichlorobenzene	0.000		0	N.D.	
78) n-Butylbenzene	0.000		0	N.D. d	
79) 1,2-Dibromo-3-chloropr...	0.000		0	N.D. d	
80) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
81) Hexachlorobutadiene	0.000		0	N.D.	
82) Naphthalene	10.707	128	86903	13.72 ug/L	100
83) 1,2,3-Trichlorobenzene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220118\
Data File : V13971615.D
Acq On : 18 Jan 2022 10:16 am
Operator : ORM
Sample : 2201A78-001A *5 2/3
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 18 11:00:38 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220118\
Data File : V13971635.D
Acq On : 18 Jan 2022 5:33 pm
Operator : ORM
Sample : 2201G62-003A 1/2
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jan 18 18:52:46 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.793	168	222157	50.00	ug/L	0.00
28) 1,4-Difluorobenzene	4.348	114	360193	50.00	ug/L	0.00
47) Chlorobenzene-d5	6.634	117	373839	50.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	8.689	152	215566	50.00	ug/L	-0.01
System Monitoring Compounds						
29) Dibromofluoromethane	3.775	113	108711	49.26	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 98.52%			
43) Toluene-d8	5.452	98	425425	49.78	ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 99.56%			
60) 4-Bromofluorobenzene	7.659	95	190085	51.58	ug/L	0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 103.16%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Acrolein	0.000		0	N.D.		
9) 1,1-Dichloroethene	0.000		0	N.D.		
10) Freon-113	0.000		0	N.D.		
11) Acetone	0.000		0	N.D.		
12) Iodomethane	0.000		0	N.D.		
13) Carbon disulfide	0.000		0	N.D.		
14) Methyl acetate	0.000		0	N.D. d		
15) Vinyl acetate	0.000		0	N.D.		
16) Methylene chloride	0.000		0	N.D.		
17) Acrylonitrile	0.000		0	N.D.		
18) Methyl tert-butyl ether	0.000		0	N.D.		
19) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) 1,1-Dichloroethane	0.000		0	N.D.		
21) 2,2-Dichloropropane	0.000		0	N.D.		
22) cis-1,2-Dichloroethene	0.000		0	N.D.		
23) 2-Butanone	0.000		0	N.D.		
24) Bromochloromethane	0.000		0	N.D.		
25) Chloroform	3.665	83	8280	2.74	ug/L	99
26) Cyclohexane	0.000		0	N.D. d		
27) 1,1,1-Trichloroethane	0.000		0	N.D.		
30) 1,1-Dichloropropene	0.000		0	N.D. d		
31) Carbon tetrachloride	0.000		0	N.D.		
32) Benzene	0.000		0	N.D.		
33) 1,2-Dichloroethane	0.000		0	N.D. d		
34) Trichloroethene	0.000		0	N.D.		
35) Methylcyclohexane	0.000		0	N.D.		
36) 1,2-Dichloropropane	0.000		0	N.D. d		
37) Dibromomethane	0.000		0	N.D. d		
38) 1,4-Dioxane	0.000		0	N.D. d		
39) Bromodichloromethane	0.000		0	N.D.		
40) 2-Chloroethyl vinyl ether	0.000		0	N.D.		
41) cis-1,3-Dichloropropene	0.000		0	N.D.		
42) 4-Methyl-2-pentanone	0.000		0	N.D. d		
44) Toluene	0.000		0	N.D.		
45) trans-1,3-Dichloropropene	0.000		0	N.D.		
46) 1,1,2-Trichloroethane	0.000		0	N.D.		

Data Path : C:\MS-13\New\Raw data\220118\
Data File : V13971635.D
Acq On : 18 Jan 2022 5:33 pm
Operator : ORM
Sample : 2201G62-003A 1/2
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jan 18 18:52:46 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration

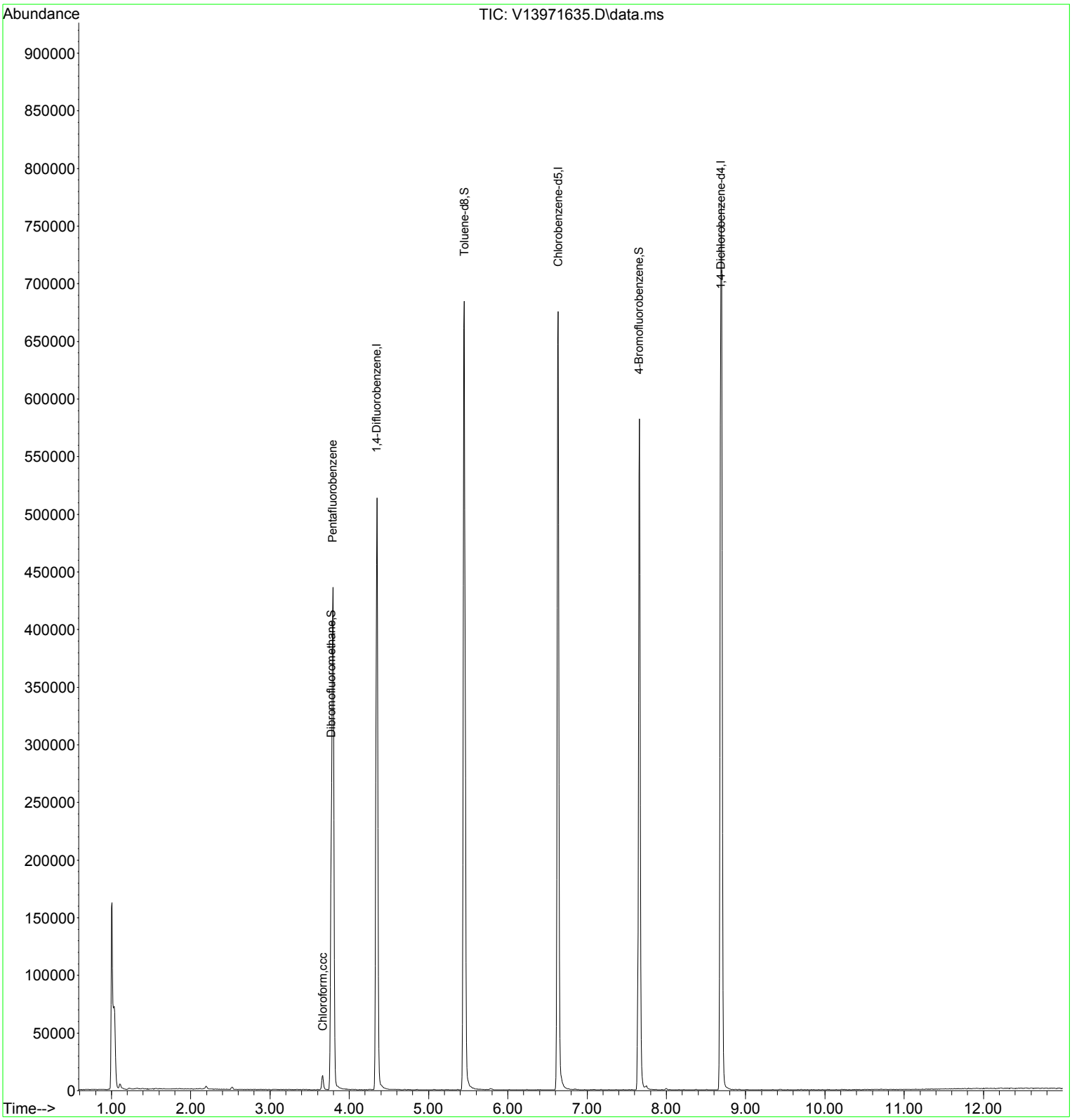
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	0.000		0	N.D.		
49) Tetrachloroethene	0.000		0	N.D.		
50) 1,3-Dichloropropane	0.000		0	N.D.		
51) Dibromochloromethane	0.000		0	N.D.		
52) 1,2-Dibromoethane	0.000		0	N.D.		
53) Chlorobenzene	0.000		0	N.D.		
54) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
55) Ethylbenzene	0.000		0	N.D.		
56) m,p-Xylene	0.000		0	N.D.		
57) o-Xylene	0.000		0	N.D.		
58) Styrene	0.000		0	N.D.		
59) Bromoform	0.000		0	N.D.		
62) Bromobenzene	0.000		0	N.D.		
63) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
64) 1,2,3-Trichloropropane	0.000		0	N.D.	d	
65) Isopropylbenzene	0.000		0	N.D.		
66) n-Propylbenzene	0.000		0	N.D.		
67) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
68) 2-Chlorotoluene	0.000		0	N.D.		
69) 4-Chlorotoluene	0.000		0	N.D.		
70) 1,3,5-Trimethylbenzene	0.000		0	N.D.		
71) tert-Butylbenzene	0.000		0	N.D.		
72) 1,2,4-Trimethylbenzene	0.000		0	N.D.		
73) sec-Butylbenzene	0.000		0	N.D.		
74) 1,3-Dichlorobenzene	0.000		0	N.D.		
75) 4-Isopropyltoluene	0.000		0	N.D.		
76) 1,4-Dichlorobenzene	0.000		0	N.D.		
77) 1,2-Dichlorobenzene	0.000		0	N.D.		
78) n-Butylbenzene	0.000		0	N.D.		
79) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
80) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
81) Hexachlorobutadiene	0.000		0	N.D.		
82) Naphthalene	0.000		0	N.D.		
83) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220118\
Data File : V13971635.D
Acq On : 18 Jan 2022 5:33 pm
Operator : ORM
Sample : 2201G62-003A 1/2
Misc : SAMP 8260_TCL4.2_W
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jan 18 18:52:46 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Thu Jan 13 09:43:15 2022
Response via : Initial Calibration



Injection Log

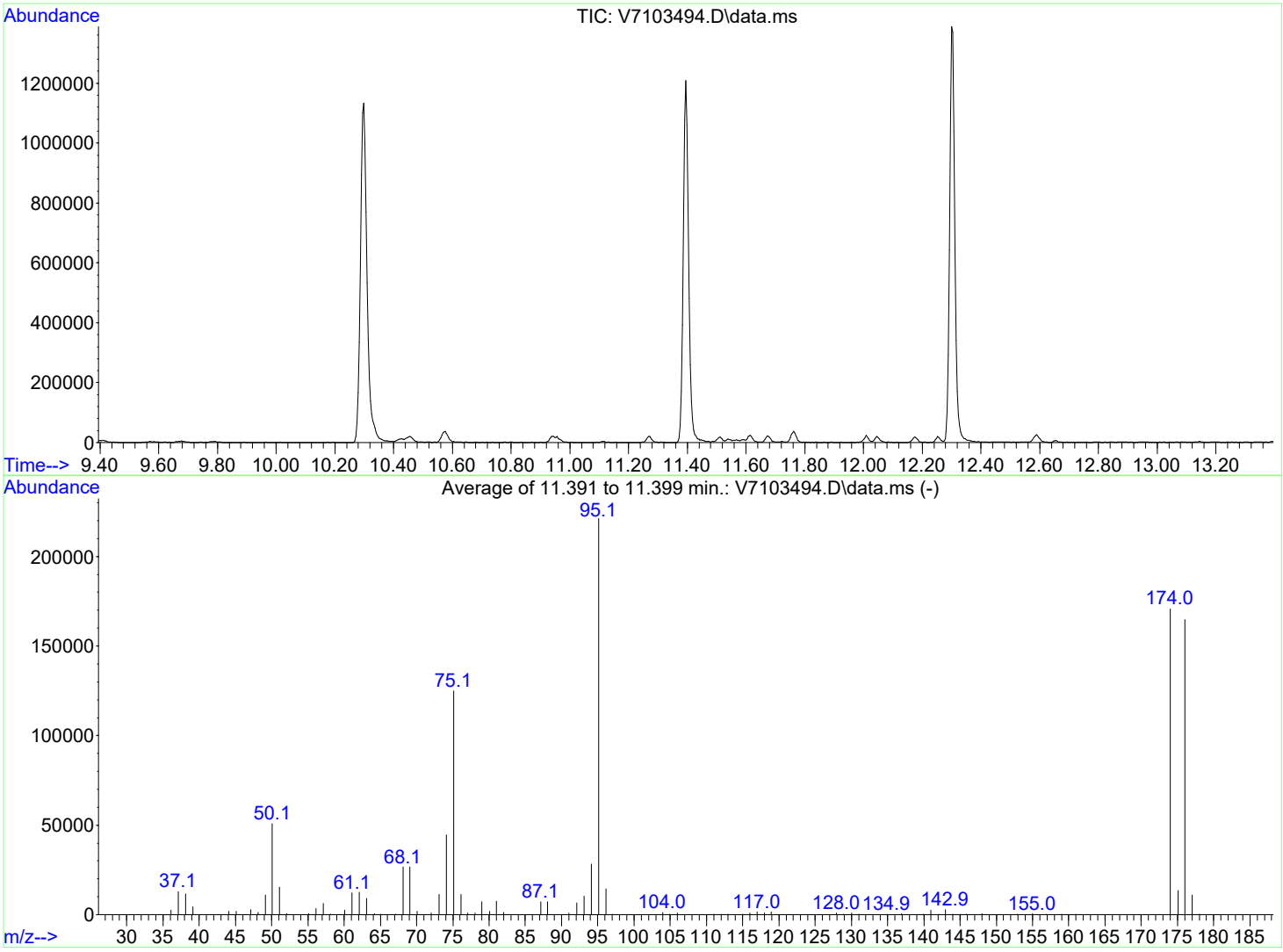
Directory: C:\MS-7\New\Raw Data\220112

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	V7103492.D	1.	BLANK	BLANK	12 Jan 2022 11:04
2	2	V7103493.D	1.	BLANK	BLANK	12 Jan 2022 11:28
3	3	V7103494.D	1.	ICAL 8260 001 W (1uL/50mL)	ICAL 8260B_W	12 Jan 2022 11:53
4	4	V7103495.D	1.	ICAL 8260 002 W (2uL/50mL)	ICAL 8260B_W	12 Jan 2022 12:17
5	5	V7103496.D	1.	ICAL 8260 005 W (5uL/50mL)	ICAL 8260B_W	12 Jan 2022 12:42
6	6	V7103497.D	1.	ICAL 8260 010 W (10uL/50mL)	ICAL 8260B_W	12 Jan 2022 13:06
7	7	V7103498.D	1.	ICAL 8260 020 W (20uL/50mL)	ICAL 8260B_W	12 Jan 2022 13:31
8	8	V7103499.D	1.	BLANK	BLANK	12 Jan 2022 13:55
9	9	V7103500.D	1.	ICAL 8260 050 W (50uL/50mL)	ICAL 8260B_W	12 Jan 2022 14:20
10	10	V7103501.D	1.	BLANK	BLANK	12 Jan 2022 14:45
11	11	V7103502.D	1.	ICAL 8260 100 W (100uL/50mL)	ICAL 8260B_W	12 Jan 2022 15:09
12	12	V7103503.D	1.	BLANK	BLANK	12 Jan 2022 15:34
13	13	V7103504.D	1.	ICAL 8260 150 W (150uL/50mL)	ICAL 8260B_W	12 Jan 2022 15:59
14	14	V7103505.D	1.	BLANK	BLANK	12 Jan 2022 16:23
15	15	V7103506.D	1.	BLANK	BLANK	12 Jan 2022 16:48
16	16	V7103507.D	1.	ICAL 8260 200 W (200uL/50mL)	ICAL 8260B_W	12 Jan 2022 17:12
17	17	V7103508.D	1.	BLANK	BLANK	12 Jan 2022 17:36
18	18	V7103509.D	1.	BLANK	BLANK	12 Jan 2022 18:00
19	19	V7103510.D	1.	ICV 8260 20 W (20uL/50mL)	ICV 8260B_W	12 Jan 2022 18:25

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103494.D
Acq On : 12 Jan 2022 11:53 am
Operator : ORM
Sample : ICAL 8260 001 W (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Title : 8260D/624.1 Purgeable organics calibration.
Last Update : Wed Jan 12 17:49:11 2022



AutoFind: Scans 2888, 2889, 2890; Background Corrected with Scan 2876

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.0	50955	PASS
75	95	30	60	56.4	124816	PASS
95	95	100	100	100.0	221184	PASS
96	95	5	9	6.6	14606	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	101	77.2	170816	PASS
175	174	5	9	7.9	13434	PASS
176	174	95	100	96.5	164757	PASS
177	176	5	9	6.6	10931	PASS

Response Factor Report MS-7

Method Path : C:\MS-7\New\Calculation Methods\
Method File : MS-7_VW011222.M
Title : 8260D/624.1 Purgeable organics calibration.
Last Update : Wed Jan 12 17:55:12 2022
Response Via : Initial Calibration

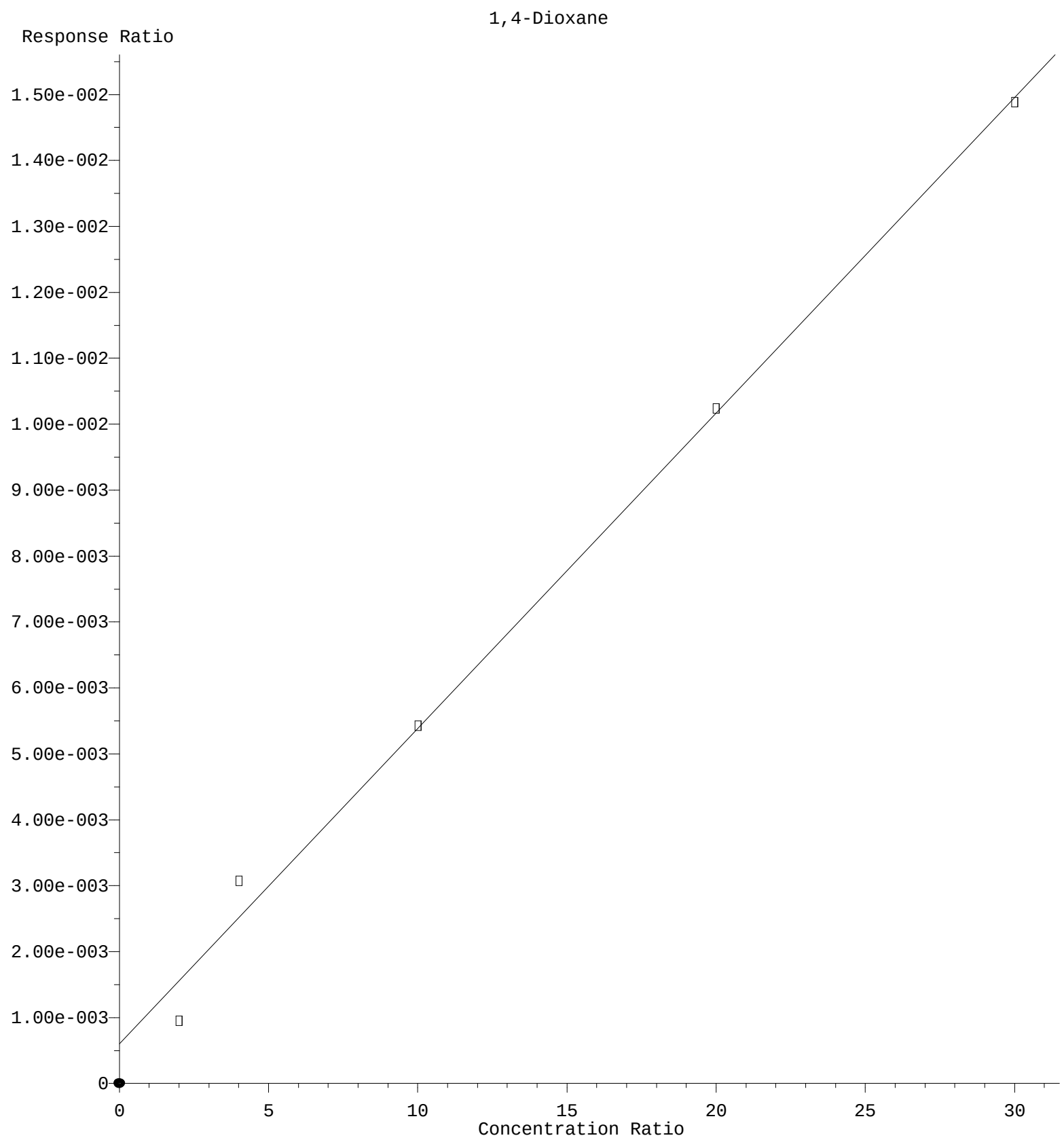
Calibration Files
1 =V7103494.D 2 =V7103495.D 5 =V7103496.D 10 =V7103497.D 20 =V7103498.D 50 =V7103500.D 100 =V7103502.D
150 =V7103504.D 200 =V7103507.D

		Compound	1	2	5	10	20	50	100	150	200	Avg	%RSD
1)		Pentafluorobenzene	----------ISTD----------										
2)	T	Dichlorodifluo...	0.664	0.599	0.610	0.724	0.598	0.656	0.575	0.568	0.622	0.624	7.97
3)	pcc	Chloromethane	0.555	0.502	0.551	0.602	0.519	0.541	0.511	0.498	0.537	0.535	6.07
4)	ccc	Vinyl chloride	0.502	0.454	0.447	0.563	0.482	0.499	0.461	0.463	0.500	0.485	7.36
5)	T	Bromomethane	0.329	0.359	0.327	0.399	0.353	0.344	0.329	0.327	0.336	0.345	6.76
6)	T	Chloroethane	0.290	0.273	0.282	0.320	0.269	0.283	0.258	0.254	0.273	0.278	6.99
7)	T	Trichlorofluor...	0.748	0.690	0.734	0.933	0.771	0.840	0.751	0.749	0.818	0.782	9.24
8)	T	Acrolein		0.036	0.055	0.060	0.059	0.062	0.068	0.065	0.064	0.059	16.87
9)	Mccc	1,1-Dichloroet...	0.307	0.307	0.309	0.320	0.278	0.322	0.294	0.299	0.321	0.306	4.68
10)		Freon-113	0.422	0.376	0.400	0.381	0.331	0.375	0.320	0.327	0.352	0.365	9.55
11)	T	Acetone		0.037	0.032	0.035	0.033	0.031	0.032	0.029	0.028	0.032	8.86
12)	T	Iodomethane	0.608	0.545	0.577	0.585	0.519	0.574	0.556	0.550	0.575	0.566	4.57
13)	T	Carbon disulfide	1.169	1.010	1.067	1.105	0.987	1.111	1.039	1.055	1.119	1.074	5.40
14)		Methyl acetate	0.335	0.286	0.315	0.336	0.316	0.328	0.329	0.317	0.302	0.318	5.10
15)	T	Vinyl acetate	0.668	0.621	0.782	0.819	0.898	0.992	1.022	1.009	1.022	0.870	17.90
16)	T	Methylene chlo...	1.067	0.699	0.552	0.473	0.432	0.415	0.406	0.390	0.401	0.537	41.37
17)	T	Acrylonitrile		0.109	0.116	0.142	0.138	0.147	0.159	0.153	0.147	0.139	12.61
18)		Methyl tert-bu...	1.214	1.089	1.146	1.225	1.172	1.247	1.259	1.245	1.278	1.209	5.07
19)	T	trans-1,2-Dich...	0.402	0.328	0.365	0.348	0.324	0.357	0.335	0.338	0.358	0.350	6.79
20)	pcc	1,1-Dichloroet...	0.798	0.780	0.802	0.808	0.743	0.802	0.763	0.771	0.805	0.786	2.91
21)	T	2,2-Dichloropr...	0.484	0.489	0.465	0.513	0.453	0.473	0.414	0.468	0.488	0.472	5.87
22)	T	cis-1,2-Dichlo...	0.381	0.317	0.388	0.378	0.364	0.389	0.378	0.384	0.398	0.375	6.38
23)	T	2-Butanone			0.026	0.030	0.034	0.036	0.037	0.035	0.035	0.033	12.22
24)	T	Bromochloromet...	0.161	0.163	0.183	0.179	0.175	0.184	0.178	0.180	0.185	0.176	5.05
25)	ccc	Chloroform	0.813	0.784	0.797	0.818	0.756	0.792	0.777	0.771	0.807	0.791	2.56
26)		Cyclohexane	0.642	0.623	0.586	0.812	0.661	0.695	0.597	0.614	0.670	0.655	10.47
27)	T	1,1,1-Trichlor...	0.732	0.703	0.721	0.745	0.650	0.724	0.659	0.680	0.728	0.705	4.81
28)	I	1,4-Difluorobenzene	----------ISTD----------										
29)	S	Dibromofluorom...	0.364	0.366	0.359	0.367	0.364	0.365	0.368	0.364	0.363	0.364	0.75
30)	T	1,1-Dichloropr...	0.124	0.100	0.104	0.112	0.097	0.108	0.097	0.101	0.105	0.105	8.25
31)	T	Carbon tetrach...	0.383	0.339	0.331	0.341	0.308	0.351	0.316	0.334	0.354	0.340	6.46
32)	M	Benzene	1.016	0.890	0.958	0.975	0.869	0.934	0.900	0.922	0.949	0.935	4.89
33)	T	1,2-Dichloroet...	0.412	0.375	0.437	0.438	0.419	0.432	0.422	0.418	0.421	0.419	4.49
34)	M	Trichloroethene	0.234	0.211	0.223	0.227	0.202	0.221	0.207	0.216	0.223	0.218	4.66
35)		Methylcyclohexane	0.349	0.279	0.298	0.307	0.266	0.313	0.271	0.287	0.304	0.297	8.63
36)	ccc	1,2-Dichloropr...	0.321	0.249	0.258	0.267	0.249	0.263	0.257	0.257	0.265	0.265	8.28
37)	T	Dibromomethane	0.158	0.126	0.148	0.146	0.145	0.150	0.153	0.151	0.153	0.148	6.09
38)		1,4-Dioxane				0.000	0.001	0.001	0.001	0.000		0.001	21.35
39)	T	Bromodichlorom...	0.339	0.310	0.349	0.339	0.326	0.356	0.362	0.369	0.379	0.348	6.22
40)	T	2-Chloroethyl ...		0.107	0.116	0.125	0.137	0.148	0.154	0.156	0.152	0.137	13.91
41)	T	cis-1,3-Dichlo...	0.355	0.318	0.365	0.391	0.385	0.418	0.427	0.434	0.440	0.393	10.48

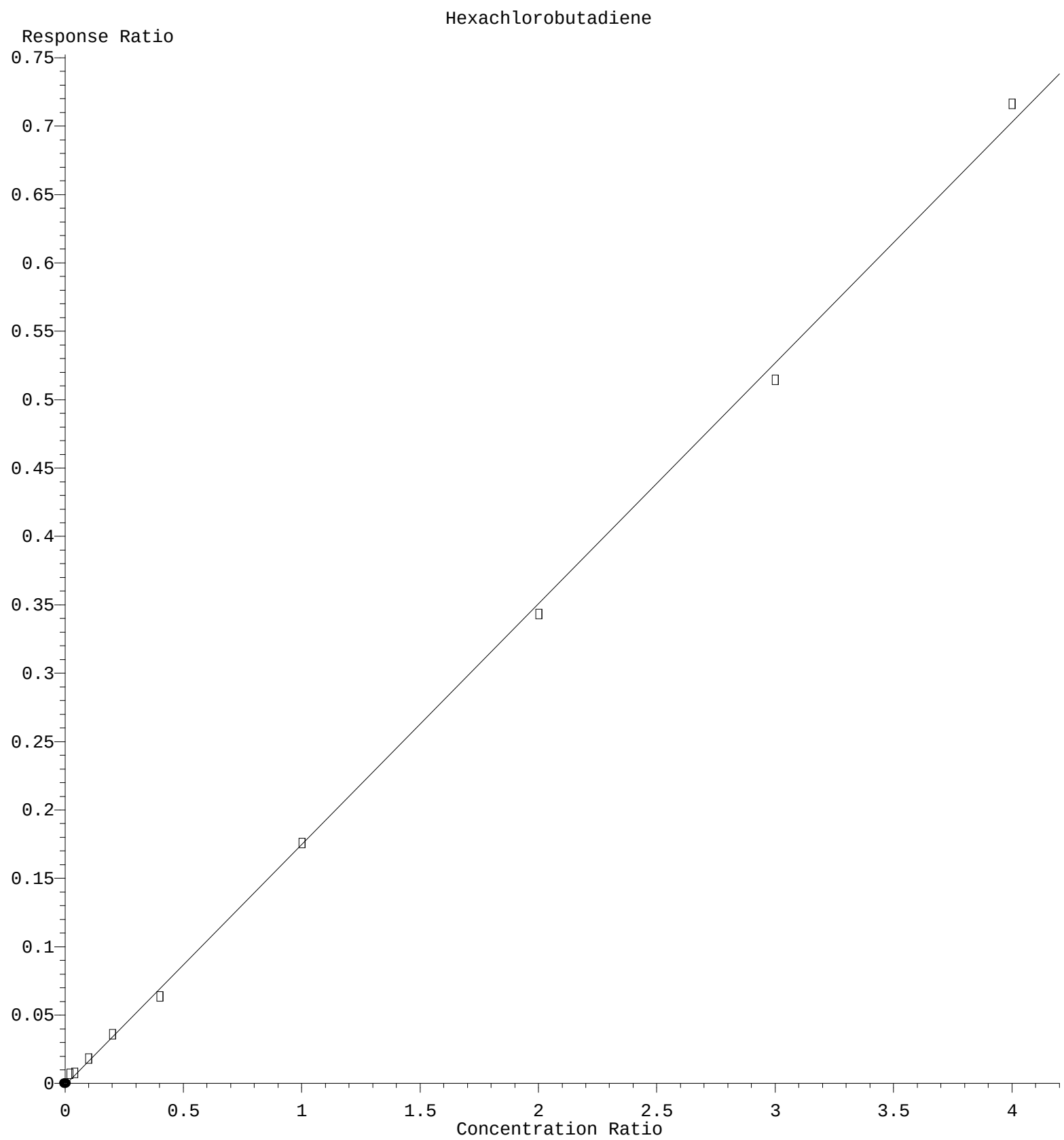
Method Path : C:\MS-7\New\Calculation Methods\
Method File : MS-7_VW011222.M
Title : 8260D/624.1 Purgeable organics calibration.

42)	T	4-Methyl-2-pen...	0.212	0.202	0.227	0.232	0.249	0.270	0.273	0.269	0.268	0.245	11.15
43)	S	Toluene-d8	1.363	1.348	1.362	1.370	1.369	1.389	1.378	1.381	1.388	1.372	0.98
44)	McccToluene		0.609	0.536	0.595	0.583	0.549	0.591	0.559	0.576	0.592	0.577	4.12
45)	T	trans-1,3-Dich...	0.317	0.267	0.322	0.346	0.353	0.376	0.392	0.404	0.411	0.354	13.29
46)	T	1,1,2-Trichlor...	0.181	0.161	0.188	0.173	0.175	0.179	0.176	0.181	0.180	0.177	4.21
47)	I	Chlorobenzene-d5	----------ISTD----------										
48)	T	2-Hexanone	0.122	0.117	0.139	0.159	0.174	0.190	0.190	0.185	0.177	0.161	17.88
49)	T	Tetrachloroethene	0.274	0.261	0.271	0.275	0.239	0.262	0.242	0.247	0.255	0.259	5.28
50)	T	1,3-Dichloropr...	0.411	0.355	0.403	0.399	0.384	0.395	0.394	0.394	0.384	0.391	4.09
51)	T	Dibromochlorom...	0.186	0.181	0.214	0.215	0.213	0.235	0.245	0.244	0.243	0.220	11.13
52)	T	1,2-Dibromoethane	0.212	0.167	0.215	0.209	0.207	0.217	0.216	0.213	0.213	0.208	7.49
53)	MpccChlorobenzene		0.770	0.661	0.704	0.689	0.635	0.668	0.648	0.662	0.668	0.678	5.90#
54)	T	1,1,1,2-Tetrac...	0.261	0.231	0.245	0.239	0.234	0.249	0.247	0.251	0.256	0.246	4.09
55)	ccc Ethylbenzene		1.192	1.120	1.222	1.244	1.157	1.273	1.209	1.246	1.277	1.216	4.31
56)	T	m,p-Xylene	0.951	0.862	0.982	0.996	0.927	1.018	0.969	1.002	1.012	0.969	5.13
57)	T	o-Xylene	0.907	0.841	0.966	0.992	0.934	1.037	1.018	1.034	1.052	0.976	7.23
58)	T	Styrene	0.548	0.544	0.634	0.680	0.667	0.741	0.734	0.739	0.737	0.669	11.90
59)	pcc Bromoform		0.111	0.101	0.126	0.124	0.139	0.156	0.164	0.166	0.167	0.139	17.94#
60)	S	4-Bromofluorob...	0.587	0.587	0.601	0.598	0.604	0.631	0.633	0.636	0.625	0.611	3.24
61)	I	1,4-Dichlorobenzen...	----------ISTD----------										
62)	T	Bromobenzene	0.572	0.566	0.556	0.541	0.495	0.523	0.509	0.521	0.519	0.533	5.00
63)	pcc 1,1,2,2-Tetrac...		0.573	0.532	0.574	0.588	0.541	0.534	0.529	0.538	0.528	0.549	4.23
64)	T	1,2,3-Trichlor...	0.592	0.369	0.514	0.522	0.481	0.484	0.415	0.439	0.433	0.472	14.12
65)	T	Isopropylbenzene	2.145	1.886	2.186	2.237	2.045	2.212	2.039	2.139	2.189	2.120	5.25
66)	T	n-Propylbenzene	2.687	2.484	2.695	2.805	2.476	2.689	2.499	2.606	2.673	2.624	4.38
67)	T	trans-1,4-Dich...		0.026	0.025	0.025	0.029	0.031	0.033	0.033	0.032	0.029	10.92
68)	T	2-Chlorotoluene	1.947	1.816	1.771	1.785	1.563	1.636	1.567	1.623	1.629	1.704	7.70
69)	T	4-Chlorotoluene	1.895	1.790	1.985	2.003	1.842	1.914	1.856	1.913	1.914	1.901	3.52
70)	T	1,3,5-Trimethy...	1.534	1.485	1.697	1.793	1.625	1.745	1.672	1.734	1.763	1.672	6.31
71)	T	tert-Butylbenzene	1.343	1.167	1.298	1.342	1.191	1.562	1.476	1.525	1.365	1.363	10.10
72)	T	1,2,4-Trimethy...	1.559	1.464	1.728	1.813	1.657	1.805	1.752	1.760	1.811	1.705	7.19
73)	T	sec-Butylbenzene	1.772	1.628	1.821	1.924	1.749	1.923	1.816	1.849	1.917	1.822	5.35
74)	T	1,3-Dichlorobe...	1.027	0.906	0.938	0.936	0.877	0.900	0.890	0.878	0.890	0.916	5.14
75)	T	4-Isopropyltol...	1.437	1.281	1.512	1.595	1.417	1.599	1.535	1.552	1.598	1.503	7.10
76)	T	1,4-Dichlorobe...	1.027	0.906	0.938	0.940	0.876	0.898	0.892	0.879	0.890	0.916	5.16
77)	T	1,2-Dichlorobe...	0.836	0.813	0.892	0.884	0.823	0.857	0.845	0.820	0.825	0.844	3.37
78)	T	n-Butylbenzene	1.243	1.092	1.231	1.289	1.223	1.401	1.360	1.364	1.412	1.290	8.07
79)	T	1,2-Dibromo-3-...	0.087	0.093	0.095	0.101	0.095	0.104	0.110	0.103	0.109	0.100	7.74
80)	T	1,2,4-Trichlor...	0.282	0.205	0.292	0.314	0.320	0.360	0.393	0.369	0.387	0.325	18.63
81)	T	Hexachlorobuta...	0.354	0.194	0.182	0.180	0.159	0.176	0.172	0.171	0.179	0.196	30.59
82)	T	Naphthalene	0.589	0.538	0.639	0.727	0.796	0.895	0.992	0.946	0.990	0.790	22.25
83)	T	1,2,3-Trichlor...	0.282	0.201	0.292	0.260	0.288	0.297	0.325	0.305	0.315	0.285	12.91

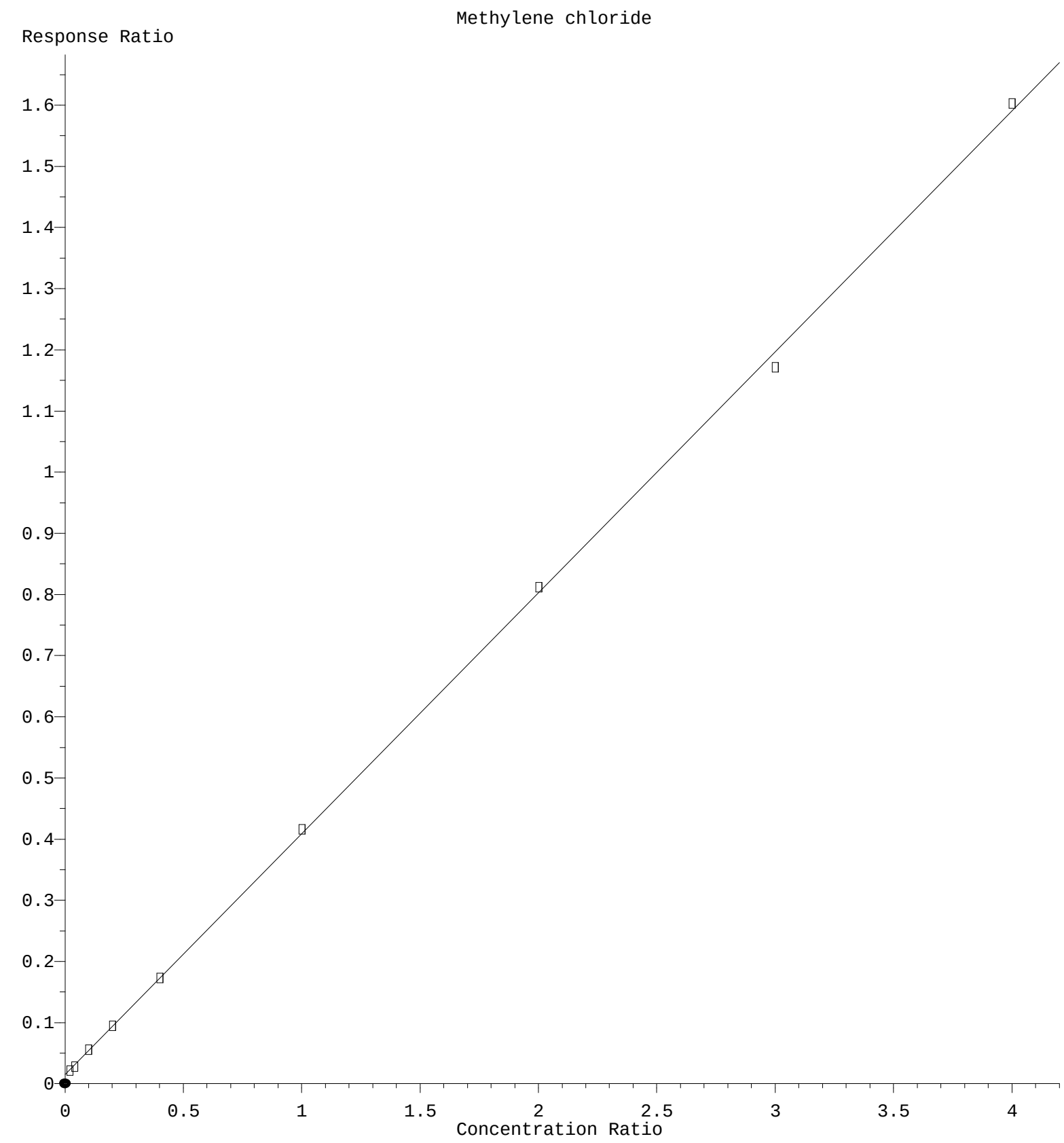
(#) = Out of Range



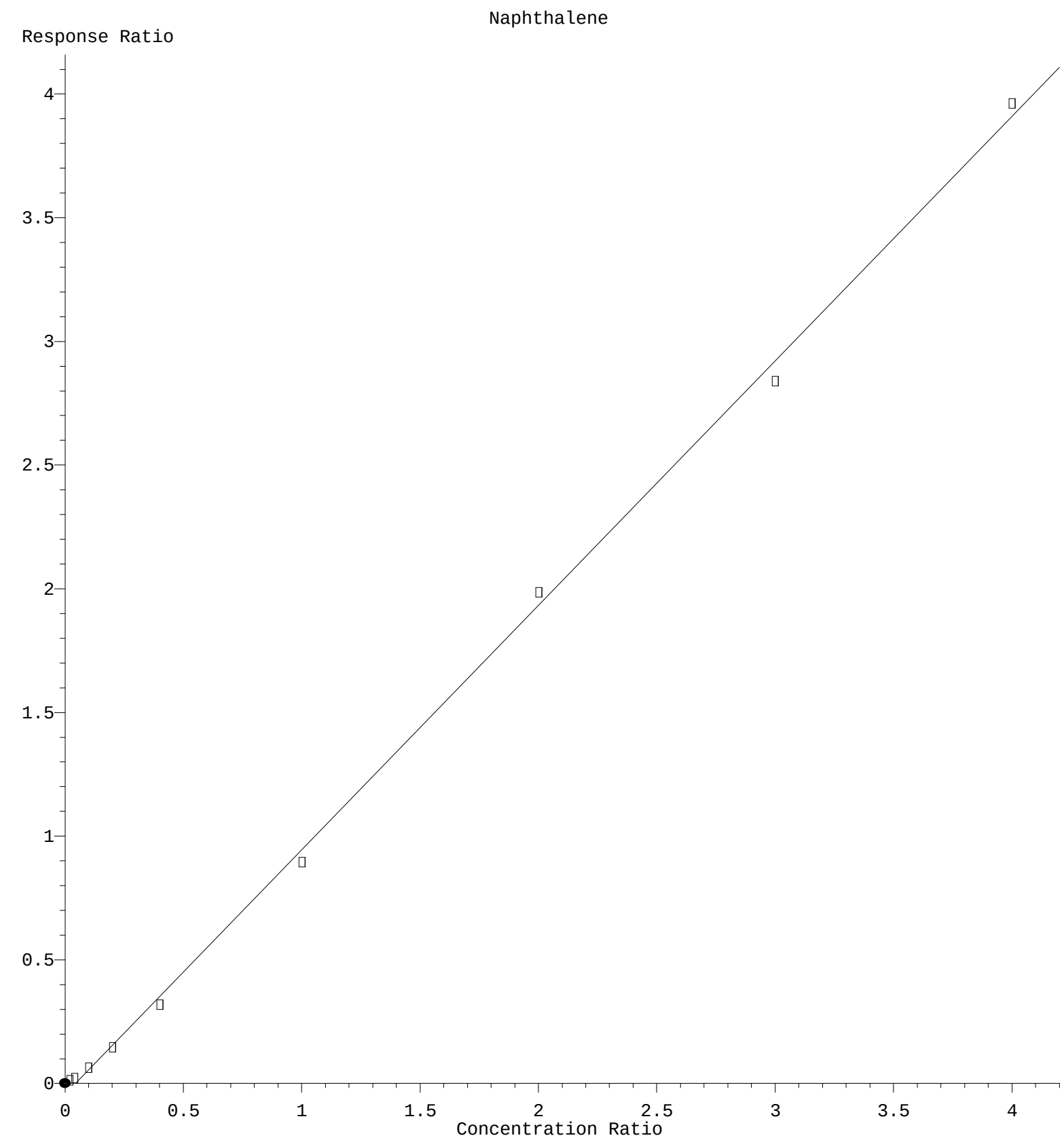
Response = 4.80e-004 * Amt + 5.76e-004
Coef of Det (r^2) = 0.995 Curve Fit: Linear
Method Name: C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Calibration Table Last Updated: Wed Jan 12 17:55:12 2022



Response = 1.76e-001 * Amt - 1.43e-003
Coef of Det (r^2) = 0.999 Curve Fit: Linear
Method Name: C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Calibration Table Last Updated: Wed Jan 12 17:52:02 2022



Response = 3.94e-001 * Amt + 1.51e-002
Coef of Det (r^2) = 1.000 Curve Fit: Linear
Method Name: C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Calibration Table Last Updated: Wed Jan 12 17:52:02 2022



Response = 9.88e-001 * Amt - 4.38e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear
Method Name: C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Calibration Table Last Updated: Wed Jan 12 17:52:02 2022

Evaluate Continuing Calibration Report

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103494.D
Acq On : 12 Jan 2022 11:53 am
Operator : ORM
Sample : ICAL 8260 001 W (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 12 17:40:50 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:39:31 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	98	0.00
2	T	Dichlorodifluoromethane	1.000	1.055	-5.5	99	0.00
3	pcc	Chloromethane	1.000	1.036	-3.6	97	0.00
4	ccc	Vinyl chloride	1.000	1.037	-3.7	100	0.00
5	T	Bromomethane	1.000	0.899	10.1	72	0.00
6	T	Chloroethane	1.000	1.044	-4.4	96	0.00
7	T	Trichlorofluoromethane	1.000	0.963	3.7	100	-0.02
8	T	Acrolein	-1.000	0.627	0.0	88	0.00
9	Mccc	1,1-Dichloroethene	1.000	1.006	-0.6	98	0.00
10		Freon-113	1.000	1.159	-15.9	100	0.00
11	T	Acetone	-1.000	2.858	0.0	100	0.00
12	T	Iodomethane	2.000	2.160	-8.0	100	-0.01
13	T	Carbon disulfide	2.000	2.185	-9.3	100	0.00
14		Methyl acetate	1.000	1.014	-1.4	88	0.00
15	T	Vinyl acetate	2.000	1.499	25.0#	87	0.00
16	T	Methylene chloride	1.000	0.933	6.7	100	-0.01
17	T	Acrylonitrile	-1.000	0.342	0.0	63	0.00
18		Methyl tert-butyl ether	1.000	1.009	-0.9	100	0.00
19	T	trans-1,2-Dichloroethene	1.000	1.153	-15.3	101	0.00
20	pcc	1,1-Dichloroethane	1.000	1.022	-2.2	101	0.00
21	T	2,2-Dichloropropane	1.000	1.028	-2.8	99	-0.01
22	T	cis-1,2-Dichloroethene	1.000	1.016	-1.6	100	0.00
23	T	2-Butanone	-1.000	0.580	0.0	100	0.05
24	T	Bromochloromethane	1.000	0.913	8.7	100	0.00
25	ccc	Chloroform	1.000	1.033	-3.3	100	0.00
26		Cyclohexane	1.000	0.936	6.4	100	0.00
27	T	1,1,1-Trichloroethane	1.000	1.043	-4.3	99	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	99	0.00
29	S	Dibromofluoromethane	50.000	49.786	0.4	98	0.00
30	T	1,1-Dichloropropene	1.000	1.181	-18.1	100	0.00
31	T	Carbon tetrachloride	1.000	1.129	-12.9	100	0.00
32	M	Benzene	1.000	1.085	-8.5	100	0.00
33	T	1,2-Dichloroethane	1.000	0.976	2.4	94	0.00
34	M	Trichloroethene	1.000	1.072	-7.2	99	0.00
35		Methylcyclohexane	1.000	1.177	-17.7	100	0.00
36	ccc	1,2-Dichloropropane	1.000	1.208	-20.8#	99	0.00
37	T	Dibromomethane	1.000	1.068	-6.8	100	0.00
38		1,4-Dioxane	-1.000	0.000	0.0	0	-7.49#
39	T	Bromodichloromethane	1.000	0.974	2.6	99	0.00
40	T	2-Chloroethyl vinyl ether	-1.000	1.501	0.0	97	0.00
41	T	cis-1,3-Dichloropropene	1.000	0.904	9.6	100	0.00
42	T	4-Methyl-2-pentanone	2.000	1.740	13.0	96	0.00
43	S	Toluene-d8	50.000	49.755	0.5	100	0.00
44	Mccc	Toluene	1.000	1.055	-5.5	100	0.00
45	T	trans-1,3-Dichloropropene	1.000	0.891	10.9	100	0.00
46	T	1,1,2-Trichloroethane	1.000	1.029	-2.9	102	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	2.000	1.488	25.6#	100	0.00
49	T	Tetrachloroethene	1.000	1.060	-6.0	100	0.00
50	T	1,3-Dichloropropane	1.000	1.049	-4.9	100	0.00
51	T	Dibromochloromethane	1.000	0.846	15.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103494.D
Acq On : 12 Jan 2022 11:53 am
Operator : ORM
Sample : ICAL 8260 001 W (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 12 17:40:50 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:39:31 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	1.000	1.018	-1.8	98	0.00
53	Mpcc	Chlorobenzene	1.000	1.135	-13.5	100	0.00
54	T	1,1,1,2-Tetrachloroethane	1.000	1.061	-6.1	99	0.00
55	ccc	Ethylbenzene	1.000	0.981	1.9	100	0.00
56	T	m,p-Xylene	2.000	1.958	2.1	100	0.00
57	T	o-Xylene	1.000	0.924	7.6	100	0.00
58	T	Styrene	1.000	0.817	18.3	98	0.00
59	pcc	Bromoform	1.000	0.800	20.0	100	0.00
60	S	4-Bromofluorobenzene	50.000	48.034	3.9	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	1.000	1.072	-7.2	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	1.000	1.044	-4.4	99	0.00
64	T	1,2,3-Trichloropropane	1.000	1.255	-25.5#	100	0.00
65	T	Isopropylbenzene	1.000	1.011	-1.1	100	0.00
66	T	n-Propylbenzene	1.000	1.026	-2.6	100	0.00
67	T	trans-1,4-Dichloro-2-butene	-1.000	0.000	0.0	0	-11.59#
68	T	2-Chlorotoluene	1.000	1.143	-14.3	100	0.00
69	T	4-Chlorotoluene	1.000	0.993	0.7	100	0.00
70	T	1,3,5-Trimethylbenzene	1.000	0.918	8.2	100	0.00
71	T	tert-Butylbenzene	1.000	0.914	8.6	88	0.00
72	T	1,2,4-Trimethylbenzene	1.000	0.914	8.6	100	0.00
73	T	sec-Butylbenzene	1.000	0.973	2.7	100	0.00
74	T	1,3-Dichlorobenzene	1.000	1.122	-12.2	100	0.00
75	T	4-Isopropyltoluene	1.000	0.957	4.3	100	0.00
76	T	1,4-Dichlorobenzene	1.000	1.121	-12.1	100	0.00
77	T	1,2-Dichlorobenzene	1.000	0.991	0.9	100	0.00
78	T	n-Butylbenzene	1.000	0.964	3.6	100	0.00
79	T	1,2-Dibromo-3-chloropropane	1.000	0.872	12.8	100	0.00
80	T	1,2,4-Trichlorobenzene	1.000	0.868	13.2	100	0.00
81	T	Hexachlorobutadiene	1.000	1.175	-17.5	100	0.00
82	T	Naphthalene	1.000	1.124	-12.4	100	0.00
83	T	1,2,3-Trichlorobenzene	1.000	0.987	1.3	100	-0.33

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103495.D
Acq On : 12 Jan 2022 12:17 pm
Operator : ORM
Sample : ICAL 8260 002 W (2uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 12 17:42:56 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:42:55 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	99	0.00
2	T	Dichlorodifluoromethane	2.000	1.902	4.9	99	0.00
3	pcc	Chloromethane	2.000	1.878	6.1	98	0.00
4	ccc	Vinyl chloride	2.000	1.872	6.4	99	0.00
5	T	Bromomethane	2.000	2.035	-1.8	94	0.00
6	T	Chloroethane	2.000	1.968	1.6	100	0.00
7	T	Trichlorofluoromethane	2.000	1.773	11.4	100	0.00
8	T	Acrolein	2.000	1.236	38.2#	100	0.00
9	Mccc	1,1-Dichloroethene	2.000	2.010	-0.5	100	0.00
10		Freon-113	2.000	2.059	-3.0	98	-0.01
11	T	Acetone	4.000	4.564	-14.1	100	0.00
12	T	Iodomethane	4.000	3.865	3.4	100	-0.03
13	T	Carbon disulfide	4.000	3.766	5.8	99	-0.01
14		Methyl acetate	2.000	1.755	12.3	87	0.00
15	T	Vinyl acetate	4.000	2.816	29.6#	90	0.00
16	T	Methylene chloride	2.000	1.758	12.1	100	-0.02
17	T	Acrylonitrile	2.000	1.560	22.0#	98	0.00
18		Methyl tert-butyl ether	2.000	1.807	9.7	100	-0.01
19	T	trans-1,2-Dichloroethene	2.000	1.876	6.2	100	-0.02
20	pcc	1,1-Dichloroethane	2.000	1.992	0.4	100	0.00
21	T	2,2-Dichloropropane	2.000	2.077	-3.8	100	-0.02
22	T	cis-1,2-Dichloroethene	2.000	1.684	15.8	94	0.00
23	T	2-Butanone	-1.000	0.918	0.0	100	0.00
24	T	Bromochloromethane	2.000	1.850	7.5	100	0.00
25	ccc	Chloroform	2.000	1.990	0.5	100	-0.01
26		Cyclohexane	2.000	1.813	9.4	100	0.00
27	T	1,1,1-Trichloroethane	2.000	2.002	-0.1	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	50.131	-0.3	101	0.00
30	T	1,1-Dichloropropene	2.000	1.902	4.9	100	0.00
31	T	Carbon tetrachloride	2.000	2.000	0.0	100	-0.02
32	M	Benzene	2.000	1.898	5.1	99	0.00
33	T	1,2-Dichloroethane	2.000	1.791	10.5	99	0.00
34	M	Trichloroethene	2.000	1.933	3.3	100	-0.01
35		Methylcyclohexane	2.000	1.875	6.3	98	0.00
36	ccc	1,2-Dichloropropane	2.000	1.875	6.3	100	0.00
37	T	Dibromomethane	2.000	1.704	14.8	96	0.00
38		1,4-Dioxane	-1.000	0.000	0.0	0	-7.49#
39	T	Bromodichloromethane	2.000	1.783	10.9	98	0.00
40	T	2-Chloroethyl vinyl ether	4.000	3.105	22.4#	100	0.00
41	T	cis-1,3-Dichloropropene	2.000	1.622	18.9	99	0.00
42	T	4-Methyl-2-pentanone	4.000	3.316	17.1	102	0.00
43	S	Toluene-d8	50.000	49.200	1.6	100	0.00
44	Mccc	Toluene	2.000	1.859	7.1	100	0.00
45	T	trans-1,3-Dichloropropene	2.000	1.504	24.8#	95	0.00
46	T	1,1,2-Trichloroethane	2.000	1.822	8.9	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	4.000	2.845	28.9#	100	0.00
49	T	Tetrachloroethene	2.000	2.017	-0.8	100	0.00
50	T	1,3-Dichloropropane	2.000	1.809	9.6	97	0.00
51	T	Dibromochloromethane	2.000	1.647	17.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103495.D
Acq On : 12 Jan 2022 12:17 pm
Operator : ORM
Sample : ICAL 8260 002 W (2uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 12 17:42:56 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:42:55 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	2.000	1.610	19.5	100	0.00
53	Mpcc	Chlorobenzene	2.000	1.947	2.6	100	0.00
54	T	1,1,1,2-Tetrachloroethane	2.000	1.875	6.3	100	0.00
55	ccc	Ethylbenzene	2.000	1.843	7.9	100	0.00
56	T	m,p-Xylene	4.000	3.550	11.3	100	0.00
57	T	o-Xylene	2.000	1.711	14.4	94	0.00
58	T	Styrene	2.000	1.624	18.8	102	0.00
59	pcc	Bromoform	2.000	1.455	27.2#	100	0.00
60	S	4-Bromofluorobenzene	50.000	47.980	4.0	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	2.000	2.122	-6.1	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	2.000	1.940	3.0	100	0.00
64	T	1,2,3-Trichloropropane	2.000	1.562	21.9#	100	0.00
65	T	Isopropylbenzene	2.000	1.778	11.1	99	0.00
66	T	n-Propylbenzene	2.000	1.897	5.1	100	0.00
67	T	trans-1,4-Dichloro-2-butene	4.000	3.624	9.4	100	0.00
68	T	2-Chlorotoluene	2.000	2.133	-6.7	100	0.09
69	T	4-Chlorotoluene	2.000	1.877	6.2	98	0.00
70	T	1,3,5-Trimethylbenzene	2.000	1.777	11.2	100	0.00
71	T	tert-Butylbenzene	2.000	1.609	19.6	98	0.00
72	T	1,2,4-Trimethylbenzene	2.000	1.716	14.2	99	0.00
73	T	sec-Butylbenzene	2.000	1.788	10.6	100	0.00
74	T	1,3-Dichlorobenzene	2.000	1.980	1.0	100	0.07
75	T	4-Isopropyltoluene	2.000	1.705	14.7	100	0.00
76	T	1,4-Dichlorobenzene	2.000	1.979	1.0	100	0.07
77	T	1,2-Dichlorobenzene	2.000	1.928	3.6	100	0.00
78	T	n-Butylbenzene	2.000	1.694	15.3	100	0.00
79	T	1,2-Dibromo-3-chloropropane	2.000	1.870	6.5	100	0.00
80	T	1,2,4-Trichlorobenzene	2.000	1.769	11.6	100	0.32
81	T	Hexachlorobutadiene	2.000	1.609	19.6	100	0.00
82	T	Naphthalene	2.000	1.973	1.3	99	0.00
83	T	1,2,3-Trichlorobenzene	2.000	1.406	29.7#	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103496.D
Acq On : 12 Jan 2022 12:42 pm
Operator : ORM
Sample : ICAL 8260 005 W (5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 12 17:44:10 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:43:42 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	99	0.00
2	T	Dichlorodifluoromethane	5.000	4.836	3.3	98	0.00
3	pcc	Chloromethane	5.000	5.160	-3.2	100	0.00
4	ccc	Vinyl chloride	5.000	4.612	7.8	100	0.01
5	T	Bromomethane	5.000	4.665	6.7	89	0.00
6	T	Chloroethane	5.000	5.084	-1.7	100	0.00
7	T	Trichlorofluoromethane	5.000	4.709	5.8	101	0.00
8	T	Acrolein	5.000	4.654	6.9	100	0.00
9	Mccc	1,1-Dichloroethene	5.000	5.052	-1.0	100	-0.02
10		Freon-113	5.000	5.483	-9.7	100	0.00
11	T	Acetone	10.000	9.934	0.7	98	0.00
12	T	Iodomethane	10.000	10.209	-2.1	100	-0.03
13	T	Carbon disulfide	10.000	9.943	0.6	99	-0.01
14		Methyl acetate	5.000	4.896	2.1	88	0.00
15	T	Vinyl acetate	10.000	8.942	10.6	98	0.00
16	T	Methylene chloride	5.000	5.195	-3.9	98	0.00
17	T	Acrylonitrile	5.000	4.152	17.0	97	0.00
18		Methyl tert-butyl ether	5.000	4.751	5.0	100	0.00
19	T	trans-1,2-Dichloroethene	5.000	5.207	-4.1	100	0.00
20	pcc	1,1-Dichloroethane	5.000	5.118	-2.4	100	0.00
21	T	2,2-Dichloropropane	5.000	4.937	1.3	100	-0.01
22	T	cis-1,2-Dichloroethene	5.000	5.180	-3.6	101	0.00
23	T	2-Butanone	10.000	7.690	23.1#	85	0.03
24	T	Bromochloromethane	5.000	5.176	-3.5	100	0.00
25	ccc	Chloroform	5.000	5.049	-1.0	100	0.00
26		Cyclohexane	5.000	4.256	14.9	65	0.00
27	T	1,1,1-Trichloroethane	5.000	5.130	-2.6	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	49.094	1.8	100	0.00
30	T	1,1-Dichloropropene	5.000	4.918	1.6	99	0.00
31	T	Carbon tetrachloride	5.000	4.872	2.6	100	0.00
32	M	Benzene	5.000	5.118	-2.4	99	0.00
33	T	1,2-Dichloroethane	5.000	5.222	-4.4	101	0.00
34	M	Trichloroethene	5.000	5.108	-2.2	100	0.00
35		Methylcyclohexane	5.000	5.028	-0.6	100	0.00
36	ccc	1,2-Dichloropropane	5.000	4.853	2.9	99	0.00
37	T	Dibromomethane	5.000	5.008	-0.2	100	0.00
38		1,4-Dioxane	-1.000	0.000	0.0	0	-7.49#
39	T	Bromodichloromethane	5.000	5.023	-0.5	100	0.00
40	T	2-Chloroethyl vinyl ether	10.000	8.434	15.7	98	0.00
41	T	cis-1,3-Dichloropropene	5.000	4.655	6.9	100	0.00
42	T	4-Methyl-2-pentanone	10.000	9.301	7.0	99	0.00
43	S	Toluene-d8	50.000	49.724	0.6	100	0.00
44	Mccc	Toluene	5.000	5.156	-3.1	99	0.00
45	T	trans-1,3-Dichloropropene	5.000	4.555	8.9	100	0.00
46	T	1,1,2-Trichloroethane	5.000	5.313	-6.3	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	10.000	8.491	15.1	91	0.00
49	T	Tetrachloroethene	5.000	5.253	-5.1	100	0.00
50	T	1,3-Dichloropropane	5.000	5.151	-3.0	100	0.00
51	T	Dibromochloromethane	5.000	4.870	2.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103496.D
Acq On : 12 Jan 2022 12:42 pm
Operator : ORM
Sample : ICAL 8260 005 W (5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 12 17:44:10 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:43:42 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	5.000	5.185	-3.7	100	0.00
53	Mpcc	Chlorobenzene	5.000	5.188	-3.8	100	0.00
54	T	1,1,1,2-Tetrachloroethane	5.000	4.981	0.4	100	0.00
55	ccc	Ethylbenzene	5.000	5.026	-0.5	100	0.00
56	T	m,p-Xylene	10.000	10.108	-1.1	99	0.00
57	T	o-Xylene	5.000	4.950	1.0	100	0.00
58	T	Styrene	5.000	4.723	5.5	99	0.00
59	pcc	Bromoform	5.000	4.516	9.7	100	0.00
60	S	4-Bromofluorobenzene	50.000	49.148	1.7	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	5.000	5.214	-4.3	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	5.000	5.233	-4.7	100	0.00
64	T	1,2,3-Trichloropropane	5.000	5.445	-8.9	100	0.00
65	T	Isopropylbenzene	5.000	5.156	-3.1	100	0.00
66	T	n-Propylbenzene	5.000	5.142	-2.8	100	0.00
67	T	trans-1,4-Dichloro-2-butene	10.000	8.722	12.8	100	0.00
68	T	2-Chlorotoluene	5.000	5.201	-4.0	101	0.00
69	T	4-Chlorotoluene	5.000	5.214	-4.3	98	0.00
70	T	1,3,5-Trimethylbenzene	5.000	5.076	-1.5	100	0.00
71	T	tert-Butylbenzene	5.000	4.483	10.3	88	0.00
72	T	1,2,4-Trimethylbenzene	5.000	5.068	-1.4	100	0.00
73	T	sec-Butylbenzene	5.000	5.000	0.0	100	0.00
74	T	1,3-Dichlorobenzene	5.000	5.125	-2.5	100	0.00
75	T	4-Isopropyltoluene	5.000	5.030	-0.6	100	0.00
76	T	1,4-Dichlorobenzene	5.000	5.123	-2.5	100	0.00
77	T	1,2-Dichlorobenzene	5.000	5.288	-5.8	100	0.00
78	T	n-Butylbenzene	5.000	4.773	4.5	100	0.00
79	T	1,2-Dibromo-3-chloropropane	5.000	4.768	4.6	100	0.00
80	T	1,2,4-Trichlorobenzene	5.000	4.492	10.2	100	0.00
81	T	Hexachlorobutadiene	5.000	5.573	-11.5	100	0.00
82	T	Naphthalene	5.000	5.450	-9.0	99	0.00
83	T	1,2,3-Trichlorobenzene	5.000	5.115	-2.3	100	-0.32

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103497.D
Acq On : 12 Jan 2022 1:06 pm
Operator : ORM
Sample : ICAL 8260 010 W (10uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 12 17:47:09 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:46:32 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	99	-0.01
2	T	Dichlorodifluoromethane	10.000	11.506	-15.1	97	0.00
3	pcc	Chloromethane	10.000	11.260	-12.6	102	0.00
4	ccc	Vinyl chloride	10.000	11.601	-16.0	100	0.00
5	T	Bromomethane	10.000	11.510	-15.1	98	0.00
6	T	Chloroethane	10.000	11.507	-15.1	100	-0.01
7	T	Trichlorofluoromethane	10.000	11.953	-19.5	100	0.00
8	T	Acrolein	10.000	10.265	-2.7	100	0.00
9	Mccc	1,1-Dichloroethene	10.000	10.459	-4.6	100	-0.01
10		Freon-113	10.000	10.440	-4.4	100	0.00
11	T	Acetone	20.000	21.675	-8.4	99	0.00
12	T	Iodomethane	20.000	20.684	-3.4	100	-0.02
13	T	Carbon disulfide	20.000	20.615	-3.1	100	-0.01
14		Methyl acetate	10.000	10.579	-5.8	105	0.00
15	T	Vinyl acetate	20.000	18.758	6.2	96	0.00
16	T	Methylene chloride	10.000	10.184	-1.8	99	-0.02
17	T	Acrylonitrile	10.000	10.160	-1.6	98	0.00
18		Methyl tert-butyl ether	10.000	10.148	-1.5	100	0.00
19	T	trans-1,2-Dichloroethene	10.000	9.917	0.8	98	0.00
20	pcc	1,1-Dichloroethane	10.000	10.302	-3.0	100	-0.01
21	T	2,2-Dichloropropane	10.000	10.879	-8.8	100	-0.02
22	T	cis-1,2-Dichloroethene	10.000	10.093	-0.9	100	0.00
23	T	2-Butanone	20.000	18.131	9.3	100	0.00
24	T	Bromochloromethane	10.000	10.153	-1.5	99	0.00
25	ccc	Chloroform	10.000	10.357	-3.6	100	0.00
26		Cyclohexane	10.000	12.414	-24.1#	100	-0.01
27	T	1,1,1-Trichloroethane	10.000	10.590	-5.9	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	99	0.00
29	S	Dibromofluoromethane	50.000	50.205	-0.4	99	0.00
30	T	1,1-Dichloropropene	10.000	10.665	-6.6	100	0.00
31	T	Carbon tetrachloride	10.000	10.055	-0.5	100	0.00
32	M	Benzene	10.000	10.417	-4.2	100	0.00
33	T	1,2-Dichloroethane	10.000	10.443	-4.4	100	0.00
34	M	Trichloroethene	10.000	10.407	-4.1	100	-0.01
35		Methylcyclohexane	10.000	10.338	-3.4	100	0.00
36	ccc	1,2-Dichloropropane	10.000	10.059	-0.6	100	0.00
37	T	Dibromomethane	10.000	9.879	1.2	100	0.00
38		1,4-Dioxane	100.000	77.400	22.6#	100	0.00
39	T	Bromodichloromethane	10.000	9.737	2.6	99	0.00
40	T	2-Chloroethyl vinyl ether	20.000	18.189	9.1	98	0.00
41	T	cis-1,3-Dichloropropene	10.000	9.957	0.4	99	0.00
42	T	4-Methyl-2-pentanone	20.000	18.999	5.0	100	0.00
43	S	Toluene-d8	50.000	49.988	0.0	100	0.00
44	Mccc	Toluene	10.000	10.114	-1.1	99	0.00
45	T	trans-1,3-Dichloropropene	10.000	9.781	2.2	100	0.00
46	T	1,1,2-Trichloroethane	10.000	9.770	2.3	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	20.000	19.566	2.2	95	0.00
49	T	Tetrachloroethene	10.000	10.636	-6.4	100	0.00
50	T	1,3-Dichloropropane	10.000	10.200	-2.0	100	0.00
51	T	Dibromochloromethane	10.000	9.772	2.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103497.D
Acq On : 12 Jan 2022 1:06 pm
Operator : ORM
Sample : ICAL 8260 010 W (10uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 12 17:47:09 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:46:32 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	10.000	10.074	-0.7	100	0.00
53	Mpcc	Chlorobenzene	10.000	10.151	-1.5	100	0.00
54	T	1,1,1,2-Tetrachloroethane	10.000	9.709	2.9	100	0.00
55	ccc	Ethylbenzene	10.000	10.234	-2.3	100	0.00
56	T	m,p-Xylene	20.000	20.523	-2.6	99	0.00
57	T	o-Xylene	10.000	10.163	-1.6	100	0.00
58	T	Styrene	10.000	10.142	-1.4	99	0.00
59	pcc	Bromoform	10.000	8.885	11.2	100	0.00
60	S	4-Bromofluorobenzene	50.000	48.862	2.3	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	10.000	10.136	-1.4	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	10.000	10.726	-7.3	100	0.00
64	T	1,2,3-Trichloropropane	10.000	11.065	-10.6	100	0.00
65	T	Isopropylbenzene	10.000	10.552	-5.5	100	0.00
66	T	n-Propylbenzene	10.000	10.702	-7.0	100	0.00
67	T	trans-1,4-Dichloro-2-butene	20.000	17.157	14.2	100	0.00
68	T	2-Chlorotoluene	10.000	10.475	-4.7	100	0.00
69	T	4-Chlorotoluene	10.000	10.547	-5.5	99	0.00
70	T	1,3,5-Trimethylbenzene	10.000	10.724	-7.2	100	0.00
71	T	tert-Butylbenzene	10.000	9.396	6.0	87	0.00
72	T	1,2,4-Trimethylbenzene	10.000	10.635	-6.3	100	0.00
73	T	sec-Butylbenzene	10.000	10.570	-5.7	100	0.00
74	T	1,3-Dichlorobenzene	10.000	10.214	-2.1	100	0.00
75	T	4-Isopropyltoluene	10.000	10.614	-6.1	100	0.00
76	T	1,4-Dichlorobenzene	10.000	10.260	-2.6	100	0.00
77	T	1,2-Dichlorobenzene	10.000	10.471	-4.7	100	0.00
78	T	n-Butylbenzene	10.000	9.990	0.1	100	0.00
79	T	1,2-Dibromo-3-chloropropane	10.000	10.124	-1.2	100	0.00
80	T	1,2,4-Trichlorobenzene	10.000	9.688	3.1	100	0.00
81	T	Hexachlorobutadiene	10.000	10.612	-6.1	100	0.00
82	T	Naphthalene	10.000	9.577	4.2	100	0.00
83	T	1,2,3-Trichlorobenzene	10.000	9.123	8.8	99	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103498.D
Acq On : 12 Jan 2022 1:31 pm
Operator : ORM
Sample : ICAL 8260 020 W (20uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 12 17:54:49 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:48:45 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	20.000	19.062	4.7	100	0.00
3	pcc	Chloromethane	20.000	19.363	3.2	100	0.00
4	ccc	Vinyl chloride	20.000	19.862	0.7	100	0.00
5	T	Bromomethane	20.000	20.425	-2.1	100	0.00
6	T	Chloroethane	20.000	19.390	3.0	100	0.00
7	T	Trichlorofluoromethane	20.000	19.732	1.3	100	0.00
8	T	Acrolein	20.000	20.061	-0.3	100	0.00
9	Mccc	1,1-Dichloroethene	20.000	18.194	9.0	100	-0.01
10		Freon-113	20.000	18.123	9.4	100	-0.02
11	T	Acetone	40.000	40.809	-2.0	100	0.00
12	T	Iodomethane	40.000	36.722	8.2	100	-0.02
13	T	Carbon disulfide	40.000	36.761	8.1	100	-0.01
14		Methyl acetate	20.000	19.807	1.0	100	0.00
15	T	Vinyl acetate	40.000	41.285	-3.2	100	0.00
16	T	Methylene chloride	20.000	20.059	-0.3	100	-0.01
17	T	Acrylonitrile	20.000	19.805	1.0	100	0.00
18		Methyl tert-butyl ether	20.000	19.403	3.0	100	0.00
19	T	trans-1,2-Dichloroethene	20.000	18.510	7.4	100	0.00
20	pcc	1,1-Dichloroethane	20.000	18.924	5.4	100	0.00
21	T	2,2-Dichloropropane	20.000	19.218	3.9	100	-0.02
22	T	cis-1,2-Dichloroethene	20.000	19.404	3.0	100	0.00
23	T	2-Butanone	40.000	41.541	-3.9	100	0.00
24	T	Bromochloromethane	20.000	19.901	0.5	100	0.00
25	ccc	Chloroform	20.000	19.149	4.3	100	0.00
26		Cyclohexane	20.000	20.179	-0.9	100	0.00
27	T	1,1,1-Trichloroethane	20.000	18.481	7.6	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	49.803	0.4	100	0.00
30	T	1,1-Dichloropropene	20.000	18.403	8.0	100	0.00
31	T	Carbon tetrachloride	20.000	18.140	9.3	100	0.00
32	M	Benzene	20.000	18.556	7.2	100	0.00
33	T	1,2-Dichloroethane	20.000	19.975	0.1	100	0.00
34	M	Trichloroethene	20.000	18.509	7.5	100	0.00
35		Methylcyclohexane	20.000	17.888	10.6	100	0.00
36	ccc	1,2-Dichloropropane	20.000	18.758	6.2	100	0.00
37	T	Dibromomethane	20.000	19.541	2.3	100	0.00
38		1,4-Dioxane	200.000	219.294	-9.6	100	-0.01
39	T	Bromodichloromethane	20.000	18.745	6.3	100	0.00
40	T	2-Chloroethyl vinyl ether	40.000	40.018	-0.0	100	0.00
41	T	cis-1,3-Dichloropropene	20.000	19.598	2.0	100	0.00
42	T	4-Methyl-2-pentanone	40.000	40.805	-2.0	100	0.00
43	S	Toluene-d8	50.000	49.900	0.2	100	0.00
44	Mccc	Toluene	20.000	19.037	4.8	100	0.00
45	T	trans-1,3-Dichloropropene	20.000	19.908	0.5	100	0.00
46	T	1,1,2-Trichloroethane	20.000	19.795	1.0	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	40.000	43.038	-7.6	100	0.00
49	T	Tetrachloroethene	20.000	18.460	7.7	100	0.00
50	T	1,3-Dichloropropane	20.000	19.632	1.8	100	0.00
51	T	Dibromochloromethane	20.000	19.398	3.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103498.D
Acq On : 12 Jan 2022 1:31 pm
Operator : ORM
Sample : ICAL 8260 020 W (20uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 12 17:54:49 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:48:45 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	20.000	19.906	0.5	100	0.00
53	Mpcc	Chlorobenzene	20.000	18.726	6.4	100	0.00
54	T	1,1,1,2-Tetrachloroethane	20.000	19.032	4.8	100	0.00
55	ccc	Ethylbenzene	20.000	19.040	4.8	100	0.00
56	T	m,p-Xylene	40.000	38.258	4.4	100	0.00
57	T	o-Xylene	20.000	19.153	4.2	100	0.00
58	T	Styrene	20.000	19.909	0.5	100	0.00
59	pcc	Bromoform	20.000	19.893	0.5	100	0.00
60	S	4-Bromofluorobenzene	50.000	49.403	1.2	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	20.000	18.531	7.3	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	20.000	19.725	1.4	100	0.00
64	T	1,2,3-Trichloropropane	20.000	20.392	-2.0	100	0.00
65	T	Isopropylbenzene	20.000	19.292	3.5	100	0.00
66	T	n-Propylbenzene	20.000	18.884	5.6	100	0.00
67	T	trans-1,4-Dichloro-2-butene	40.000	39.849	0.4	100	0.00
68	T	2-Chlorotoluene	20.000	18.339	8.3	100	0.00
69	T	4-Chlorotoluene	20.000	19.408	3.0	100	0.00
70	T	1,3,5-Trimethylbenzene	20.000	19.435	2.8	100	0.00
71	T	tert-Butylbenzene	20.000	16.937	15.3	100	0.00
72	T	1,2,4-Trimethylbenzene	20.000	19.433	2.8	100	0.00
73	T	sec-Butylbenzene	20.000	19.201	4.0	100	0.00
74	T	1,3-Dichlorobenzene	20.000	19.161	4.2	100	0.00
75	T	4-Isopropyltoluene	20.000	18.850	5.7	100	0.00
76	T	1,4-Dichlorobenzene	20.000	19.116	4.4	100	0.00
77	T	1,2-Dichlorobenzene	20.000	19.497	2.5	100	0.00
78	T	n-Butylbenzene	20.000	18.949	5.3	100	0.00
79	T	1,2-Dibromo-3-chloropropane	20.000	18.986	5.1	100	0.00
80	T	1,2,4-Trichlorobenzene	20.000	19.713	1.4	100	0.00
81	T	Hexachlorobutadiene	20.000	18.456	7.7	100	0.00
82	T	Naphthalene	20.000	18.320	8.4	100	0.00
83	T	1,2,3-Trichlorobenzene	20.000	20.214	-1.1	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103500.D
Acq On : 12 Jan 2022 2:20 pm
Operator : ORM
Sample : ICAL 8260 050 W (50uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 12 17:49:46 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:49:11 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	50.000	52.482	-5.0	99	0.00
3	pcc	Chloromethane	50.000	50.597	-1.2	100	0.00
4	ccc	Vinyl chloride	50.000	51.363	-2.7	100	0.00
5	T	Bromomethane	50.000	49.790	0.4	100	0.00
6	T	Chloroethane	50.000	50.816	-1.6	100	0.00
7	T	Trichlorofluoromethane	50.000	53.722	-7.4	100	0.00
8	T	Acrolein	50.000	52.937	-5.9	100	0.00
9	Mccc	1,1-Dichloroethene	50.000	52.565	-5.1	100	-0.01
10		Freon-113	50.000	51.278	-2.6	100	0.00
11	T	Acetone	100.000	96.186	3.8	100	0.00
12	T	Iodomethane	100.000	101.454	-1.5	100	-0.02
13	T	Carbon disulfide	100.000	103.502	-3.5	100	-0.02
14		Methyl acetate	50.000	51.365	-2.7	100	0.00
15	T	Vinyl acetate	100.000	113.918	-13.9	100	0.00
16	T	Methylene chloride	50.000	50.711	-1.4	100	-0.02
17	T	Acrylonitrile	50.000	52.936	-5.9	100	-0.01
18		Methyl tert-butyl ether	50.000	51.574	-3.1	100	0.00
19	T	trans-1,2-Dichloroethene	50.000	50.868	-1.7	100	0.00
20	pcc	1,1-Dichloroethane	50.000	51.033	-2.1	100	0.00
21	T	2,2-Dichloropropane	50.000	50.069	-0.1	100	0.00
22	T	cis-1,2-Dichloroethene	50.000	51.900	-3.8	100	0.00
23	T	2-Butanone	100.000	108.194	-8.2	100	0.00
24	T	Bromochloromethane	50.000	52.269	-4.5	100	0.00
25	ccc	Chloroform	50.000	50.087	-0.2	100	0.00
26		Cyclohexane	50.000	53.020	-6.0	100	-0.01
27	T	1,1,1-Trichloroethane	50.000	51.389	-2.8	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	49.984	0.0	100	0.00
30	T	1,1-Dichloropropene	50.000	51.062	-2.1	100	0.00
31	T	Carbon tetrachloride	50.000	51.681	-3.4	100	0.00
32	M	Benzene	50.000	49.947	0.1	100	0.00
33	T	1,2-Dichloroethane	50.000	51.471	-2.9	100	0.00
34	M	Trichloroethene	50.000	50.699	-1.4	100	0.00
35		Methylcyclohexane	50.000	52.729	-5.5	100	0.00
36	ccc	1,2-Dichloropropane	50.000	49.541	0.9	100	0.00
37	T	Dibromomethane	50.000	50.772	-1.5	100	0.00
38		1,4-Dioxane	500.000	438.029	12.4	87	-0.01
39	T	Bromodichloromethane	50.000	51.130	-2.3	100	0.00
40	T	2-Chloroethyl vinyl ether	100.000	107.987	-8.0	100	0.00
41	T	cis-1,3-Dichloropropene	50.000	53.302	-6.6	100	0.00
42	T	4-Methyl-2-pentanone	100.000	110.518	-10.5	100	0.00
43	S	Toluene-d8	50.000	50.639	-1.3	100	0.00
44	Mccc	Toluene	50.000	51.263	-2.5	100	0.00
45	T	trans-1,3-Dichloropropene	50.000	53.147	-6.3	100	0.00
46	T	1,1,2-Trichloroethane	50.000	50.441	-0.9	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	100.000	117.654	-17.7	100	0.00
49	T	Tetrachloroethene	50.000	50.746	-1.5	100	0.00
50	T	1,3-Dichloropropane	50.000	50.500	-1.0	100	0.00
51	T	Dibromochloromethane	50.000	53.460	-6.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103500.D
Acq On : 12 Jan 2022 2:20 pm
Operator : ORM
Sample : ICAL 8260 050 W (50uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 12 17:49:46 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:49:11 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	50.000	52.279	-4.6	100	0.00
53	Mpcc	Chlorobenzene	50.000	49.202	1.6	100	0.00
54	T	1,1,1,2-Tetrachloroethane	50.000	50.696	-1.4	100	0.00
55	ccc	Ethylbenzene	50.000	52.378	-4.8	100	0.00
56	T	m,p-Xylene	100.000	105.074	-5.1	100	0.00
57	T	o-Xylene	50.000	53.135	-6.3	100	0.00
58	T	Styrene	50.000	55.398	-10.8	100	0.00
59	pcc	Bromoform	50.000	56.010	-12.0	100	0.00
60	S	4-Bromofluorobenzene	50.000	51.576	-3.2	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	50.000	49.043	1.9	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	50.000	48.661	2.7	100	0.00
64	T	1,2,3-Trichloropropane	50.000	51.281	-2.6	100	0.00
65	T	Isopropylbenzene	50.000	52.163	-4.3	100	0.00
66	T	n-Propylbenzene	50.000	51.252	-2.5	100	0.00
67	T	trans-1,4-Dichloro-2-butene	100.000	104.488	-4.5	100	0.00
68	T	2-Chlorotoluene	50.000	48.012	4.0	100	0.00
69	T	4-Chlorotoluene	50.000	50.353	-0.7	100	0.00
70	T	1,3,5-Trimethylbenzene	50.000	52.186	-4.4	100	0.00
71	T	tert-Butylbenzene	50.000	56.375	-12.8	100	0.00
72	T	1,2,4-Trimethylbenzene	50.000	52.914	-5.8	100	0.00
73	T	sec-Butylbenzene	50.000	52.780	-5.6	100	0.00
74	T	1,3-Dichlorobenzene	50.000	49.157	1.7	100	0.00
75	T	4-Isopropyltoluene	50.000	53.182	-6.4	100	0.00
76	T	1,4-Dichlorobenzene	50.000	49.008	2.0	100	0.00
77	T	1,2-Dichlorobenzene	50.000	50.774	-1.5	100	0.00
78	T	n-Butylbenzene	50.000	54.274	-8.5	100	0.00
79	T	1,2-Dibromo-3-chloropropane	50.000	52.104	-4.2	100	0.00
80	T	1,2,4-Trichlorobenzene	50.000	55.363	-10.7	100	0.00
81	T	Hexachlorobutadiene	50.000	50.290	-0.6	100	0.00
82	T	Naphthalene	50.000	47.485	5.0	100	0.00
83	T	1,2,3-Trichlorobenzene	50.000	52.191	-4.4	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103502.D
Acq On : 12 Jan 2022 3:09 pm
Operator : ORM
Sample : ICAL 8260 100 W (100uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 12 17:50:06 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:49:11 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	-0.01
2	T	Dichlorodifluoromethane	100.000	92.113	7.9	100	0.00
3	pcc	Chloromethane	100.000	95.570	4.4	100	0.00
4	ccc	Vinyl chloride	100.000	94.933	5.1	100	0.00
5	T	Bromomethane	100.000	95.422	4.6	100	0.00
6	T	Chloroethane	100.000	92.716	7.3	100	0.00
7	T	Trichlorofluoromethane	100.000	96.090	3.9	100	0.00
8	T	Acrolein	100.000	115.048	-15.0	100	0.00
9	Mccc	1,1-Dichloroethene	100.000	95.841	4.2	100	-0.01
10		Freon-113	100.000	87.649	12.4	100	-0.01
11	T	Acetone	200.000	199.769	0.1	100	0.00
12	T	Iodomethane	200.000	196.761	1.6	100	-0.01
13	T	Carbon disulfide	200.000	193.507	3.2	100	-0.01
14		Methyl acetate	100.000	102.849	-2.8	100	0.00
15	T	Vinyl acetate	200.000	234.690	-17.3	100	-0.01
16	T	Methylene chloride	100.000	100.743	-0.7	100	-0.01
17	T	Acrylonitrile	100.000	114.760	-14.8	100	-0.01
18		Methyl tert-butyl ether	100.000	104.122	-4.1	100	0.00
19	T	trans-1,2-Dichloroethene	100.000	95.687	4.3	100	0.00
20	pcc	1,1-Dichloroethane	100.000	97.064	2.9	100	-0.01
21	T	2,2-Dichloropropane	100.000	87.742	12.3	100	-0.02
22	T	cis-1,2-Dichloroethene	100.000	100.815	-0.8	100	-0.01
23	T	2-Butanone	200.000	224.654	-12.3	100	-0.01
24	T	Bromochloromethane	100.000	101.024	-1.0	100	0.00
25	ccc	Chloroform	100.000	98.307	1.7	100	0.00
26		Cyclohexane	100.000	91.047	9.0	100	-0.01
27	T	1,1,1-Trichloroethane	100.000	93.579	6.4	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	50.467	-0.9	100	-0.01
30	T	1,1-Dichloropropene	100.000	92.098	7.9	100	0.00
31	T	Carbon tetrachloride	100.000	93.085	6.9	100	0.00
32	M	Benzene	100.000	96.269	3.7	100	0.00
33	T	1,2-Dichloroethane	100.000	100.667	-0.7	100	0.00
34	M	Trichloroethene	100.000	94.834	5.2	100	0.00
35		Methylcyclohexane	100.000	91.317	8.7	100	0.00
36	ccc	1,2-Dichloropropane	100.000	97.109	2.9	100	0.00
37	T	Dibromomethane	100.000	103.577	-3.6	100	0.00
38		1,4-Dioxane	1000.000	898.393	10.2	90	-0.02
39	T	Bromodichloromethane	100.000	104.252	-4.3	100	0.00
40	T	2-Chloroethyl vinyl ether	200.000	225.660	-12.8	100	0.00
41	T	cis-1,3-Dichloropropene	100.000	108.736	-8.7	100	0.00
42	T	4-Methyl-2-pentanone	200.000	223.373	-11.7	100	0.00
43	S	Toluene-d8	50.000	50.261	-0.5	100	0.00
44	Mccc	Toluene	100.000	96.961	3.0	100	0.00
45	T	trans-1,3-Dichloropropene	100.000	110.656	-10.7	100	0.00
46	T	1,1,2-Trichloroethane	100.000	99.211	0.8	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	200.000	235.909	-18.0	100	0.00
49	T	Tetrachloroethene	100.000	93.619	6.4	100	0.00
50	T	1,3-Dichloropropane	100.000	100.762	-0.8	100	0.00
51	T	Dibromochloromethane	100.000	111.741	-11.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103502.D
Acq On : 12 Jan 2022 3:09 pm
Operator : ORM
Sample : ICAL 8260 100 W (100uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 12 17:50:06 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:49:11 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	100.000	103.888	-3.9	100	0.00
53	Mpcc	Chlorobenzene	100.000	95.544	4.5	100	0.00
54	T	1,1,1,2-Tetrachloroethane	100.000	100.497	-0.5	100	0.00
55	ccc	Ethylbenzene	100.000	99.503	0.5	100	0.00
56	T	m,p-Xylene	200.000	200.027	-0.0	100	0.00
57	T	o-Xylene	100.000	104.392	-4.4	100	0.00
58	T	Styrene	100.000	109.700	-9.7	100	0.00
59	pcc	Bromoform	100.000	117.661	-17.7	100	0.00
60	S	4-Bromofluorobenzene	50.000	51.774	-3.5	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	100.000	95.384	4.6	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	100.000	96.478	3.5	100	0.00
64	T	1,2,3-Trichloropropane	100.000	87.792	12.2	100	0.00
65	T	Isopropylbenzene	100.000	96.190	3.8	100	0.00
66	T	n-Propylbenzene	100.000	95.260	4.7	100	0.00
67	T	trans-1,4-Dichloro-2-butene	200.000	222.741	-11.4	100	0.00
68	T	2-Chlorotoluene	100.000	91.944	8.1	100	0.00
69	T	4-Chlorotoluene	100.000	97.644	2.4	100	0.00
70	T	1,3,5-Trimethylbenzene	100.000	100.021	-0.0	100	0.00
71	T	tert-Butylbenzene	100.000	106.508	-6.5	100	0.00
72	T	1,2,4-Trimethylbenzene	100.000	102.735	-2.7	100	0.00
73	T	sec-Butylbenzene	100.000	99.715	0.3	100	0.00
74	T	1,3-Dichlorobenzene	100.000	97.218	2.8	100	0.00
75	T	4-Isopropyltoluene	100.000	102.099	-2.1	100	0.00
76	T	1,4-Dichlorobenzene	100.000	97.322	2.7	100	0.00
77	T	1,2-Dichlorobenzene	100.000	100.145	-0.1	100	0.00
78	T	n-Butylbenzene	100.000	105.365	-5.4	100	0.00
79	T	1,2-Dibromo-3-chloropropane	100.000	110.048	-10.0	100	0.00
80	T	1,2,4-Trichlorobenzene	100.000	121.145	-21.1#	100	0.00
81	T	Hexachlorobutadiene	100.000	97.828	2.2	100	0.00
82	T	Naphthalene	100.000	102.606	-2.6	100	0.00
83	T	1,2,3-Trichlorobenzene	100.000	113.904	-13.9	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103504.D
Acq On : 12 Jan 2022 3:59 pm
Operator : ORM
Sample : ICAL 8260 150 W (150uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 12 17:50:29 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:49:11 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	-0.02
2	T	Dichlorodifluoromethane	150.000	136.591	8.9	102	0.00
3	pcc	Chloromethane	150.000	139.469	7.0	100	0.00
4	ccc	Vinyl chloride	150.000	143.042	4.6	100	0.00
5	T	Bromomethane	150.000	142.219	5.2	100	-0.01
6	T	Chloroethane	150.000	136.985	8.7	100	-0.02
7	T	Trichlorofluoromethane	150.000	143.625	4.3	100	-0.01
8	T	Acrolein	150.000	165.363	-10.2	100	0.00
9	Mccc	1,1-Dichloroethene	150.000	146.222	2.5	100	-0.02
10		Freon-113	150.000	134.371	10.4	100	-0.02
11	T	Acetone	300.000	272.976	9.0	100	-0.01
12	T	Iodomethane	300.000	291.890	2.7	100	-0.03
13	T	Carbon disulfide	300.000	294.847	1.7	100	-0.02
14		Methyl acetate	150.000	148.863	0.8	100	-0.01
15	T	Vinyl acetate	300.000	347.390	-15.8	100	-0.02
16	T	Methylene chloride	150.000	146.182	2.5	100	-0.02
17	T	Acrylonitrile	150.000	164.931	-10.0	100	-0.02
18		Methyl tert-butyl ether	150.000	154.465	-3.0	100	-0.01
19	T	trans-1,2-Dichloroethene	150.000	144.481	3.7	100	-0.01
20	pcc	1,1-Dichloroethane	150.000	147.139	1.9	100	-0.01
21	T	2,2-Dichloropropane	150.000	148.776	0.8	100	-0.02
22	T	cis-1,2-Dichloroethene	150.000	153.610	-2.4	100	-0.01
23	T	2-Butanone	300.000	320.532	-6.8	100	-0.02
24	T	Bromochloromethane	150.000	153.004	-2.0	100	0.00
25	ccc	Chloroform	150.000	146.291	2.5	100	-0.01
26		Cyclohexane	150.000	140.435	6.4	100	-0.01
27	T	1,1,1-Trichloroethane	150.000	144.896	3.4	100	-0.01
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	49.890	0.2	100	-0.02
30	T	1,1-Dichloropropene	150.000	143.619	4.3	100	0.00
31	T	Carbon tetrachloride	150.000	147.574	1.6	100	0.00
32	M	Benzene	150.000	147.974	1.4	100	-0.01
33	T	1,2-Dichloroethane	150.000	149.532	0.3	100	0.00
34	M	Trichloroethene	150.000	148.818	0.8	100	-0.01
35		Methylcyclohexane	150.000	144.743	3.5	100	0.00
36	ccc	1,2-Dichloropropane	150.000	145.372	3.1	100	0.00
37	T	Dibromomethane	150.000	152.805	-1.9	100	0.00
38		1,4-Dioxane	1500.000	1364.252	9.0	88	0.00
39	T	Bromodichloromethane	150.000	159.235	-6.2	100	0.00
40	T	2-Chloroethyl vinyl ether	300.000	342.029	-14.0	100	0.00
41	T	cis-1,3-Dichloropropene	150.000	165.763	-10.5	100	0.00
42	T	4-Methyl-2-pentanone	300.000	329.766	-9.9	100	0.00
43	S	Toluene-d8	50.000	50.338	-0.7	100	0.00
44	Mccc	Toluene	150.000	149.862	0.1	100	0.00
45	T	trans-1,3-Dichloropropene	150.000	171.081	-14.1	100	0.00
46	T	1,1,2-Trichloroethane	150.000	153.618	-2.4	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	300.000	343.959	-14.7	100	0.00
49	T	Tetrachloroethene	150.000	143.605	4.3	100	0.00
50	T	1,3-Dichloropropane	150.000	150.997	-0.7	100	0.00
51	T	Dibromochloromethane	150.000	166.659	-11.1	100	0.00

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103504.D
Acq On : 12 Jan 2022 3:59 pm
Operator : ORM
Sample : ICAL 8260 150 W (150uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 12 17:50:29 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:49:11 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	150.000	154.105	-2.7	100	0.00
53	Mpcc	Chlorobenzene	150.000	146.255	2.5	100	0.00
54	T	1,1,1,2-Tetrachloroethane	150.000	153.076	-2.1	100	0.00
55	ccc	Ethylbenzene	150.000	153.716	-2.5	100	0.00
56	T	m,p-Xylene	300.000	310.109	-3.4	100	0.00
57	T	o-Xylene	150.000	158.953	-6.0	100	0.00
58	T	Styrene	150.000	165.628	-10.4	100	0.00
59	pcc	Bromoform	150.000	178.528	-19.0	100	0.00
60	S	4-Bromofluorobenzene	50.000	51.979	-4.0	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	150.000	146.385	2.4	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	150.000	147.007	2.0	100	0.00
64	T	1,2,3-Trichloropropane	150.000	139.610	6.9	100	0.00
65	T	Isopropylbenzene	150.000	151.357	-0.9	100	0.00
66	T	n-Propylbenzene	150.000	149.002	0.7	100	0.00
67	T	trans-1,4-Dichloro-2-butene	300.000	337.638	-12.5	100	0.00
68	T	2-Chlorotoluene	150.000	142.891	4.7	100	0.00
69	T	4-Chlorotoluene	150.000	150.959	-0.6	100	0.00
70	T	1,3,5-Trimethylbenzene	150.000	155.533	-3.7	100	0.00
71	T	tert-Butylbenzene	150.000	165.116	-10.1	100	0.00
72	T	1,2,4-Trimethylbenzene	150.000	154.794	-3.2	100	0.00
73	T	sec-Butylbenzene	150.000	152.213	-1.5	100	0.00
74	T	1,3-Dichlorobenzene	150.000	143.764	4.2	100	0.00
75	T	4-Isopropyltoluene	150.000	154.912	-3.3	100	0.00
76	T	1,4-Dichlorobenzene	150.000	143.908	4.1	100	0.00
77	T	1,2-Dichlorobenzene	150.000	145.729	2.8	100	0.00
78	T	n-Butylbenzene	150.000	158.601	-5.7	100	0.00
79	T	1,2-Dibromo-3-chloropropane	150.000	155.236	-3.5	100	0.00
80	T	1,2,4-Trichlorobenzene	150.000	170.385	-13.6	100	0.00
81	T	Hexachlorobutadiene	150.000	146.397	2.4	100	0.00
82	T	Naphthalene	150.000	145.786	2.8	100	0.00
83	T	1,2,3-Trichlorobenzene	150.000	160.493	-7.0	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103507.D
Acq On : 12 Jan 2022 5:12 pm
Operator : ORM
Sample : ICAL 8260 200 W (200uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 12 17:51:46 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:49:11 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	-0.01
2	T	Dichlorodifluoromethane	200.000	199.046	0.5	99	0.00
3	pcc	Chloromethane	200.000	200.867	-0.4	100	0.00
4	ccc	Vinyl chloride	200.000	205.823	-2.9	100	0.00
5	T	Bromomethane	200.000	194.820	2.6	99	-0.02
6	T	Chloroethane	200.000	196.347	1.8	99	-0.02
7	T	Trichlorofluoromethane	200.000	209.280	-4.6	100	-0.01
8	T	Acrolein	200.000	218.328	-9.2	98	0.00
9	Mccc	1,1-Dichloroethene	200.000	209.423	-4.7	100	-0.02
10		Freon-113	200.000	192.684	3.7	99	-0.02
11	T	Acetone	400.000	346.842	13.3	98	-0.01
12	T	Iodomethane	400.000	406.992	-1.7	100	-0.03
13	T	Carbon disulfide	400.000	417.005	-4.3	100	-0.02
14		Methyl acetate	200.000	189.033	5.5	96	-0.01
15	T	Vinyl acetate	400.000	469.347	-17.3	99	-0.02
16	T	Methylene chloride	200.000	200.766	-0.4	99	-0.02
17	T	Acrylonitrile	200.000	211.752	-5.9	100	-0.02
18		Methyl tert-butyl ether	200.000	211.368	-5.7	99	-0.01
19	T	trans-1,2-Dichloroethene	200.000	203.939	-2.0	100	-0.01
20	pcc	1,1-Dichloroethane	200.000	204.957	-2.5	100	-0.02
21	T	2,2-Dichloropropane	200.000	206.813	-3.4	100	-0.02
22	T	cis-1,2-Dichloroethene	200.000	212.338	-6.2	100	-0.02
23	T	2-Butanone	400.000	421.335	-5.3	103	-0.03
24	T	Bromochloromethane	200.000	209.719	-4.9	100	-0.01
25	ccc	Chloroform	200.000	204.138	-2.1	100	-0.01
26		Cyclohexane	200.000	204.380	-2.2	100	-0.01
27	T	1,1,1-Trichloroethane	200.000	206.848	-3.4	101	-0.01
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	49.678	0.6	99	-0.02
30	T	1,1-Dichloropropene	200.000	199.627	0.2	100	0.00
31	T	Carbon tetrachloride	200.000	208.601	-4.3	100	0.00
32	M	Benzene	200.000	203.028	-1.5	100	-0.02
33	T	1,2-Dichloroethane	200.000	200.698	-0.3	100	0.00
34	M	Trichloroethene	200.000	204.267	-2.1	100	-0.01
35		Methylcyclohexane	200.000	204.816	-2.4	100	0.00
36	ccc	1,2-Dichloropropane	200.000	200.041	-0.0	100	0.00
37	T	Dibromomethane	200.000	207.254	-3.6	100	0.00
38		1,4-Dioxane	-1.000	1692.739	0.0	0	-0.02
39	T	Bromodichloromethane	200.000	218.058	-9.0	100	0.00
40	T	2-Chloroethyl vinyl ether	400.000	445.676	-11.4	100	0.00
41	T	cis-1,3-Dichloropropene	200.000	224.356	-12.2	100	0.00
42	T	4-Methyl-2-pentanone	400.000	437.619	-9.4	100	0.00
43	S	Toluene-d8	50.000	50.605	-1.2	100	0.00
44	Mccc	Toluene	200.000	205.252	-2.6	100	0.00
45	T	trans-1,3-Dichloropropene	200.000	232.271	-16.1	100	0.00
46	T	1,1,2-Trichloroethane	200.000	203.870	-1.9	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	400.000	439.421	-9.9	100	0.00
49	T	Tetrachloroethene	200.000	197.609	1.2	100	0.00
50	T	1,3-Dichloropropane	200.000	196.679	1.7	100	0.00
51	T	Dibromochloromethane	200.000	221.422	-10.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103507.D
Acq On : 12 Jan 2022 5:12 pm
Operator : ORM
Sample : ICAL 8260 200 W (200uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 12 17:51:46 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:49:11 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	200.000	204.883	-2.4	100	0.00
53	Mpcc	Chlorobenzene	200.000	197.027	1.5	100	0.00
54	T	1,1,1,2-Tetrachloroethane	200.000	208.327	-4.2	100	0.00
55	ccc	Ethylbenzene	200.000	210.139	-5.1	100	0.00
56	T	m,p-Xylene	400.000	417.846	-4.5	100	0.00
57	T	o-Xylene	200.000	215.719	-7.9	100	0.00
58	T	Styrene	200.000	220.440	-10.2	100	0.00
59	pcc	Bromoform	200.000	239.907	-20.0	100	0.00
60	S	4-Bromofluorobenzene	50.000	51.123	-2.2	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	200.000	194.641	2.7	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	200.000	192.379	3.8	100	0.00
64	T	1,2,3-Trichloropropane	200.000	183.279	8.4	100	0.00
65	T	Isopropylbenzene	200.000	206.473	-3.2	100	0.00
66	T	n-Propylbenzene	200.000	203.782	-1.9	100	0.00
67	T	trans-1,4-Dichloro-2-butene	400.000	433.747	-8.4	100	0.00
68	T	2-Chlorotoluene	200.000	191.188	4.4	100	0.00
69	T	4-Chlorotoluene	200.000	201.399	-0.7	100	0.00
70	T	1,3,5-Trimethylbenzene	200.000	210.879	-5.4	100	0.00
71	T	tert-Butylbenzene	200.000	197.024	1.5	87	0.00
72	T	1,2,4-Trimethylbenzene	200.000	212.399	-6.2	100	0.00
73	T	sec-Butylbenzene	200.000	210.421	-5.2	100	0.00
74	T	1,3-Dichlorobenzene	200.000	194.254	2.9	100	0.00
75	T	4-Isopropyltoluene	200.000	212.605	-6.3	100	0.00
76	T	1,4-Dichlorobenzene	200.000	194.309	2.8	100	0.00
77	T	1,2-Dichlorobenzene	200.000	195.416	2.3	100	0.00
78	T	n-Butylbenzene	200.000	218.793	-9.4	100	0.00
79	T	1,2-Dibromo-3-chloropropane	200.000	219.417	-9.7	100	0.00
80	T	1,2,4-Trichlorobenzene	200.000	238.414	-19.2	100	0.00
81	T	Hexachlorobutadiene	200.000	203.725	-1.9	100	0.00
82	T	Naphthalene	200.000	202.561	-1.3	100	0.00
83	T	1,2,3-Trichlorobenzene	200.000	221.397	-10.7	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103510.D
Acq On : 12 Jan 2022 6:25 pm
Operator : ORM
Sample : ICV 8260 20 W (20uL/50mL)
Misc : ICV 8260B_W
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 12 18:45:41 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	106	0.00
2	T	Dichlorodifluoromethane	20.000	19.661	1.7	109	0.00
3	pcc	Chloromethane	20.000	22.127	-10.6	121	0.00
4	ccc	Vinyl chloride	20.000	19.840	0.8	106	0.00
5	T	Bromomethane	20.000	14.318	28.4#	74	0.00
6	T	Chloroethane	20.000	19.306	3.5	106	0.00
7	T	Trichlorofluoromethane	20.000	19.267	3.7	104	0.00
8	T	Acrolein	20.000	17.982	10.1	95	0.00
9	Mccc	1,1-Dichloroethene	20.000	19.885	0.6	116	-0.01
10		Freon-113	20.000	18.229	8.9	107	0.00
11	T	Acetone	40.000	36.033	9.9	93	0.00
12	T	Iodomethane	40.000	37.287	6.8	108	-0.02
13	T	Carbon disulfide	40.000	37.586	6.0	108	0.00
14		Methyl acetate	20.000	18.384	8.1	98	0.00
15	T	Vinyl acetate	40.000	36.275	9.3	93	0.00
16	T	Methylene chloride	20.000	20.066	-0.3	106	0.00
17	T	Acrylonitrile	20.000	19.025	4.9	102	0.00
18		Methyl tert-butyl ether	20.000	18.824	5.9	103	0.00
19	T	trans-1,2-Dichloroethene	20.000	18.659	6.7	107	0.00
20	pcc	1,1-Dichloroethane	20.000	18.552	7.2	104	0.00
21	T	2,2-Dichloropropane	20.000	16.957	15.2	94	-0.01
22	T	cis-1,2-Dichloroethene	20.000	18.915	5.4	103	0.00
23	T	2-Butanone	40.000	32.681	18.3	85	0.00
24	T	Bromochloromethane	20.000	18.854	5.7	101	0.00
25	ccc	Chloroform	20.000	18.552	7.2	103	0.00
26		Cyclohexane	20.000	19.794	1.0	104	0.00
27	T	1,1,1-Trichloroethane	20.000	18.588	7.1	107	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	104	0.00
29	S	Dibromofluoromethane	50.000	50.639	-1.3	106	0.00
30	T	1,1-Dichloropropene	20.000	18.976	5.1	108	0.00
31	T	Carbon tetrachloride	20.000	18.653	6.7	107	0.00
32	M	Benzene	20.000	19.339	3.3	109	0.00
33	T	1,2-Dichloroethane	20.000	18.875	5.6	99	0.00
34	M	Trichloroethene	20.000	19.281	3.6	109	0.00
35		Methylcyclohexane	20.000	18.472	7.6	108	0.00
36	ccc	1,2-Dichloropropane	20.000	18.429	7.9	102	0.00
37	T	Dibromomethane	20.000	19.241	3.8	103	0.00
38		1,4-Dioxane	200.000	248.743	-24.4#	101	-0.01
39	T	Bromodichloromethane	20.000	18.543	7.3	103	0.00
40	T	2-Chloroethyl vinyl ether	40.000	37.231	6.9	97	0.00
41	T	cis-1,3-Dichloropropene	20.000	18.680	6.6	100	0.00
42	T	4-Methyl-2-pentanone	40.000	37.565	6.1	96	0.00
43	S	Toluene-d8	50.000	49.373	1.3	103	0.00
44	Mccc	Toluene	20.000	19.207	4.0	105	0.00
45	T	trans-1,3-Dichloropropene	20.000	18.455	7.7	97	0.00
46	T	1,1,2-Trichloroethane	20.000	18.831	5.8	99	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	104	0.00
48	T	2-Hexanone	40.000	40.455	-1.1	98	0.00
49	T	Tetrachloroethene	20.000	18.833	5.8	106	0.00
50	T	1,3-Dichloropropane	20.000	18.863	5.7	100	0.00
51	T	Dibromochloromethane	20.000	17.898	10.5	96	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103510.D
Acq On : 12 Jan 2022 6:25 pm
Operator : ORM
Sample : ICV 8260 20 W (20uL/50mL)
Misc : ICV 8260B_W
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 12 18:45:41 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	20.000	19.073	4.6	100	0.00
53	Mpcc	Chlorobenzene	20.000	18.640	6.8	104	0.00
54	T	1,1,1,2-Tetrachloroethane	20.000	18.342	8.3	100	0.00
55	ccc	Ethylbenzene	20.000	19.154	4.2	105	0.00
56	T	m,p-Xylene	40.000	38.311	4.2	104	0.00
57	T	o-Xylene	20.000	19.297	3.5	105	0.00
58	T	Styrene	20.000	19.781	1.1	103	0.00
59	pcc	Bromoform	20.000	18.321	8.4	96	0.00
60	S	4-Bromofluorobenzene	50.000	49.521	1.0	104	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	101	0.00
62	T	Bromobenzene	20.000	18.638	6.8	102	0.00
63	pcc	1,1,2,2-Tetrachloroethane	20.000	18.893	5.5	97	0.00
64	T	1,2,3-Trichloropropane	20.000	19.408	3.0	97	0.00
65	T	Isopropylbenzene	20.000	19.437	2.8	102	0.00
66	T	n-Propylbenzene	20.000	19.226	3.9	103	0.00
67	T	trans-1,4-Dichloro-2-butene	40.000	34.635	13.4	88	0.00
68	T	2-Chlorotoluene	20.000	18.643	6.8	103	0.00
69	T	4-Chlorotoluene	20.000	19.183	4.1	100	0.00
70	T	1,3,5-Trimethylbenzene	20.000	19.692	1.5	103	0.00
71	T	tert-Butylbenzene	20.000	18.892	5.5	110	0.00
72	T	1,2,4-Trimethylbenzene	20.000	19.548	2.3	102	0.00
73	T	sec-Butylbenzene	20.000	19.559	2.2	103	0.00
74	T	1,3-Dichlorobenzene	20.000	18.153	9.2	96	0.00
75	T	4-Isopropyltoluene	20.000	19.263	3.7	104	0.00
76	T	1,4-Dichlorobenzene	20.000	18.142	9.3	96	0.00
77	T	1,2-Dichlorobenzene	20.000	19.082	4.6	99	0.00
78	T	n-Butylbenzene	20.000	18.901	5.5	101	0.00
79	T	1,2-Dibromo-3-chloropropane	20.000	18.431	7.8	98	0.00
80	T	1,2,4-Trichlorobenzene	20.000	18.734	6.3	96	0.00
81	T	Hexachlorobutadiene	20.000	21.995	-10.0	121	0.00
82	T	Naphthalene	20.000	17.076	14.6	94	0.00
83	T	1,2,3-Trichlorobenzene	20.000	18.274	8.6	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103494.D
Acq On : 12 Jan 2022 11:53 am
Operator : ORM
Sample : ICAL 8260 001 W (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 12 17:40:50 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:39:31 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.576	168	333938	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	6.609	114	542605	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.299	117	506634	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	12.304	152	247907	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	5.449	113	197560	49.79	ug/L		0.00
Spiked Amount 50.000	Range 79 - 121		Recovery = 99.58%				
43) Toluene-d8	8.562	98	739381	49.75	ug/L		0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 99.50%				
60) 4-Bromofluorobenzene	11.395	95	297622	48.03	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 96.06%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.190	85	4438	1.06	ug/L		94
3) Chloromethane	1.332	50	3705	1.04	ug/L		84
4) Vinyl chloride	1.414	62	3351	1.04	ug/L		90
5) Bromomethane	1.669	94	2199	0.90	ug/L	#	70
6) Chloroethane	1.736	64	1939	1.04	ug/L		84
7) Trichlorofluoromethane	1.923	101	4995	0.96	ug/L		81
8) Acrolein	2.305	56	246	0.63	ug/L		93
9) 1,1-Dichloroethene	2.395	96	2052	1.01	ug/L	#	62
10) Freon-113	2.406	101	2819	1.16	µg/L	#	74
11) Acetone	2.459	58	618	2.86	ug/L		74
12) Iodomethane	2.533	142	8126	2.16	ug/L	#	87
13) Carbon disulfide	2.590	76	15620	2.18	ug/L		100
14) Methyl acetate	2.795	43	2236	1.01	µg/L		93
15) Vinyl acetate	3.858	43	8928	1.50	ug/L		96
16) Methylene chloride	2.881	84	7128	0.93	ug/L		94
17) Acrylonitrile	3.200	53	320	0.34	ug/L	#	65
18) Methyl tert-butyl ether	3.207	73	8110	1.01	µg/L		92
19) trans-1,2-Dichloroethene	3.188	96	2685	1.15	ug/L	#	62
20) 1,1-Dichloroethane	3.742	63	5328	1.02	ug/L	#	82
21) 2,2-Dichloropropane	4.637	77	3230	1.03	ug/L		100
22) cis-1,2-Dichloroethene	4.667	96	2546	1.02	ug/L	#	66
23) 2-Butanone	4.794	72	130	0.58	ug/L	#	1
24) Bromochloromethane	5.044	128	1072	0.91	ug/L		89
25) Chloroform	5.198	83	5428	1.03	ug/L		91
26) Cyclohexane	5.494	56	4291m	0.94	µg/L		
27) 1,1,1-Trichloroethane	5.434	97	4888	1.04	ug/L		97
30) 1,1-Dichloropropene	5.688	110	1349	1.18	ug/L		100
31) Carbon tetrachloride	5.669	119	4153	1.13	ug/L		87
32) Benzene	5.991	78	11029	1.08	ug/L		88
33) 1,2-Dichloroethane	6.044	62	4467	0.98	ug/L	#	84
34) Trichloroethene	6.931	130	2539	1.07	ug/L		82
35) Methylcyclohexane	7.163	55	3792	1.18	µg/L	#	72
36) 1,2-Dichloropropane	7.237	63	3485	1.21	ug/L	#	88
37) Dibromomethane	7.402	93	1719	1.07	ug/L	#	82
38) 1,4-Dioxane	0.000		0	N.D.			
39) Bromodichloromethane	7.642	83	3684	0.97	ug/L		83
40) 2-Chloroethyl vinyl ether	8.106	63	2238	1.50	µg/L	#	69
41) cis-1,3-Dichloropropene	8.240	75	3850	0.90	ug/L		90
42) 4-Methyl-2-pentanone	8.495	43	4612	1.74	ug/L	#	85
44) Toluene	8.648	92	6604	1.06	ug/L		96
45) trans-1,3-Dichloropropene	8.985	75	3436	0.89	ug/L	#	69
46) 1,1,2-Trichloroethane	9.206	83	1966	1.03	ug/L		87

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103494.D
Acq On : 12 Jan 2022 11:53 am
Operator : ORM
Sample : ICAL 8260 001 W (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 12 17:40:50 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:39:31 2022
Response via : Initial Calibration

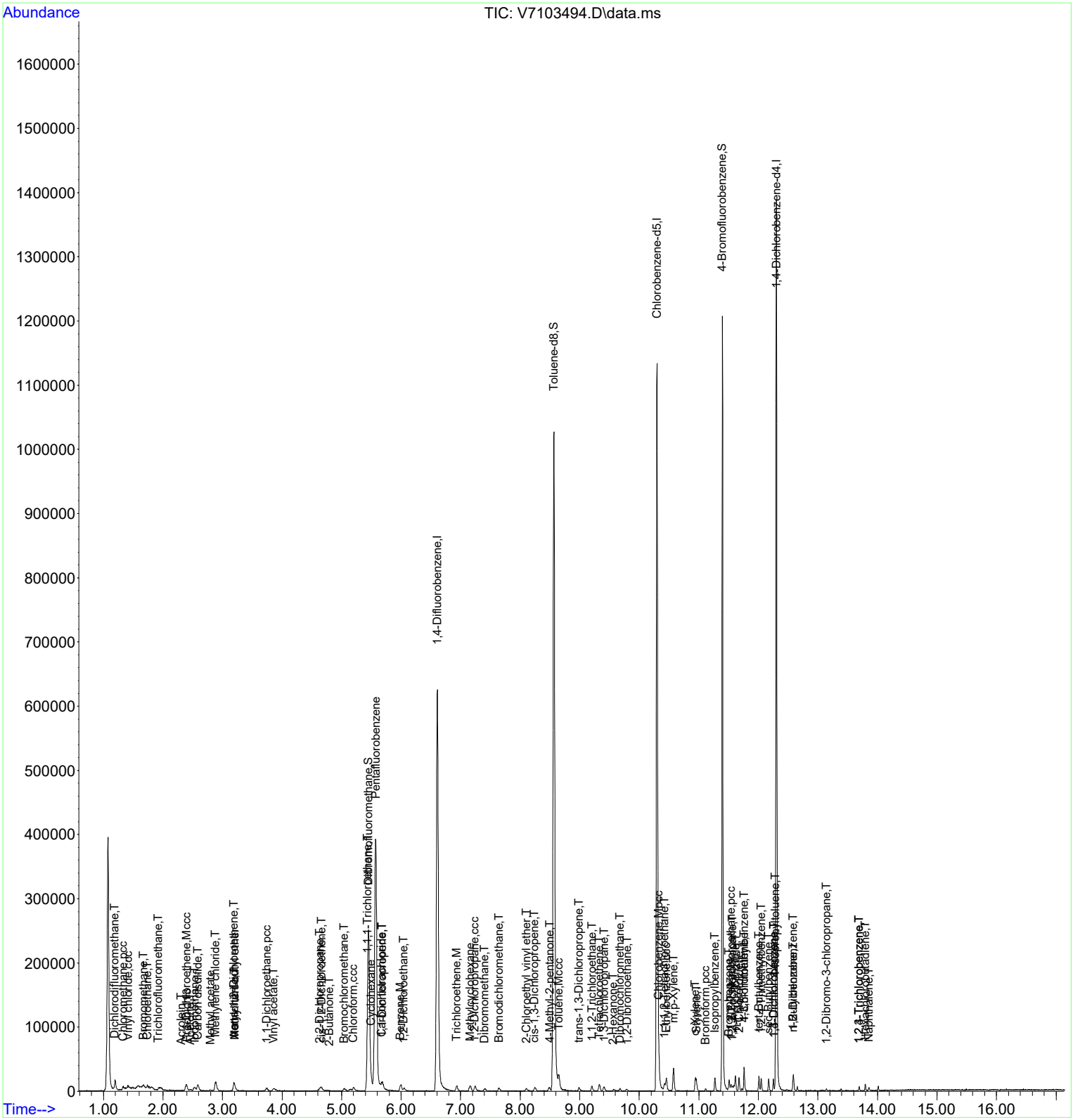
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) 2-Hexanone	9.565	43	2469	1.49 ug/L #	88
49) Tetrachloroethene	9.329	166	2774	1.06 ug/L	97
50) 1,3-Dichloropropane	9.412	76	4169	1.05 ug/L	94
51) Dibromochloromethane	9.677	129	1883	0.85 ug/L #	66
52) 1,2-Dibromoethane	9.793	107	2149	1.02 ug/L #	67
53) Chlorobenzene	10.329	112	7806	1.14 ug/L	96
54) 1,1,1,2-Tetrachloroethane	10.426	131	2649	1.06 ug/L	98
55) Ethylbenzene	10.456	91	12079	0.98 ug/L	96
56) m,p-Xylene	10.576	91	19266	1.96 ug/L	93
57) o-Xylene	10.935	91	9192m	0.92 ug/L	
58) Styrene	10.957	104	5550	0.82 ug/L	86
59) Bromoform	11.114	173	1129	0.80 ug/L #	76
62) Bromobenzene	11.507	156	2835	1.07 ug/L	81
63) 1,1,2,2-Tetrachloroethane	11.541	83	2843	1.04 ug/L #	94
64) 1,2,3-Trichloropropane	11.563	75	2936	1.26 ug/L #	79
65) Isopropylbenzene	11.272	105	10633	1.01 ug/L	91
66) n-Propylbenzene	11.616	91	13321	1.03 ug/L	89
67) trans-1,4-Dichloro-2-b...	0.000		0	N.D.	
68) 2-Chlorotoluene	11.676	91	9652	1.14 ug/L	88
69) 4-Chlorotoluene	11.762	91	9394	0.99 ug/L	96
70) 1,3,5-Trimethylbenzene	11.762	105	7608	0.92 ug/L	86
71) tert-Butylbenzene	12.009	119	6660	0.91 ug/L	87
72) 1,2,4-Trimethylbenzene	12.046	105	7729	0.91 ug/L	97
73) sec-Butylbenzene	12.173	105	8786	0.97 ug/L	88
74) 1,3-Dichlorobenzene	12.260	146	5090	1.12 ug/L	92
75) 4-Isopropyltoluene	12.286	119	7127	0.96 ug/L	90
76) 1,4-Dichlorobenzene	12.260	146	5090	1.12 ug/L	92
77) 1,2-Dichlorobenzene	12.589	146	4146	0.99 ug/L #	78
78) n-Butylbenzene	12.585	91	6162	0.96 ug/L #	81
79) 1,2-Dibromo-3-chloropr...	13.143	75	431	0.87 ug/L #	30
80) 1,2,4-Trichlorobenzene	13.685	180	1397	0.87 ug/L #	75
81) Hexachlorobutadiene	13.798	225	1757	1.18 ug/L #	61
82) Naphthalene	13.857	128	2919	1.12 ug/L	100
83) 1,2,3-Trichlorobenzene	13.685	180	1397	0.99 ug/L	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103494.D
Acq On : 12 Jan 2022 11:53 am
Operator : ORM
Sample : ICAL 8260 001 W (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 3 Sample Multiplier: 1

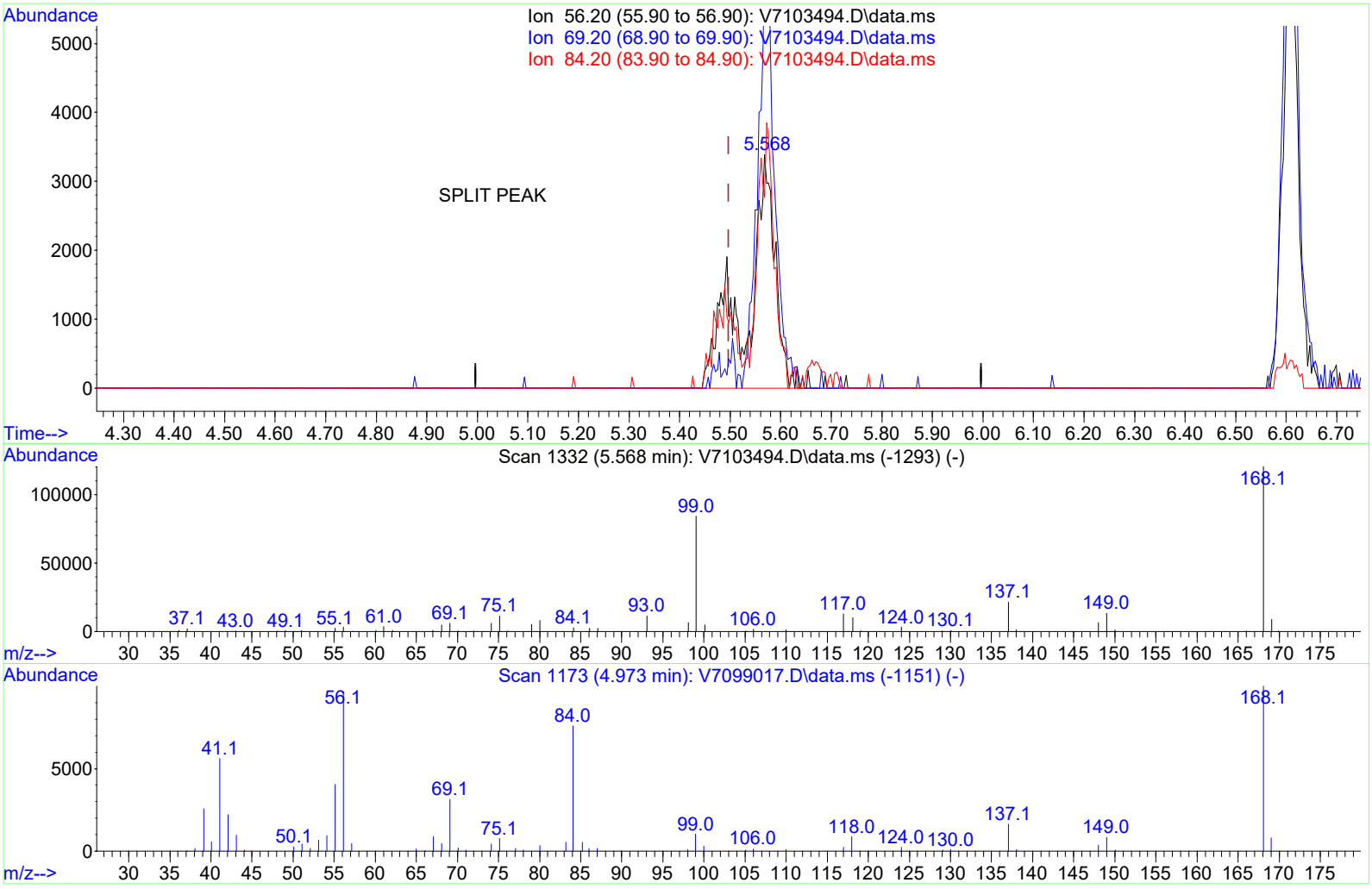
Quant Time: Jan 12 17:40:50 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:39:31 2022
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103494.D
Acq On : 12 Jan 2022 11:53 am
Operator : ORM
Sample : ICAL 8260 001 W (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 12 17:39:33 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:39:31 2022
Response via : Initial Calibration



TIC: V7103494.D\data.ms

(26) Cyclohexane

5.568min (+ 0.071) 2.86 µg/L

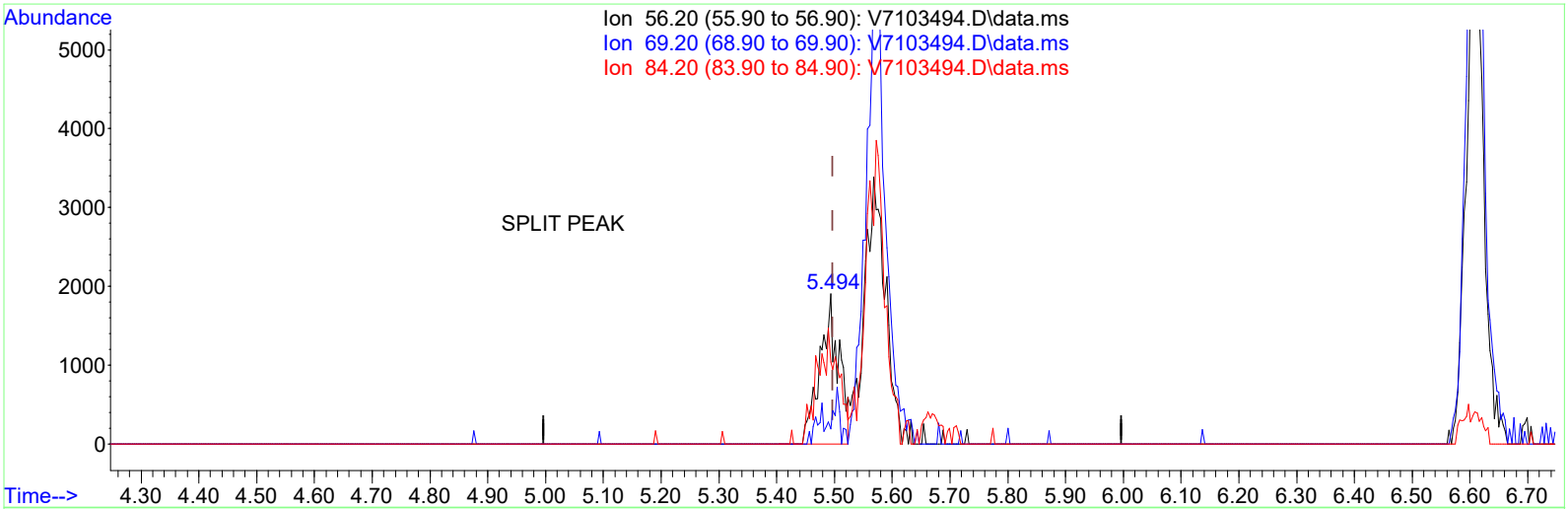
response 13113

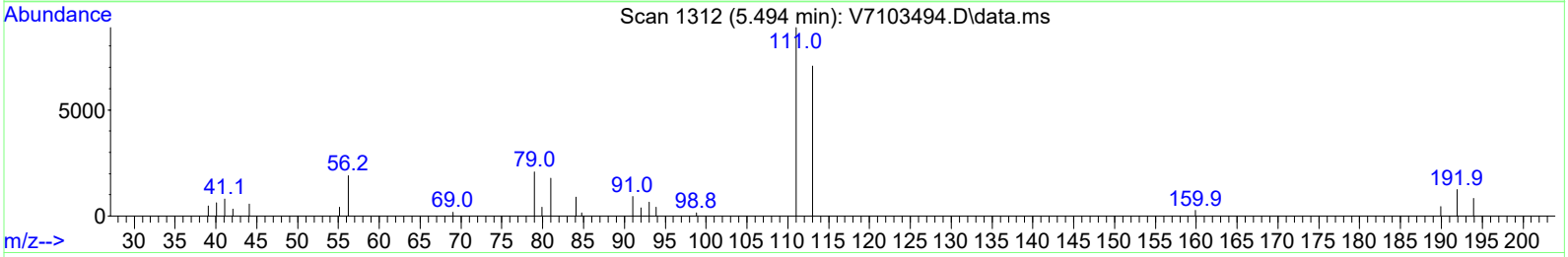
Ion	Exp%	Act%
56.20	100.00	100.00
69.20	30.00	180.79#
84.20	79.70	81.68
0.00	0.00	0.00

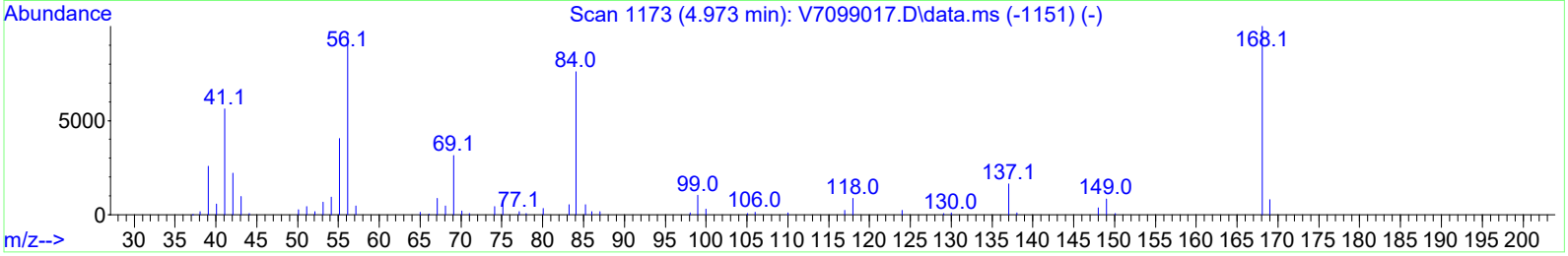
Quantitation Report (Qedit)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103494.D
Acq On : 12 Jan 2022 11:53 am
Operator : ORM
Sample : ICAL 8260 001 W (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 12 17:39:33 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:39:31 2022
Response via : Initial Calibration







TIC: V7103494.D\data.ms

(26) Cyclohexane

5.494min (-0.003) 0.94 µg/L m

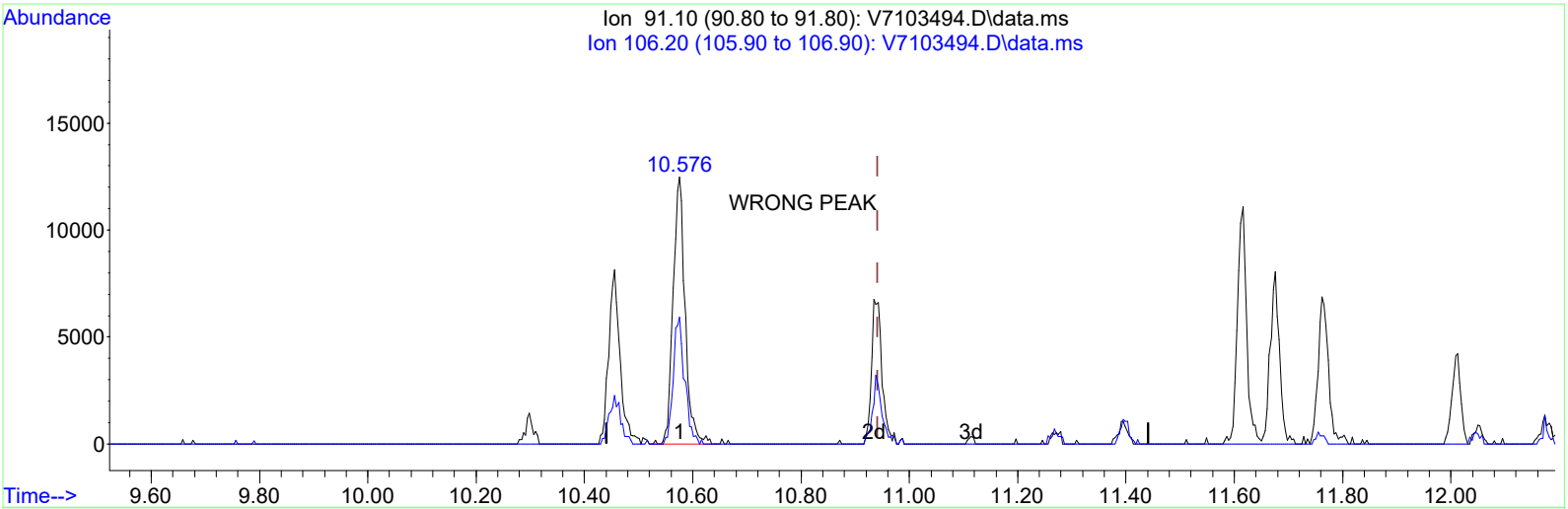
response 4291

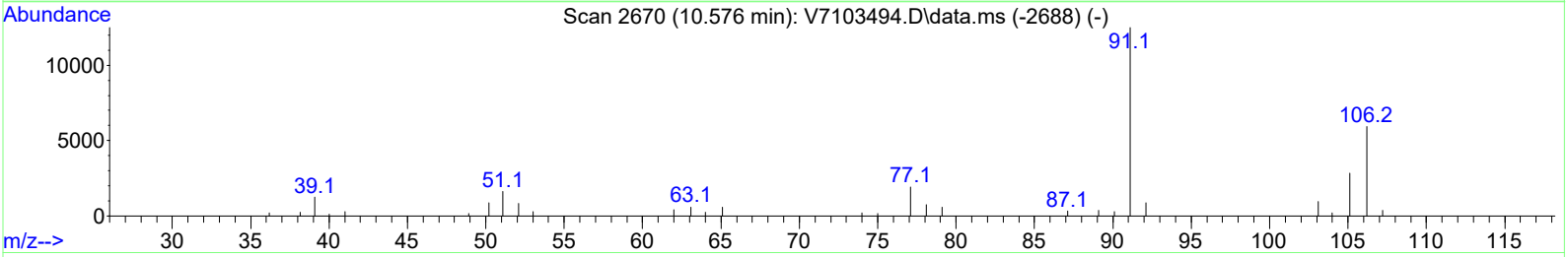
Ion	Exp%	Act%
56.20	100.00	100.00
69.20	30.00	10.02#
84.20	79.70	46.54#
0.00	0.00	0.00

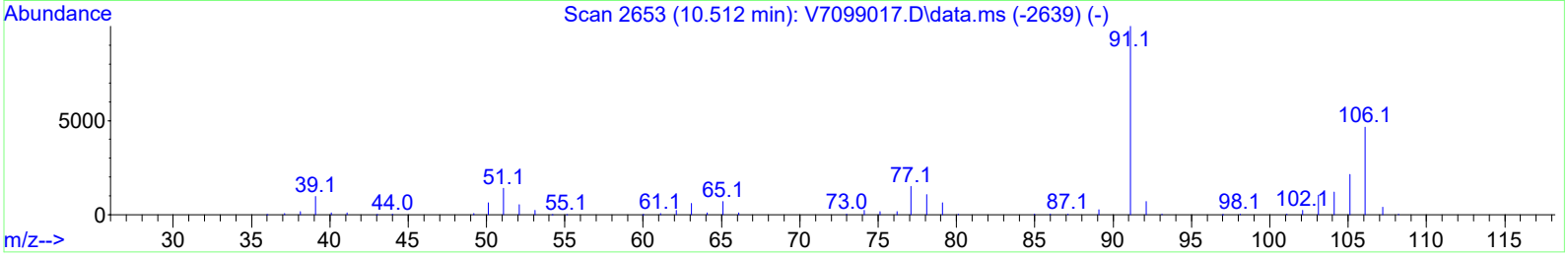
Quantitation Report (Qedit)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103494.D
Acq On : 12 Jan 2022 11:53 am
Operator : ORM
Sample : ICAL 8260 001 W (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 12 17:39:54 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:39:31 2022
Response via : Initial Calibration







TIC: V7103494.D\data.ms

(57) o-Xylene (T)

10.576min (-0.367) 1.94 ug/L

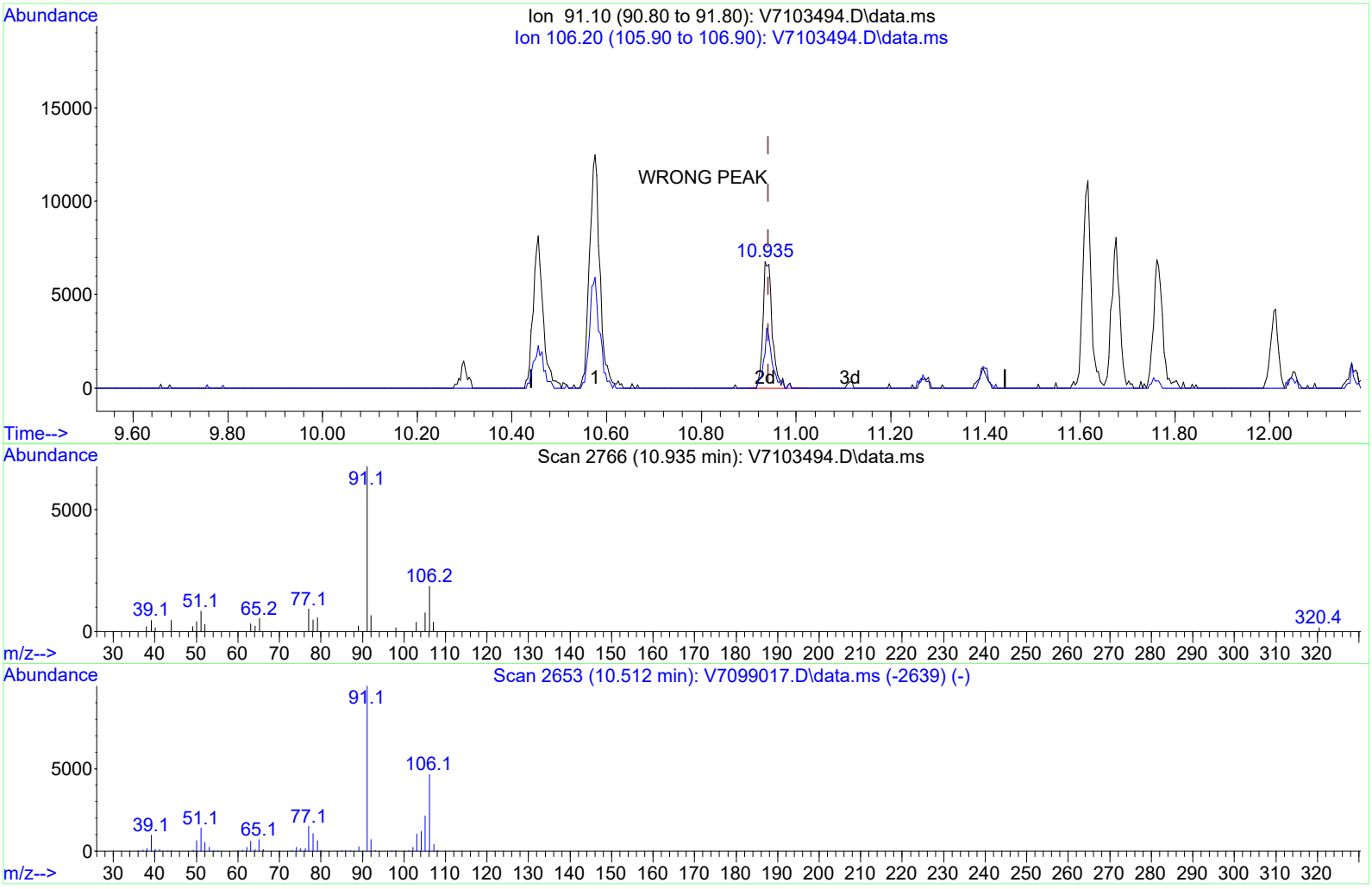
response 19266

Ion	Exp%	Act%
91.10	100.00	100.00
106.20	42.40	47.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103494.D
Acq On : 12 Jan 2022 11:53 am
Operator : ORM
Sample : ICAL 8260 001 W (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 12 17:39:54 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:39:31 2022
Response via : Initial Calibration



TIC: V7103494.D\data.ms

(57) o-Xylene (T)

10.935min (-0.007) 0.92 ug/L m

response 9192

Ion	Exp%	Act%
91.10	100.00	100.00
106.20	42.40	27.38#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103495.D
Acq On : 12 Jan 2022 12:17 pm
Operator : ORM
Sample : ICAL 8260 002 W (2uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 12 17:42:56 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:42:55 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.568	168	323120	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	6.605	114	534210	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.298	117	494187	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	12.304	152	242216	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	5.448	113	195561	50.13	ug/L		0.00
Spiked Amount 50.000	Range 79 - 121		Recovery = 100.26%				
43) Toluene-d8	8.566	98	719962	49.20	ug/L		0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 98.40%				
60) 4-Bromofluorobenzene	11.395	95	290078	47.98	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 95.96%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.194	85	7748	1.90	ug/L		97
3) Chloromethane	1.328	50	6485	1.88	ug/L		86
4) Vinyl chloride	1.414	62	5864	1.87	ug/L	#	75
5) Bromomethane	1.661	94	4641	2.04	ug/L	#	70
6) Chloroethane	1.744	64	3526	1.97	ug/L	#	81
7) Trichlorofluoromethane	1.938	101	8918	1.77	ug/L		92
8) Acrolein	2.297	56	469	1.24	ug/L		86
9) 1,1-Dichloroethene	2.387	96	3967	2.01	ug/L		98
10) Freon-113	2.398	101	4858	2.06	µg/L		94
11) Acetone	2.455	58	955	4.56	ug/L		92
12) Iodomethane	2.522	142	14099	3.87	ug/L		96
13) Carbon disulfide	2.586	76	26114	3.77	ug/L		100
14) Methyl acetate	2.788	43	3696	1.76	µg/L	#	91
15) Vinyl acetate	3.850	43	16043	2.82	ug/L	#	92
16) Methylene chloride	2.878	84	9032	1.76	ug/L		88
17) Acrylonitrile	3.196	53	1411	1.56	ug/L		97
18) Methyl tert-butyl ether	3.188	73	14078	1.81	µg/L	#	92
19) trans-1,2-Dichloroethene	3.177	96	4243	1.88	ug/L		77
20) 1,1-Dichloroethane	3.738	63	10081	1.99	ug/L		95
21) 2,2-Dichloropropane	4.625	77	6323	2.08	ug/L	#	85
22) cis-1,2-Dichloroethene	4.659	96	4092	1.68	ug/L		84
23) 2-Butanone	4.745	72	199	0.92	ug/L	#	1
24) Bromochloromethane	5.041	128	2106	1.85	ug/L	#	64
25) Chloroform	5.194	83	10137	1.99	ug/L		81
26) Cyclohexane	5.490	56	8052	1.81	µg/L	#	89
27) 1,1,1-Trichloroethane	5.430	97	9087	2.00	ug/L		91
30) 1,1-Dichloropropene	5.692	110	2140	1.90	ug/L		81
31) Carbon tetrachloride	5.654	119	7248	2.00	ug/L		90
32) Benzene	5.991	78	19010	1.90	ug/L		93
33) 1,2-Dichloroethane	6.051	62	8020	1.79	ug/L		95
34) Trichloroethene	6.927	130	4502	1.93	ug/L	#	84
35) Methylcyclohexane	7.159	55	5953	1.88	µg/L		93
36) 1,2-Dichloropropane	7.237	63	5318	1.87	ug/L	#	88
37) Dibromomethane	7.398	93	2703	1.70	ug/L	#	82
38) 1,4-Dioxane	0.000		0	N.D.			
39) Bromodichloromethane	7.649	83	6632	1.78	ug/L		94
40) 2-Chloroethyl vinyl ether	8.098	63	4559	3.10	µg/L		95
41) cis-1,3-Dichloropropene	8.240	75	6803	1.62	ug/L	#	89
42) 4-Methyl-2-pentanone	8.480	43	8622	3.32	ug/L	#	84
44) Toluene	8.648	92	11461	1.86	ug/L		88
45) trans-1,3-Dichloropropene	8.985	75	5709	1.50	ug/L	#	82
46) 1,1,2-Trichloroethane	9.202	83	3438	1.82	ug/L		99

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103495.D
Acq On : 12 Jan 2022 12:17 pm
Operator : ORM
Sample : ICAL 8260 002 W (2uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 12 17:42:56 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:42:55 2022
Response via : Initial Calibration

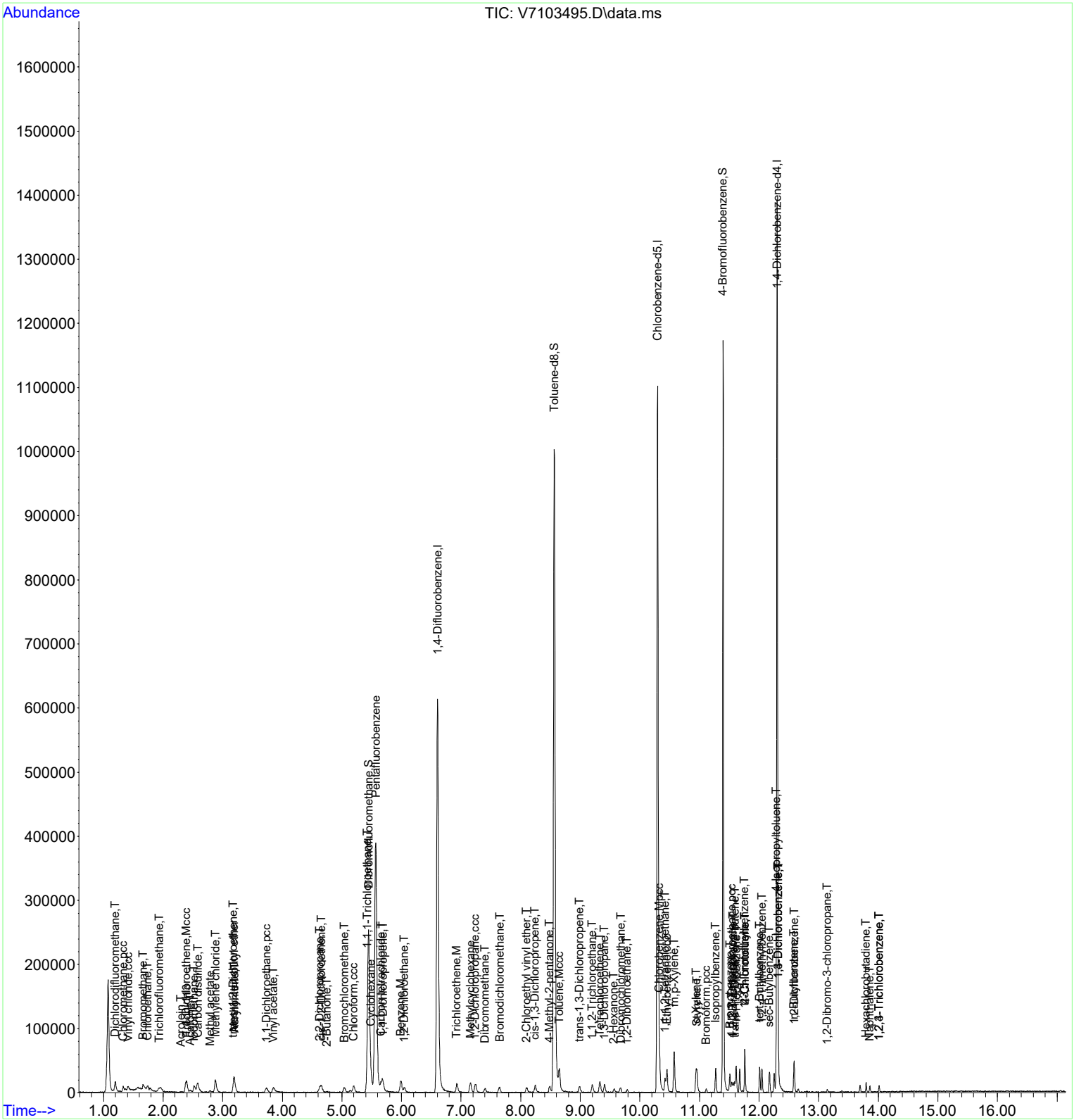
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) 2-Hexanone	9.565	43	4606	2.85 ug/L #	80
49) Tetrachloroethene	9.329	166	5152	2.02 ug/L	94
50) 1,3-Dichloropropane	9.400	76	7017	1.81 ug/L	99
51) Dibromochloromethane	9.681	129	3576	1.65 ug/L	99
52) 1,2-Dibromoethane	9.782	107	3305	1.61 ug/L #	98
53) Chlorobenzene	10.328	112	13064	1.95 ug/L	94
54) 1,1,1,2-Tetrachloroethane	10.422	131	4559	1.87 ug/L	89
55) Ethylbenzene	10.456	91	22138	1.84 ug/L	95
56) m,p-Xylene	10.575	91	34081	3.55 ug/L	91
57) o-Xylene	10.942	91	16615	1.71 ug/L	95
58) Styrene	10.957	104	10747	1.62 ug/L	100
59) Bromoform	11.110	173	2003	1.45 ug/L #	79
62) Bromobenzene	11.511	156	5483	2.12 ug/L	96
63) 1,1,2,2-Tetrachloroethane	11.541	83	5153	1.94 ug/L #	74
64) 1,2,3-Trichloropropane	11.563	75	3571	1.56 ug/L #	80
65) Isopropylbenzene	11.271	105	18273	1.78 ug/L	100
66) n-Propylbenzene	11.616	91	24063	1.90 ug/L	95
67) trans-1,4-Dichloro-2-b...	11.593	124	513	3.62 ug/L	92
68) 2-Chlorotoluene	11.762	91	17598	2.13 ug/L	85
69) 4-Chlorotoluene	11.762	91	17342	1.88 ug/L	96
70) 1,3,5-Trimethylbenzene	11.758	105	14387	1.78 ug/L	86
71) tert-Butylbenzene	12.009	119	11303	1.61 ug/L	96
72) 1,2,4-Trimethylbenzene	12.046	105	14185	1.72 ug/L	98
73) sec-Butylbenzene	12.173	105	15771	1.79 ug/L	100
74) 1,3-Dichlorobenzene	12.323	146	8781	1.98 ug/L	94
75) 4-Isopropyltoluene	12.289	119	12412	1.71 ug/L	93
76) 1,4-Dichlorobenzene	12.323	146	8781	1.98 ug/L	94
77) 1,2-Dichlorobenzene	12.596	146	7881	1.93 ug/L	93
78) n-Butylbenzene	12.585	91	10582	1.69 ug/L #	89
79) 1,2-Dibromo-3-chloropr...	13.142	75	903	1.87 ug/L #	68
80) 1,2,4-Trichlorobenzene	14.014	180	1982	1.77 ug/L	93
81) Hexachlorobutadiene	13.797	225	1881	1.61 ug/L #	66
82) Naphthalene	13.857	128	5212	1.97 ug/L	100
83) 1,2,3-Trichlorobenzene	14.014	180	1945	1.41 ug/L #	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103495.D
Acq On : 12 Jan 2022 12:17 pm
Operator : ORM
Sample : ICAL 8260 002 W (2uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 12 17:42:56 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:42:55 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103496.D
Acq On : 12 Jan 2022 12:42 pm
Operator : ORM
Sample : ICAL 8260 005 W (5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 12 17:44:10 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:43:42 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.572	168	333419	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	6.609	114	536102	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.299	117	496364	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	12.304	152	247161	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	5.452	113	192409	49.09	ug/L		0.00
Spiked Amount 50.000	Range 79 - 121		Recovery = 98.18%				
43) Toluene-d8	8.566	98	730082	49.72	ug/L		0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 99.44%				
60) 4-Bromofluorobenzene	11.395	95	298456	49.15	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 98.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.194	85	20330	4.84	ug/L		87
3) Chloromethane	1.336	50	18367	5.16	ug/L		93
4) Vinyl chloride	1.422	62	14908	4.61	ug/L		97
5) Bromomethane	1.673	94	10906	4.66	ug/L		81
6) Chloroethane	1.748	64	9407	5.08	ug/L		93
7) Trichlorofluoromethane	1.950	101	24462	4.71	ug/L	#	93
8) Acrolein	2.313	56	1824	4.65	ug/L		88
9) 1,1-Dichloroethene	2.380	96	10298	5.05	ug/L	#	85
10) Freon-113	2.414	101	13335	5.48	µg/L		89
11) Acetone	2.451	58	2147	9.93	ug/L		72
12) Iodomethane	2.522	142	38452	10.21	ug/L		99
13) Carbon disulfide	2.582	76	71120	9.94	ug/L		100
14) Methyl acetate	2.792	43	10497	4.90	µg/L		98
15) Vinyl acetate	3.858	43	52160	8.94	ug/L		96
16) Methylene chloride	2.885	84	18399	5.19	ug/L		90
17) Acrylonitrile	3.200	53	3868	4.15	ug/L	#	60
18) Methyl tert-butyl ether	3.200	73	38222	4.75	µg/L	#	88
19) trans-1,2-Dichloroethene	3.196	96	12163	5.21	ug/L		89
20) 1,1-Dichloroethane	3.742	63	26747	5.12	ug/L		98
21) 2,2-Dichloropropane	4.637	77	15520	4.94	ug/L		97
22) cis-1,2-Dichloroethene	4.666	96	12923	5.18	ug/L		85
23) 2-Butanone	4.768	72	1720	7.69	ug/L		68
24) Bromochloromethane	5.041	128	6085	5.18	ug/L		87
25) Chloroform	5.205	83	26563	5.05	ug/L		94
26) Cyclohexane	5.490	56	19524m	4.26	µg/L		
27) 1,1,1-Trichloroethane	5.434	97	24041	5.13	ug/L		93
30) 1,1-Dichloropropene	5.696	110	5552	4.92	ug/L		94
31) Carbon tetrachloride	5.673	119	17726	4.87	ug/L		83
32) Benzene	5.999	78	51381	5.12	ug/L		94
33) 1,2-Dichloroethane	6.051	62	23445	5.22	ug/L		99
34) Trichloroethene	6.934	130	11934	5.11	ug/L		92
35) Methylcyclohexane	7.163	55	15987	5.03	µg/L		95
36) 1,2-Dichloropropane	7.241	63	13813	4.85	ug/L	#	88
37) Dibromomethane	7.406	93	7936	5.01	ug/L		87
38) 1,4-Dioxane	0.000		0	N.D.			
39) Bromodichloromethane	7.645	83	18717	5.02	ug/L		95
40) 2-Chloroethyl vinyl ether	8.102	63	12426	8.43	µg/L		91
41) cis-1,3-Dichloropropene	8.244	75	19578	4.65	ug/L		97
42) 4-Methyl-2-pentanone	8.487	43	24319	9.30	ug/L	#	86
44) Toluene	8.652	92	31892	5.16	ug/L		90
45) trans-1,3-Dichloropropene	8.985	75	17277	4.55	ug/L	#	86
46) 1,1,2-Trichloroethane	9.202	83	10058	5.31	ug/L		95

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103496.D
Acq On : 12 Jan 2022 12:42 pm
Operator : ORM
Sample : ICAL 8260 005 W (5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 12 17:44:10 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:43:42 2022
Response via : Initial Calibration

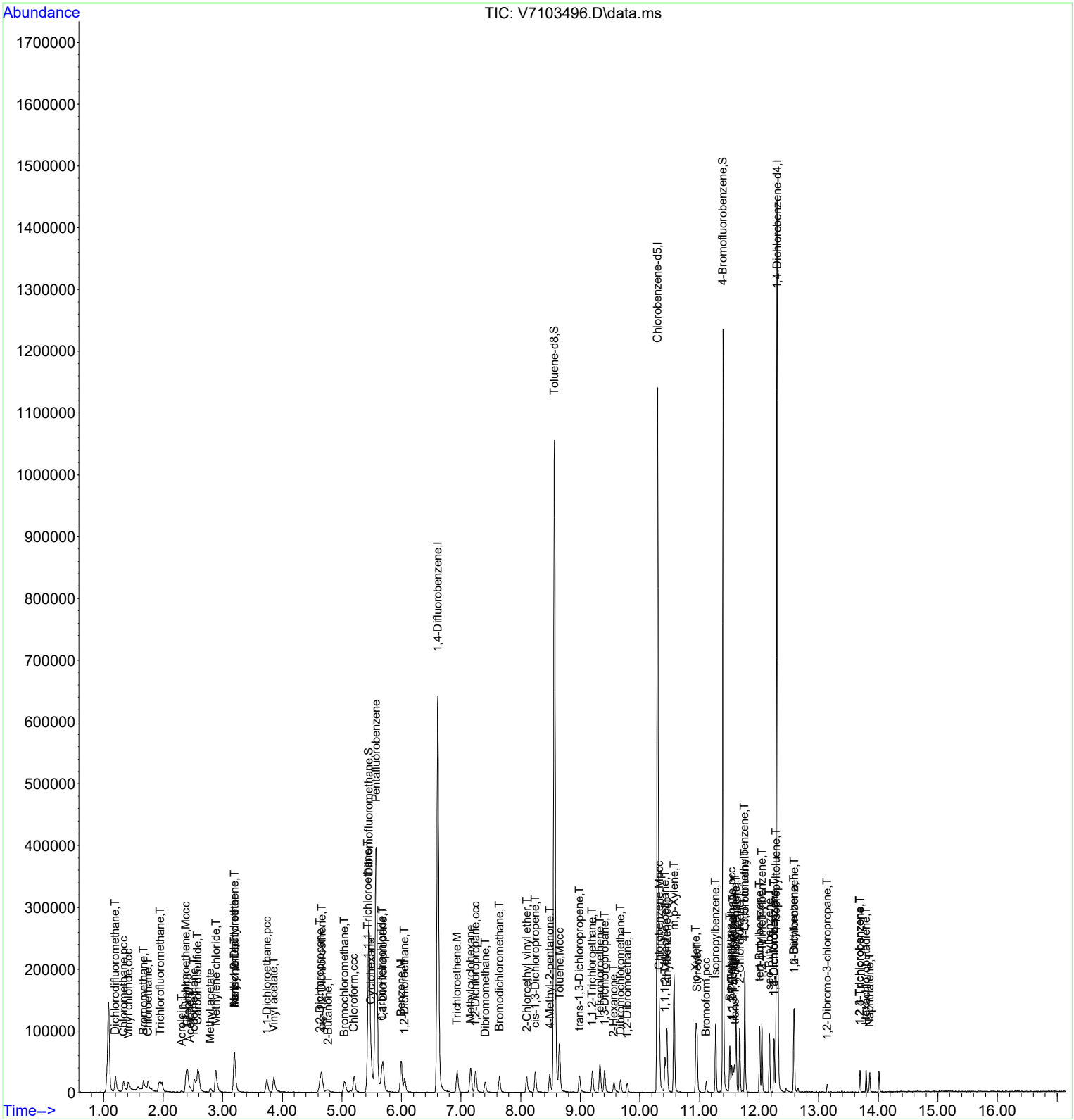
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Hexanone	9.565	43	13806	8.49	ug/L		98
49) Tetrachloroethene	9.329	166	13476	5.25	ug/L		94
50) 1,3-Dichloropropane	9.408	76	19999	5.15	ug/L		89
51) Dibromochloromethane	9.677	129	10621	4.87	ug/L		99
52) 1,2-Dibromoethane	9.790	107	10693	5.18	ug/L		94
53) Chlorobenzene	10.329	112	34966	5.19	ug/L		95
54) 1,1,1,2-Tetrachloroethane	10.422	131	12167	4.98	ug/L		90
55) Ethylbenzene	10.456	91	60642	5.03	ug/L		100
56) m,p-Xylene	10.572	91	97485	10.11	ug/L		95
57) o-Xylene	10.938	91	47963	4.95	ug/L		97
58) Styrene	10.961	104	31448	4.72	ug/L		100
59) Bromoform	11.114	173	6245	4.52	ug/L	#	87
62) Bromobenzene	11.511	156	13752	5.21	ug/L		79
63) 1,1,2,2-Tetrachloroethane	11.541	83	14187	5.23	ug/L		98
64) 1,2,3-Trichloropropane	11.563	75	12703	5.45	ug/L		94
65) Isopropylbenzene	11.272	105	54031	5.16	ug/L		89
66) n-Propylbenzene	11.612	91	66603	5.14	ug/L		98
67) trans-1,4-Dichloro-2-b...	11.593	124	1260	8.72	ug/L		79
68) 2-Chlorotoluene	11.676	91	43767	5.20	ug/L		97
69) 4-Chlorotoluene	11.766	91	49062	5.21	ug/L		97
70) 1,3,5-Trimethylbenzene	11.758	105	41950	5.08	ug/L		95
71) tert-Butylbenzene	12.009	119	32093	4.48	ug/L		96
72) 1,2,4-Trimethylbenzene	12.046	105	42703	5.07	ug/L		98
73) sec-Butylbenzene	12.173	105	45012	5.00	ug/L		99
74) 1,3-Dichlorobenzene	12.256	146	23196	5.12	ug/L		92
75) 4-Isopropyltoluene	12.286	119	37365	5.03	ug/L		98
76) 1,4-Dichlorobenzene	12.256	146	23196	5.12	ug/L		92
77) 1,2-Dichlorobenzene	12.593	146	22057	5.29	ug/L		92
78) n-Butylbenzene	12.585	91	30436	4.77	ug/L		96
79) 1,2-Dibromo-3-chloropr...	13.146	75	2349	4.77	ug/L	#	74
80) 1,2,4-Trichlorobenzene	13.693	180	7207	4.49	ug/L		89
81) Hexachlorobutadiene	13.798	225	4489	5.57	ug/L		88
82) Naphthalene	13.857	128	15786	5.45	ug/L		100
83) 1,2,3-Trichlorobenzene	13.693	180	7208	5.11	ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103496.D
Acq On : 12 Jan 2022 12:42 pm
Operator : ORM
Sample : ICAL 8260 005 W (5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 5 Sample Multiplier: 1

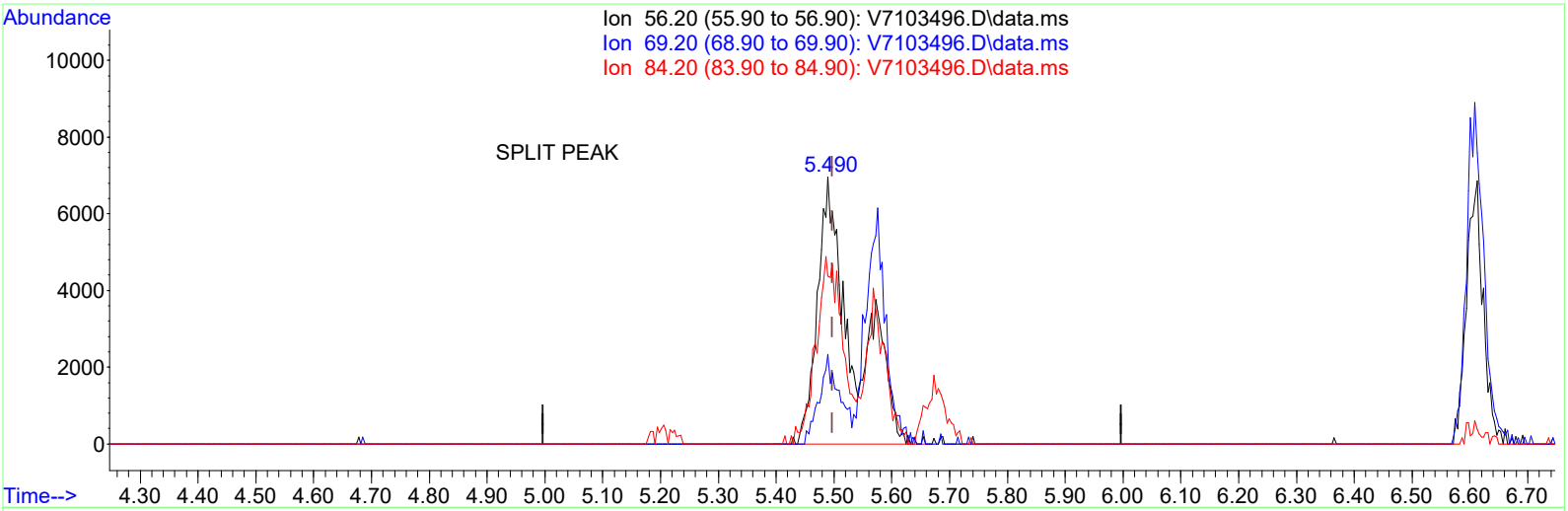
Quant Time: Jan 12 17:44:10 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:43:42 2022
Response via : Initial Calibration

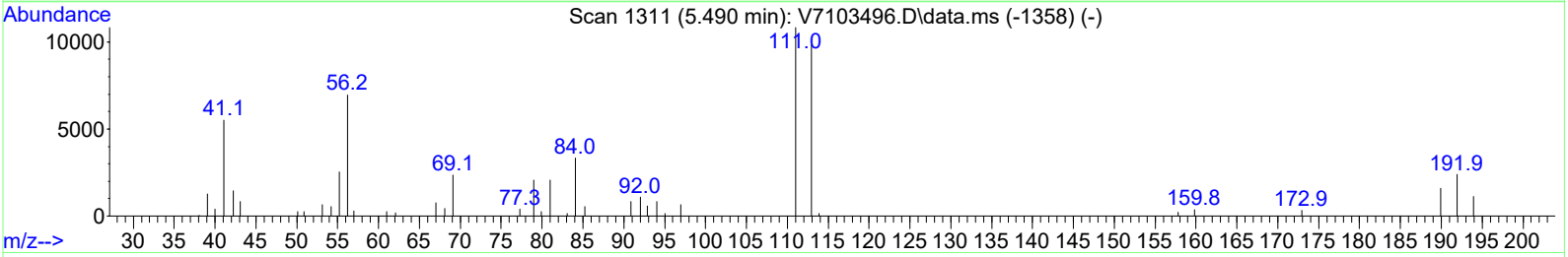


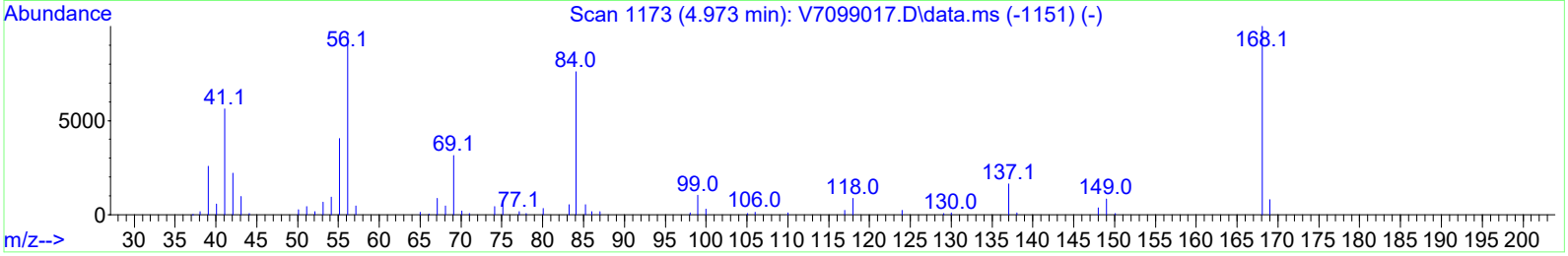
Quantitation Report (Qedit)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103496.D
Acq On : 12 Jan 2022 12:42 pm
Operator : ORM
Sample : ICAL 8260 005 W (5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 12 17:43:44 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:43:42 2022
Response via : Initial Calibration







TIC: V7103496.D\data.ms

(26) Cyclohexane

5.490min (-0.007) 6.50 µg/L

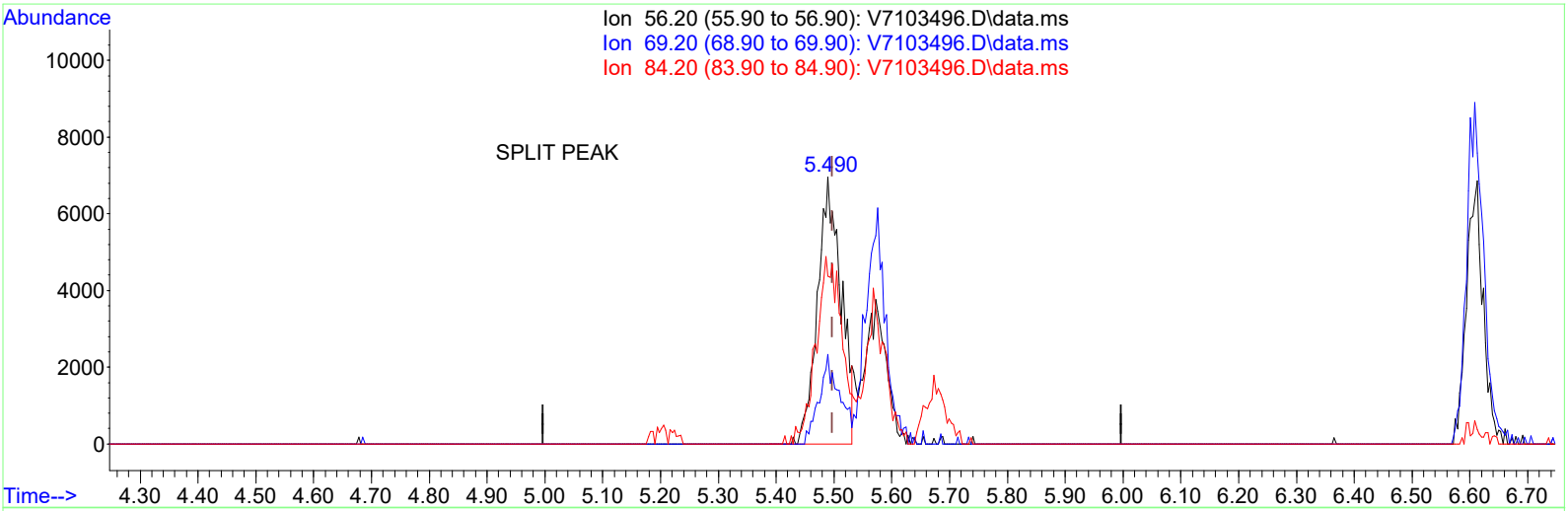
response 29817

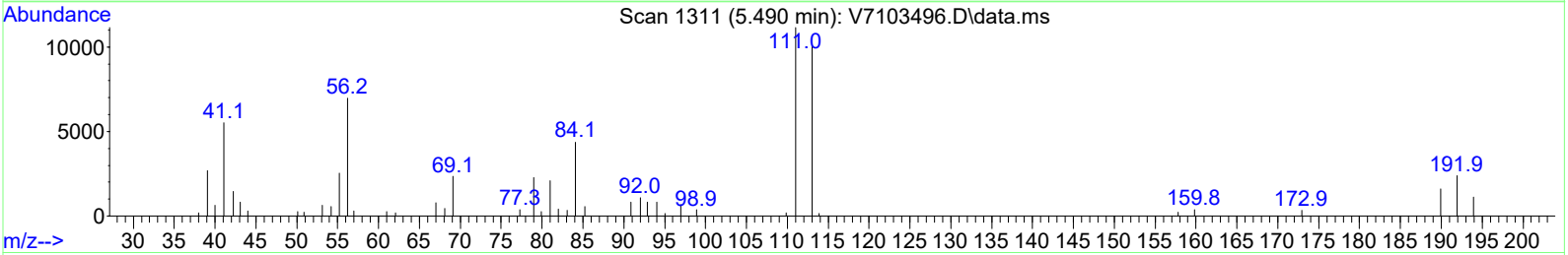
Ion	Exp%	Act%
56.20	100.00	100.00
69.20	30.00	33.56
84.20	79.70	62.83#
0.00	0.00	0.00

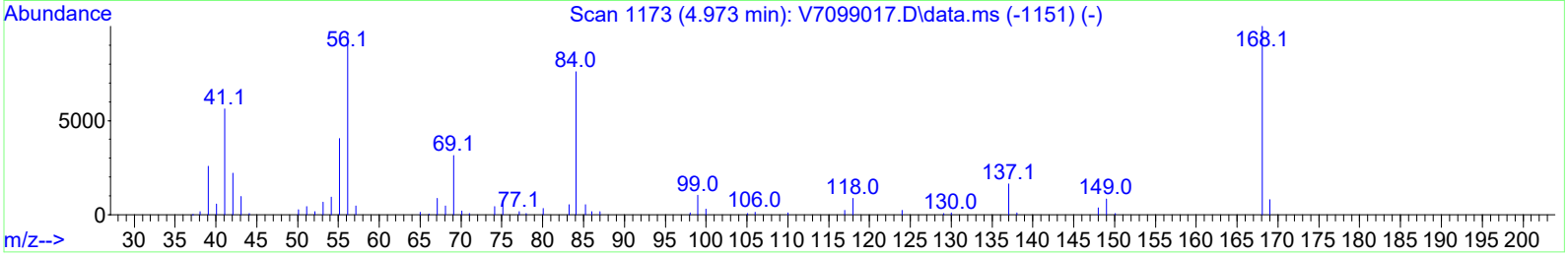
Quantitation Report (Qedit)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103496.D
Acq On : 12 Jan 2022 12:42 pm
Operator : ORM
Sample : ICAL 8260 005 W (5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 12 17:43:44 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:43:42 2022
Response via : Initial Calibration







TIC: V7103496.D\data.ms

(26) Cyclohexane

5.490min (-0.007) 4.26 µg/L m

response 19524

Ion	Exp%	Act%
56.20	100.00	100.00
69.20	30.00	33.56
84.20	79.70	62.83#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103497.D
Acq On : 12 Jan 2022 1:06 pm
Operator : ORM
Sample : ICAL 8260 010 W (10uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 12 17:47:09 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:46:32 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.565	168	328335	50.00	ug/L		-0.01
28) 1,4-Difluorobenzene	6.605	114	535614	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.299	117	501277	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	12.301	152	255693	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	5.449	113	196684	50.20	ug/L		0.00
Spiked Amount 50.000	Range 79 - 121		Recovery = 100.40%				
43) Toluene-d8	8.562	98	733648	49.99	ug/L		0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 99.98%				
60) 4-Bromofluorobenzene	11.395	95	299692	48.86	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 97.72%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.186	85	47574	11.51	ug/L		98
3) Chloromethane	1.328	50	39499	11.26	ug/L		84
4) Vinyl chloride	1.411	62	36958	11.60	ug/L		95
5) Bromomethane	1.665	94	26174	11.51	ug/L		94
6) Chloroethane	1.733	64	20982	11.51	ug/L		98
7) Trichlorofluoromethane	1.942	101	61285	11.95	ug/L		100
8) Acrolein	2.301	56	3965	10.27	ug/L		98
9) 1,1-Dichloroethene	2.384	96	21012	10.46	ug/L		87
10) Freon-113	2.402	101	25026	10.44	µg/L		89
11) Acetone	2.451	58	4607	21.68	ug/L		71
12) Iodomethane	2.526	142	76781	20.68	ug/L		99
13) Carbon disulfide	2.586	76	145185	20.61	ug/L		100
14) Methyl acetate	2.792	43	22032	10.58	µg/L	#	88
15) Vinyl acetate	3.851	43	107619	18.76	ug/L		99
16) Methylene chloride	2.878	84	31038	10.18	ug/L		84
17) Acrylonitrile	3.188	53	9295	10.16	ug/L		92
18) Methyl tert-butyl ether	3.196	73	80457	10.15	µg/L	#	93
19) trans-1,2-Dichloroethene	3.188	96	22830	9.92	ug/L		96
20) 1,1-Dichloroethane	3.735	63	53068	10.30	ug/L		98
21) 2,2-Dichloropropane	4.633	77	33691	10.88	ug/L	#	86
22) cis-1,2-Dichloroethene	4.659	96	24852	10.09	ug/L		95
23) 2-Butanone	4.741	72	3918	18.13	ug/L		95
24) Bromochloromethane	5.041	128	11764	10.15	ug/L	#	53
25) Chloroform	5.198	83	53694	10.36	ug/L		99
26) Cyclohexane	5.486	56	53339	12.41	µg/L		91
27) 1,1,1-Trichloroethane	5.434	97	48912	10.59	ug/L		91
30) 1,1-Dichloropropene	5.688	110	12015	10.66	ug/L		77
31) Carbon tetrachloride	5.669	119	36565	10.06	ug/L		94
32) Benzene	5.991	78	104452	10.42	ug/L		98
33) 1,2-Dichloroethane	6.047	62	46911	10.44	ug/L	#	95
34) Trichloroethene	6.927	130	24294	10.41	ug/L		89
35) Methylcyclohexane	7.163	55	32856	10.34	µg/L		93
36) 1,2-Dichloropropane	7.237	63	28600	10.06	ug/L		96
37) Dibromomethane	7.398	93	15650	9.88	ug/L		83
38) 1,4-Dioxane	7.481	88	509m	77.40	µg/L		
39) Bromodichloromethane	7.642	83	36285	9.74	ug/L		94
40) 2-Chloroethyl vinyl ether	8.094	63	26723	18.19	µg/L		94
41) cis-1,3-Dichloropropene	8.240	75	41862	9.96	ug/L		98
42) 4-Methyl-2-pentanone	8.480	43	49614	19.00	ug/L		89
44) Toluene	8.644	92	62493	10.11	ug/L		100
45) trans-1,3-Dichloropropene	8.977	75	37084	9.78	ug/L		95
46) 1,1,2-Trichloroethane	9.202	83	18500	9.77	ug/L	#	85

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103497.D
Acq On : 12 Jan 2022 1:06 pm
Operator : ORM
Sample : ICAL 8260 010 W (10uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 12 17:47:09 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:46:32 2022
Response via : Initial Calibration

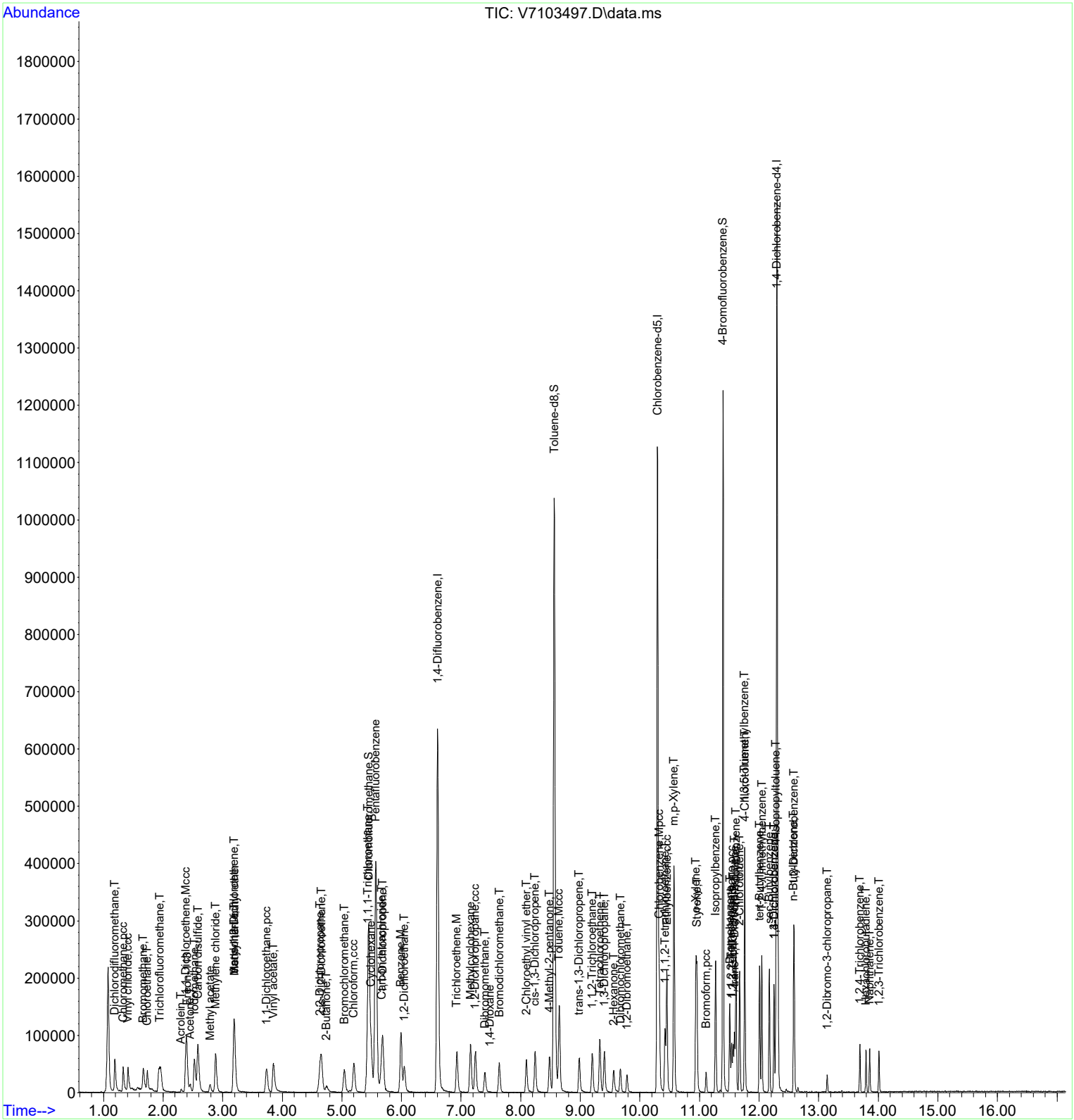
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) 2-Hexanone	9.565	43	31845	19.57 ug/L #	91
49) Tetrachloroethene	9.329	166	27566	10.64 ug/L #	84
50) 1,3-Dichloropropane	9.404	76	39997	10.20 ug/L	96
51) Dibromochloromethane	9.674	129	21525	9.77 ug/L	89
52) 1,2-Dibromoethane	9.778	107	20985	10.07 ug/L	96
53) Chlorobenzene	10.325	112	69096	10.15 ug/L	97
54) 1,1,1,2-Tetrachloroethane	10.422	131	23950	9.71 ug/L	97
55) Ethylbenzene	10.452	91	124706	10.23 ug/L	99
56) m,p-Xylene	10.568	91	199700	20.52 ug/L	99
57) o-Xylene	10.938	91	99430	10.16 ug/L	98
58) Styrene	10.957	104	68130	10.14 ug/L	98
59) Bromoform	11.114	173	12408	8.88 ug/L	86
62) Bromobenzene	11.511	156	27656	10.14 ug/L	97
63) 1,1,2,2-Tetrachloroethane	11.537	83	30085	10.73 ug/L #	89
64) 1,2,3-Trichloropropane	11.563	75	26708m	11.07 ug/L	
65) Isopropylbenzene	11.272	105	114403	10.55 ug/L	94
66) n-Propylbenzene	11.612	91	143443	10.70 ug/L	95
67) trans-1,4-Dichloro-2-b...	11.586	124	2564	17.16 ug/L	89
68) 2-Chlorotoluene	11.672	91	91281	10.48 ug/L	94
69) 4-Chlorotoluene	11.762	91	102412	10.55 ug/L	96
70) 1,3,5-Trimethylbenzene	11.758	105	91701	10.72 ug/L	99
71) tert-Butylbenzene	12.009	119	68649	9.40 ug/L	95
72) 1,2,4-Trimethylbenzene	12.046	105	92700	10.63 ug/L	96
73) sec-Butylbenzene	12.173	105	98416	10.57 ug/L	99
74) 1,3-Dichlorobenzene	12.252	146	47842	10.21 ug/L	95
75) 4-Isopropyltoluene	12.286	119	81574	10.61 ug/L	94
76) 1,4-Dichlorobenzene	12.252	146	48082	10.26 ug/L	95
77) 1,2-Dichlorobenzene	12.589	146	45189	10.47 ug/L	94
78) n-Butylbenzene	12.581	91	65914	9.99 ug/L	93
79) 1,2-Dibromo-3-chloropr...	13.143	75	5160	10.12 ug/L	86
80) 1,2,4-Trichlorobenzene	13.693	180	16081	9.69 ug/L	95
81) Hexachlorobutadiene	13.794	225	9183	10.61 ug/L	88
82) Naphthalene	13.857	128	37176	9.58 ug/L	100
83) 1,2,3-Trichlorobenzene	14.011	180	13301	9.12 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103497.D
Acq On : 12 Jan 2022 1:06 pm
Operator : ORM
Sample : ICAL 8260 010 W (10uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 6 Sample Multiplier: 1

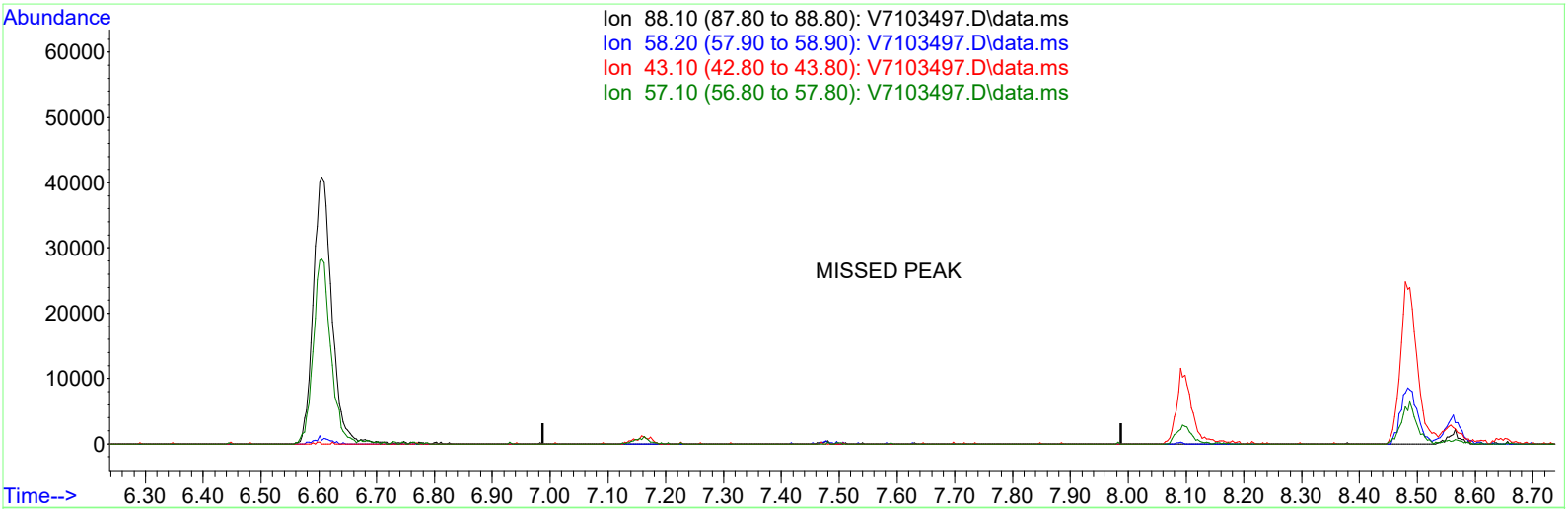
Quant Time: Jan 12 17:47:09 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:46:32 2022
Response via : Initial Calibration

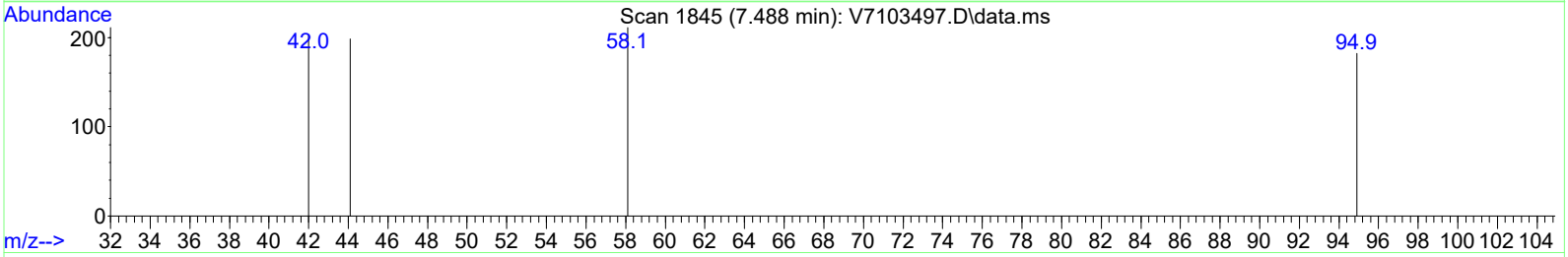


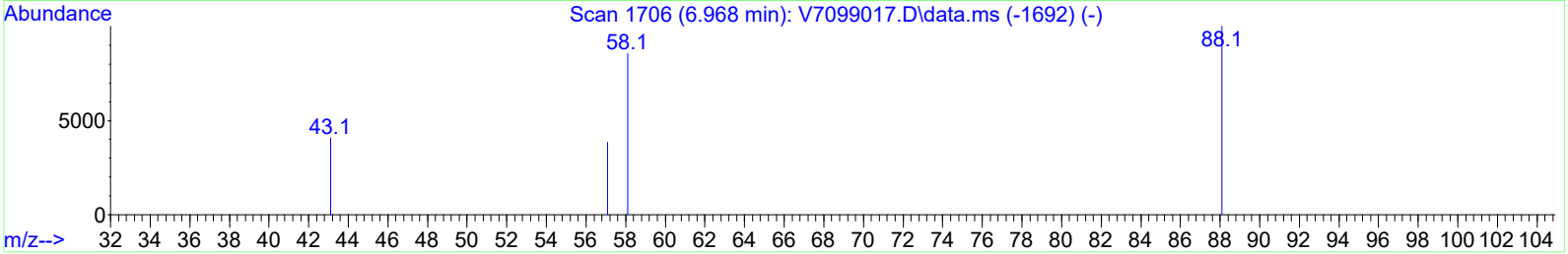
Quantitation Report (Qedit)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103497.D
Acq On : 12 Jan 2022 1:06 pm
Operator : ORM
Sample : ICAL 8260 010 W (10uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 12 17:44:40 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:43:42 2022
Response via : Initial Calibration







TIC: V7103497.D\data.ms

(38) 1,4-Dioxane

7.488min (-7.488) 0.00 µg/L

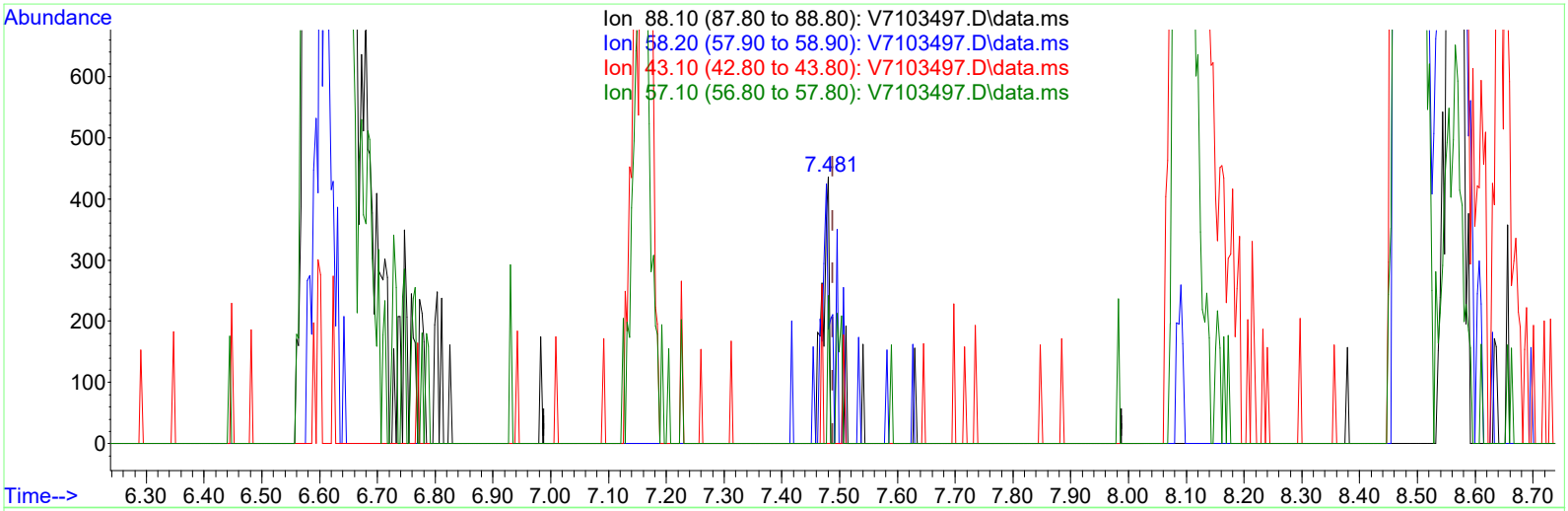
response 0

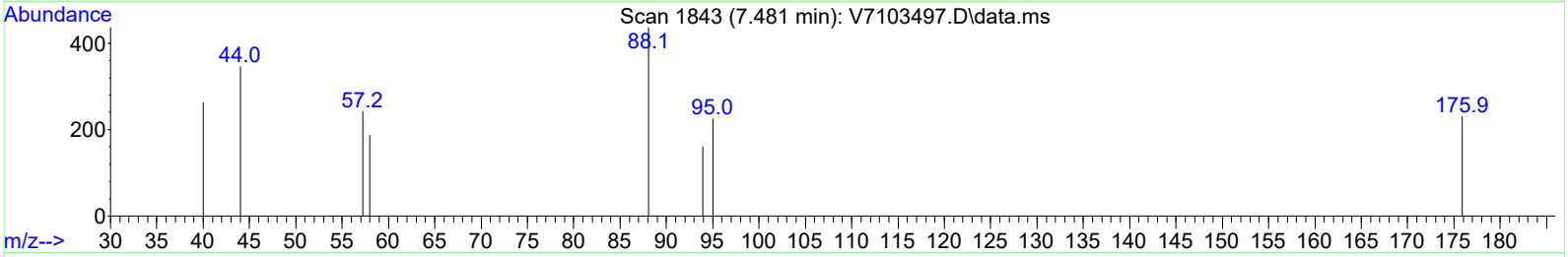
Ion	Exp%	Act%
88.10	100.00	0.00
58.20	70.10	0.00#
43.10	39.10	0.00#
57.10	16.90	0.00#

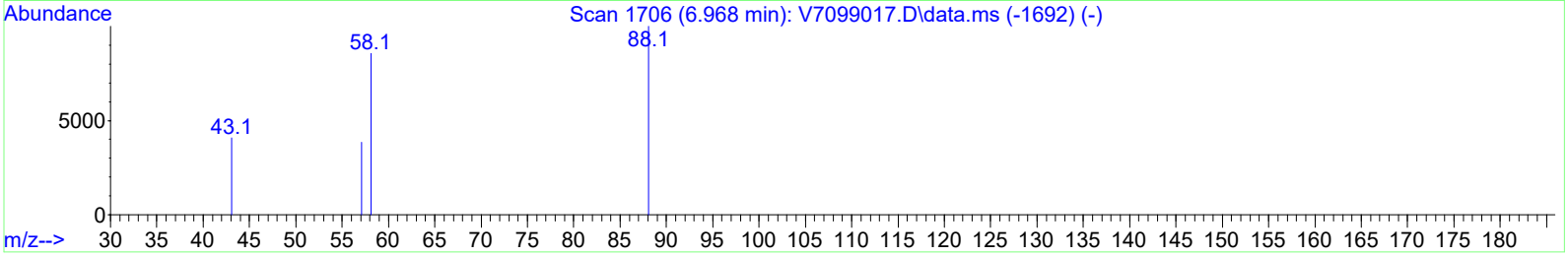
Quantitation Report (Qedit)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103497.D
Acq On : 12 Jan 2022 1:06 pm
Operator : ORM
Sample : ICAL 8260 010 W (10uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 12 17:46:33 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:46:32 2022
Response via : Initial Calibration







TIC: V7103497.D\data.ms

(38) 1,4-Dioxane

7.481min (-0.007) 77.40 µg/L m

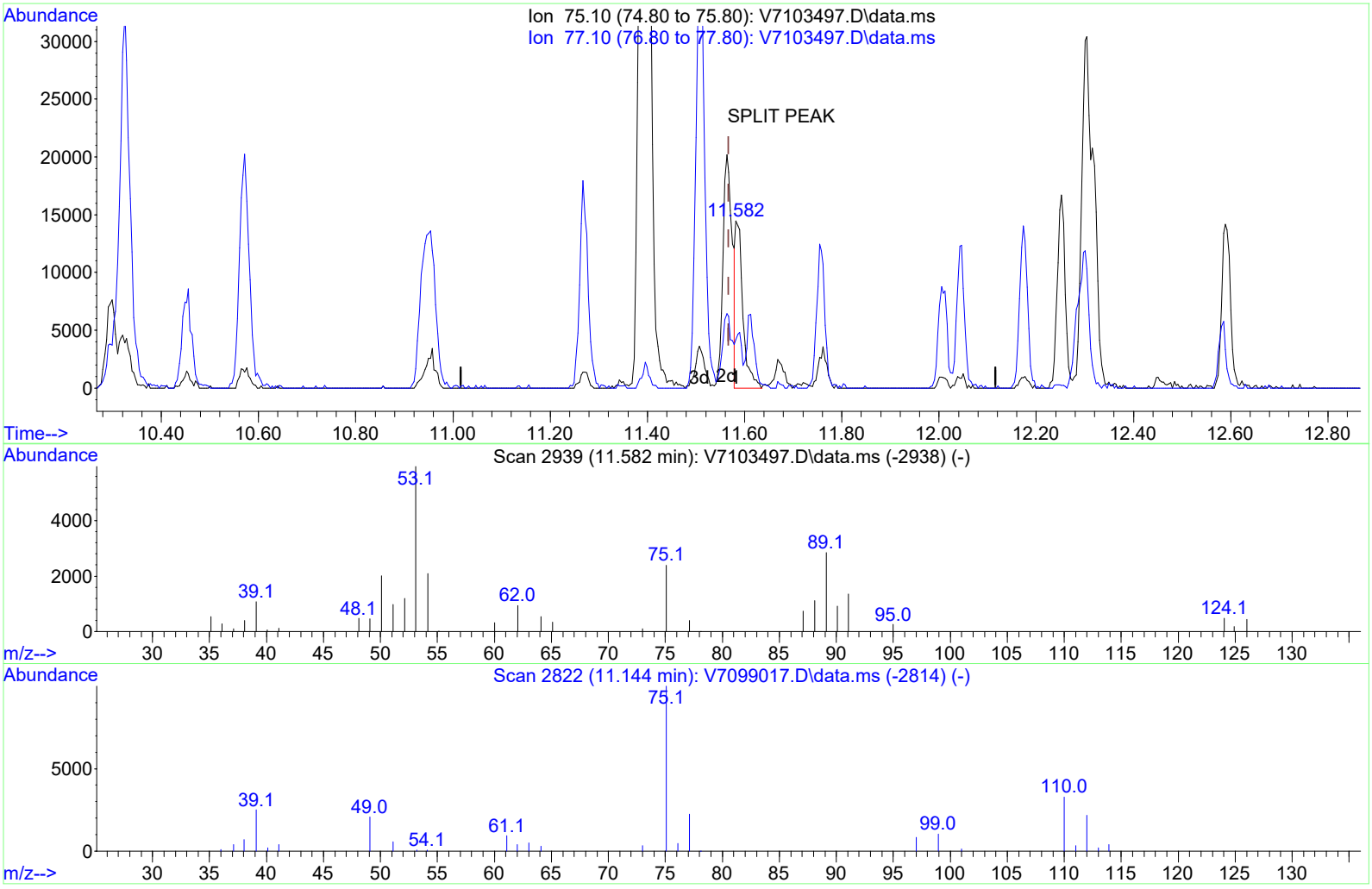
response 509

Ion	Exp%	Act%
88.10	100.00	100.00
58.20	70.10	0.00#
43.10	39.10	0.00#
57.10	16.90	0.00#

Quantitation Report (Qedit)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103497.D
Acq On : 12 Jan 2022 1:06 pm
Operator : ORM
Sample : ICAL 8260 010 W (10uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 12 17:44:40 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:43:42 2022
Response via : Initial Calibration



TIC: V7103497.D\data.ms

(64) 1,2,3-Trichloropropane (T)

11.582min (+ 0.015) 6.52 ug/L

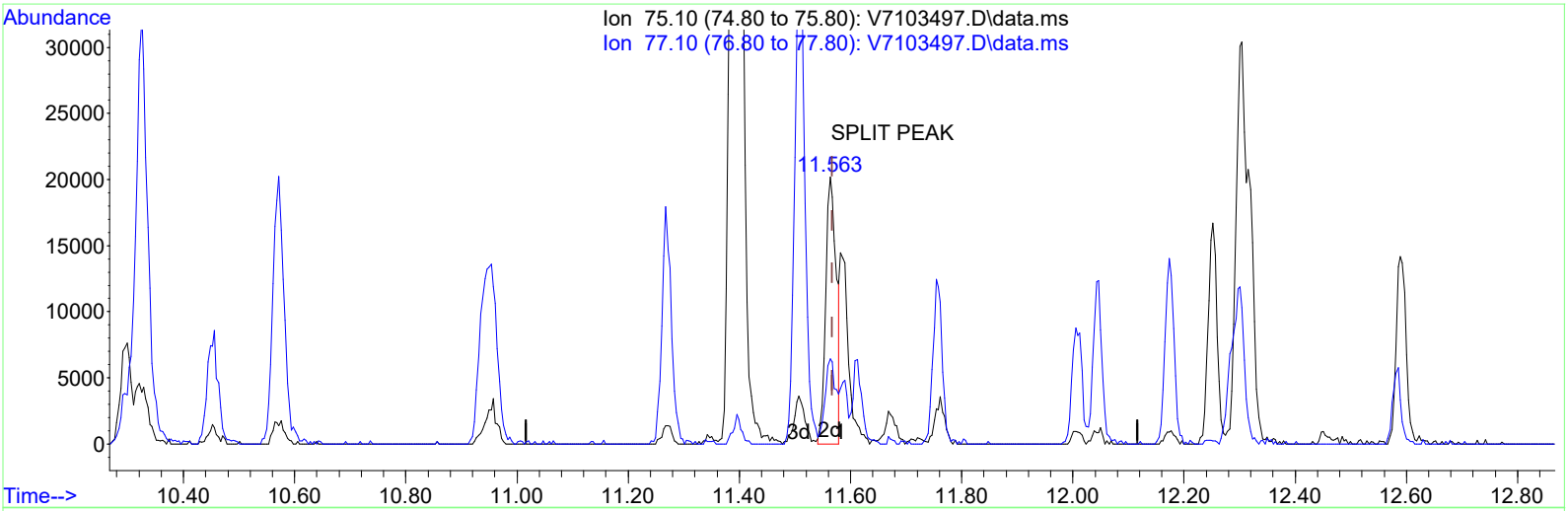
response 15735

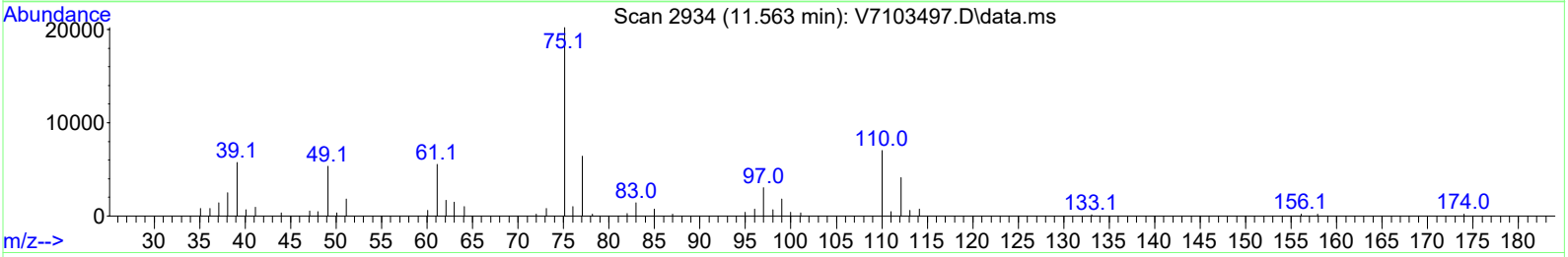
Ion	Exp%	Act%
75.10	100.00	100.00
77.10	28.90	26.22
0.00	0.00	0.00
0.00	0.00	0.00

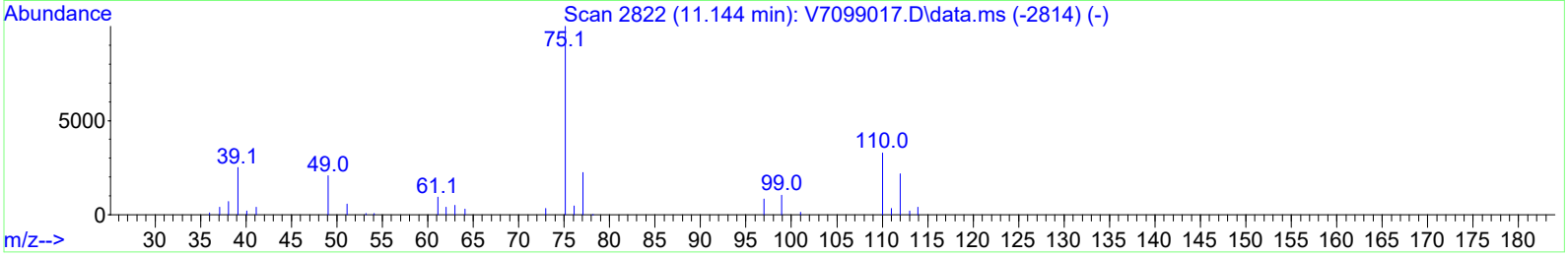
Quantitation Report (Qedit)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103497.D
Acq On : 12 Jan 2022 1:06 pm
Operator : ORM
Sample : ICAL 8260 010 W (10uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 12 17:44:40 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:43:42 2022
Response via : Initial Calibration







TIC: V7103497.D\data.ms

(64) 1,2,3-Trichloropropane (T)

11.563min (-0.004) 11.07 ug/L m

response 26708

Ion	Exp%	Act%
75.10	100.00	100.00
77.10	28.90	31.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103498.D
Acq On : 12 Jan 2022 1:31 pm
Operator : ORM
Sample : ICAL 8260 020 W (20uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 12 17:54:49 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:48:45 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.568	168	328610	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	6.609	114	534423	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.299	117	502098	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	12.301	152	268907	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	5.452	113	194588	49.80	ug/L		0.00
Spiked Amount 50.000	Range 79 - 121		Recovery = 99.60%				
43) Toluene-d8	8.566	98	731366	49.90	ug/L		0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 99.80%				
60) 4-Bromofluorobenzene	11.395	95	303433	49.40	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 98.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.190	85	78634	19.06	ug/L		95
3) Chloromethane	1.328	50	68202	19.36	ug/L		98
4) Vinyl chloride	1.411	62	63335	19.86	ug/L		89
5) Bromomethane	1.661	94	46395	20.43	ug/L		89
6) Chloroethane	1.736	64	35408	19.39	ug/L		95
7) Trichlorofluoromethane	1.946	101	101365	19.73	ug/L	#	98
8) Acrolein	2.305	56	7760	20.06	ug/L		87
9) 1,1-Dichloroethene	2.384	96	36604	18.19	ug/L		79
10) Freon-113	2.395	101	43486	18.12	µg/L		86
11) Acetone	2.451	58	8675	40.81	ug/L		94
12) Iodomethane	2.526	142	136509	36.72	ug/L		99
13) Carbon disulfide	2.586	76	259372	36.76	ug/L		100
14) Methyl acetate	2.788	43	41557	19.81	µg/L		99
15) Vinyl acetate	3.851	43	236132	41.29	ug/L		97
16) Methylene chloride	2.881	84	56734	20.06	ug/L		78
17) Acrylonitrile	3.188	53	18105	19.81	ug/L		93
18) Methyl tert-butyl ether	3.196	73	154070	19.40	µg/L		94
19) trans-1,2-Dichloroethene	3.192	96	42596	18.51	ug/L		98
20) 1,1-Dichloroethane	3.742	63	97640	18.92	ug/L		99
21) 2,2-Dichloropropane	4.633	77	59604	19.22	ug/L		93
22) cis-1,2-Dichloroethene	4.667	96	47836	19.40	ug/L		96
23) 2-Butanone	4.749	72	8990	41.54	ug/L	#	52
24) Bromochloromethane	5.041	128	23066	19.90	ug/L		79
25) Chloroform	5.202	83	99430	19.15	ug/L		95
26) Cyclohexane	5.494	56	86835	20.18	µg/L	#	86
27) 1,1,1-Trichloroethane	5.434	97	85467	18.48	ug/L		97
30) 1,1-Dichloropropene	5.696	110	20709	18.40	ug/L		89
31) Carbon tetrachloride	5.673	119	65877	18.14	ug/L		98
32) Benzene	5.991	78	185845	18.56	ug/L		98
33) 1,2-Dichloroethane	6.051	62	89649	19.98	ug/L		96
34) Trichloroethene	6.931	130	43157	18.51	ug/L		88
35) Methylcyclohexane	7.159	55	56788	17.89	µg/L		91
36) 1,2-Dichloropropane	7.241	63	53246	18.76	ug/L		98
37) Dibromomethane	7.402	93	30917	19.54	ug/L		87
38) 1,4-Dioxane	7.473	88	1640m	219.29	µg/L		
39) Bromodichloromethane	7.642	83	69667	18.75	ug/L		98
40) 2-Chloroethyl vinyl ether	8.094	63	58575	40.02	µg/L		93
41) cis-1,3-Dichloropropene	8.240	75	82221	19.60	ug/L		97
42) 4-Methyl-2-pentanone	8.484	43	106478	40.81	ug/L	#	91
44) Toluene	8.645	92	117415	19.04	ug/L		97
45) trans-1,3-Dichloropropene	8.981	75	75388	19.91	ug/L		95
46) 1,1,2-Trichloroethane	9.202	83	37446	19.80	ug/L		86

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103498.D
Acq On : 12 Jan 2022 1:31 pm
Operator : ORM
Sample : ICAL 8260 020 W (20uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 12 17:54:49 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:48:45 2022
Response via : Initial Calibration

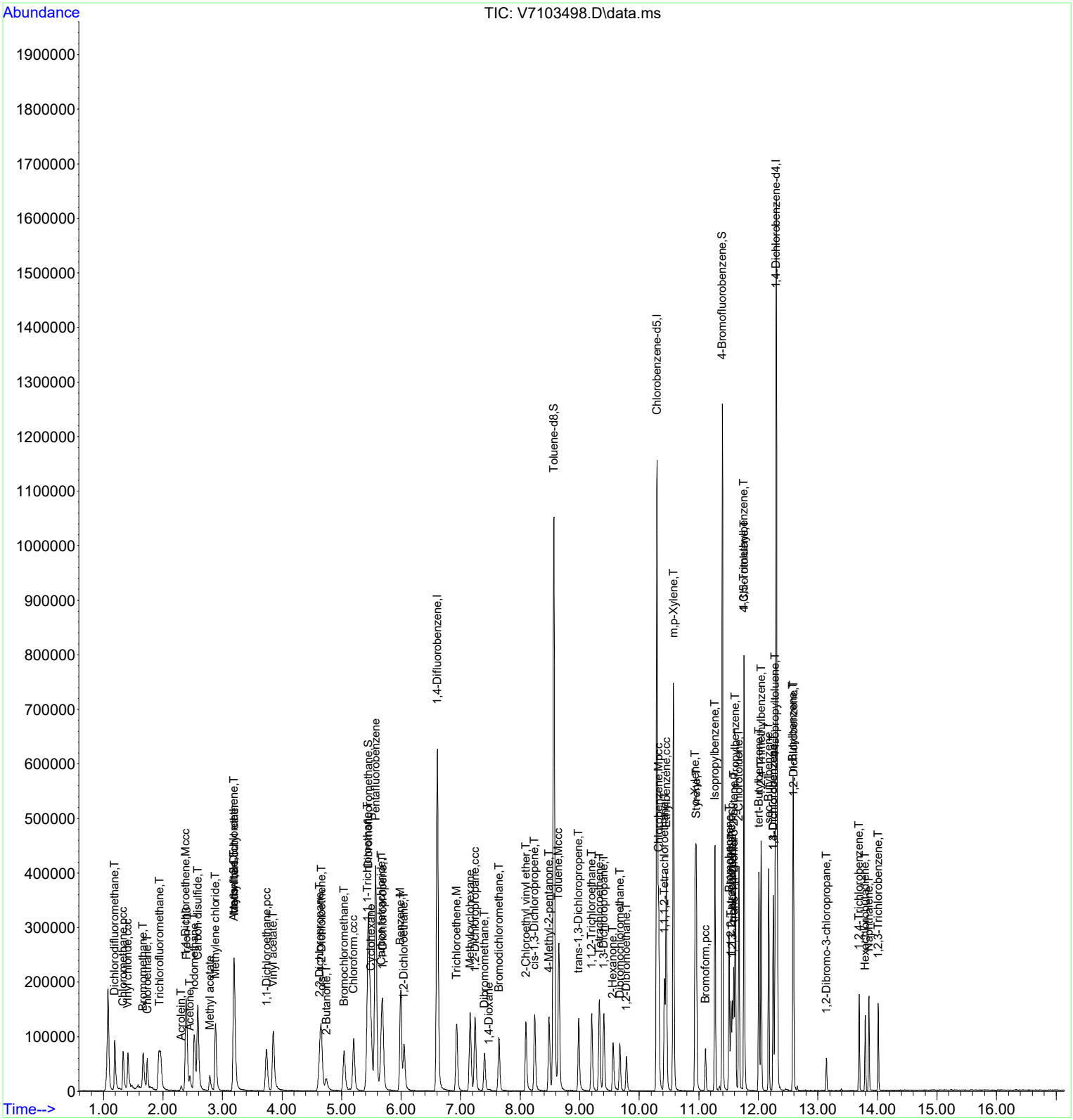
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Hexanone	9.558	43	69791	43.04	ug/L		88
49) Tetrachloroethene	9.329	166	47926	18.46	ug/L		94
50) 1,3-Dichloropropane	9.404	76	77093	19.63	ug/L		100
51) Dibromochloromethane	9.674	129	42800	19.40	ug/L		98
52) 1,2-Dibromoethane	9.782	107	41535	19.91	ug/L	#	98
53) Chlorobenzene	10.325	112	127615	18.73	ug/L		99
54) 1,1,1,2-Tetrachloroethane	10.426	131	47009	19.03	ug/L		95
55) Ethylbenzene	10.452	91	232432	19.04	ug/L		96
56) m,p-Xylene	10.572	91	372521	38.26	ug/L		96
57) o-Xylene	10.939	91	187683	19.15	ug/L		99
58) Styrene	10.957	104	133872	19.91	ug/L		99
59) Bromoform	11.114	173	27828	19.89	ug/L	#	97
62) Bromobenzene	11.511	156	53193	18.53	ug/L		96
63) 1,1,2,2-Tetrachloroethane	11.541	83	58199	19.73	ug/L		92
64) 1,2,3-Trichloropropane	11.567	75	51781	20.39	ug/L		96
65) Isopropylbenzene	11.272	105	219945	19.29	ug/L		96
66) n-Propylbenzene	11.612	91	266350	18.88	ug/L		98
67) trans-1,4-Dichloro-2-b...	11.586	124	6265	39.85	ug/L	#	35
68) 2-Chlorotoluene	11.672	91	168134	18.34	ug/L		91
69) 4-Chlorotoluene	11.762	91	198123	19.41	ug/L		99
70) 1,3,5-Trimethylbenzene	11.758	105	174778	19.44	ug/L		99
71) tert-Butylbenzene	12.009	119	128093	16.94	ug/L		96
72) 1,2,4-Trimethylbenzene	12.046	105	178205	19.43	ug/L		96
73) sec-Butylbenzene	12.173	105	188081	19.20	ug/L		99
74) 1,3-Dichlorobenzene	12.252	146	94378	19.16	ug/L		98
75) 4-Isopropyltoluene	12.286	119	152381	18.85	ug/L		98
76) 1,4-Dichlorobenzene	12.252	146	94245	19.12	ug/L		98
77) 1,2-Dichlorobenzene	12.593	146	88500	19.50	ug/L		96
78) n-Butylbenzene	12.581	91	131508	18.95	ug/L		98
79) 1,2-Dibromo-3-chloropr...	13.143	75	10180	18.99	ug/L		93
80) 1,2,4-Trichlorobenzene	13.693	180	34424	19.71	ug/L		96
81) Hexachlorobutadiene	13.798	225	17093	18.46	ug/L		88
82) Naphthalene	13.857	128	85576	18.32	ug/L		100
83) 1,2,3-Trichlorobenzene	14.011	180	30981	20.21	ug/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103498.D
Acq On : 12 Jan 2022 1:31 pm
Operator : ORM
Sample : ICAL 8260 020 W (20uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 7 Sample Multiplier: 1

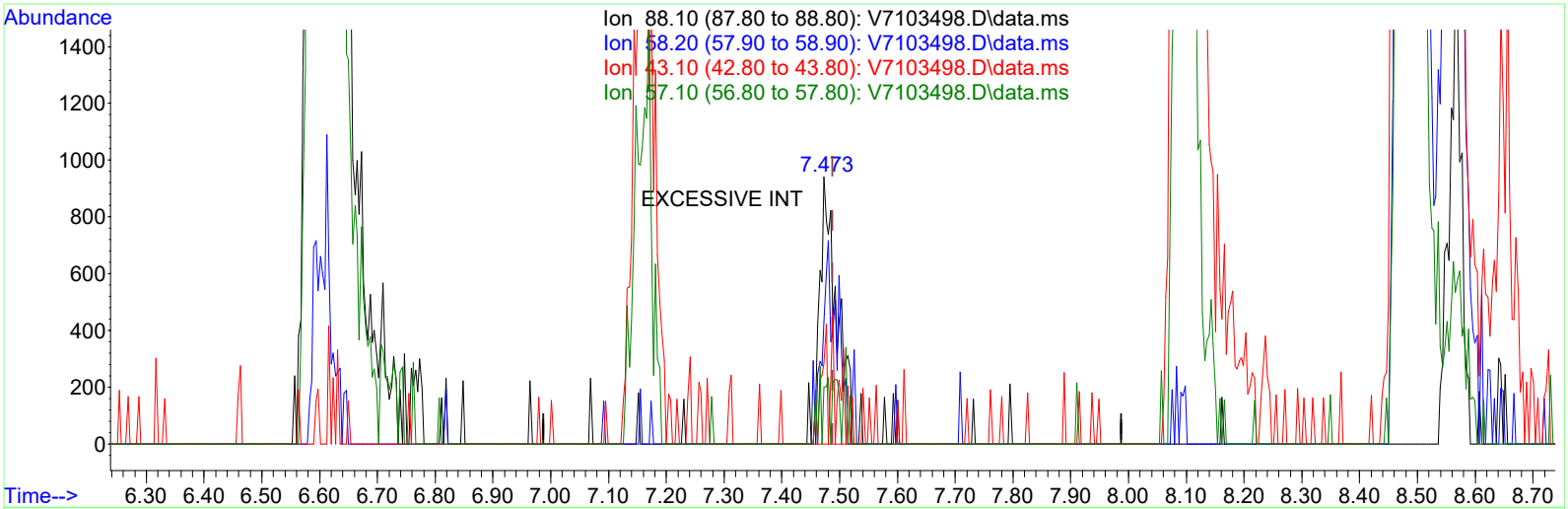
Quant Time: Jan 12 17:54:49 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:48:45 2022
Response via : Initial Calibration

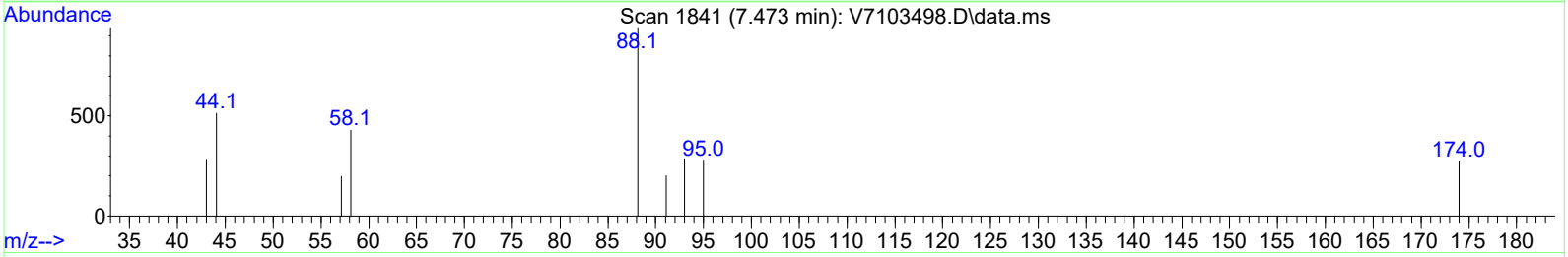


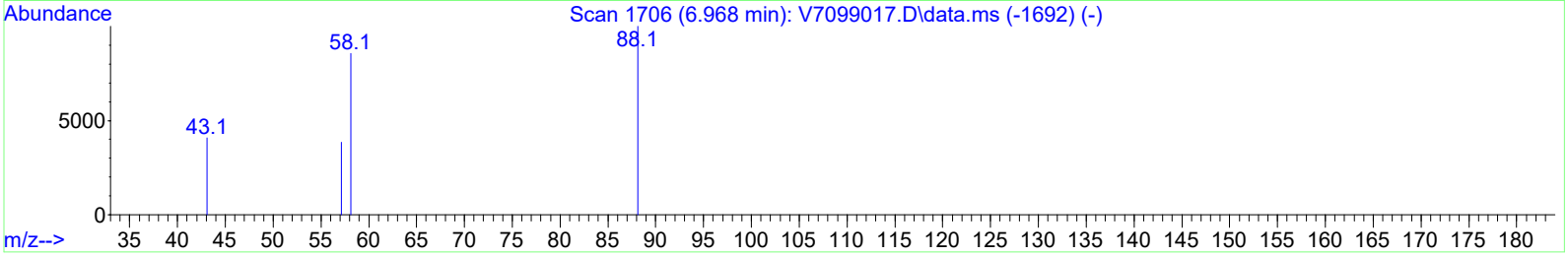
Quantitation Report (Qedit)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103498.D
Acq On : 12 Jan 2022 1:31 pm
Operator : ORM
Sample : ICAL 8260 020 W (20uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 12 17:48:47 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:48:45 2022
Response via : Initial Calibration







TIC: V7103498.D\data.ms

(38) 1,4-Dioxane

7.473min (-0.015) 259.78 µg/L

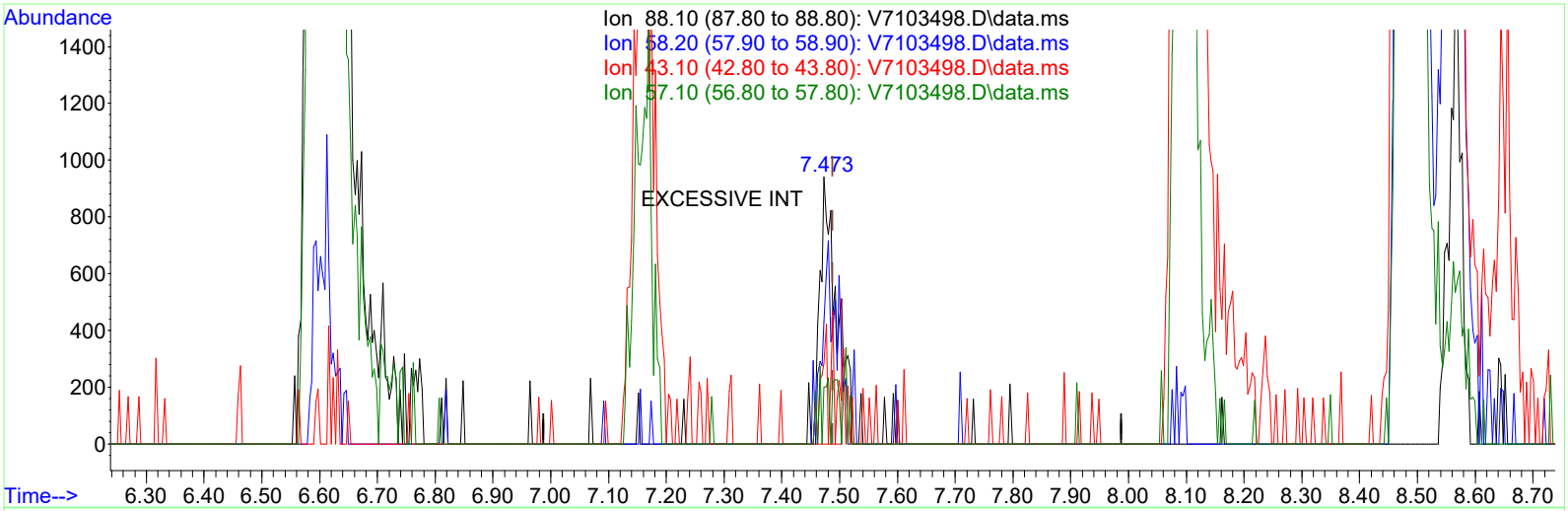
response 1985

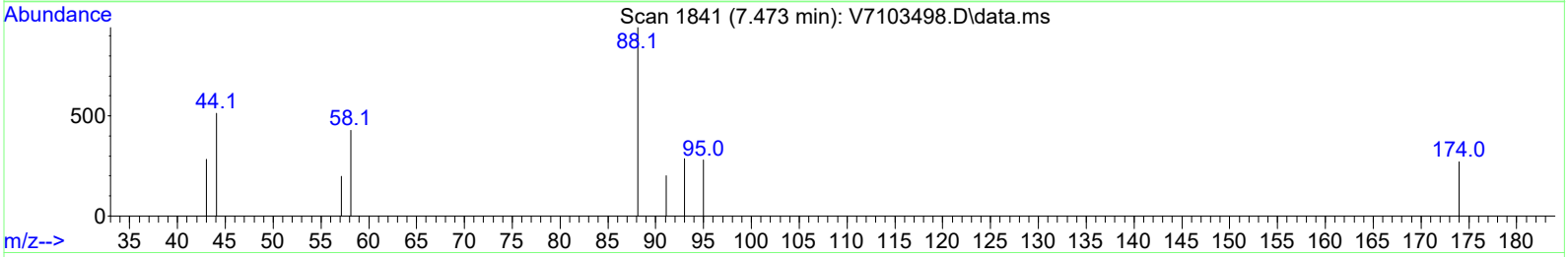
Ion	Exp%	Act%
88.10	100.00	100.00
58.20	70.10	0.00#
43.10	39.10	15.06#
57.10	16.90	21.96#

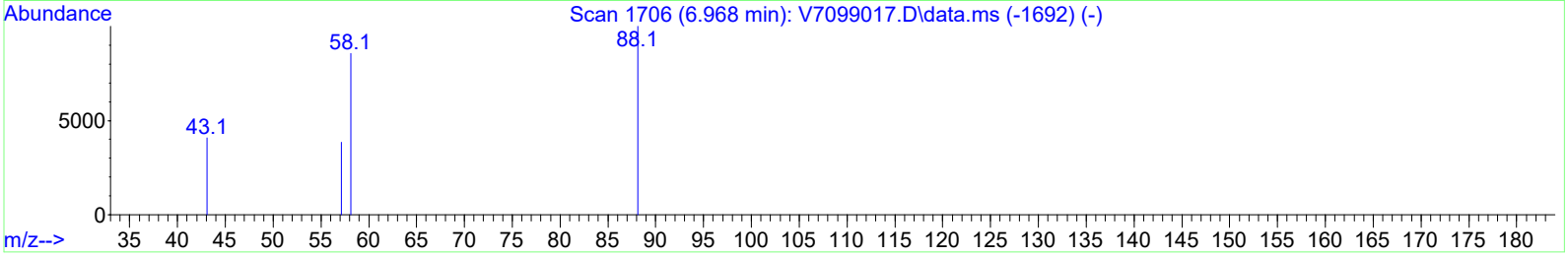
Quantitation Report (Qedit)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103498.D
Acq On : 12 Jan 2022 1:31 pm
Operator : ORM
Sample : ICAL 8260 020 W (20uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 12 17:48:47 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:48:45 2022
Response via : Initial Calibration







TIC: V7103498.D\data.ms

(38) 1,4-Dioxane

7.473min (-0.015) 219.29 µg/L m

response 1640

Ion	Exp%	Act%
88.10	100.00	100.00
58.20	70.10	0.00#
43.10	39.10	18.23#
57.10	16.90	26.59#

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103500.D
Acq On : 12 Jan 2022 2:20 pm
Operator : ORM
Sample : ICAL 8260 050 W (50uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 12 17:49:46 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:49:11 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.572	168	331373	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	6.609	114	544156	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.298	117	514881	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	12.304	152	284063	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	5.452	113	198526	49.98	ug/L		0.00
Spiked Amount 50.000	Range 79 - 121		Recovery = 99.96%				
43) Toluene-d8	8.566	98	755739	50.64	ug/L		0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 101.28%				
60) 4-Bromofluorobenzene	11.395	95	324756	51.58	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 103.16%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.190	85	217406	52.48	ug/L		98
3) Chloromethane	1.328	50	179425	50.60	ug/L		99
4) Vinyl chloride	1.414	62	165261	51.36	ug/L		93
5) Bromomethane	1.669	94	113893	49.79	ug/L		100
6) Chloroethane	1.736	64	93669	50.82	ug/L		96
7) Trichlorofluoromethane	1.946	101	278368	53.72	ug/L	#	96
8) Acrolein	2.305	56	20662	52.94	ug/L		87
9) 1,1-Dichloroethene	2.384	96	106718	52.56	ug/L		75
10) Freon-113	2.402	101	124178	51.28	µg/L		91
11) Acetone	2.455	58	20629	96.19	ug/L		95
12) Iodomethane	2.529	142	380294	101.45	ug/L		97
13) Carbon disulfide	2.582	76	736552	103.50	ug/L		100
14) Methyl acetate	2.784	43	108785	51.36	µg/L		100
15) Vinyl acetate	3.850	43	657568	113.92	ug/L		99
16) Methylene chloride	2.877	84	137639	50.71	ug/L		81
17) Acrylonitrile	3.181	53	48680	52.94	ug/L		88
18) Methyl tert-butyl ether	3.196	73	413346	51.57	µg/L		93
19) trans-1,2-Dichloroethene	3.188	96	118197	50.87	ug/L		97
20) 1,1-Dichloroethane	3.738	63	265748	51.03	ug/L		100
21) 2,2-Dichloropropane	4.640	77	156596	50.07	ug/L		100
22) cis-1,2-Dichloroethene	4.659	96	129063	51.90	ug/L		92
23) 2-Butanone	4.734	72	23814	108.19	ug/L	#	10
24) Bromochloromethane	5.037	128	61136	52.27	ug/L	#	70
25) Chloroform	5.201	83	262530	50.09	ug/L		95
26) Cyclohexane	5.486	56	230316	53.02	µg/L		94
27) 1,1,1-Trichloroethane	5.430	97	239860	51.39	ug/L		97
30) 1,1-Dichloropropene	5.688	110	58509	51.06	ug/L		66
31) Carbon tetrachloride	5.669	119	191107	51.68	ug/L		99
32) Benzene	5.991	78	508192	49.95	ug/L		98
33) 1,2-Dichloroethane	6.051	62	235024	51.47	ug/L		97
34) Trichloroethene	6.930	130	120369	50.70	ug/L		97
35) Methylcyclohexane	7.159	55	170444	52.73	µg/L		96
36) 1,2-Dichloropropane	7.241	63	142880	49.54	ug/L		99
37) Dibromomethane	7.398	93	81640	50.77	ug/L		86
38) 1,4-Dioxane	7.477	88	2950	438.03	µg/L	#	93
39) Bromodichloromethane	7.645	83	193486	51.13	ug/L		98
40) 2-Chloroethyl vinyl ether	8.094	63	160845	107.99	µg/L		93
41) cis-1,3-Dichloropropene	8.240	75	227651	53.30	ug/L		94
42) 4-Methyl-2-pentanone	8.483	43	294117	110.52	ug/L		93
44) Toluene	8.648	92	321765	51.26	ug/L		99
45) trans-1,3-Dichloropropene	8.981	75	204867	53.15	ug/L		97
46) 1,1,2-Trichloroethane	9.202	83	97157	50.44	ug/L		91

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103500.D
Acq On : 12 Jan 2022 2:20 pm
Operator : ORM
Sample : ICAL 8260 050 W (50uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 12 17:49:46 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:49:11 2022
Response via : Initial Calibration

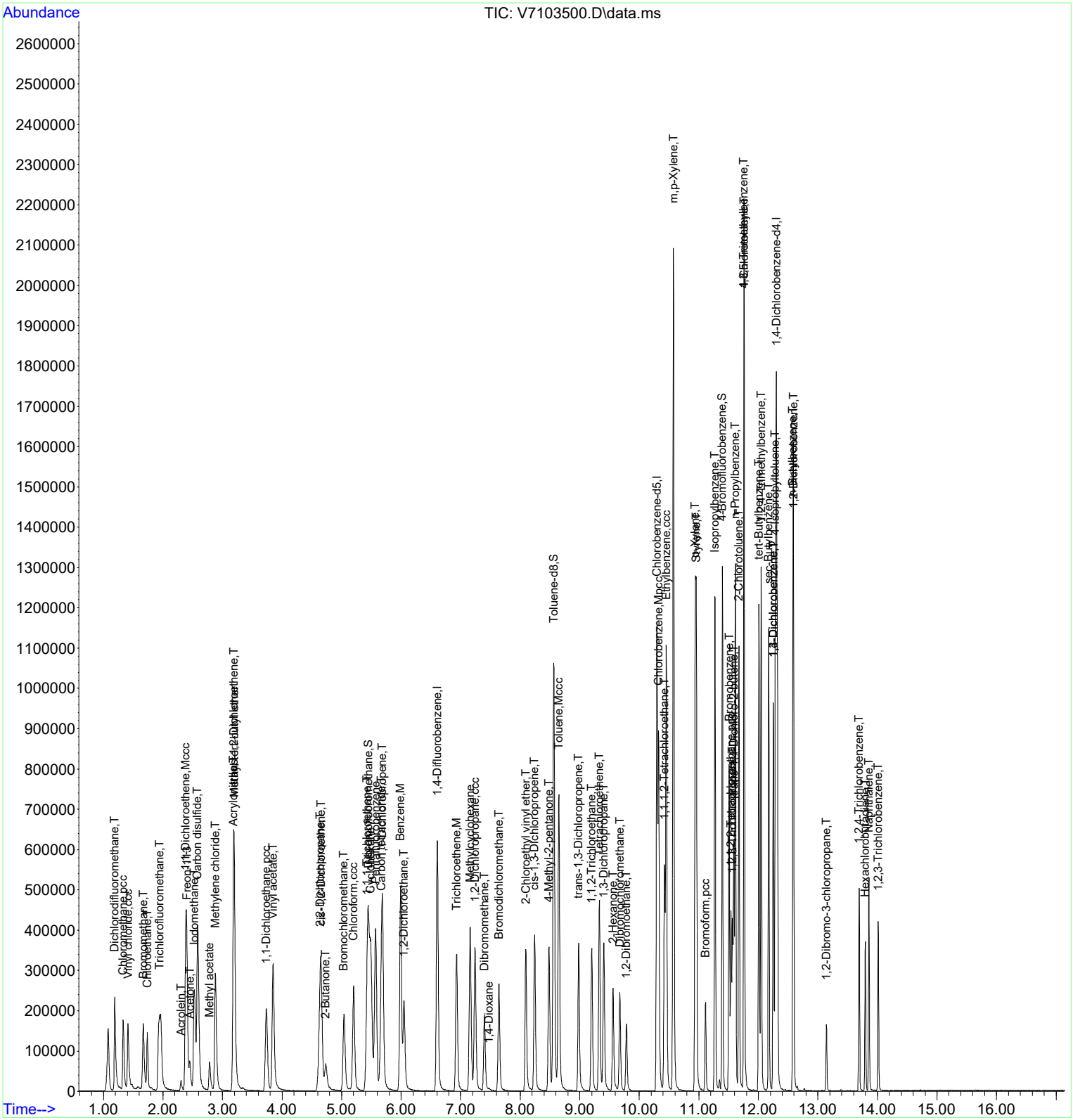
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Hexanone	9.561	43	195272	117.65	ug/L		94
49) Tetrachloroethene	9.329	166	135080	50.75	ug/L		83
50) 1,3-Dichloropropane	9.404	76	203300	50.50	ug/L		93
51) Dibromochloromethane	9.673	129	120878	53.46	ug/L		95
52) 1,2-Dibromoethane	9.782	107	111839	52.28	ug/L		98
53) Chlorobenzene	10.325	112	343766	49.20	ug/L		97
54) 1,1,1,2-Tetrachloroethane	10.422	131	128398	50.70	ug/L		99
55) Ethylbenzene	10.452	91	655578	52.38	ug/L		96
56) m,p-Xylene	10.572	91	1048461	105.07	ug/L		98
57) o-Xylene	10.938	91	533836	53.13	ug/L		98
58) Styrene	10.957	104	381660	55.40	ug/L		99
59) Bromoform	11.114	173	80332	56.01	ug/L		97
62) Bromobenzene	11.511	156	148649	49.04	ug/L		97
63) 1,1,2,2-Tetrachloroethane	11.541	83	151667	48.66	ug/L		94
64) 1,2,3-Trichloropropane	11.563	75	137557	51.28	ug/L		89
65) Isopropylbenzene	11.271	105	628254	52.16	ug/L		99
66) n-Propylbenzene	11.612	91	763808	51.25	ug/L		98
67) trans-1,4-Dichloro-2-b...	11.586	124	17353	104.49	ug/L	#	37
68) 2-Chlorotoluene	11.672	91	464847	48.01	ug/L		94
69) 4-Chlorotoluene	11.762	91	543725	50.35	ug/L		100
70) 1,3,5-Trimethylbenzene	11.758	105	495753	52.19	ug/L		98
71) tert-Butylbenzene	12.009	119	443728	56.37	ug/L		99
72) 1,2,4-Trimethylbenzene	12.046	105	512635	52.91	ug/L		96
73) sec-Butylbenzene	12.173	105	546246	52.78	ug/L		97
74) 1,3-Dichlorobenzene	12.252	146	255775	49.16	ug/L		95
75) 4-Isopropyltoluene	12.286	119	454157	53.18	ug/L		99
76) 1,4-Dichlorobenzene	12.252	146	255153	49.01	ug/L		95
77) 1,2-Dichlorobenzene	12.592	146	243469	50.77	ug/L		97
78) n-Butylbenzene	12.581	91	397898	54.27	ug/L		99
79) 1,2-Dibromo-3-chloropr...	13.142	75	29501	52.10	ug/L		98
80) 1,2,4-Trichlorobenzene	13.693	180	102128	55.36	ug/L		94
81) Hexachlorobutadiene	13.797	225	49912	50.29	ug/L		88
82) Naphthalene	13.857	128	254176	47.49	ug/L		100
83) 1,2,3-Trichlorobenzene	14.014	180	84500	52.19	ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103500.D
Acq On : 12 Jan 2022 2:20 pm
Operator : ORM
Sample : ICAL 8260 050 W (50uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 12 17:49:46 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:49:11 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103502.D
Acq On : 12 Jan 2022 3:09 pm
Operator : ORM
Sample : ICAL 8260 100 W (100uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 12 17:50:06 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:49:11 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.565	168	330172	50.00	ug/L		-0.01
28) 1,4-Difluorobenzene	6.605	114	540606	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.299	117	520726	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	12.304	152	297278	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	5.445	113	199136	50.47	ug/L		-0.01
Spiked Amount 50.000	Range 79 - 121		Recovery = 100.94%				
43) Toluene-d8	8.562	98	745206	50.26	ug/L		0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 100.52%				
60) 4-Bromofluorobenzene	11.395	95	329699	51.77	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 103.54%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.190	85	379605	92.11	ug/L		97
3) Chloromethane	1.332	50	337679	95.57	ug/L		94
4) Vinyl chloride	1.414	62	304342	94.93	ug/L		95
5) Bromomethane	1.669	94	217481	95.42	ug/L		94
6) Chloroethane	1.736	64	170283	92.72	ug/L		97
7) Trichlorofluoromethane	1.946	101	496058	96.09	ug/L	#	96
8) Acrolein	2.298	56	44742	115.05	ug/L		91
9) 1,1-Dichloroethene	2.384	96	193874	95.84	ug/L		82
10) Freon-113	2.399	101	211487	87.65	µg/L		92
11) Acetone	2.447	58	42689	199.77	ug/L		87
12) Iodomethane	2.533	142	734871	196.76	ug/L		96
13) Carbon disulfide	2.586	76	1372062	193.51	ug/L		100
14) Methyl acetate	2.780	43	217034	102.85	µg/L		100
15) Vinyl acetate	3.847	43	1349791	234.69	ug/L		98
16) Methylene chloride	2.881	84	267850	100.74	ug/L		86
17) Acrylonitrile	3.177	53	105151	114.76	ug/L		91
18) Methyl tert-butyl ether	3.196	73	831468	104.12	µg/L		97
19) trans-1,2-Dichloroethene	3.185	96	221532	95.69	ug/L		95
20) 1,1-Dichloroethane	3.735	63	503618	97.06	ug/L		99
21) 2,2-Dichloropropane	4.633	77	273425	87.74	ug/L		100
22) cis-1,2-Dichloroethene	4.655	96	249793	100.81	ug/L		92
23) 2-Butanone	4.730	72	49268	224.65	ug/L	#	34
24) Bromochloromethane	5.037	128	117734	101.02	ug/L	#	56
25) Chloroform	5.202	83	513406	98.31	ug/L		92
26) Cyclohexane	5.482	56	394074	91.05	µg/L		92
27) 1,1,1-Trichloroethane	5.430	97	435202	93.58	ug/L		96
30) 1,1-Dichloropropene	5.688	110	104840	92.10	ug/L	#	57
31) Carbon tetrachloride	5.666	119	341967	93.08	ug/L		98
32) Benzene	5.991	78	973105	96.27	ug/L		99
33) 1,2-Dichloroethane	6.047	62	456659	100.67	ug/L		100
34) Trichloroethene	6.931	130	223686	94.83	ug/L		93
35) Methylcyclohexane	7.159	55	293252	91.32	µg/L		96
36) 1,2-Dichloropropane	7.241	63	278242	97.11	ug/L		99
37) Dibromomethane	7.398	93	165464	103.58	ug/L		90
38) 1,4-Dioxane	7.469	88	5533	898.39	µg/L	#	95
39) Bromodichloromethane	7.642	83	391936	104.25	ug/L		98
40) 2-Chloroethyl vinyl ether	8.091	63	333926	225.66	µg/L		94
41) cis-1,3-Dichloropropene	8.240	75	461374	108.74	ug/L		95
42) 4-Methyl-2-pentanone	8.484	43	590575	223.37	ug/L	#	90
44) Toluene	8.644	92	604628	96.96	ug/L		99
45) trans-1,3-Dichloropropene	8.981	75	423769	110.66	ug/L		96
46) 1,1,2-Trichloroethane	9.202	83	189847	99.21	ug/L		95

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103502.D
Acq On : 12 Jan 2022 3:09 pm
Operator : ORM
Sample : ICAL 8260 100 W (100uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 12 17:50:06 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:49:11 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) 2-Hexanone	9.558	43	395987	235.91 ug/L	96
49) Tetrachloroethene	9.329	166	252030	93.62 ug/L	88
50) 1,3-Dichloropropane	9.404	76	410244	100.76 ug/L	92
51) Dibromochloromethane	9.674	129	255525	111.74 ug/L	88
52) 1,2-Dibromoethane	9.782	107	224765	103.89 ug/L	98
53) Chlorobenzene	10.325	112	675126	95.54 ug/L	96
54) 1,1,1,2-Tetrachloroethane	10.426	131	257416	100.50 ug/L	98
55) Ethylbenzene	10.452	91	1259552	99.50 ug/L	96
56) m,p-Xylene	10.572	91	2018591	200.03 ug/L	100
57) o-Xylene	10.938	91	1060716	104.39 ug/L	98
58) Styrene	10.957	104	764349	109.70 ug/L	98
59) Bromoform	11.114	173	170669	117.66 ug/L	93
62) Bromobenzene	11.511	156	302559	95.38 ug/L	95
63) 1,1,2,2-Tetrachloroethane	11.541	83	314693	96.48 ug/L	95
64) 1,2,3-Trichloropropane	11.563	75	246448	87.79 ug/L	99
65) Isopropylbenzene	11.272	105	1212398	96.19 ug/L	97
66) n-Propylbenzene	11.616	91	1485711	95.26 ug/L	98
67) trans-1,4-Dichloro-2-b...	11.586	124	38713	222.74 ug/L #	50
68) 2-Chlorotoluene	11.676	91	931597	91.94 ug/L	93
69) 4-Chlorotoluene	11.762	91	1103431	97.64 ug/L	96
70) 1,3,5-Trimethylbenzene	11.758	105	994377	100.02 ug/L	98
71) tert-Butylbenzene	12.009	119	877331	106.51 ug/L	99
72) 1,2,4-Trimethylbenzene	12.046	105	1041618	102.74 ug/L	99
73) sec-Butylbenzene	12.177	105	1080008	99.72 ug/L	100
74) 1,3-Dichlorobenzene	12.252	146	529376	97.22 ug/L	95
75) 4-Isopropyltoluene	12.286	119	912454	102.10 ug/L	97
76) 1,4-Dichlorobenzene	12.252	146	530258	97.32 ug/L	96
77) 1,2-Dichlorobenzene	12.593	146	502554	100.14 ug/L	98
78) n-Butylbenzene	12.585	91	808393	105.36 ug/L	99
79) 1,2-Dibromo-3-chloropr...	13.143	75	65207	110.05 ug/L	96
80) 1,2,4-Trichlorobenzene	13.693	180	233873	121.15 ug/L	98
81) Hexachlorobutadiene	13.798	225	102017	97.83 ug/L	94
82) Naphthalene	13.857	128	589940	102.61 ug/L	100
83) 1,2,3-Trichlorobenzene	14.011	180	192997	113.90 ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report   (QT Reviewed)

```
Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103502.D
Acq On    : 12 Jan 2022   3:09 pm
Operator  : ORM
Sample    : ICAL 8260 100 W (100uL/50mL)
Misc      : ICAL 8260B_W
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Jan 12 17:50:06 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title  : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:49:11 2022
Response via : Initial Calibration
```

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103504.D
Acq On : 12 Jan 2022 3:59 pm
Operator : ORM
Sample : ICAL 8260 150 W (150uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 12 17:50:29 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:49:11 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.561	168	348026	50.00	ug/L		-0.02
28) 1,4-Difluorobenzene	6.601	114	566258	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.298	117	553903	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	12.300	152	308102	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	5.441	113	206200	49.89	ug/L		-0.02
Spiked Amount 50.000	Range 79 - 121		Recovery = 99.78%				
43) Toluene-d8	8.562	98	781766	50.34	ug/L		0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 100.68%				
60) 4-Bromofluorobenzene	11.395	95	352094	51.98	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 103.96%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.186	85	593143	136.59	ug/L		99
3) Chloromethane	1.324	50	519436	139.47	ug/L		91
4) Vinyl chloride	1.411	62	483372	143.04	ug/L		93
5) Bromomethane	1.658	94	341667	142.22	ug/L		100
6) Chloroethane	1.729	64	265192	136.99	ug/L		98
7) Trichlorofluoromethane	1.931	101	781546	143.62	ug/L		97
8) Acrolein	2.297	56	67787	165.36	ug/L		85
9) 1,1-Dichloroethene	2.376	96	311781	146.22	ug/L		84
10) Freon-113	2.391	101	341755	134.37	µg/L		93
11) Acetone	2.443	58	61487	272.98	ug/L		92
12) Iodomethane	2.518	142	1149114	291.89	ug/L		94
13) Carbon disulfide	2.574	76	2203666	294.85	ug/L		100
14) Methyl acetate	2.776	43	331119	148.86	µg/L		99
15) Vinyl acetate	3.843	43	2106016	347.39	ug/L		98
16) Methylene chloride	2.874	84	407466	146.18	ug/L		85
17) Acrylonitrile	3.177	53	159293	164.93	ug/L		90
18) Methyl tert-butyl ether	3.192	73	1300181	154.46	µg/L		96
19) trans-1,2-Dichloroethene	3.181	96	352587	144.48	ug/L		93
20) 1,1-Dichloroethane	3.734	63	804716	147.14	ug/L		99
21) 2,2-Dichloropropane	4.625	77	488692	148.78	ug/L		98
22) cis-1,2-Dichloroethene	4.651	96	401186	153.61	ug/L		92
23) 2-Butanone	4.722	72	74096	320.53	ug/L	#	37
24) Bromochloromethane	5.037	128	187953	153.00	ug/L	#	71
25) Chloroform	5.194	83	805313	146.29	ug/L		91
26) Cyclohexane	5.486	56	640702	140.43	µg/L		94
27) 1,1,1-Trichloroethane	5.426	97	710296	144.90	ug/L		97
30) 1,1-Dichloropropene	5.688	110	171247	143.62	ug/L		72
31) Carbon tetrachloride	5.665	119	567869	147.57	ug/L		97
32) Benzene	5.987	78	1566728	147.97	ug/L		100
33) 1,2-Dichloroethane	6.047	62	710514	149.53	ug/L		98
34) Trichloroethene	6.927	130	367673	148.82	ug/L		89
35) Methylcyclohexane	7.159	55	486880	144.74	µg/L		94
36) 1,2-Dichloropropane	7.241	63	436292	145.37	ug/L		99
37) Dibromomethane	7.394	93	255687	152.80	ug/L		88
38) 1,4-Dioxane	7.480	88	8427	1364.25	µg/L	#	93
39) Bromodichloromethane	7.638	83	627055	159.24	ug/L		97
40) 2-Chloroethyl vinyl ether	8.090	63	530140	342.03	µg/L		95
41) cis-1,3-Dichloropropene	8.240	75	736719	165.76	ug/L		95
42) 4-Methyl-2-pentanone	8.480	43	913238	329.77	ug/L		92
44) Toluene	8.644	92	978854	149.86	ug/L		95
45) trans-1,3-Dichloropropene	8.977	75	686262	171.08	ug/L		94
46) 1,1,2-Trichloroethane	9.202	83	307908	153.62	ug/L		95

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103504.D
Acq On : 12 Jan 2022 3:59 pm
Operator : ORM
Sample : ICAL 8260 150 W (150uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 12 17:50:29 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:49:11 2022
Response via : Initial Calibration

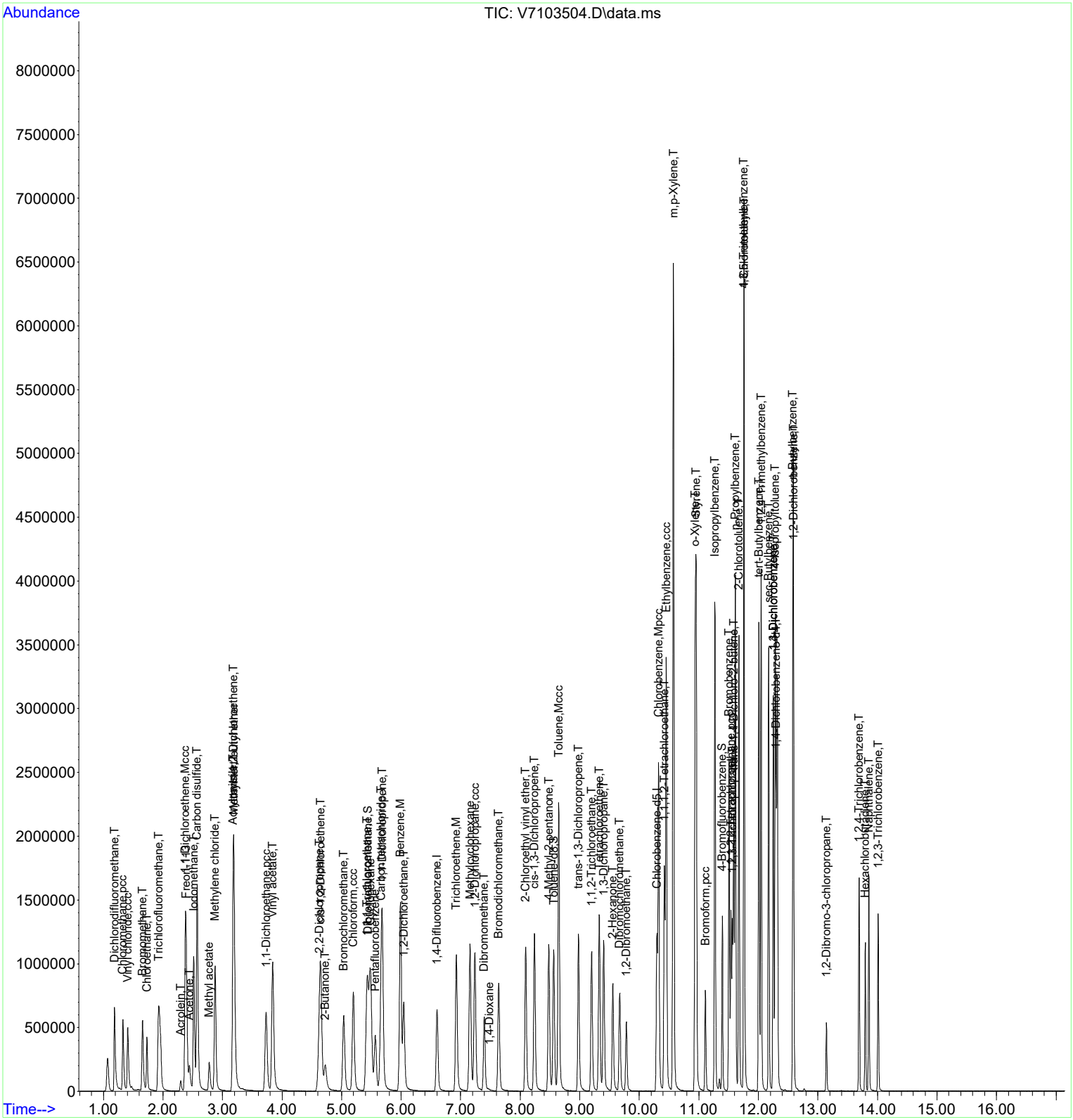
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Hexanone	9.557	43	614141	343.96	ug/L		95
49) Tetrachloroethene	9.325	166	411229	143.60	ug/L		86
50) 1,3-Dichloropropane	9.400	76	653939	151.00	ug/L		94
51) Dibromochloromethane	9.670	129	405392	166.66	ug/L		91
52) 1,2-Dibromoethane	9.782	107	354655	154.10	ug/L		98
53) Chlorobenzene	10.325	112	1099299	146.25	ug/L		98
54) 1,1,1,2-Tetrachloroethane	10.422	131	417077	153.08	ug/L		97
55) Ethylbenzene	10.452	91	2069784	153.72	ug/L		96
56) m,p-Xylene	10.572	91	3328889	310.11	ug/L		98
57) o-Xylene	10.938	91	1718015	158.95	ug/L		98
58) Styrene	10.953	104	1227562	165.63	ug/L		98
59) Bromoform	11.110	173	275457	178.53	ug/L		93
62) Bromobenzene	11.507	156	481242	146.39	ug/L		96
63) 1,1,2,2-Tetrachloroethane	11.541	83	496965	147.01	ug/L		96
64) 1,2,3-Trichloropropane	11.563	75	406180	139.61	ug/L		94
65) Isopropylbenzene	11.268	105	1977198	151.36	ug/L		97
66) n-Propylbenzene	11.612	91	2408500	149.00	ug/L		97
67) trans-1,4-Dichloro-2-b...	11.586	124	60819	337.64	ug/L	#	36
68) 2-Chlorotoluene	11.672	91	1500520	142.89	ug/L		93
69) 4-Chlorotoluene	11.762	91	1768043	150.96	ug/L		97
70) 1,3,5-Trimethylbenzene	11.758	105	1602566	155.53	ug/L		96
71) tert-Butylbenzene	12.009	119	1409619	165.12	ug/L		100
72) 1,2,4-Trimethylbenzene	12.046	105	1626582	154.79	ug/L		96
73) sec-Butylbenzene	12.173	105	1708628	152.21	ug/L		99
74) 1,3-Dichlorobenzene	12.252	146	811336	143.76	ug/L		96
75) 4-Isopropyltoluene	12.286	119	1434841	154.91	ug/L		96
76) 1,4-Dichlorobenzene	12.252	146	812634	143.91	ug/L		96
77) 1,2-Dichlorobenzene	12.592	146	757937	145.73	ug/L		100
78) n-Butylbenzene	12.581	91	1261141	158.60	ug/L		99
79) 1,2-Dibromo-3-chloropr...	13.142	75	95332	155.24	ug/L		88
80) 1,2,4-Trichlorobenzene	13.693	180	340908	170.38	ug/L		98
81) Hexachlorobutadiene	13.797	225	158447	146.40	ug/L		87
82) Naphthalene	13.857	128	874423	145.79	ug/L		100
83) 1,2,3-Trichlorobenzene	14.011	180	281837	160.49	ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103504.D
Acq On : 12 Jan 2022 3:59 pm
Operator : ORM
Sample : ICAL 8260 150 W (150uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 12 17:50:29 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:49:11 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103507.D
Acq On : 12 Jan 2022 5:12 pm
Operator : ORM
Sample : ICAL 8260 200 W (200uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 12 17:51:46 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:49:11 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.564	168	338639	50.00	ug/L		-0.01
28) 1,4-Difluorobenzene	6.601	114	556905	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.295	117	553778	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	12.301	152	310506	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	5.441	113	201933	49.68	ug/L		-0.02
Spiked Amount 50.000	Range 79 - 121		Recovery = 99.36%				
43) Toluene-d8	8.558	98	772931	50.61	ug/L		0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 101.22%				
60) 4-Bromofluorobenzene	11.395	95	346221	51.12	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 102.24%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.186	85	842399	199.05	ug/L		99
3) Chloromethane	1.325	50	727927	200.87	ug/L		96
4) Vinyl chloride	1.407	62	676761	205.82	ug/L		95
5) Bromomethane	1.654	94	455413	194.82	ug/L		98
6) Chloroethane	1.729	64	369859	196.35	ug/L		93
7) Trichlorofluoromethane	1.931	101	1107778	209.28	ug/L	#	96
8) Acrolein	2.297	56	87085	218.33	ug/L		90
9) 1,1-Dichloroethene	2.376	96	434497	209.42	ug/L		79
10) Freon-113	2.387	101	476847	192.68	µg/L		93
11) Acetone	2.443	58	76018	346.84	ug/L		88
12) Iodomethane	2.518	142	1559032	406.99	ug/L		95
13) Carbon disulfide	2.574	76	3032603	417.00	ug/L		100
14) Methyl acetate	2.776	43	409130	189.03	µg/L		99
15) Vinyl acetate	3.839	43	2768620	469.35	ug/L		98
16) Methylene chloride	2.874	84	542738	200.77	ug/L		84
17) Acrylonitrile	3.177	53	198997	211.75	ug/L		88
18) Methyl tert-butyl ether	3.188	73	1731169	211.37	µg/L		97
19) trans-1,2-Dichloroethene	3.181	96	484262	203.94	ug/L		96
20) 1,1-Dichloroethane	3.731	63	1090696	204.96	ug/L		100
21) 2,2-Dichloropropane	4.629	77	661008	206.81	ug/L		100
22) cis-1,2-Dichloroethene	4.648	96	539611	212.34	ug/L		86
23) 2-Butanone	4.715	72	94771	421.33	ug/L	#	38
24) Bromochloromethane	5.033	128	250674	209.72	ug/L	#	67
25) Chloroform	5.194	83	1093443	204.14	ug/L		94
26) Cyclohexane	5.482	56	907290	204.38	µg/L		96
27) 1,1,1-Trichloroethane	5.426	97	986644	206.85	ug/L		97
30) 1,1-Dichloropropene	5.684	110	234098	199.63	ug/L	#	61
31) Carbon tetrachloride	5.665	119	789446	208.60	ug/L		95
32) Benzene	5.984	78	2114129	203.03	ug/L		98
33) 1,2-Dichloroethane	6.043	62	937878	200.70	ug/L		98
34) Trichloroethene	6.927	130	496333	204.27	ug/L		92
35) Methylcyclohexane	7.155	55	677568	204.82	µg/L		93
36) 1,2-Dichloropropane	7.237	63	590450	200.04	ug/L		98
37) Dibromomethane	7.394	93	341068	207.25	ug/L		89
38) 1,4-Dioxane	7.469	88	9317	1692.74	µg/L	#	81
39) Bromodichloromethane	7.638	83	844510	218.06	ug/L		99
40) 2-Chloroethyl vinyl ether	8.090	63	679383	445.68	µg/L		95
41) cis-1,3-Dichloropropene	8.236	75	980658	224.36	ug/L		95
42) 4-Methyl-2-pentanone	8.480	43	1191903	437.62	ug/L		93
44) Toluene	8.644	92	1318497	205.25	ug/L		100
45) trans-1,3-Dichloropropene	8.977	75	916325	232.27	ug/L		95
46) 1,1,2-Trichloroethane	9.198	83	401881	203.87	ug/L		93

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103507.D
Acq On : 12 Jan 2022 5:12 pm
Operator : ORM
Sample : ICAL 8260 200 W (200uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 12 17:51:46 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:49:11 2022
Response via : Initial Calibration

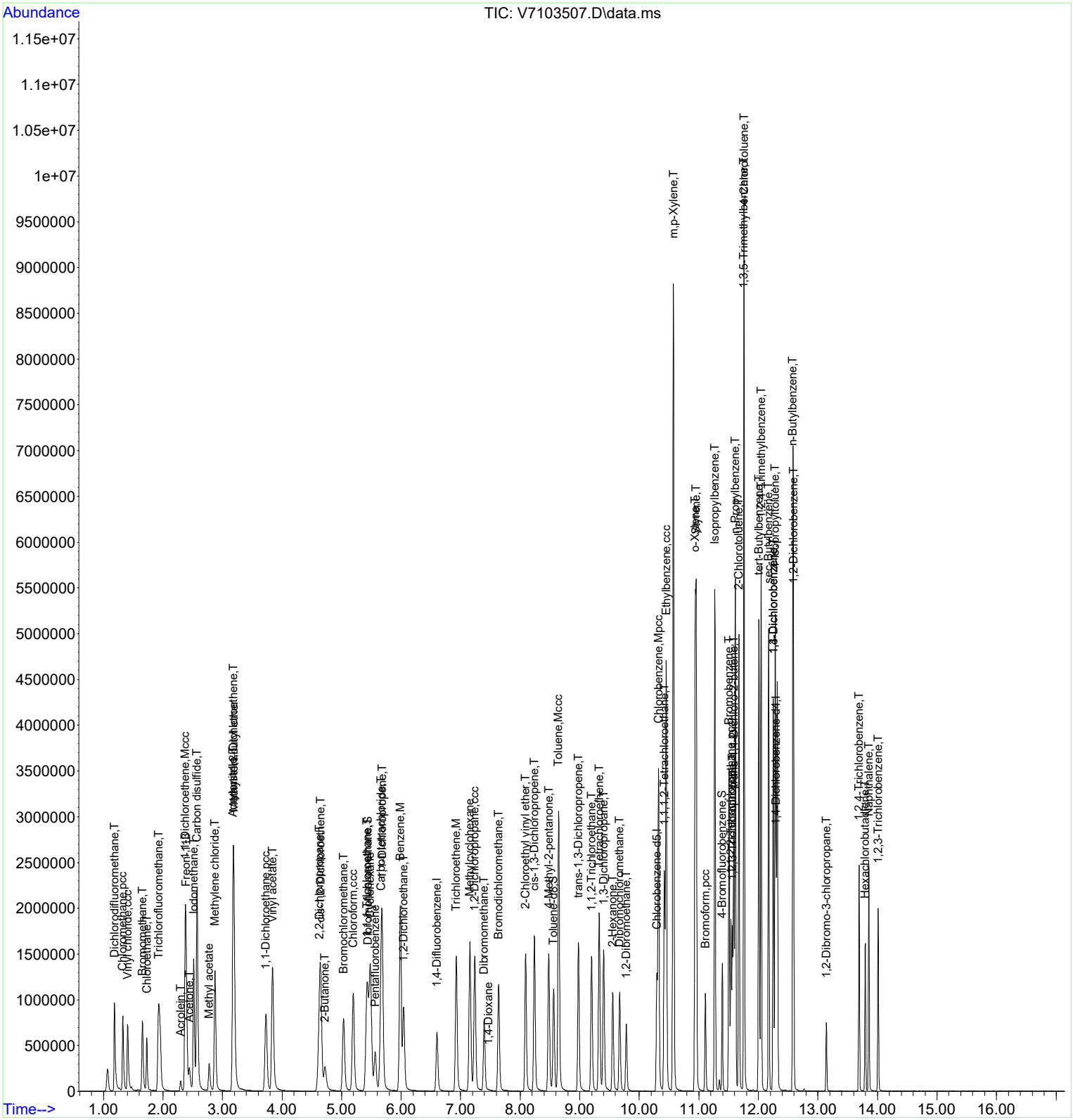
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Hexanone	9.554	43	784412	439.42	ug/L		94
49) Tetrachloroethene	9.325	166	565749	197.61	ug/L		88
50) 1,3-Dichloropropane	9.400	76	851585	196.68	ug/L		95
51) Dibromochloromethane	9.670	129	538481	221.42	ug/L		86
52) 1,2-Dibromoethane	9.782	107	471409	204.88	ug/L		100
53) Chlorobenzene	10.325	112	1480581	197.03	ug/L		98
54) 1,1,1,2-Tetrachloroethane	10.422	131	567486	208.33	ug/L		99
55) Ethylbenzene	10.452	91	2828870	210.14	ug/L		96
56) m,p-Xylene	10.572	91	4484381	417.85	ug/L		98
57) o-Xylene	10.938	91	2331028	215.72	ug/L		97
58) Styrene	10.953	104	1633430	220.44	ug/L		96
59) Bromoform	11.110	173	370077	239.91	ug/L		94
62) Bromobenzene	11.507	156	644875	194.64	ug/L		97
63) 1,1,2,2-Tetrachloroethane	11.541	83	655424	192.38	ug/L		95
64) 1,2,3-Trichloropropane	11.563	75	537393	183.28	ug/L		99
65) Isopropylbenzene	11.268	105	2718236	206.47	ug/L		97
66) n-Propylbenzene	11.612	91	3319687	203.78	ug/L		96
67) trans-1,4-Dichloro-2-b...	11.586	124	78741	433.75	ug/L	#	34
68) 2-Chlorotoluene	11.672	91	2023367	191.19	ug/L		93
69) 4-Chlorotoluene	11.762	91	2377201	201.40	ug/L		97
70) 1,3,5-Trimethylbenzene	11.758	105	2189783	210.88	ug/L		99
71) tert-Butylbenzene	12.009	119	1695142	197.02	ug/L		99
72) 1,2,4-Trimethylbenzene	12.046	105	2249306	212.40	ug/L		98
73) sec-Butylbenzene	12.173	105	2380461	210.42	ug/L		99
74) 1,3-Dichlorobenzene	12.252	146	1104830	194.25	ug/L		97
75) 4-Isopropyltoluene	12.286	119	1984579	212.60	ug/L		98
76) 1,4-Dichlorobenzene	12.252	146	1105805	194.31	ug/L		97
77) 1,2-Dichlorobenzene	12.592	146	1024286	195.42	ug/L		100
78) n-Butylbenzene	12.581	91	1753343	218.79	ug/L		100
79) 1,2-Dibromo-3-chloropr...	13.143	75	135797	219.42	ug/L		93
80) 1,2,4-Trichlorobenzene	13.689	180	480744	238.41	ug/L		97
81) Hexachlorobutadiene	13.797	225	222390	203.72	ug/L		88
82) Naphthalene	13.854	128	1229746	202.56	ug/L		100
83) 1,2,3-Trichlorobenzene	14.011	180	391822	221.40	ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103507.D
Acq On : 12 Jan 2022 5:12 pm
Operator : ORM
Sample : ICAL 8260 200 W (200uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 12 17:51:46 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:49:11 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103510.D
Acq On : 12 Jan 2022 6:25 pm
Operator : ORM
Sample : ICV 8260 20 W (20uL/50mL)
Misc : ICV 8260B_W
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 12 18:45:41 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.572	168	348628	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	6.605	114	558056	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.299	117	523161	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	12.304	152	272656	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	5.452	113	206002	50.64	ug/L		0.00
Spiked Amount 50.000	Range 79 - 121		Recovery = 101.28%				
43) Toluene-d8	8.562	98	755937	49.37	ug/L		0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 98.74%				
60) 4-Bromofluorobenzene	11.395	95	316797	49.52	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 99.04%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.190	85	85562	19.66	ug/L		100
3) Chloromethane	1.328	50	82549	22.13	ug/L		97
4) Vinyl chloride	1.415	62	67162	19.84	ug/L		96
5) Bromomethane	1.673	94	34426	14.32	ug/L		98
6) Chloroethane	1.740	64	37419	19.31	ug/L		95
7) Trichlorofluoromethane	1.946	101	104987	19.27	ug/L		97
8) Acrolein	2.305	56	7362	17.98	ug/L		84
9) 1,1-Dichloroethene	2.380	96	42466	19.89	ug/L		99
10) Freon-113	2.406	101	46381	18.23	µg/L		92
11) Acetone	2.455	58	8108	36.03	ug/L		93
12) Iodomethane	2.530	142	147044	37.29	ug/L		94
13) Carbon disulfide	2.590	76	281380	37.59	ug/L		100
14) Methyl acetate	2.792	43	40783	18.38	µg/L		94
15) Vinyl acetate	3.854	43	220150	36.27	ug/L		96
16) Methylene chloride	2.885	84	60341	20.07	ug/L		80
17) Acrylonitrile	3.192	53	18407	19.02	ug/L		93
18) Methyl tert-butyl ether	3.200	73	158629	18.82	µg/L		92
19) trans-1,2-Dichloroethene	3.192	96	45597	18.66	ug/L		92
20) 1,1-Dichloroethane	3.746	63	101639	18.55	ug/L		96
21) 2,2-Dichloropropane	4.637	77	55799	16.96	ug/L		93
22) cis-1,2-Dichloroethene	4.663	96	49503	18.91	ug/L		96
23) 2-Butanone	4.734	72	7602	32.68	ug/L		61
24) Bromochloromethane	5.048	128	23202	18.85	ug/L	#	63
25) Chloroform	5.205	83	102279	18.55	ug/L		97
26) Cyclohexane	5.494	56	90462	19.79	µg/L		98
27) 1,1,1-Trichloroethane	5.434	97	91340	18.59	ug/L		98
30) 1,1-Dichloropropene	5.696	110	22296	18.98	ug/L		79
31) Carbon tetrachloride	5.673	119	70744	18.65	ug/L		93
32) Benzene	5.995	78	201789	19.34	ug/L		98
33) 1,2-Dichloroethane	6.051	62	88365	18.87	ug/L	#	94
34) Trichloroethene	6.934	130	46942	19.28	ug/L		95
35) Methylcyclohexane	7.159	55	61249	18.47	µg/L		95
36) 1,2-Dichloropropane	7.245	63	54520	18.43	ug/L		99
37) Dibromomethane	7.398	93	31744	19.24	ug/L		89
38) 1,4-Dioxane	7.473	88	1654m	248.74	µg/L		
39) Bromodichloromethane	7.642	83	71975	18.54	ug/L		100
40) 2-Chloroethyl vinyl ether	8.094	63	56880	37.23	µg/L		95
41) cis-1,3-Dichloropropene	8.244	75	81837	18.68	ug/L		95
42) 4-Methyl-2-pentanone	8.484	43	102550	37.56	ug/L	#	93
44) Toluene	8.648	92	123643	19.21	ug/L		100
45) trans-1,3-Dichloropropene	8.985	75	72977	18.45	ug/L		95
46) 1,1,2-Trichloroethane	9.202	83	37209	18.83	ug/L		92

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103510.D
Acq On : 12 Jan 2022 6:25 pm
Operator : ORM
Sample : ICV 8260 20 W (20uL/50mL)
Misc : ICV 8260B_W
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 12 18:45:41 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration

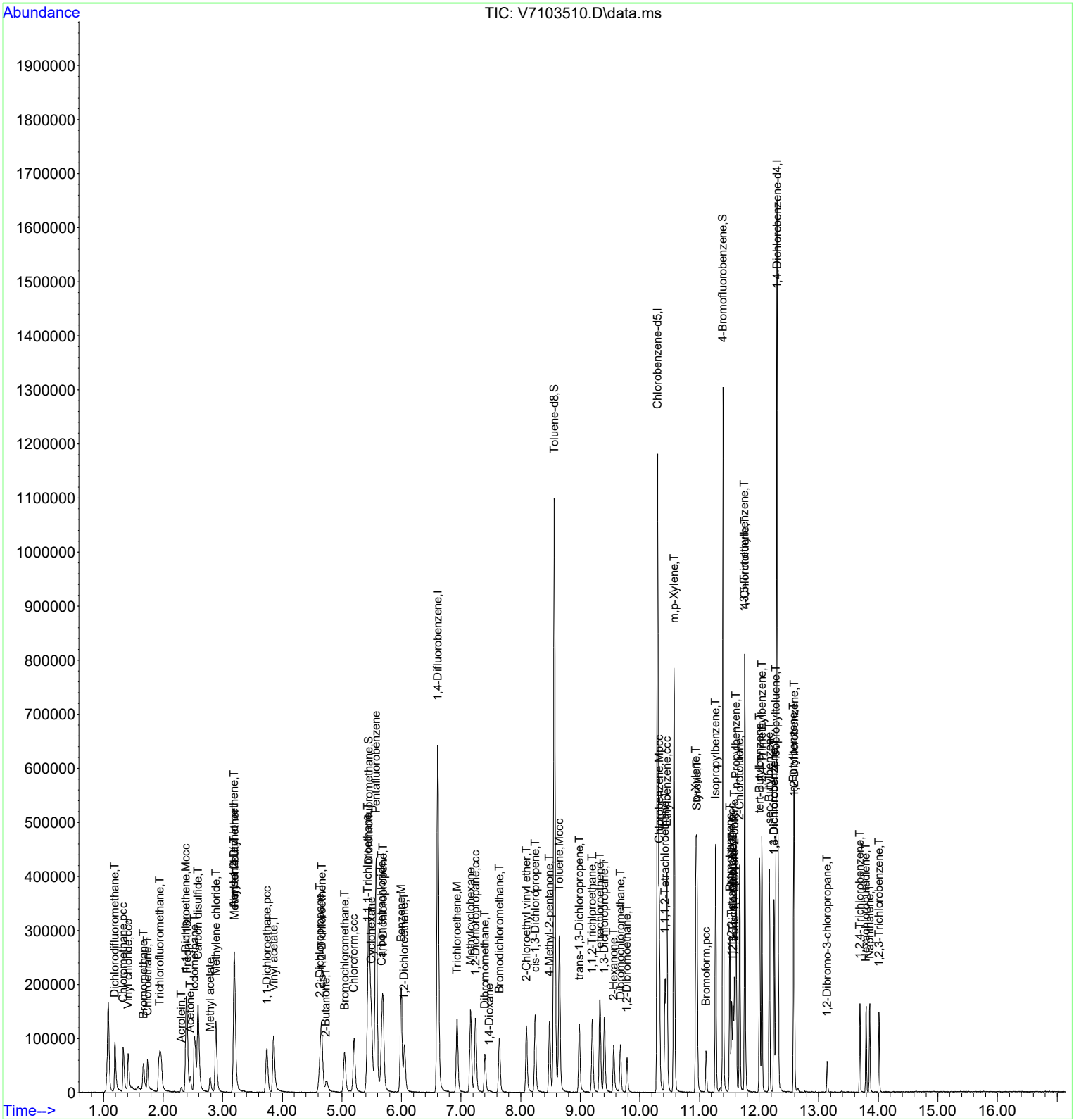
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) 2-Hexanone	9.561	43	68270	40.45 ug/L	95
49) Tetrachloroethene	9.326	166	50944	18.83 ug/L #	80
50) 1,3-Dichloropropane	9.400	76	77167	18.86 ug/L	96
51) Dibromochloromethane	9.674	129	41111	17.90 ug/L	83
52) 1,2-Dibromoethane	9.782	107	41468	19.07 ug/L	100
53) Chlorobenzene	10.325	112	132322	18.64 ug/L	99
54) 1,1,1,2-Tetrachloroethane	10.426	131	47209	18.34 ug/L	97
55) Ethylbenzene	10.452	91	243623	19.15 ug/L	95
56) m,p-Xylene	10.572	91	388348	38.31 ug/L	98
57) o-Xylene	10.939	91	197014	19.30 ug/L	100
58) Styrene	10.957	104	138501	19.78 ug/L	98
59) Bromoform	11.111	173	26702	18.32 ug/L #	90
62) Bromobenzene	11.511	156	54223	18.64 ug/L	95
63) 1,1,2,2-Tetrachloroethane	11.541	83	56517	18.89 ug/L	99
64) 1,2,3-Trichloropropane	11.567	75	49969	19.41 ug/L	93
65) Isopropylbenzene	11.272	105	224670	19.44 ug/L	100
66) n-Propylbenzene	11.612	91	275059	19.23 ug/L	98
67) trans-1,4-Dichloro-2-b...	11.590	124	5521	34.64 ug/L #	44
68) 2-Chlorotoluene	11.672	91	173257	18.64 ug/L	93
69) 4-Chlorotoluene	11.762	91	198883	19.18 ug/L	97
70) 1,3,5-Trimethylbenzene	11.758	105	179556	19.69 ug/L	97
71) tert-Butylbenzene	12.009	119	140443	18.89 ug/L	99
72) 1,2,4-Trimethylbenzene	12.046	105	181779	19.55 ug/L	98
73) sec-Butylbenzene	12.173	105	194336	19.56 ug/L	98
74) 1,3-Dichlorobenzene	12.252	146	90658	18.15 ug/L	96
75) 4-Isopropyltoluene	12.286	119	157864	19.26 ug/L	99
76) 1,4-Dichlorobenzene	12.252	146	90658	18.14 ug/L	96
77) 1,2-Dichlorobenzene	12.593	146	87816	19.08 ug/L	98
78) n-Butylbenzene	12.581	91	133010	18.90 ug/L	99
79) 1,2-Dibromo-3-chloropr...	13.143	75	10014	18.43 ug/L	95
80) 1,2,4-Trichlorobenzene	13.693	180	33159	18.73 ug/L	93
81) Hexachlorobutadiene	13.798	225	20731	21.99 ug/L	88
82) Naphthalene	13.858	128	80075	17.08 ug/L	100
83) 1,2,3-Trichlorobenzene	14.011	180	28398	18.27 ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103510.D
Acq On : 12 Jan 2022 6:25 pm
Operator : ORM
Sample : ICV 8260 20 W (20uL/50mL)
Misc : ICV 8260B_W
ALS Vial : 19 Sample Multiplier: 1

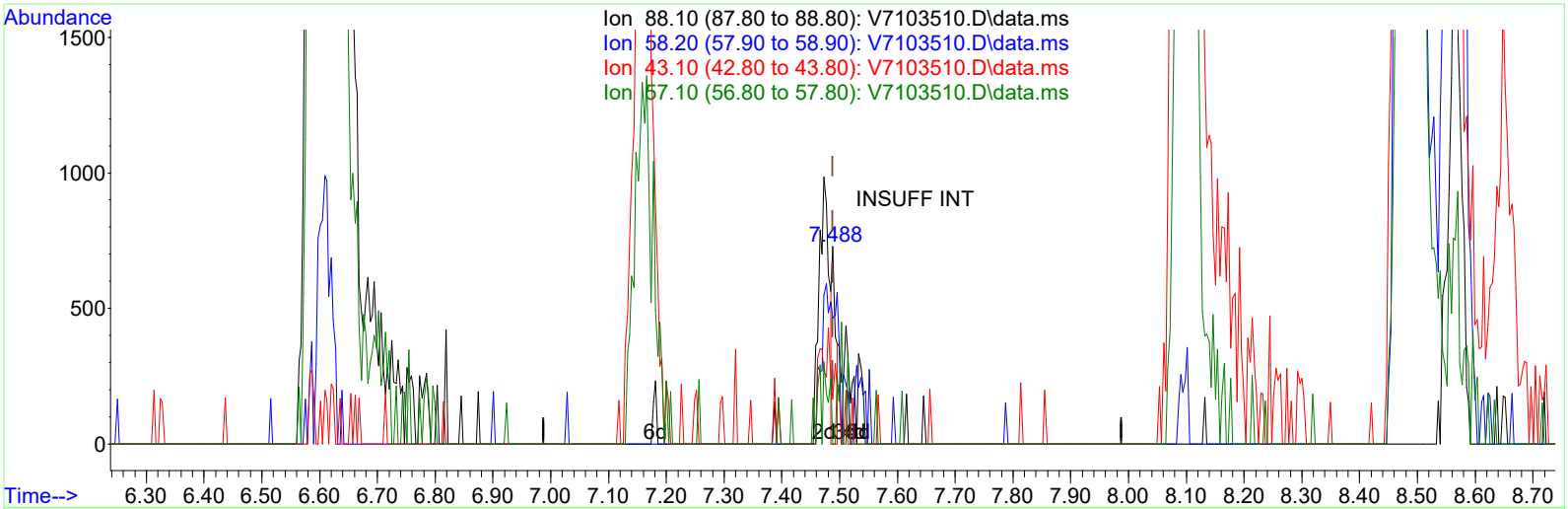
Quant Time: Jan 12 18:45:41 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration

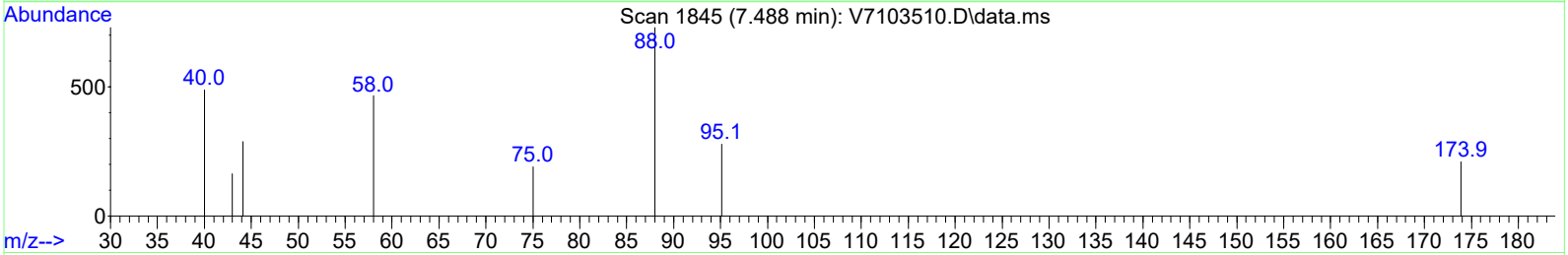


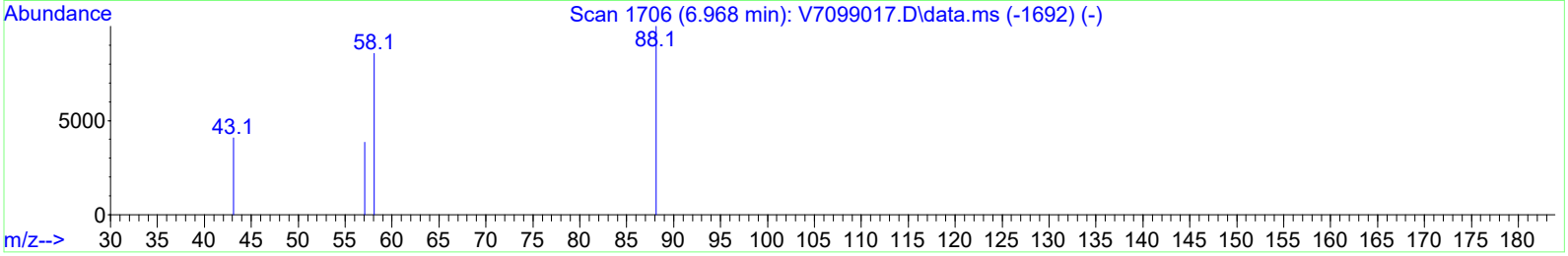
Quantitation Report (Qedit)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103510.D
Acq On : 12 Jan 2022 6:25 pm
Operator : ORM
Sample : ICV 8260 20 W (20uL/50mL)
Misc : ICV 8260B_W
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 12 18:44:56 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration







TIC: V7103510.D\data.ms

(38) 1,4-Dioxane

7.488min (+ 0.000) 2.51 µg/L

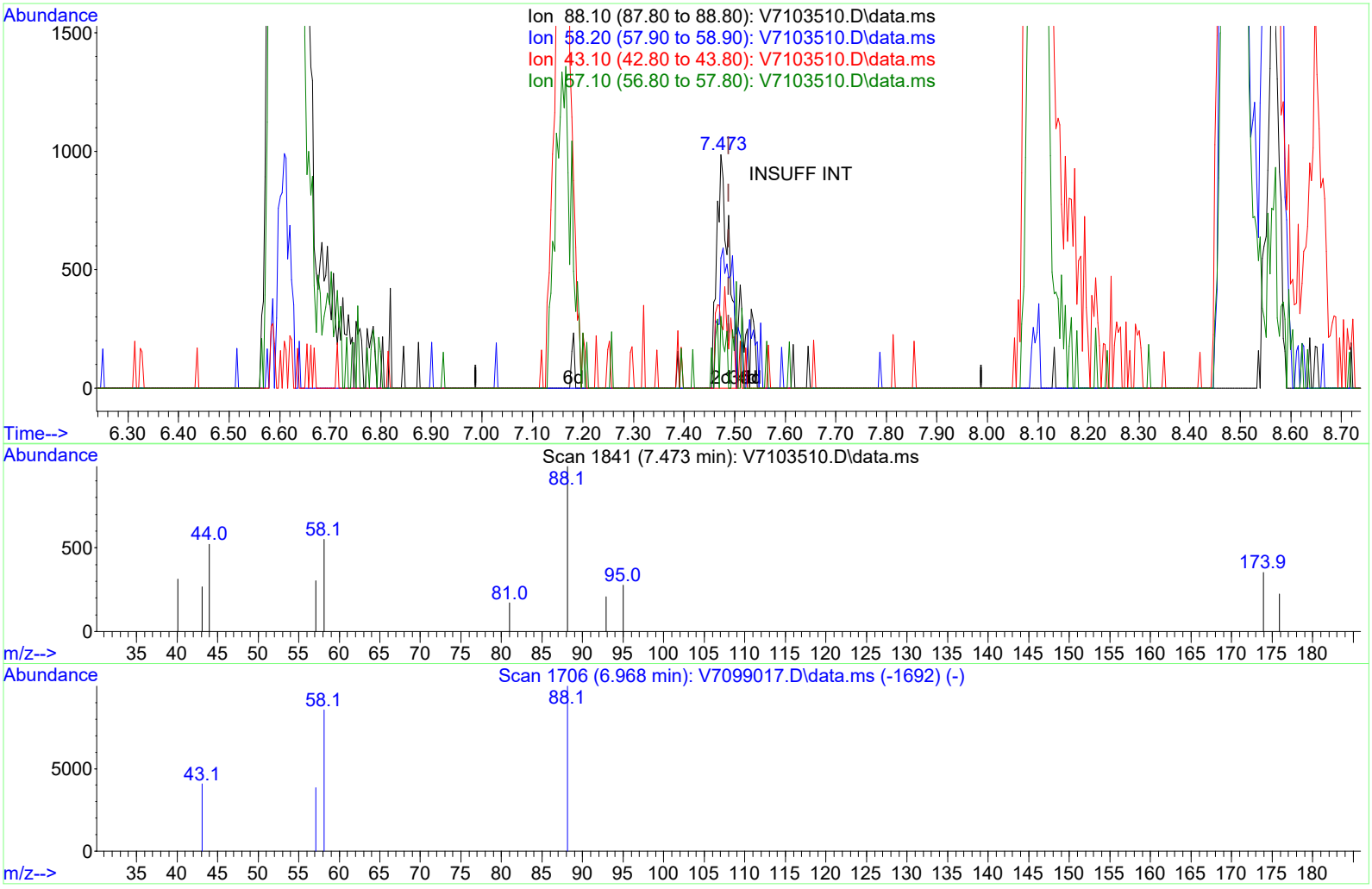
response 335

Ion	Exp%	Act%
88.10	100.00	100.00
58.20	70.10	0.00#
43.10	39.10	220.00#
57.10	16.90	58.81#

Quantitation Report (Qedit)

Data Path : C:\MS-7\New\Raw Data\220112\
Data File : V7103510.D
Acq On : 12 Jan 2022 6:25 pm
Operator : ORM
Sample : ICV 8260 20 W (20uL/50mL)
Misc : ICV 8260B_W
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 12 18:44:56 2022
Quant Method : C:\MS-7\New\Calculation Methods\MS-7_VW011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 17:55:12 2022
Response via : Initial Calibration



TIC: V7103510.D\data.ms

(38) 1,4-Dioxane

7.473min (-0.015) 248.74 µg/L m

response 1654

Ion	Exp%	Act%
88.10	100.00	100.00
58.20	70.10	0.00#
43.10	39.10	44.56
57.10	16.90	11.91#

Injection Log

Directory: C:\MS-13\New\Raw data\220112

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	V13971463.D	1.	BLANK	BLANK	12 Jan 2022 06:40
2	2	V13971464.D	1.	BLANK	BLANK	12 Jan 2022 07:02
3	3	V13971465.D	1.	ICAL 8260 0.5 W (0.5uL/50mL)	ICAL 8260B_W	12 Jan 2022 07:24
4	4	V13971466.D	1.	BLANK	BLANK	12 Jan 2022 07:46
5	5	V13971467.D	1.	ICAL 8260 0.5 W (0.5uL/50mL)	ICAL 8260B_W	12 Jan 2022 08:08
6	6	V13971468.D	1.	ICAL 8260 0.5 W (0.5uL/50mL)	ICAL 8260B_W	12 Jan 2022 08:30
7	7	V13971469.D	1.	ICAL 8260 001 W (1uL/50mL)	ICAL 8260B_W	12 Jan 2022 08:52
8	8	V13971470.D	1.	ICAL 8260 002 W (2uL/50mL)	ICAL 8260B_W	12 Jan 2022 09:14
9	9	V13971471.D	1.	BLANK	BLANK	12 Jan 2022 09:44
10	10	V13971472.D	1.	ICAL 8260	ICAL 8260B_W	12 Jan 2022 10:06
11	11	V13971473.D	1.	ICAL 8260 001 W (1uL/50mL)	ICAL 8260B_W	12 Jan 2022 10:28
12	12	V13971474.D	1.	ICAL 8260 002 W (2uL/50mL)	ICAL 8260B_W	12 Jan 2022 10:50
13	13	V13971475.D	1.	ICAL 8260 005 W (5uL/50mL)	ICAL 8260B_W	12 Jan 2022 11:12
14	14	V13971476.D	1.	ICAL 8260 010 W (10uL/50mL)	ICAL 8260B_W	12 Jan 2022 11:34
15	15	V13971477.D	1.	ICAL 8260 020 W (20uL/50mL)	ICAL 8260B_W	12 Jan 2022 11:55
16	16	V13971478.D	1.	ICAL 8260 050 W (50uL/50mL)	ICAL 8260B_W	12 Jan 2022 12:17
17	17	V13971479.D	1.	BLANK	BLANK	12 Jan 2022 12:39
18	18	V13971480.D	1.	ICAL 8260 100 W (100uL/50mL)	ICAL 8260B_W	12 Jan 2022 13:01
19	19	V13971481.D	1.	BLANK	BLANK	12 Jan 2022 13:23
20	20	V13971482.D	1.	ICAL 8260 150 W (150uL/50mL)	ICAL 8260B_W	12 Jan 2022 13:45
21	21	V13971483.D	1.	BLANK	BLANK	12 Jan 2022 14:07
22	22	V13971484.D	1.	ICAL 8260 200 W (200uL/50mL)	ICAL 8260B_W	12 Jan 2022 14:29
23	23	V13971485.D	1.	BLANK	BLANK	12 Jan 2022 14:51
24	24	V13971486.D	1.	BLANK	BLANK	12 Jan 2022 15:13
25	25	V13971487.D	1.	ICV 8260 020 W (20uL/50mL)	ICV 8260B_W/624.1	12 Jan 2022 15:35

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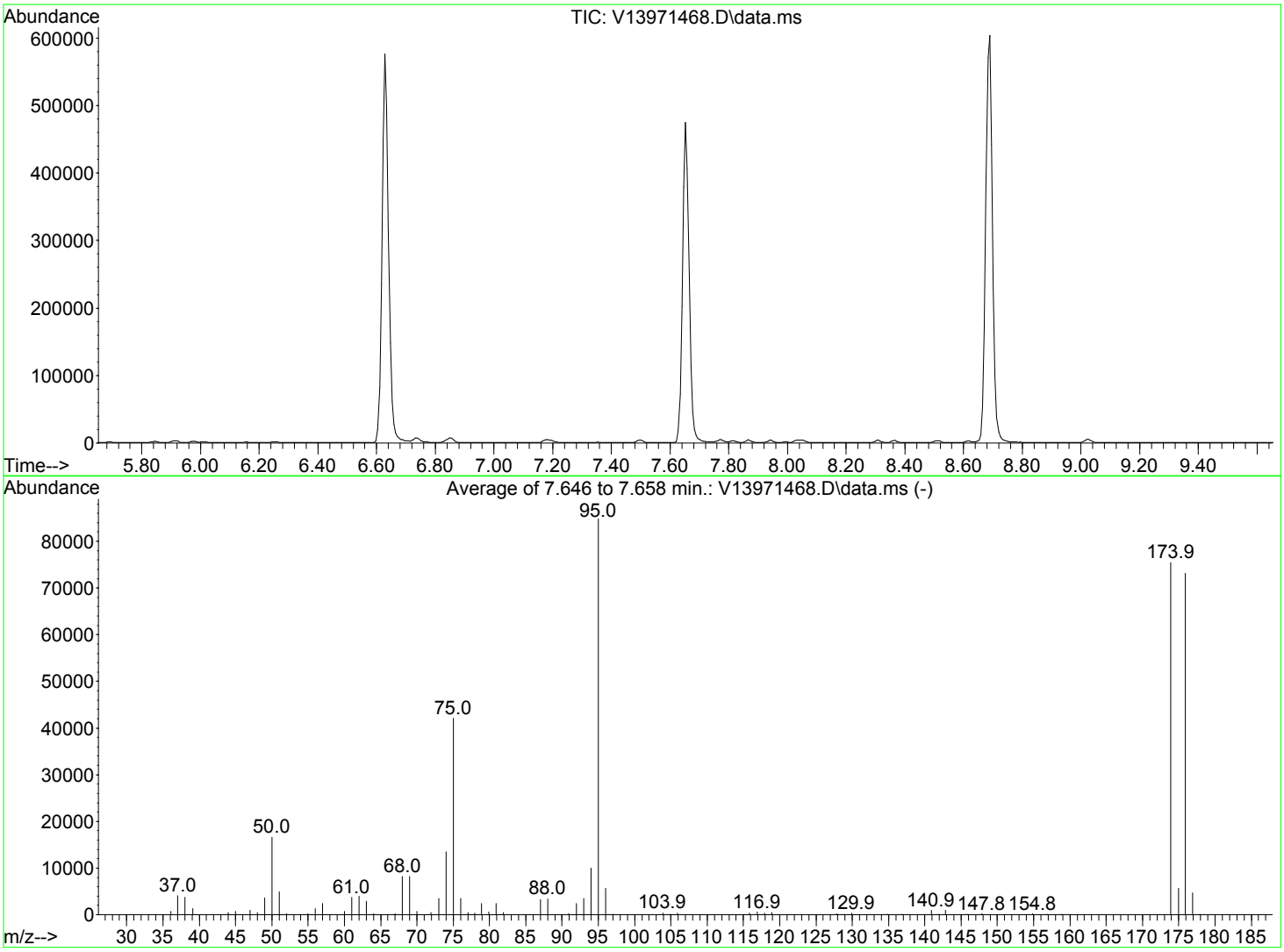
BFB

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971468.D
Acq On : 12 Jan 2022 8:30 am
Operator : ORM
Sample : ICAL 8260 0.5 W (0.5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Title : 8260D/624.1 Purgeable organics calibration.
Last Update : Wed Jan 12 15:26:28 2022



AutoFind: Scans 1159, 1160, 1161; Background Corrected with Scan 1152

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.6	16622	PASS
75	95	30	60	49.6	42053	PASS
95	95	100	100	100.0	84784	PASS
96	95	5	9	6.6	5635	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	89.0	75483	PASS
175	174	5	9	7.5	5650	PASS
176	174	95	101	96.9	73112	PASS
177	176	5	9	6.5	4754	PASS

Response Factor Report MS-13

Method Path : C:\MS-13\New\Calculation Methods\
Method File : MS-13_VW_LOW_011222.M
Title : 8260D/624.1 Purgeable organics calibration.
Last Update : Wed Jan 12 16:08:19 2022
Response Via : Initial Calibration

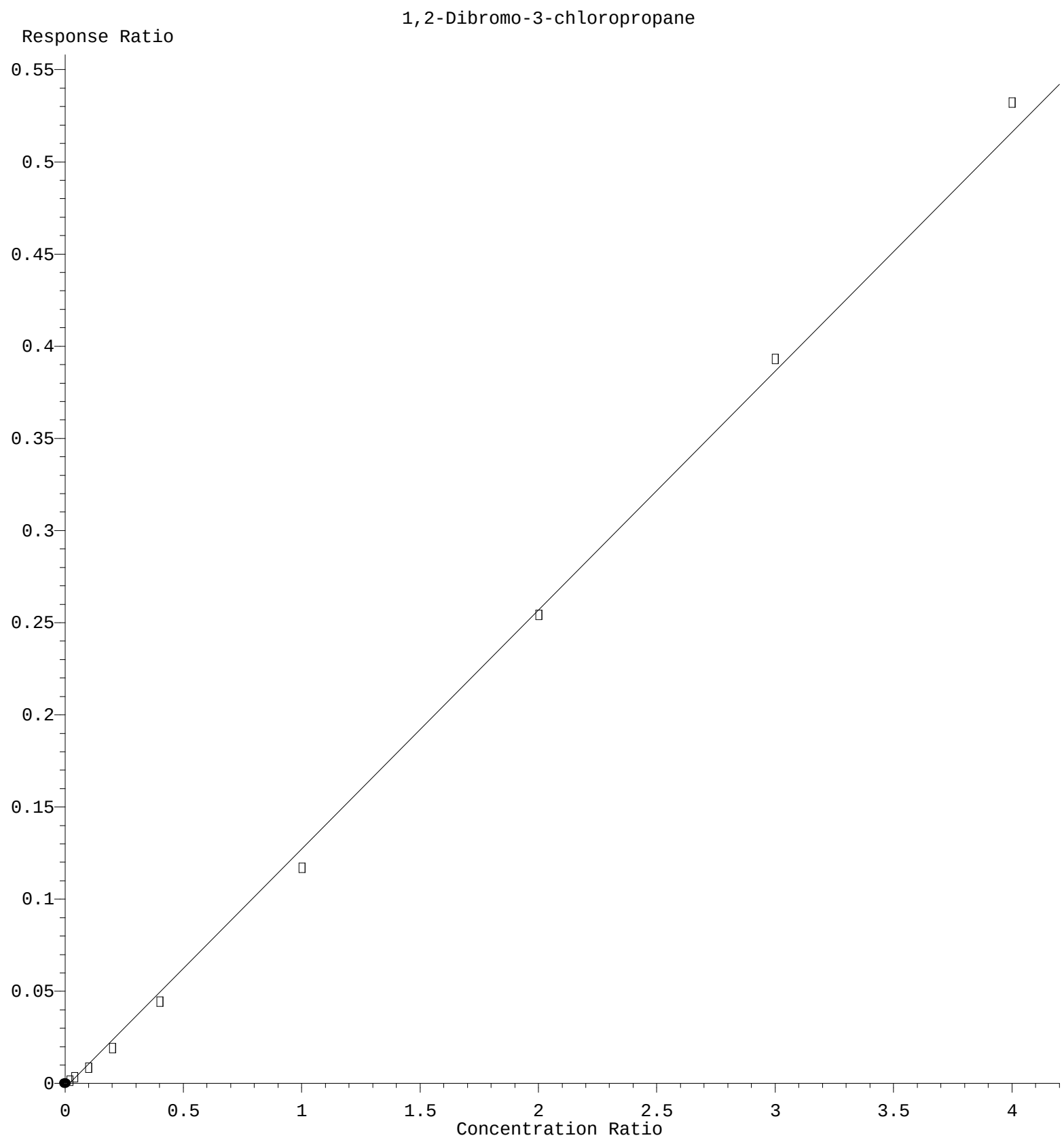
Calibration Files
1 =V13971469.D 2 =V13971474.D 5 =V13971475.D 10 =V13971476.D 20 =V13971477.D 50 =V13971478.D 100 =V13971480.D
150 =V13971482.D 200 =V13971484.D 0.5 =V13971468.D

		Compound	1	2	5	10	20	50	100	150	200	0.5	Avg	%RSD
1)		Pentafluorobenzene	----------ISTD----------											
2)	T	Dichlorodifluo...	0.410	0.422	0.457	0.427	0.424	0.477	0.412	0.462	0.468	0.455	0.441	5.61
3)	pcc	Chloromethane	0.313	0.293	0.305	0.302	0.288	0.302	0.287	0.297	0.302	0.326	0.301	3.87
4)	ccc	Vinyl chloride	0.300	0.273	0.295	0.272	0.272	0.302	0.267	0.285	0.285	0.352	0.290	8.63
5)	T	Bromomethane	0.234	0.237	0.218	0.171	0.179	0.186	0.155	0.151	0.155		0.187	18.14
6)	T	Chloroethane	0.159	0.131	0.161	0.148	0.143	0.152	0.121	0.125		0.191	0.148	14.53
7)	T	Trichlorofluor...	0.428	0.425	0.495	0.473	0.476	0.506	0.433	0.463	0.458	0.543	0.470	7.96
8)	T	Acrolein			0.044	0.047	0.046	0.044	0.046	0.042	0.042		0.045	4.45
9)	ccc	1,1-Dichloroet...	0.328	0.252	0.227	0.328	0.336	0.309				0.212	0.284	18.51
10)		Freon-113	0.334	0.297	0.257	0.342	0.338	0.353	0.239	0.300	0.248	0.303	0.301	13.79
11)	T	Acetone			0.039	0.055	0.053	0.043	0.033	0.042	0.035		0.043	19.51
12)	T	Iodomethane	0.633	0.652	0.647	0.607	0.648	0.704	0.615	0.621	0.624	0.707	0.646	5.40
13)	T	Carbon disulfide	1.006	0.995	1.011	0.986	1.007	1.104	0.948	0.963	0.983	1.086	1.009	4.91
14)		Methyl acetate	0.386	0.401	0.408	0.391	0.380	0.363	0.385	0.394	0.393	0.447	0.395	5.58
15)	T	Vinyl acetate	0.602	0.686	0.672	0.687	0.770	0.828	0.921	0.869	0.868	0.701	0.760	13.96
16)	T	Methylene chlo...	1.004	0.693	0.478	0.429	0.405	0.411	0.376	0.373	0.379		0.505	41.97
17)	T	Acrylonitrile			0.186	0.200	0.192	0.197	0.207	0.206	0.205		0.199	3.93
18)		Methyl tert-bu...	0.963	0.983	0.999	1.018	1.083	1.124	1.099	1.069	1.086	1.097	1.052	5.34
19)	T	trans-1,2-Dich...	0.326	0.380	0.357	0.368	0.377	0.394	0.364	0.369	0.365	0.328	0.363	5.91
20)	pcc	1,1-Dichloroet...	0.659	0.702	0.683	0.694	0.713	0.748	0.688	0.689	0.675	0.704	0.695	3.46
21)	T	2,2-Dichloropr...	0.312	0.292	0.274	0.278	0.294	0.343	0.277	0.291	0.304	0.281	0.295	7.14
22)	T	cis-1,2-Dichlo...	0.337	0.394	0.391	0.387	0.407	0.426	0.403	0.410	0.411	0.379	0.395	6.18
23)	T	2-Butanone			0.050	0.052	0.057	0.054	0.062	0.061	0.060		0.056	8.33
24)	T	Bromochloromet...	0.165	0.203	0.206	0.206	0.222	0.224	0.214	0.216	0.221	0.187	0.206	8.82
25)	ccc	Chloroform	0.641	0.689	0.692	0.659	0.679	0.710	0.656	0.662	0.668	0.740	0.679	4.32
26)		Cyclohexane	0.571	0.618	0.582	0.643	0.646	0.640	0.573	0.591	0.598	0.624	0.609	4.82
27)	T	1,1,1-Trichlor...	0.551	0.525	0.540	0.537	0.546	0.578	0.533	0.568	0.573	0.568	0.552	3.39
28)	I	1,4-Difluorobenzene	----------ISTD----------											
29)	S	Dibromofluorom...	0.305	0.308	0.308	0.310	0.311	0.316	0.304	0.297	0.297	0.307	0.306	1.89
30)	T	1,1-Dichloropr...	0.130	0.122	0.116	0.123	0.124	0.124	0.117	0.120	0.119	0.117	0.121	3.44
31)	T	Carbon tetrach...	0.259	0.260	0.252	0.265	0.277	0.292	0.280	0.292	0.293	0.284	0.275	5.57
32)	T	Benzene	0.877	0.963	0.922	0.929	0.975	0.960	0.929	0.927	0.919	0.955	0.935	3.05
33)	T	1,2-Dichloroet...	0.327	0.317	0.304	0.307	0.338	0.322				0.350	0.324	5.05
34)	M	Trichloroethene	0.251	0.253	0.260	0.267	0.270	0.271	0.264	0.274	0.274	0.282	0.267	3.64
35)		Methylcyclohexane	0.291	0.299	0.301	0.307	0.311	0.318	0.299	0.303	0.301	0.310	0.304	2.56
36)	ccc	1,2-Dichloropr...	0.222	0.241	0.238	0.239	0.254	0.244	0.246	0.242	0.241	0.240	0.241	3.28
37)	T	Dibromomethane	0.132	0.148	0.149	0.146	0.155	0.150	0.153	0.150	0.153	0.142	0.148	4.48
38)		1,4-Dioxane			0.002	0.002	0.002	0.001	0.002	0.002	0.002		0.002	14.72
39)	T	Bromodichlorom...	0.275	0.289	0.280	0.285	0.312	0.309	0.310	0.310	0.317	0.264	0.295	6.30
40)	T	2-Chloroethyl ...	0.120	0.133	0.141	0.149	0.170	0.159				0.106	0.140	15.90
41)	T	cis-1,3-Dichlo...	0.274	0.293	0.299	0.314	0.352	0.365	0.382	0.384	0.391	0.288	0.334	13.58

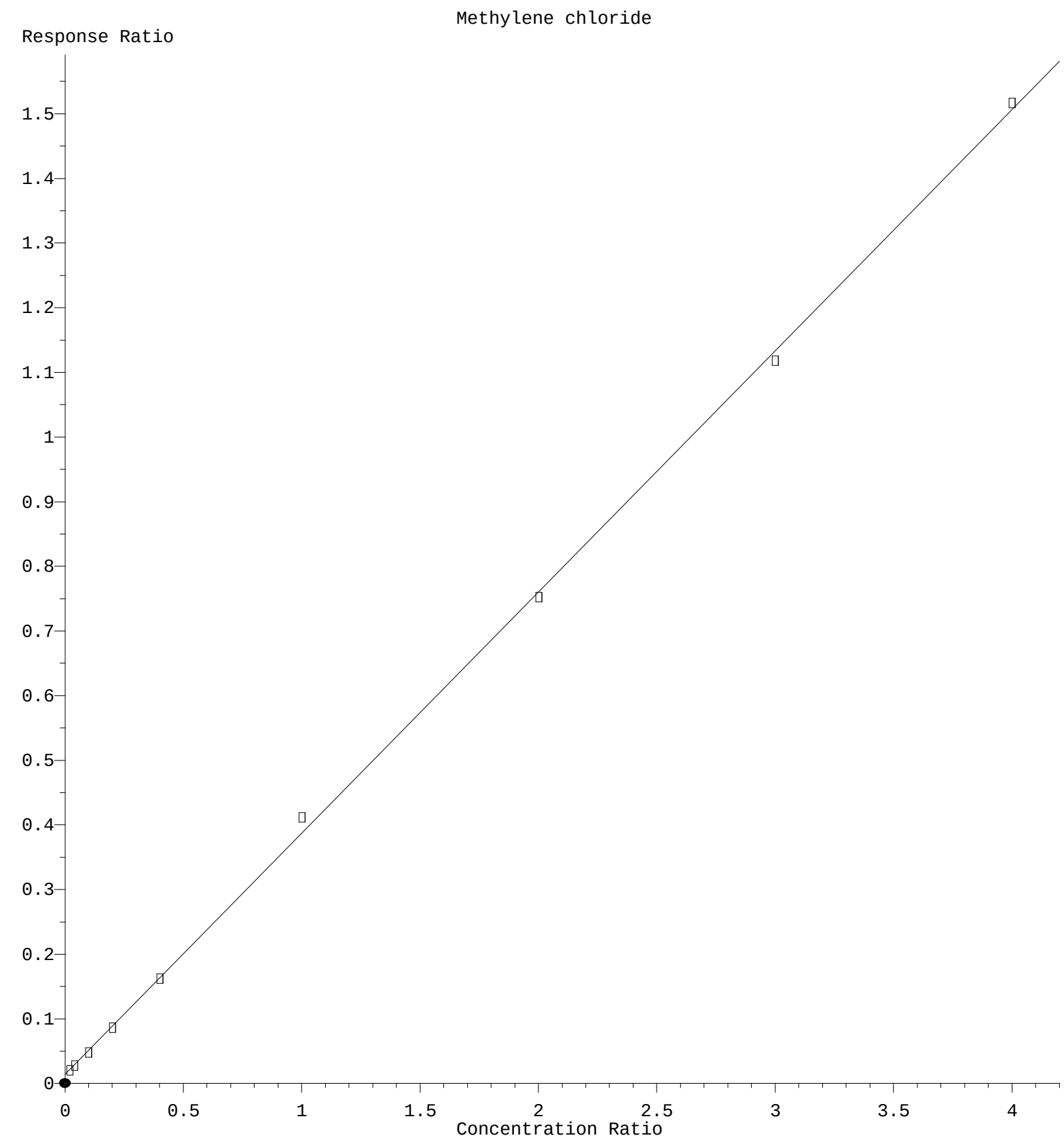
Method Path : C:\MS-13\New\Calculation Methods\
Method File : MS-13_VW_LOW_011222.M
Title : 8260D/624.1 Purgeable organics calibration.

42)	T	4-Methyl-2-pen...	0.088	0.096	0.103	0.107	0.118	0.110	0.123	0.121	0.120	0.089	0.107	12.38
43)	S	Toluene-d8	1.177	1.187	1.192	1.191	1.198	1.185	1.186	1.183	1.187	1.178	1.186	0.52
44)	ccc	Toluene	0.565	0.593	0.595	0.584	0.613	0.596	0.593	0.597	0.591	0.610	0.594	2.25
45)	T	trans-1,3-Dich...	0.274	0.293	0.299	0.314	0.352	0.365	0.382	0.384	0.391	0.288	0.334	13.58
46)	T	1,1,2-Trichlor...	0.151	0.166	0.165	0.168	0.182	0.173	0.180	0.179	0.182	0.151	0.170	7.01
47)	I	Chlorobenzene-d5	----------ISTD----------											
48)	T	2-Hexanone	0.157	0.186	0.211	0.226	0.229	0.205	0.231	0.226	0.213	0.149	0.203	14.68
49)	T	Tetrachloroethene	0.272	0.269	0.269	0.278	0.280	0.275	0.274	0.281	0.279	0.292	0.277	2.53
50)	T	1,3-Dichloropr...	0.332	0.353	0.351	0.358	0.379	0.353	0.374	0.364	0.360	0.339	0.356	4.03
51)	T	Dibromochlorom...	0.187	0.211	0.209	0.216	0.239	0.236	0.249	0.252	0.255	0.201	0.225	10.51
52)	T	1,2-Dibromoethane	0.167	0.201	0.215	0.218	0.232	0.221	0.236	0.234	0.239	0.177	0.214	11.67
53)	pcc	Chlorobenzene	0.666	0.677	0.685	0.675	0.713	0.684	0.685	0.682	0.682	0.736	0.689	2.99
54)	T	1,1,1,2-Tetrac...	0.189	0.193	0.199	0.204	0.229	0.226	0.232	0.229	0.229	0.186	0.212	8.97
55)	ccc	Ethylbenzene	1.019	1.067	1.064	1.105	1.160	1.121	1.082	1.066	1.039	1.032	1.076	4.00
56)	T	m,p-Xylene	0.759	0.818	0.838	0.874	0.892	0.860	0.823	0.807	0.788	0.789	0.825	5.05
57)	T	o-Xylene	0.775	0.812	0.824	0.857	0.921	0.905	0.876	0.864	0.859	0.753	0.845	6.33
58)	T	Styrene	0.567	0.591	0.660	0.690	0.752	0.745	0.721	0.705	0.696	0.551	0.668	10.97
59)	pcc	Bromoform	0.125	0.141	0.133	0.147	0.162	0.167	0.180	0.184	0.189	0.131	0.156	15.17
60)	S	4-Bromofluorob...	0.492	0.495	0.505	0.496	0.492	0.498	0.487	0.491	0.489	0.486	0.493	1.15
61)	I	1,4-Dichlorobenzen...	----------ISTD----------											
62)	T	Bromobenzene	0.459	0.481	0.489	0.502	0.519	0.513	0.561	0.542	0.553	0.539	0.516	6.47
63)	pcc	1,1,2,2-Tetrac...	0.490	0.523	0.531	0.537	0.546	0.529	0.588	0.560	0.559	0.555	0.542	4.86
64)	T	1,2,3-Trichlor...	0.617	0.653	0.616	0.670	0.771	0.750	0.913	0.893	0.893	0.784	0.756	15.29
65)	T	Isopropylbenzene	1.614	1.649	1.778	1.935	1.987	1.985	2.082	2.074	2.053	1.749	1.891	9.40
66)	T	n-Propylbenzene	1.190	1.291	1.307	1.319	1.336	1.298	1.379	1.352	1.352	1.366	1.319	4.10
67)	T	trans-1,4-Dich...			0.014	0.021	0.030	0.034	0.043	0.044	0.044		0.033	36.02
68)	T	2-Chlorotoluene	1.190	1.291	1.307	1.319	1.336	1.298	1.379	1.352	1.352	1.366	1.319	4.10
69)	T	4-Chlorotoluene	1.282	1.445	1.473	1.475	1.513	1.484	1.532	1.482	1.479	1.480	1.464	4.66
70)	T	1,3,5-Trimethy...	1.236	1.354	1.430	1.499	1.587	1.593	1.612	1.588	1.579	1.310	1.479	9.28
71)	T	tert-Butylbenzene	1.093	1.196	1.226	1.270	1.364	1.388	1.395	1.419	1.427	1.046	1.282	10.80
72)	T	1,2,4-Trimethy...	1.165	1.340	1.465	1.503	1.615	1.595	1.613	1.595	1.606	1.213	1.471	11.73
73)	T	sec-Butylbenzene	1.423	1.688	1.685	1.772	1.872	1.927	1.921	1.932	1.951	1.522	1.769	10.53
74)	T	1,3-Dichlorobe...	0.794	0.852	0.854	0.869	0.920	0.926	0.959	0.956	0.967	0.768	0.886	7.93
75)	T	4-Isopropyltol...	1.187	1.375	1.400	1.508	1.634	1.652	1.627	1.626	1.652	1.276	1.494	11.58
76)	T	1,4-Dichlorobe...	0.880	0.888	0.839	0.881	0.924	0.906	0.910	0.924	0.939	0.962	0.905	3.85
77)	T	1,2-Dichlorobe...	0.734	0.794	0.783	0.803	0.869	0.881	0.894	0.875	0.884	0.806	0.832	6.61
78)	T	n-Butylbenzene	0.989	1.060	1.081	1.141	1.297	1.342	1.326	1.314	1.337	0.947	1.184	13.21
79)	T	1,2-Dibromo-3-...	0.066	0.082	0.085	0.095	0.111	0.117	0.127	0.131	0.133		0.105	22.85
80)	T	1,2,4-Trichlor...	0.361	0.381	0.360	0.368	0.485	0.508	0.528	0.547	0.581		0.458	19.55
81)	T	Hexachlorobuta...	0.181	0.205	0.180	0.173	0.211	0.217	0.212	0.216	0.237	0.161	0.199	12.03
82)	T	Naphthalene	0.991	1.085	1.069	1.139	1.581	1.650	1.717	1.744	1.795		1.419	23.78
83)	T	1,2,3-Trichlor...	0.335	0.359	0.365	0.347	0.467	0.484	0.493	0.504		0.301	0.406	19.52

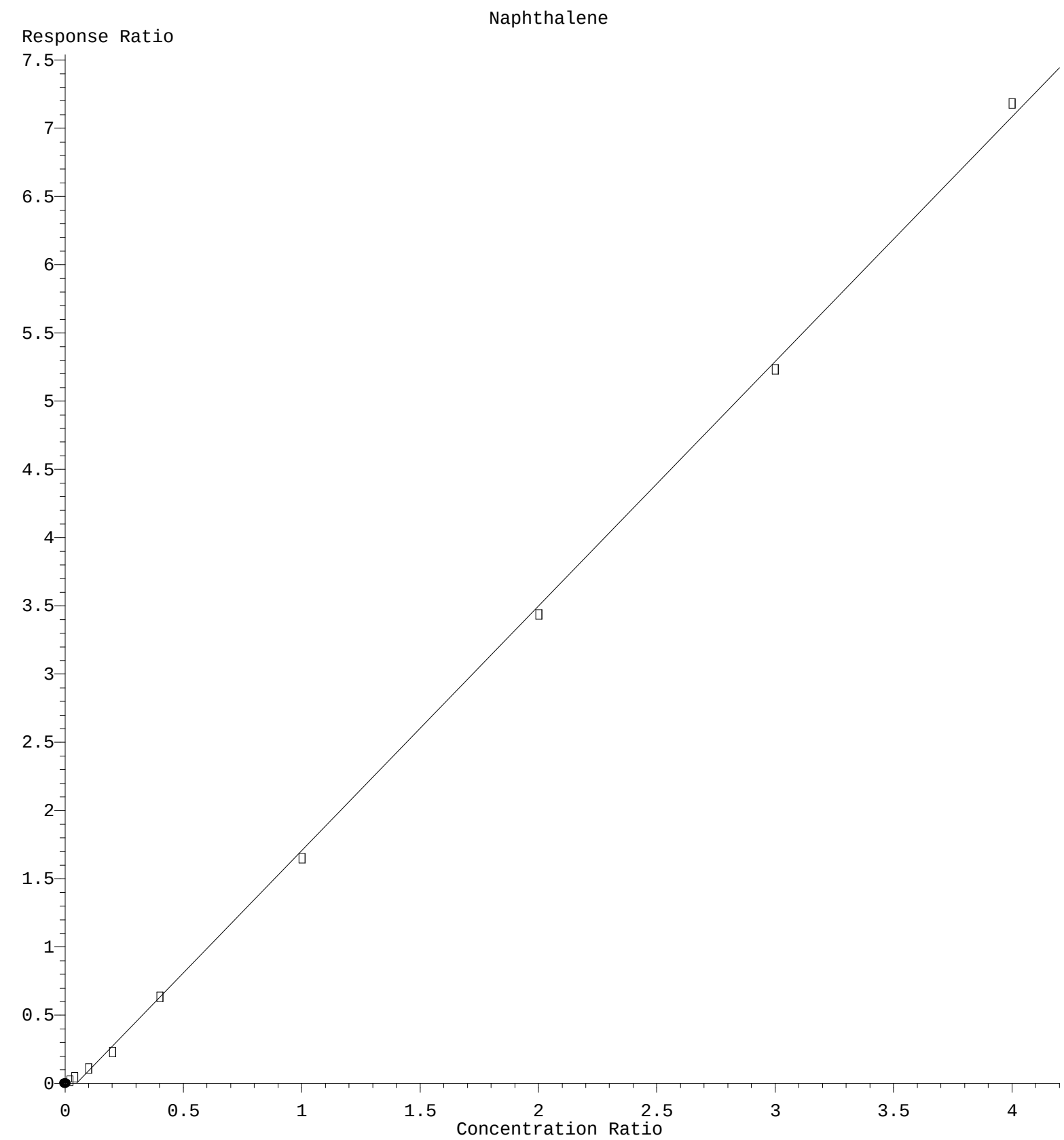
(#) = Out of Range



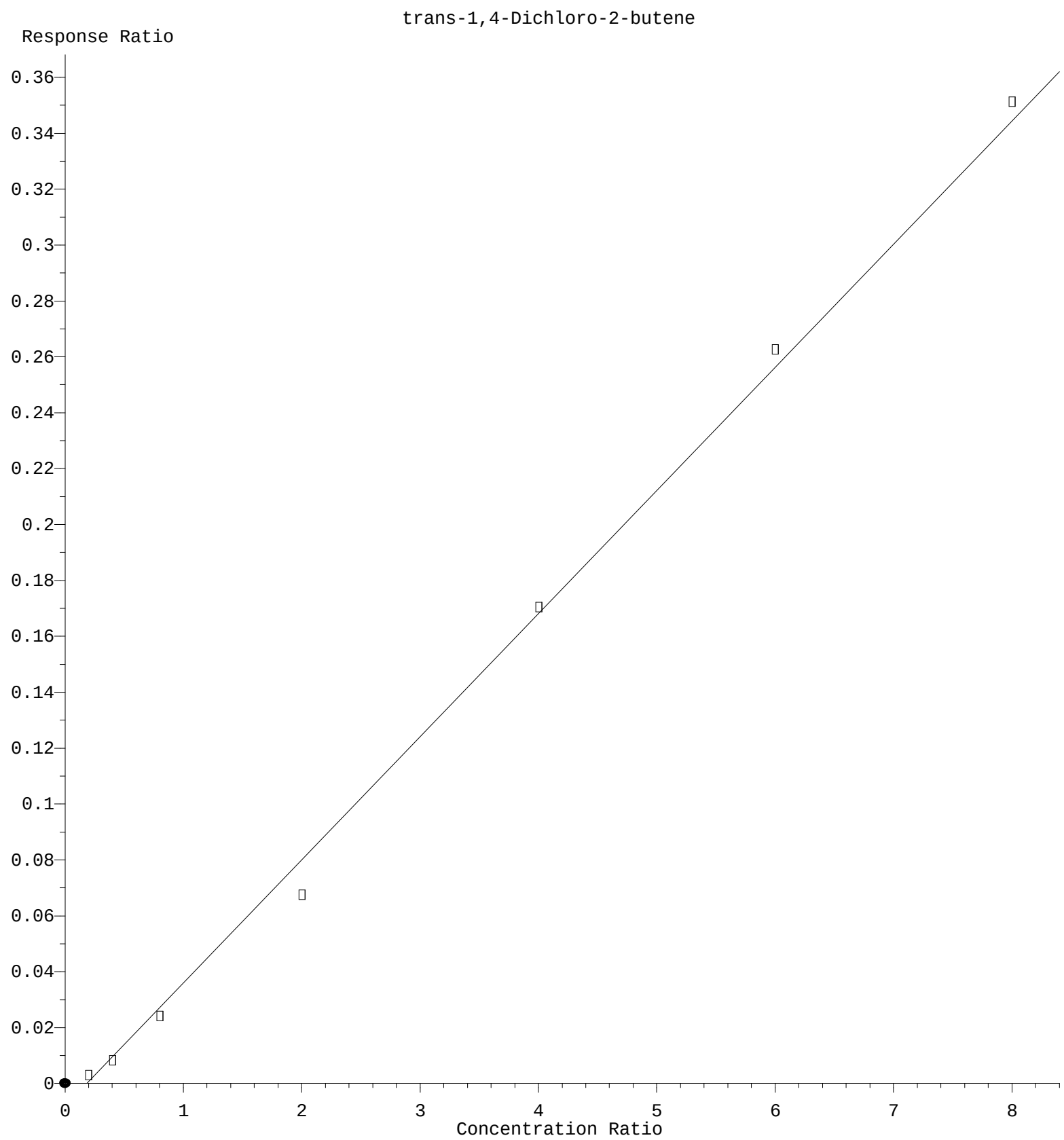
Response = 1.29e-001 * Amt - 2.30e-003
Coef of Det (r^2) = 0.997 Curve Fit: wlr(1/a)
Method Name: C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Calibration Table Last Updated: Wed Jan 12 15:26:28 2022



Response = 3.73e-001 * Amt + 1.41e-002
Coef of Det (r^2) = 1.000 Curve Fit: Linear
Method Name: C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Calibration Table Last Updated: Wed Jan 12 15:26:28 2022



Response = 1.79e+000 * Amt - 8.44e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear
Method Name: C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Calibration Table Last Updated: Wed Jan 12 15:26:28 2022



Response = 4.41e-002 * Amt - 8.13e-003
Coef of Det (r^2) = 0.996 Curve Fit: wlr(1/a)
Method Name: C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Calibration Table Last Updated: Wed Jan 12 15:26:28 2022

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971468.D
Acq On : 12 Jan 2022 8:30 am
Operator : ORM
Sample : ICAL 8260 0.5 W (0.5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 12 15:38:09 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	0.500	0.516	-3.2	100	0.00
3	pcc	Chloromethane	0.500	0.540	-8.0	100	0.00
4	ccc	Vinyl chloride	0.500	0.605	-21.0	100	0.00
5	T	Bromomethane	-1.000	0.745	0.0	71	0.00
6	T	Chloroethane	0.500	0.644	-28.8#	100	0.00
7	T	Trichlorofluoromethane	0.500	0.578	-15.6	100	0.00
8	T	Acrolein	-1.000	0.000	0.0	0	-2.09#
9	ccc	1,1-Dichloroethene	0.500	0.372	25.6#	100	0.00
10		Freon-113	0.500	0.503	-0.6	100	0.00
11	T	Acetone	-1.000	2.346	0.0	100	0.00
12	T	Iodomethane	1.000	1.095	-9.5	100	-0.02
13	T	Carbon disulfide	1.000	1.076	-7.6	100	0.00
14		Methyl acetate	0.500	0.566	-13.2	100	0.00
15	T	Vinyl acetate	1.000	0.922	7.8	100	0.00
16	T	Methylene chloride	-1.000	0.191	0.0	100	0.00
17	T	Acrylonitrile	-1.000	0.299	0.0	100	0.00
18		Methyl tert-butyl ether	0.500	0.521	-4.2	100	0.00
19	T	trans-1,2-Dichloroethene	0.500	0.452	9.6	100	0.00
20	pcc	1,1-Dichloroethane	0.500	0.506	-1.2	100	0.00
21	T	2,2-Dichloropropane	0.500	0.478	4.4	100	0.00
22	T	cis-1,2-Dichloroethene	0.500	0.480	4.0	100	0.00
23	T	2-Butanone	-1.000	2.765	0.0	100	0.20
24	T	Bromochloromethane	0.500	0.452	9.6	100	0.00
25	ccc	Chloroform	0.500	0.545	-9.0	100	0.00
26		Cyclohexane	0.500	0.513	-2.6	100	0.00
27	T	1,1,1-Trichloroethane	0.500	0.515	-3.0	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	50.078	-0.2	100	0.00
30	T	1,1-Dichloropropene	0.500	0.482	3.6	100	0.00
31	T	Carbon tetrachloride	0.500	0.516	-3.2	100	0.00
32	T	Benzene	0.500	0.510	-2.0	100	0.00
33	T	1,2-Dichloroethane	0.500	0.541	-8.2	100	0.00
34	M	Trichloroethene	0.500	0.529	-5.8	100	0.00
35		Methylcyclohexane	0.500	0.509	-1.8	100	0.00
36	ccc	1,2-Dichloropropane	0.500	0.499	0.2	100	0.00
37	T	Dibromomethane	0.500	0.482	3.6	100	0.00
38		1,4-Dioxane	-1.000	12.200	0.0	100	-0.32
39	T	Bromodichloromethane	0.500	0.448	10.4	100	0.00
40	T	2-Chloroethyl vinyl ether	1.000	0.757	24.3#	100	0.00
41	T	cis-1,3-Dichloropropene	0.500	0.430	14.0	100	0.00
42	T	4-Methyl-2-pentanone	1.000	0.825	17.5	100	0.00
43	S	Toluene-d8	50.000	49.645	0.7	100	0.00
44	ccc	Toluene	0.500	0.514	-2.8	100	0.00
45	T	trans-1,3-Dichloropropene	0.500	0.430	14.0	100	0.00
46	T	1,1,2-Trichloroethane	0.500	0.444	11.2	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	1.000	0.734	26.6#	100	0.00
49	T	Tetrachloroethene	0.500	0.528	-5.6	100	0.00
50	T	1,3-Dichloropropane	0.500	0.476	4.8	100	0.00
51	T	Dibromochloromethane	0.500	0.445	11.0	100	-0.24

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971468.D
Acq On : 12 Jan 2022 8:30 am
Operator : ORM
Sample : ICAL 8260 0.5 W (0.5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 12 15:38:09 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	0.500	0.415	17.0	100	0.00
53	pcc	Chlorobenzene	0.500	0.535	-7.0	100	0.00
54	T	1,1,1,2-Tetrachloroethane	0.500	0.440	12.0	100	0.00
55	ccc	Ethylbenzene	0.500	0.480	4.0	100	0.00
56	T	m,p-Xylene	1.000	0.957	4.3	100	0.00
57	T	o-Xylene	0.500	0.446	10.8	100	0.00
58	T	Styrene	0.500	0.413	17.4	100	0.00
59	pcc	Bromoform	0.500	0.421	15.8	100	0.00
60	S	4-Bromofluorobenzene	50.000	49.255	1.5	100	-0.01
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	-0.01
62	T	Bromobenzene	0.500	0.523	-4.6	100	-0.01
63	pcc	1,1,2,2-Tetrachloroethane	0.500	0.512	-2.4	100	-0.01
64	T	1,2,3-Trichloropropane	0.500	0.519	-3.8	100	-0.01
65	T	Isopropylbenzene	0.500	0.463	7.4	100	-0.01
66	T	n-Propylbenzene	0.500	0.518	-3.6	100	-0.01
67	T	trans-1,4-Dichloro-2-butene	-1.000	0.000	0.0	0	-7.82#
68	T	2-Chlorotoluene	0.500	0.518	-3.6	100	-0.01
69	T	4-Chlorotoluene	0.500	0.505	-1.0	100	0.00
70	T	1,3,5-Trimethylbenzene	0.500	0.443	11.4	100	0.00
71	T	tert-Butylbenzene	0.500	0.408	18.4	100	-0.02
72	T	1,2,4-Trimethylbenzene	0.500	0.412	17.6	100	-0.01
73	T	sec-Butylbenzene	0.500	0.430	14.0	100	-0.01
74	T	1,3-Dichlorobenzene	0.500	0.433	13.4	100	-0.01
75	T	4-Isopropyltoluene	0.500	0.427	14.6	100	0.00
76	T	1,4-Dichlorobenzene	0.500	0.532	-6.4	100	-0.01
77	T	1,2-Dichlorobenzene	0.500	0.484	3.2	100	-0.01
78	T	n-Butylbenzene	0.500	0.400	20.0	100	-0.01
79	T	1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-9.76#
80	T	1,2,4-Trichlorobenzene	-1.000	0.316	0.0	100	-0.01
81	T	Hexachlorobutadiene	0.500	0.405	19.0	100	-0.01
82	T	Naphthalene	-1.000	0.724	0.0	100	-0.01
83	T	1,2,3-Trichlorobenzene	0.500	0.371	25.8#	100	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971469.D
Acq On : 12 Jan 2022 8:52 am
Operator : ORM
Sample : ICAL 8260 001 W (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 12 15:33:46 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	1.000	0.929	7.1	100	0.00
3	pcc	Chloromethane	1.000	1.040	-4.0	100	0.00
4	ccc	Vinyl chloride	1.000	1.032	-3.2	100	0.00
5	T	Bromomethane	1.000	1.249	-24.9#	100	0.00
6	T	Chloroethane	1.000	1.074	-7.4	100	0.00
7	T	Trichlorofluoromethane	1.000	0.912	8.8	100	0.00
8	T	Acrolein	-1.000	0.000	0.0	0	-2.09#
9	ccc	1,1-Dichloroethene	1.000	1.153	-15.3	100	0.00
10		Freon-113	1.000	1.110	-11.0	100	0.00
11	T	Acetone	-1.000	3.362	0.0	100	0.00
12	T	Iodomethane	2.000	1.961	1.9	100	-0.01
13	T	Carbon disulfide	2.000	1.994	0.3	100	0.00
14		Methyl acetate	1.000	0.978	2.2	100	0.00
15	T	Vinyl acetate	2.000	1.582	20.9#	100	0.00
16	T	Methylene chloride	1.000	0.801	19.9	100	0.00
17	T	Acrylonitrile	-1.000	0.664	0.0	100	0.00
18		Methyl tert-butyl ether	1.000	0.916	8.4	100	0.00
19	T	trans-1,2-Dichloroethene	1.000	0.898	10.2	100	0.00
20	pcc	1,1-Dichloroethane	1.000	0.947	5.3	100	0.00
21	T	2,2-Dichloropropane	1.000	1.063	-6.3	100	0.00
22	T	cis-1,2-Dichloroethene	1.000	0.854	14.6	100	0.00
23	T	2-Butanone	-1.000	1.216	0.0	100	0.00
24	T	Bromochloromethane	1.000	0.801	19.9	100	0.00
25	ccc	Chloroform	1.000	0.943	5.7	100	0.00
26		Cyclohexane	1.000	0.938	6.2	100	0.00
27	T	1,1,1-Trichloroethane	1.000	0.999	0.1	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	49.787	0.4	100	0.00
30	T	1,1-Dichloropropene	1.000	1.071	-7.1	100	0.00
31	T	Carbon tetrachloride	1.000	0.941	5.9	100	0.00
32	T	Benzene	1.000	0.938	6.2	100	0.00
33	T	1,2-Dichloroethane	1.000	1.012	-1.2	100	0.00
34	M	Trichloroethene	1.000	0.942	5.8	100	0.00
35		Methylcyclohexane	1.000	0.956	4.4	100	0.00
36	ccc	1,2-Dichloropropane	1.000	0.923	7.7	100	0.00
37	T	Dibromomethane	1.000	0.894	10.6	100	0.00
38		1,4-Dioxane	-1.000	51.963	0.0	100	-0.37
39	T	Bromodichloromethane	1.000	0.931	6.9	100	0.00
40	T	2-Chloroethyl vinyl ether	2.000	1.719	14.0	100	0.00
41	T	cis-1,3-Dichloropropene	1.000	0.819	18.1	100	0.00
42	T	4-Methyl-2-pentanone	2.000	1.637	18.1	100	0.00
43	S	Toluene-d8	50.000	49.598	0.8	100	0.00
44	ccc	Toluene	1.000	0.952	4.8	100	0.00
45	T	trans-1,3-Dichloropropene	1.000	0.819	18.1	100	0.00
46	T	1,1,2-Trichloroethane	1.000	0.888	11.2	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	2.000	1.543	22.9#	100	0.00
49	T	Tetrachloroethene	1.000	0.981	1.9	100	0.00
50	T	1,3-Dichloropropane	1.000	0.932	6.8	100	0.00
51	T	Dibromochloromethane	1.000	0.830	17.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971469.D
Acq On : 12 Jan 2022 8:52 am
Operator : ORM
Sample : ICAL 8260 001 W (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 12 15:33:46 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	1.000	0.780	22.0#	100	0.00
53	pcc	Chlorobenzene	1.000	0.968	3.2	100	-0.01
54	T	1,1,1,2-Tetrachloroethane	1.000	0.895	10.5	100	0.00
55	ccc	Ethylbenzene	1.000	0.947	5.3	100	0.00
56	T	m,p-Xylene	2.000	1.841	8.0	100	0.00
57	T	o-Xylene	1.000	0.918	8.2	100	0.00
58	T	Styrene	1.000	0.849	15.1	100	0.00
59	pcc	Bromoform	1.000	0.802	19.8	100	0.00
60	S	4-Bromofluorobenzene	50.000	49.867	0.3	100	-0.01
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	-0.01
62	T	Bromobenzene	1.000	0.891	10.9	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	1.000	0.905	9.5	100	0.00
64	T	1,2,3-Trichloropropane	1.000	0.817	18.3	100	0.00
65	T	Isopropylbenzene	1.000	0.854	14.6	100	0.00
66	T	n-Propylbenzene	1.000	0.902	9.8	100	-0.01
67	T	trans-1,4-Dichloro-2-butene	-1.000	0.000	0.0	0	-7.82#
68	T	2-Chlorotoluene	1.000	0.902	9.8	100	-0.01
69	T	4-Chlorotoluene	1.000	0.876	12.4	100	-0.01
70	T	1,3,5-Trimethylbenzene	1.000	0.836	16.4	100	-0.01
71	T	tert-Butylbenzene	1.000	0.852	14.8	100	-0.02
72	T	1,2,4-Trimethylbenzene	1.000	0.792	20.8#	100	-0.01
73	T	sec-Butylbenzene	1.000	0.804	19.6	100	-0.01
74	T	1,3-Dichlorobenzene	1.000	0.896	10.4	100	-0.01
75	T	4-Isopropyltoluene	1.000	0.794	20.6#	100	-0.01
76	T	1,4-Dichlorobenzene	1.000	0.972	2.8	100	0.00
77	T	1,2-Dichlorobenzene	1.000	0.882	11.8	100	-0.01
78	T	n-Butylbenzene	1.000	0.836	16.4	100	-0.01
79	T	1,2-Dibromo-3-chloropropane	1.000	1.073	-7.3	100	-0.02
80	T	1,2,4-Trichlorobenzene	1.000	0.789	21.1#	100	-0.01
81	T	Hexachlorobutadiene	1.000	0.908	9.2	100	0.00
82	T	Naphthalene	1.000	1.101	-10.1	100	-0.01
83	T	1,2,3-Trichlorobenzene	1.000	0.825	17.5	100	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971474.D
Acq On : 12 Jan 2022 10:50 am
Operator : ORM
Sample : ICAL 8260 002 W (2uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 12 15:34:47 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	2.000	1.911	4.4	100	0.00
3	pcc	Chloromethane	2.000	1.941	2.9	100	0.00
4	ccc	Vinyl chloride	2.000	1.878	6.1	100	0.00
5	T	Bromomethane	2.000	2.528	-26.4#	100	0.00
6	T	Chloroethane	2.000	1.776	11.2	100	0.00
7	T	Trichlorofluoromethane	2.000	1.807	9.7	100	0.00
8	T	Acrolein	-1.000	1.874	0.0	100	0.00
9	ccc	1,1-Dichloroethene	2.000	1.770	11.5	100	0.00
10		Freon-113	2.000	1.971	1.4	100	0.00
11	T	Acetone	-1.000	5.646	0.0	100	0.00
12	T	Iodomethane	4.000	4.036	-0.9	100	0.00
13	T	Carbon disulfide	4.000	3.943	1.4	100	0.00
14		Methyl acetate	2.000	2.029	-1.4	100	0.00
15	T	Vinyl acetate	4.000	3.607	9.8	100	0.00
16	T	Methylene chloride	2.000	1.824	8.8	100	0.00
17	T	Acrylonitrile	-1.000	1.810	0.0	100	0.00
18		Methyl tert-butyl ether	2.000	1.868	6.6	100	0.00
19	T	trans-1,2-Dichloroethene	2.000	2.097	-4.8	100	0.00
20	pcc	1,1-Dichloroethane	2.000	2.018	-0.9	100	0.00
21	T	2,2-Dichloropropane	2.000	1.991	0.4	100	0.00
22	T	cis-1,2-Dichloroethene	2.000	1.998	0.1	100	0.00
23	T	2-Butanone	-1.000	2.951	0.0	100	0.00
24	T	Bromochloromethane	2.000	1.969	1.5	100	0.00
25	ccc	Chloroform	2.000	2.027	-1.4	100	0.00
26		Cyclohexane	2.000	2.031	-1.6	100	0.00
27	T	1,1,1-Trichloroethane	2.000	1.902	4.9	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	50.258	-0.5	100	0.00
30	T	1,1-Dichloropropene	2.000	2.007	-0.4	100	0.00
31	T	Carbon tetrachloride	2.000	1.891	5.4	100	0.00
32	T	Benzene	2.000	2.059	-3.0	100	0.00
33	T	1,2-Dichloroethane	2.000	1.958	2.1	100	0.00
34	M	Trichloroethene	2.000	1.899	5.0	100	0.00
35		Methylcyclohexane	2.000	1.965	1.7	100	0.00
36	ccc	1,2-Dichloropropane	2.000	2.002	-0.1	100	0.00
37	T	Dibromomethane	2.000	2.000	0.0	100	0.00
38		1,4-Dioxane	-1.000	4208.382	0.0	100	-0.41
39	T	Bromodichloromethane	2.000	1.962	1.9	100	0.00
40	T	2-Chloroethyl vinyl ether	4.000	3.799	5.0	100	0.00
41	T	cis-1,3-Dichloropropene	2.000	1.751	12.5	100	0.00
42	T	4-Methyl-2-pentanone	4.000	3.565	10.9	100	0.00
43	S	Toluene-d8	50.000	50.015	-0.0	100	0.00
44	ccc	Toluene	2.000	1.997	0.1	100	0.00
45	T	trans-1,3-Dichloropropene	2.000	1.751	12.5	100	0.00
46	T	1,1,2-Trichloroethane	2.000	1.957	2.1	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	4.000	3.661	8.5	100	0.00
49	T	Tetrachloroethene	2.000	1.940	3.0	100	0.00
50	T	1,3-Dichloropropane	2.000	1.981	0.9	100	0.00
51	T	Dibromochloromethane	2.000	1.873	6.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971474.D
Acq On : 12 Jan 2022 10:50 am
Operator : ORM
Sample : ICAL 8260 002 W (2uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 12 15:34:47 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	2.000	1.881	5.9	100	0.00
53	pcc	Chlorobenzene	2.000	1.966	1.7	100	0.00
54	T	1,1,1,2-Tetrachloroethane	2.000	1.824	8.8	100	0.00
55	ccc	Ethylbenzene	2.000	1.985	0.7	100	0.00
56	T	m,p-Xylene	4.000	3.966	0.8	100	0.00
57	T	o-Xylene	2.000	1.924	3.8	100	0.00
58	T	Styrene	2.000	1.770	11.5	100	0.00
59	pcc	Bromoform	2.000	1.807	9.7	100	0.00
60	S	4-Bromofluorobenzene	50.000	50.167	-0.3	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	2.000	1.863	6.9	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	2.000	1.930	3.5	100	0.00
64	T	1,2,3-Trichloropropane	2.000	1.726	13.7	100	0.00
65	T	Isopropylbenzene	2.000	1.744	12.8	100	0.00
66	T	n-Propylbenzene	2.000	1.958	2.1	100	0.00
67	T	trans-1,4-Dichloro-2-butene	-1.000	0.000	0.0	0	-7.82#
68	T	2-Chlorotoluene	2.000	1.958	2.1	100	0.00
69	T	4-Chlorotoluene	2.000	1.973	1.3	100	0.00
70	T	1,3,5-Trimethylbenzene	2.000	1.832	8.4	100	0.00
71	T	tert-Butylbenzene	2.000	1.865	6.8	100	0.00
72	T	1,2,4-Trimethylbenzene	2.000	1.822	8.9	100	0.00
73	T	sec-Butylbenzene	2.000	1.908	4.6	100	0.00
74	T	1,3-Dichlorobenzene	2.000	1.922	3.9	100	0.00
75	T	4-Isopropyltoluene	2.000	1.841	8.0	100	0.00
76	T	1,4-Dichlorobenzene	2.000	1.963	1.8	100	0.00
77	T	1,2-Dichlorobenzene	2.000	1.908	4.6	100	0.00
78	T	n-Butylbenzene	2.000	1.792	10.4	100	0.00
79	T	1,2-Dibromo-3-chloropropane	2.000	1.902	4.9	100	0.00
80	T	1,2,4-Trichlorobenzene	2.000	1.666	16.7	100	0.00
81	T	Hexachlorobutadiene	2.000	2.054	-2.7	100	0.00
82	T	Naphthalene	2.000	1.850	7.5	100	0.00
83	T	1,2,3-Trichlorobenzene	2.000	1.769	11.6	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971475.D
Acq On : 12 Jan 2022 11:12 am
Operator : ORM
Sample : ICAL 8260 005 W (5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 12 15:35:12 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	5.000	5.178	-3.6	100	0.00
3	pcc	Chloromethane	5.000	5.057	-1.1	100	0.00
4	ccc	Vinyl chloride	5.000	5.075	-1.5	100	0.00
5	T	Bromomethane	5.000	5.811	-16.2	100	0.00
6	T	Chloroethane	5.000	5.445	-8.9	100	0.00
7	T	Trichlorofluoromethane	5.000	5.265	-5.3	100	0.00
8	T	Acrolein	5.000	4.922	1.6	100	0.00
9	ccc	1,1-Dichloroethene	5.000	3.996	20.1	100	0.00
10		Freon-113	5.000	4.263	14.7	100	0.00
11	T	Acetone	10.000	9.167	8.3	100	0.00
12	T	Iodomethane	10.000	10.021	-0.2	100	0.00
13	T	Carbon disulfide	10.000	10.024	-0.2	100	0.00
14		Methyl acetate	5.000	5.168	-3.4	100	0.00
15	T	Vinyl acetate	10.000	8.839	11.6	100	0.00
16	T	Methylene chloride	5.000	4.518	9.6	100	0.00
17	T	Acrylonitrile	5.000	4.682	6.4	100	0.00
18		Methyl tert-butyl ether	5.000	4.749	5.0	100	0.00
19	T	trans-1,2-Dichloroethene	5.000	4.922	1.6	100	0.00
20	pcc	1,1-Dichloroethane	5.000	4.914	1.7	100	0.00
21	T	2,2-Dichloropropane	5.000	4.667	6.7	100	0.00
22	T	cis-1,2-Dichloroethene	5.000	4.949	1.0	100	0.00
23	T	2-Butanone	10.000	8.806	11.9	100	0.00
24	T	Bromochloromethane	5.000	4.991	0.2	100	0.00
25	ccc	Chloroform	5.000	5.091	-1.8	100	0.00
26		Cyclohexane	5.000	4.784	4.3	100	0.00
27	T	1,1,1-Trichloroethane	5.000	4.889	2.2	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	50.308	-0.6	100	0.00
30	T	1,1-Dichloropropene	5.000	4.795	4.1	100	0.00
31	T	Carbon tetrachloride	5.000	4.573	8.5	100	0.00
32	T	Benzene	5.000	4.929	1.4	100	0.00
33	T	1,2-Dichloroethane	5.000	4.705	5.9	100	0.00
34	M	Trichloroethene	5.000	4.880	2.4	100	0.00
35		Methylcyclohexane	5.000	4.943	1.1	100	0.00
36	ccc	1,2-Dichloropropane	5.000	4.952	1.0	100	0.00
37	T	Dibromomethane	5.000	5.056	-1.1	100	0.00
38		1,4-Dioxane	50.000	50.443	-0.9	100	0.00
39	T	Bromodichloromethane	5.000	4.743	5.1	100	0.00
40	T	2-Chloroethyl vinyl ether	10.000	10.125	-1.3	100	0.00
41	T	cis-1,3-Dichloropropene	5.000	4.481	10.4	100	0.00
42	T	4-Methyl-2-pentanone	10.000	9.616	3.8	100	0.00
43	S	Toluene-d8	50.000	50.223	-0.4	100	0.00
44	ccc	Toluene	5.000	5.012	-0.2	100	0.00
45	T	trans-1,3-Dichloropropene	5.000	4.481	10.4	100	0.00
46	T	1,1,2-Trichloroethane	5.000	4.865	2.7	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	10.000	10.394	-3.9	100	0.00
49	T	Tetrachloroethene	5.000	4.855	2.9	100	0.00
50	T	1,3-Dichloropropane	5.000	4.922	1.6	100	0.00
51	T	Dibromochloromethane	5.000	4.640	7.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971475.D
Acq On : 12 Jan 2022 11:12 am
Operator : ORM
Sample : ICAL 8260 005 W (5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 12 15:35:12 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	5.000	5.018	-0.4	100	0.00
53	pcc	Chlorobenzene	5.000	4.971	0.6	100	0.00
54	T	1,1,1,2-Tetrachloroethane	5.000	4.694	6.1	100	0.00
55	ccc	Ethylbenzene	5.000	4.946	1.1	100	0.00
56	T	m,p-Xylene	10.000	10.163	-1.6	100	0.00
57	T	o-Xylene	5.000	4.879	2.4	100	0.00
58	T	Styrene	5.000	4.940	1.2	100	0.00
59	pcc	Bromoform	5.000	4.266	14.7	100	0.00
60	S	4-Bromofluorobenzene	50.000	51.193	-2.4	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	5.000	4.739	5.2	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	5.000	4.903	1.9	100	0.00
64	T	1,2,3-Trichloropropane	5.000	4.071	18.6	100	0.00
65	T	Isopropylbenzene	5.000	4.701	6.0	100	0.00
66	T	n-Propylbenzene	5.000	4.952	1.0	100	0.00
67	T	trans-1,4-Dichloro-2-butene	10.000	12.505	-25.1#	100	0.00
68	T	2-Chlorotoluene	5.000	4.952	1.0	100	0.00
69	T	4-Chlorotoluene	5.000	5.028	-0.6	100	0.00
70	T	1,3,5-Trimethylbenzene	5.000	4.835	3.3	100	0.00
71	T	tert-Butylbenzene	5.000	4.778	4.4	100	0.00
72	T	1,2,4-Trimethylbenzene	5.000	4.980	0.4	100	0.00
73	T	sec-Butylbenzene	5.000	4.761	4.8	100	0.00
74	T	1,3-Dichlorobenzene	5.000	4.814	3.7	100	0.00
75	T	4-Isopropyltoluene	5.000	4.687	6.3	100	0.00
76	T	1,4-Dichlorobenzene	5.000	4.635	7.3	100	0.00
77	T	1,2-Dichlorobenzene	5.000	4.703	5.9	100	0.00
78	T	n-Butylbenzene	5.000	4.565	8.7	100	0.00
79	T	1,2-Dibromo-3-chloropropane	5.000	4.127	17.5	100	0.00
80	T	1,2,4-Trichlorobenzene	5.000	3.934	21.3#	100	0.00
81	T	Hexachlorobutadiene	5.000	4.516	9.7	100	0.00
82	T	Naphthalene	5.000	3.864	22.7#	100	0.00
83	T	1,2,3-Trichlorobenzene	5.000	4.497	10.1	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971476.D
Acq On : 12 Jan 2022 11:34 am
Operator : ORM
Sample : ICAL 8260 010 W (10uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 12 15:35:35 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	10.000	9.665	3.4	100	0.00
3	pcc	Chloromethane	10.000	10.026	-0.3	100	0.00
4	ccc	Vinyl chloride	10.000	9.363	6.4	100	0.00
5	T	Bromomethane	10.000	9.147	8.5	100	0.00
6	T	Chloroethane	10.000	10.013	-0.1	100	0.00
7	T	Trichlorofluoromethane	10.000	10.058	-0.6	100	0.00
8	T	Acrolein	10.000	10.608	-6.1	100	0.00
9	ccc	1,1-Dichloroethene	10.000	11.533	-15.3	100	0.00
10		Freon-113	10.000	11.360	-13.6	100	0.00
11	T	Acetone	20.000	25.595	-28.0#	100	0.00
12	T	Iodomethane	20.000	18.809	6.0	100	0.00
13	T	Carbon disulfide	20.000	19.550	2.2	100	0.00
14		Methyl acetate	10.000	9.906	0.9	100	0.00
15	T	Vinyl acetate	20.000	18.060	9.7	100	0.00
16	T	Methylene chloride	10.000	9.620	3.8	100	0.00
17	T	Acrylonitrile	10.000	10.068	-0.7	100	0.00
18		Methyl tert-butyl ether	10.000	9.672	3.3	100	0.00
19	T	trans-1,2-Dichloroethene	10.000	10.138	-1.4	100	0.00
20	pcc	1,1-Dichloroethane	10.000	9.979	0.2	100	0.00
21	T	2,2-Dichloropropane	10.000	9.457	5.4	100	0.00
22	T	cis-1,2-Dichloroethene	10.000	9.822	1.8	100	0.00
23	T	2-Butanone	20.000	18.320	8.4	100	0.00
24	T	Bromochloromethane	10.000	9.986	0.1	100	0.00
25	ccc	Chloroform	10.000	9.695	3.0	100	0.00
26		Cyclohexane	10.000	10.571	-5.7	100	0.00
27	T	1,1,1-Trichloroethane	10.000	9.730	2.7	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	50.643	-1.3	100	0.00
30	T	1,1-Dichloropropene	10.000	10.132	-1.3	100	0.00
31	T	Carbon tetrachloride	10.000	9.604	4.0	100	0.00
32	T	Benzene	10.000	9.926	0.7	100	0.00
33	T	1,2-Dichloroethane	10.000	9.483	5.2	100	0.00
34	M	Trichloroethene	10.000	10.004	-0.0	100	0.00
35		Methylcyclohexane	10.000	10.087	-0.9	100	0.00
36	ccc	1,2-Dichloropropane	10.000	9.917	0.8	100	0.00
37	T	Dibromomethane	10.000	9.851	1.5	100	0.00
38		1,4-Dioxane	100.000	103.029	-3.0	100	0.00
39	T	Bromodichloromethane	10.000	9.668	3.3	100	0.00
40	T	2-Chloroethyl vinyl ether	20.000	21.379	-6.9	100	0.00
41	T	cis-1,3-Dichloropropene	10.000	9.394	6.1	100	0.00
42	T	4-Methyl-2-pentanone	20.000	19.868	0.7	100	0.00
43	S	Toluene-d8	50.000	50.195	-0.4	100	0.00
44	ccc	Toluene	10.000	9.831	1.7	100	0.00
45	T	trans-1,3-Dichloropropene	10.000	9.394	6.1	100	0.00
46	T	1,1,2-Trichloroethane	10.000	9.884	1.2	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	20.000	22.228	-11.1	100	0.00
49	T	Tetrachloroethene	10.000	10.046	-0.5	100	0.00
50	T	1,3-Dichloropropane	10.000	10.049	-0.5	100	0.00
51	T	Dibromochloromethane	10.000	9.561	4.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971476.D
Acq On : 12 Jan 2022 11:34 am
Operator : ORM
Sample : ICAL 8260 010 W (10uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 12 15:35:35 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	10.000	10.169	-1.7	100	0.00
53	pcc	Chlorobenzene	10.000	9.809	1.9	100	0.00
54	T	1,1,1,2-Tetrachloroethane	10.000	9.617	3.8	100	0.00
55	ccc	Ethylbenzene	10.000	10.274	-2.7	100	0.00
56	T	m,p-Xylene	20.000	21.183	-5.9	100	0.00
57	T	o-Xylene	10.000	10.150	-1.5	100	0.00
58	T	Styrene	10.000	10.329	-3.3	100	0.00
59	pcc	Bromoform	10.000	9.402	6.0	100	0.00
60	S	4-Bromofluorobenzene	50.000	50.269	-0.5	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	10.000	9.734	2.7	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	10.000	9.919	0.8	100	0.00
64	T	1,2,3-Trichloropropane	10.000	8.868	11.3	100	0.00
65	T	Isopropylbenzene	10.000	10.237	-2.4	100	0.00
66	T	n-Propylbenzene	10.000	9.997	0.0	100	0.00
67	T	trans-1,4-Dichloro-2-butene	20.000	18.541	7.3	100	0.00
68	T	2-Chlorotoluene	10.000	9.997	0.0	100	0.00
69	T	4-Chlorotoluene	10.000	10.070	-0.7	100	0.00
70	T	1,3,5-Trimethylbenzene	10.000	10.136	-1.4	100	0.00
71	T	tert-Butylbenzene	10.000	9.903	1.0	100	0.00
72	T	1,2,4-Trimethylbenzene	10.000	10.218	-2.2	100	0.00
73	T	sec-Butylbenzene	10.000	10.015	-0.2	100	0.00
74	T	1,3-Dichlorobenzene	10.000	9.802	2.0	100	0.00
75	T	4-Isopropyltoluene	10.000	10.098	-1.0	100	0.00
76	T	1,4-Dichlorobenzene	10.000	9.729	2.7	100	0.00
77	T	1,2-Dichlorobenzene	10.000	9.653	3.5	100	0.00
78	T	n-Butylbenzene	10.000	9.643	3.6	100	0.00
79	T	1,2-Dibromo-3-chloropropane	10.000	8.578	14.2	100	0.00
80	T	1,2,4-Trichlorobenzene	10.000	8.041	19.6	100	0.00
81	T	Hexachlorobutadiene	10.000	8.683	13.2	100	0.00
82	T	Naphthalene	10.000	7.705	22.9#	100	0.00
83	T	1,2,3-Trichlorobenzene	10.000	8.550	14.5	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971477.D
Acq On : 12 Jan 2022 11:55 am
Operator : ORM
Sample : ICAL 8260 020 W (20uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 12 15:35:51 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	20.000	19.229	3.9	100	0.00
3	pcc	Chloromethane	20.000	19.136	4.3	100	0.00
4	ccc	Vinyl chloride	20.000	18.681	6.6	100	0.00
5	T	Bromomethane	20.000	19.123	4.4	100	0.00
6	T	Chloroethane	20.000	19.353	3.2	100	0.00
7	T	Trichlorofluoromethane	20.000	20.262	-1.3	100	0.00
8	T	Acrolein	20.000	20.652	-3.3	100	0.00
9	ccc	1,1-Dichloroethene	20.000	23.608	-18.0	100	0.00
10		Freon-113	20.000	22.439	-12.2	100	0.00
11	T	Acetone	40.000	49.281	-23.2#	100	0.00
12	T	Iodomethane	40.000	40.139	-0.3	100	0.00
13	T	Carbon disulfide	40.000	39.925	0.2	100	0.00
14		Methyl acetate	20.000	19.254	3.7	100	0.00
15	T	Vinyl acetate	40.000	40.513	-1.3	100	0.00
16	T	Methylene chloride	20.000	19.846	0.8	100	0.00
17	T	Acrylonitrile	20.000	19.266	3.7	100	0.00
18		Methyl tert-butyl ether	20.000	20.592	-3.0	100	0.00
19	T	trans-1,2-Dichloroethene	20.000	20.762	-3.8	100	0.00
20	pcc	1,1-Dichloroethane	20.000	20.517	-2.6	100	0.00
21	T	2,2-Dichloropropane	20.000	20.047	-0.2	100	0.00
22	T	cis-1,2-Dichloroethene	20.000	20.620	-3.1	100	0.00
23	T	2-Butanone	40.000	40.269	-0.7	100	0.00
24	T	Bromochloromethane	20.000	21.478	-7.4	100	0.00
25	ccc	Chloroform	20.000	19.975	0.1	100	0.00
26		Cyclohexane	20.000	21.228	-6.1	100	0.00
27	T	1,1,1-Trichloroethane	20.000	19.784	1.1	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	50.690	-1.4	100	0.00
30	T	1,1-Dichloropropene	20.000	20.527	-2.6	100	0.00
31	T	Carbon tetrachloride	20.000	20.112	-0.6	100	0.00
32	T	Benzene	20.000	20.846	-4.2	100	0.00
33	T	1,2-Dichloroethane	20.000	20.867	-4.3	100	0.00
34	M	Trichloroethene	20.000	20.285	-1.4	100	0.00
35		Methylcyclohexane	20.000	20.431	-2.2	100	0.00
36	ccc	1,2-Dichloropropane	20.000	21.065	-5.3	100	0.00
37	T	Dibromomethane	20.000	21.035	-5.2	100	0.00
38		1,4-Dioxane	200.000	228.034	-14.0	100	0.00
39	T	Bromodichloromethane	20.000	21.123	-5.6	100	0.00
40	T	2-Chloroethyl vinyl ether	40.000	48.634	-21.6#	100	0.00
41	T	cis-1,3-Dichloropropene	20.000	21.052	-5.3	100	0.00
42	T	4-Methyl-2-pentanone	40.000	43.971	-9.9	100	0.00
43	S	Toluene-d8	50.000	50.470	-0.9	100	0.00
44	ccc	Toluene	20.000	20.660	-3.3	100	0.00
45	T	trans-1,3-Dichloropropene	20.000	21.052	-5.3	100	0.00
46	T	1,1,2-Trichloroethane	20.000	21.475	-7.4	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	40.000	44.982	-12.5	100	0.00
49	T	Tetrachloroethene	20.000	20.253	-1.3	100	0.00
50	T	1,3-Dichloropropane	20.000	21.260	-6.3	100	0.00
51	T	Dibromochloromethane	20.000	21.225	-6.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971477.D
Acq On : 12 Jan 2022 11:55 am
Operator : ORM
Sample : ICAL 8260 020 W (20uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 12 15:35:51 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	20.000	21.698	-8.5	100	0.00
53	pcc	Chlorobenzene	20.000	20.715	-3.6	100	0.00
54	T	1,1,1,2-Tetrachloroethane	20.000	21.631	-8.2	100	0.00
55	ccc	Ethylbenzene	20.000	21.561	-7.8	100	0.00
56	T	m,p-Xylene	40.000	43.249	-8.1	100	0.00
57	T	o-Xylene	20.000	21.800	-9.0	100	0.00
58	T	Styrene	20.000	22.528	-12.6	100	0.00
59	pcc	Bromoform	20.000	20.825	-4.1	100	0.00
60	S	4-Bromofluorobenzene	50.000	49.942	0.1	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	20.000	20.123	-0.6	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	20.000	20.166	-0.8	100	0.00
64	T	1,2,3-Trichloropropane	20.000	20.391	-2.0	100	0.00
65	T	Isopropylbenzene	20.000	21.017	-5.1	100	0.00
66	T	n-Propylbenzene	20.000	20.253	-1.3	100	0.00
67	T	trans-1,4-Dichloro-2-butene	40.000	36.478	8.8	100	0.00
68	T	2-Chlorotoluene	20.000	20.253	-1.3	100	0.00
69	T	4-Chlorotoluene	20.000	20.659	-3.3	100	0.00
70	T	1,3,5-Trimethylbenzene	20.000	21.457	-7.3	100	0.00
71	T	tert-Butylbenzene	20.000	21.278	-6.4	100	0.00
72	T	1,2,4-Trimethylbenzene	20.000	21.948	-9.7	100	0.00
73	T	sec-Butylbenzene	20.000	21.164	-5.8	100	0.00
74	T	1,3-Dichlorobenzene	20.000	20.766	-3.8	100	0.00
75	T	4-Isopropyltoluene	20.000	21.873	-9.4	100	0.00
76	T	1,4-Dichlorobenzene	20.000	20.409	-2.0	100	0.00
77	T	1,2-Dichlorobenzene	20.000	20.891	-4.5	100	0.00
78	T	n-Butylbenzene	20.000	21.916	-9.6	100	0.00
79	T	1,2-Dibromo-3-chloropropane	20.000	19.285	3.6	100	0.00
80	T	1,2,4-Trichlorobenzene	20.000	21.198	-6.0	100	0.00
81	T	Hexachlorobutadiene	20.000	21.189	-5.9	100	0.00
82	T	Naphthalene	20.000	20.543	-2.7	100	0.00
83	T	1,2,3-Trichlorobenzene	20.000	22.981	-14.9	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971478.D
Acq On : 12 Jan 2022 12:17 pm
Operator : ORM
Sample : ICAL 8260 050 W (50uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 12 15:36:06 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	50.000	54.004	-8.0	100	0.00
3	pcc	Chloromethane	50.000	50.017	-0.0	100	0.00
4	ccc	Vinyl chloride	50.000	51.949	-3.9	100	0.00
5	T	Bromomethane	50.000	49.574	0.9	100	0.00
6	T	Chloroethane	50.000	51.439	-2.9	100	0.00
7	T	Trichlorofluoromethane	50.000	53.795	-7.6	100	0.00
8	T	Acrolein	50.000	49.859	0.3	100	0.00
9	ccc	1,1-Dichloroethene	50.000	54.273	-8.5	100	0.00
10		Freon-113	50.000	58.680	-17.4	100	0.00
11	T	Acetone	100.000	100.768	-0.8	100	0.00
12	T	Iodomethane	100.000	109.079	-9.1	100	-0.01
13	T	Carbon disulfide	100.000	109.426	-9.4	100	0.00
14		Methyl acetate	50.000	45.946	8.1	100	0.00
15	T	Vinyl acetate	100.000	108.908	-8.9	100	0.00
16	T	Methylene chloride	50.000	53.210	-6.4	100	0.00
17	T	Acrylonitrile	50.000	49.444	1.1	100	0.00
18		Methyl tert-butyl ether	50.000	53.425	-6.8	100	0.00
19	T	trans-1,2-Dichloroethene	50.000	54.242	-8.5	100	0.00
20	pcc	1,1-Dichloroethane	50.000	53.772	-7.5	100	0.00
21	T	2,2-Dichloropropane	50.000	58.454	-16.9	100	0.00
22	T	cis-1,2-Dichloroethene	50.000	53.981	-8.0	100	0.00
23	T	2-Butanone	100.000	96.475	3.5	100	0.00
24	T	Bromochloromethane	50.000	54.306	-8.6	100	0.00
25	ccc	Chloroform	50.000	52.215	-4.4	100	0.00
26		Cyclohexane	50.000	52.561	-5.1	100	0.00
27	T	1,1,1-Trichloroethane	50.000	52.353	-4.7	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	51.586	-3.2	100	0.00
30	T	1,1-Dichloropropene	50.000	51.016	-2.0	100	0.00
31	T	Carbon tetrachloride	50.000	53.046	-6.1	100	0.00
32	T	Benzene	50.000	51.298	-2.6	100	0.00
33	T	1,2-Dichloroethane	50.000	49.743	0.5	100	0.00
34	M	Trichloroethene	50.000	50.818	-1.6	100	0.00
35		Methylcyclohexane	50.000	52.315	-4.6	100	0.00
36	ccc	1,2-Dichloropropane	50.000	50.591	-1.2	100	0.00
37	T	Dibromomethane	50.000	50.605	-1.2	100	0.00
38		1,4-Dioxane	500.000	374.827	25.0#	100	0.00
39	T	Bromodichloromethane	50.000	52.304	-4.6	100	0.00
40	T	2-Chloroethyl vinyl ether	100.000	113.687	-13.7	100	0.00
41	T	cis-1,3-Dichloropropene	50.000	54.572	-9.1	100	0.00
42	T	4-Methyl-2-pentanone	100.000	102.170	-2.2	100	0.00
43	S	Toluene-d8	50.000	49.953	0.1	100	0.00
44	ccc	Toluene	50.000	50.179	-0.4	100	0.00
45	T	trans-1,3-Dichloropropene	50.000	54.572	-9.1	100	0.00
46	T	1,1,2-Trichloroethane	50.000	50.997	-2.0	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	100.000	100.651	-0.7	100	0.00
49	T	Tetrachloroethene	50.000	49.669	0.7	100	0.00
50	T	1,3-Dichloropropane	50.000	49.522	1.0	100	0.00
51	T	Dibromochloromethane	50.000	52.224	-4.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971478.D
Acq On : 12 Jan 2022 12:17 pm
Operator : ORM
Sample : ICAL 8260 050 W (50uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 12 15:36:06 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	50.000	51.617	-3.2	100	0.00
53	pcc	Chlorobenzene	50.000	49.641	0.7	100	0.00
54	T	1,1,1,2-Tetrachloroethane	50.000	53.456	-6.9	100	0.00
55	ccc	Ethylbenzene	50.000	52.104	-4.2	100	0.00
56	T	m,p-Xylene	100.000	104.299	-4.3	100	0.00
57	T	o-Xylene	50.000	53.556	-7.1	100	0.00
58	T	Styrene	50.000	55.765	-11.5	100	0.00
59	pcc	Bromoform	50.000	53.524	-7.0	100	0.00
60	S	4-Bromofluorobenzene	50.000	50.549	-1.1	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	50.000	49.731	0.5	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	50.000	48.793	2.4	100	0.00
64	T	1,2,3-Trichloropropane	50.000	49.601	0.8	100	0.00
65	T	Isopropylbenzene	50.000	52.483	-5.0	100	0.00
66	T	n-Propylbenzene	50.000	49.207	1.6	100	0.00
67	T	trans-1,4-Dichloro-2-butene	100.000	85.656	14.3	100	0.00
68	T	2-Chlorotoluene	50.000	49.207	1.6	100	0.00
69	T	4-Chlorotoluene	50.000	50.661	-1.3	100	0.00
70	T	1,3,5-Trimethylbenzene	50.000	53.854	-7.7	100	0.00
71	T	tert-Butylbenzene	50.000	54.130	-8.3	100	0.00
72	T	1,2,4-Trimethylbenzene	50.000	54.221	-8.4	100	0.00
73	T	sec-Butylbenzene	50.000	54.456	-8.9	100	0.00
74	T	1,3-Dichlorobenzene	50.000	52.246	-4.5	100	0.00
75	T	4-Isopropyltoluene	50.000	55.285	-10.6	100	0.00
76	T	1,4-Dichlorobenzene	50.000	50.041	-0.1	100	0.00
77	T	1,2-Dichlorobenzene	50.000	52.909	-5.8	100	0.00
78	T	n-Butylbenzene	50.000	56.688	-13.4	100	0.00
79	T	1,2-Dibromo-3-chloropropane	50.000	50.085	-0.2	100	0.00
80	T	1,2,4-Trichlorobenzene	50.000	55.475	-11.0	100	0.00
81	T	Hexachlorobutadiene	50.000	54.445	-8.9	100	0.00
82	T	Naphthalene	50.000	52.848	-5.7	100	0.00
83	T	1,2,3-Trichlorobenzene	50.000	59.553	-19.1	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971480.D
Acq On : 12 Jan 2022 1:01 pm
Operator : ORM
Sample : ICAL 8260 100 W (100uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 12 15:36:23 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	100.000	93.432	6.6	100	0.00
3	pcc	Chloromethane	100.000	95.187	4.8	100	0.00
4	ccc	Vinyl chloride	100.000	91.686	8.3	100	0.00
5	T	Bromomethane	100.000	82.849	17.2	100	0.00
6	T	Chloroethane	100.000	81.802	18.2	100	0.00
7	T	Trichlorofluoromethane	100.000	92.100	7.9	100	0.00
8	T	Acrolein	100.000	103.245	-3.2	100	0.00
9	ccc	1,1-Dichloroethene	-1.000	70.317	0.0	100	0.00
10		Freon-113	100.000	79.542	20.5#	100	0.00
11	T	Acetone	200.000	152.430	23.8#	100	0.00
12	T	Iodomethane	200.000	190.334	4.8	100	0.00
13	T	Carbon disulfide	200.000	187.961	6.0	100	0.00
14		Methyl acetate	100.000	97.587	2.4	100	0.00
15	T	Vinyl acetate	200.000	242.302	-21.2#	100	0.00
16	T	Methylene chloride	100.000	98.884	1.1	100	0.00
17	T	Acrylonitrile	100.000	104.040	-4.0	100	0.00
18		Methyl tert-butyl ether	100.000	104.462	-4.5	100	0.00
19	T	trans-1,2-Dichloroethene	100.000	100.439	-0.4	100	0.00
20	pcc	1,1-Dichloroethane	100.000	98.896	1.1	100	0.00
21	T	2,2-Dichloropropane	100.000	94.308	5.7	100	0.00
22	T	cis-1,2-Dichloroethene	100.000	102.235	-2.2	100	0.00
23	T	2-Butanone	200.000	220.300	-10.2	100	0.00
24	T	Bromochloromethane	100.000	103.493	-3.5	100	0.00
25	ccc	Chloroform	100.000	96.565	3.4	100	0.00
26		Cyclohexane	100.000	94.086	5.9	100	0.00
27	T	1,1,1-Trichloroethane	100.000	96.585	3.4	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	49.546	0.9	100	0.00
30	T	1,1-Dichloropropene	100.000	96.853	3.1	100	0.00
31	T	Carbon tetrachloride	100.000	101.791	-1.8	100	0.00
32	T	Benzene	100.000	99.256	0.7	100	0.00
33	T	1,2-Dichloroethane	-1.000	98.562	0.0	100	0.00
34	M	Trichloroethene	100.000	98.931	1.1	100	0.00
35		Methylcyclohexane	100.000	98.274	1.7	100	0.00
36	ccc	1,2-Dichloropropane	100.000	102.241	-2.2	100	0.00
37	T	Dibromomethane	100.000	103.360	-3.4	100	0.00
38		1,4-Dioxane	1000.000	1166.052	-16.6	100	0.00
39	T	Bromodichloromethane	100.000	104.969	-5.0	100	0.00
40	T	2-Chloroethyl vinyl ether	-1.000	257.850	0.0	100	0.00
41	T	cis-1,3-Dichloropropene	100.000	114.309	-14.3	100	0.00
42	T	4-Methyl-2-pentanone	200.000	228.305	-14.2	100	0.00
43	S	Toluene-d8	50.000	49.986	0.0	100	0.00
44	ccc	Toluene	100.000	99.865	0.1	100	0.00
45	T	trans-1,3-Dichloropropene	100.000	114.309	-14.3	100	0.00
46	T	1,1,2-Trichloroethane	100.000	105.997	-6.0	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	200.000	227.597	-13.8	100	0.00
49	T	Tetrachloroethene	100.000	98.879	1.1	100	0.00
50	T	1,3-Dichloropropane	100.000	105.024	-5.0	100	0.00
51	T	Dibromochloromethane	100.000	110.627	-10.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971480.D
Acq On : 12 Jan 2022 1:01 pm
Operator : ORM
Sample : ICAL 8260 100 W (100uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 12 15:36:23 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	100.000	110.248	-10.2	100	0.00
53	pcc	Chlorobenzene	100.000	99.497	0.5	100	0.00
54	T	1,1,1,2-Tetrachloroethane	100.000	109.591	-9.6	100	0.00
55	ccc	Ethylbenzene	100.000	100.584	-0.6	100	0.00
56	T	m,p-Xylene	200.000	199.595	0.2	100	0.00
57	T	o-Xylene	100.000	103.717	-3.7	100	0.00
58	T	Styrene	100.000	107.938	-7.9	100	0.00
59	pcc	Bromoform	100.000	115.141	-15.1	100	0.00
60	S	4-Bromofluorobenzene	50.000	49.397	1.2	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	100.000	108.748	-8.7	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	100.000	108.446	-8.4	100	0.00
64	T	1,2,3-Trichloropropane	100.000	120.720	-20.7#	100	0.00
65	T	Isopropylbenzene	100.000	110.122	-10.1	100	0.00
66	T	n-Propylbenzene	100.000	104.572	-4.6	100	0.00
67	T	trans-1,4-Dichloro-2-butene	200.000	202.435	-1.2	100	0.00
68	T	2-Chlorotoluene	100.000	104.572	-4.6	100	0.00
69	T	4-Chlorotoluene	100.000	104.637	-4.6	100	0.00
70	T	1,3,5-Trimethylbenzene	100.000	108.998	-9.0	100	0.00
71	T	tert-Butylbenzene	100.000	108.768	-8.8	100	0.00
72	T	1,2,4-Trimethylbenzene	100.000	109.636	-9.6	100	0.00
73	T	sec-Butylbenzene	100.000	108.568	-8.6	100	0.00
74	T	1,3-Dichlorobenzene	100.000	108.147	-8.1	100	0.00
75	T	4-Isopropyltoluene	100.000	108.927	-8.9	100	0.00
76	T	1,4-Dichlorobenzene	100.000	100.506	-0.5	100	0.00
77	T	1,2-Dichlorobenzene	100.000	107.433	-7.4	100	0.00
78	T	n-Butylbenzene	100.000	112.037	-12.0	100	0.00
79	T	1,2-Dibromo-3-chloropropane	100.000	108.234	-8.2	100	0.00
80	T	1,2,4-Trichlorobenzene	100.000	115.216	-15.2	100	0.00
81	T	Hexachlorobutadiene	100.000	106.453	-6.5	100	0.00
82	T	Naphthalene	100.000	109.486	-9.5	100	0.00
83	T	1,2,3-Trichlorobenzene	100.000	121.474	-21.5#	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971482.D
Acq On : 12 Jan 2022 1:45 pm
Operator : ORM
Sample : ICAL 8260 150 W (150uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 12 15:36:45 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	150.000	156.982	-4.7	100	0.00
3	pcc	Chloromethane	150.000	147.702	1.5	100	0.00
4	ccc	Vinyl chloride	150.000	146.664	2.2	100	0.00
5	T	Bromomethane	150.000	121.251	19.2	100	0.00
6	T	Chloroethane	150.000	126.591	15.6	100	0.00
7	T	Trichlorofluoromethane	150.000	147.819	1.5	100	0.00
8	T	Acrolein	150.000	142.740	4.8	100	0.00
9	ccc	1,1-Dichloroethene	-1.000	127.356	0.0	100	0.00
10		Freon-113	150.000	149.609	0.3	100	0.00
11	T	Acetone	300.000	294.590	1.8	100	0.00
12	T	Iodomethane	300.000	288.321	3.9	100	0.00
13	T	Carbon disulfide	300.000	286.452	4.5	100	0.00
14		Methyl acetate	150.000	149.806	0.1	100	0.00
15	T	Vinyl acetate	300.000	342.873	-14.3	100	0.00
16	T	Methylene chloride	150.000	147.967	1.4	100	0.00
17	T	Acrylonitrile	150.000	155.415	-3.6	100	0.00
18		Methyl tert-butyl ether	150.000	152.385	-1.6	100	0.00
19	T	trans-1,2-Dichloroethene	150.000	152.683	-1.8	100	0.00
20	pcc	1,1-Dichloroethane	150.000	148.527	1.0	100	0.00
21	T	2,2-Dichloropropane	150.000	148.734	0.8	100	0.00
22	T	cis-1,2-Dichloroethene	150.000	156.061	-4.0	100	0.00
23	T	2-Butanone	300.000	322.527	-7.5	100	0.00
24	T	Bromochloromethane	150.000	157.054	-4.7	100	0.00
25	ccc	Chloroform	150.000	146.150	2.6	100	0.00
26		Cyclohexane	150.000	145.690	2.9	100	0.00
27	T	1,1,1-Trichloroethane	150.000	154.414	-2.9	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	48.557	2.9	100	0.00
30	T	1,1-Dichloropropene	150.000	148.158	1.2	100	0.00
31	T	Carbon tetrachloride	150.000	158.835	-5.9	100	0.00
32	T	Benzene	150.000	148.586	0.9	100	0.00
33	T	1,2-Dichloroethane	-1.000	144.320	0.0	100	0.00
34	M	Trichloroethene	150.000	154.053	-2.7	100	0.00
35		Methylcyclohexane	150.000	149.194	0.5	100	0.00
36	ccc	1,2-Dichloropropane	150.000	151.054	-0.7	100	0.00
37	T	Dibromomethane	150.000	152.112	-1.4	100	0.00
38		1,4-Dioxane	1500.000	1556.572	-3.8	100	0.00
39	T	Bromodichloromethane	150.000	157.417	-4.9	100	0.00
40	T	2-Chloroethyl vinyl ether	-1.000	387.867	0.0	100	0.00
41	T	cis-1,3-Dichloropropene	150.000	172.621	-15.1	100	0.00
42	T	4-Methyl-2-pentanone	300.000	338.222	-12.7	100	0.00
43	S	Toluene-d8	50.000	49.877	0.2	100	0.00
44	ccc	Toluene	150.000	150.776	-0.5	100	0.00
45	T	trans-1,3-Dichloropropene	150.000	172.621	-15.1	100	0.00
46	T	1,1,2-Trichloroethane	150.000	158.395	-5.6	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	300.000	333.944	-11.3	100	0.00
49	T	Tetrachloroethene	150.000	152.160	-1.4	100	0.00
50	T	1,3-Dichloropropane	150.000	153.460	-2.3	100	0.00
51	T	Dibromochloromethane	150.000	167.560	-11.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971482.D
Acq On : 12 Jan 2022 1:45 pm
Operator : ORM
Sample : ICAL 8260 150 W (150uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 12 15:36:45 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	150.000	163.988	-9.3	100	0.00
53	pcc	Chlorobenzene	150.000	148.619	0.9	100	0.00
54	T	1,1,1,2-Tetrachloroethane	150.000	162.538	-8.4	100	0.00
55	ccc	Ethylbenzene	150.000	148.734	0.8	100	0.00
56	T	m,p-Xylene	300.000	293.524	2.2	100	0.00
57	T	o-Xylene	150.000	153.370	-2.2	100	0.00
58	T	Styrene	150.000	158.484	-5.7	100	0.00
59	pcc	Bromoform	150.000	177.200	-18.1	100	0.00
60	S	4-Bromofluorobenzene	50.000	49.768	0.5	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	150.000	157.715	-5.1	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	150.000	155.004	-3.3	100	0.00
64	T	1,2,3-Trichloropropane	150.000	177.261	-18.2	100	0.00
65	T	Isopropylbenzene	150.000	164.575	-9.7	100	0.00
66	T	n-Propylbenzene	150.000	153.788	-2.5	100	0.00
67	T	trans-1,4-Dichloro-2-butene	300.000	306.945	-2.3	100	0.00
68	T	2-Chlorotoluene	150.000	153.788	-2.5	100	0.00
69	T	4-Chlorotoluene	150.000	151.850	-1.2	100	0.00
70	T	1,3,5-Trimethylbenzene	150.000	161.028	-7.4	100	0.00
71	T	tert-Butylbenzene	150.000	165.915	-10.6	100	0.00
72	T	1,2,4-Trimethylbenzene	150.000	162.657	-8.4	100	0.00
73	T	sec-Butylbenzene	150.000	163.758	-9.2	100	0.00
74	T	1,3-Dichlorobenzene	150.000	161.816	-7.9	100	0.00
75	T	4-Isopropyltoluene	150.000	163.266	-8.8	100	0.00
76	T	1,4-Dichlorobenzene	150.000	153.041	-2.0	100	0.00
77	T	1,2-Dichlorobenzene	150.000	157.728	-5.2	100	0.00
78	T	n-Butylbenzene	150.000	166.562	-11.0	100	0.00
79	T	1,2-Dibromo-3-chloropropane	150.000	167.116	-11.4	100	0.00
80	T	1,2,4-Trichlorobenzene	150.000	179.327	-19.6	100	0.00
81	T	Hexachlorobutadiene	150.000	162.454	-8.3	100	0.00
82	T	Naphthalene	150.000	166.492	-11.0	100	0.00
83	T	1,2,3-Trichlorobenzene	150.000	186.038	-24.0#	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971484.D
Acq On : 12 Jan 2022 2:29 pm
Operator : ORM
Sample : ICAL 8260 200 W (200uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jan 12 16:09:03 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 16:08:12 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	200.000	211.841	-5.9	100	0.00
3	pcc	Chloromethane	200.000	200.351	-0.2	100	0.00
4	ccc	Vinyl chloride	200.000	196.404	1.8	100	0.00
5	T	Bromomethane	200.000	165.248	17.4	100	0.00
6	T	Chloroethane	-1.000	170.935	0.0	100	0.00
7	T	Trichlorofluoromethane	200.000	195.106	2.4	100	0.00
8	T	Acrolein	200.000	188.203	5.9	100	0.00
9	ccc	1,1-Dichloroethene	-1.000	145.081	0.0	100	0.00
10		Freon-113	200.000	164.403	17.8	100	0.00
11	T	Acetone	400.000	327.880	18.0	100	0.00
12	T	Iodomethane	400.000	386.503	3.4	100	0.00
13	T	Carbon disulfide	400.000	389.624	2.6	100	0.00
14		Methyl acetate	200.000	198.791	0.6	100	0.00
15	T	Vinyl acetate	400.000	456.622	-14.2	100	0.00
16	T	Methylene chloride	200.000	201.330	-0.7	100	0.00
17	T	Acrylonitrile	200.000	205.608	-2.8	100	0.00
18		Methyl tert-butyl ether	200.000	206.457	-3.2	100	0.00
19	T	trans-1,2-Dichloroethene	200.000	201.299	-0.6	100	0.00
20	pcc	1,1-Dichloroethane	200.000	194.008	3.0	100	0.00
21	T	2,2-Dichloropropane	200.000	206.085	-3.0	100	0.00
22	T	cis-1,2-Dichloroethene	200.000	208.143	-4.1	100	0.00
23	T	2-Butanone	400.000	422.142	-5.5	100	0.00
24	T	Bromochloromethane	200.000	214.025	-7.0	100	0.00
25	ccc	Chloroform	200.000	196.539	1.7	100	0.00
26		Cyclohexane	200.000	196.522	1.7	100	0.00
27	T	1,1,1-Trichloroethane	200.000	207.748	-3.9	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	48.548	2.9	100	0.00
30	T	1,1-Dichloropropene	200.000	197.268	1.4	100	0.00
31	T	Carbon tetrachloride	200.000	212.648	-6.3	100	0.00
32	T	Benzene	200.000	196.445	1.8	100	0.00
33	T	1,2-Dichloroethane	-1.000	192.854	0.0	100	0.00
34	M	Trichloroethene	200.000	205.470	-2.7	100	0.00
35		Methylcyclohexane	200.000	197.823	1.1	100	0.00
36	ccc	1,2-Dichloropropane	200.000	200.202	-0.1	100	0.00
37	T	Dibromomethane	200.000	206.693	-3.3	100	0.00
38		1,4-Dioxane	2000.000	1734.516	13.3	100	0.00
39	T	Bromodichloromethane	200.000	215.150	-7.6	100	0.00
40	T	2-Chloroethyl vinyl ether	-1.000	519.149	0.0	100	0.00
41	T	cis-1,3-Dichloropropene	200.000	234.339	-17.2	100	0.00
42	T	4-Methyl-2-pentanone	400.000	448.070	-12.0	100	0.00
43	S	Toluene-d8	50.000	50.039	-0.1	100	0.00
44	ccc	Toluene	200.000	199.012	0.5	100	0.00
45	T	trans-1,3-Dichloropropene	200.000	234.339	-17.2	100	0.00
46	T	1,1,2-Trichloroethane	200.000	214.715	-7.4	100	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
48	T	2-Hexanone	400.000	418.660	-4.7	100	0.00
49	T	Tetrachloroethene	200.000	201.628	-0.8	100	0.00
50	T	1,3-Dichloropropane	200.000	202.106	-1.1	100	0.00
51	T	Dibromochloromethane	200.000	225.866	-12.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971484.D
Acq On : 12 Jan 2022 2:29 pm
Operator : ORM
Sample : ICAL 8260 200 W (200uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jan 12 16:09:03 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 16:08:12 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	200.000	223.412	-11.7	100	0.00
53	pcc	Chlorobenzene	200.000	198.101	0.9	100	0.00
54	T	1,1,1,2-Tetrachloroethane	200.000	216.324	-8.2	100	0.00
55	ccc	Ethylbenzene	200.000	193.233	3.4	100	0.00
56	T	m,p-Xylene	400.000	382.051	4.5	100	0.00
57	T	o-Xylene	200.000	203.365	-1.7	100	0.00
58	T	Styrene	200.000	208.424	-4.2	100	0.00
59	pcc	Bromoform	200.000	242.908	-21.5#	100	0.00
60	S	4-Bromofluorobenzene	50.000	49.592	0.8	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	200.000	214.310	-7.2	100	0.00
63	pcc	1,1,2,2-Tetrachloroethane	200.000	206.197	-3.1	100	0.00
64	T	1,2,3-Trichloropropane	200.000	236.303	-18.2	100	0.00
65	T	Isopropylbenzene	200.000	217.213	-8.6	100	0.00
66	T	n-Propylbenzene	200.000	204.995	-2.5	100	0.00
67	T	trans-1,4-Dichloro-2-butene	400.000	407.440	-1.9	100	0.00
68	T	2-Chlorotoluene	200.000	204.995	-2.5	100	0.00
69	T	4-Chlorotoluene	200.000	202.011	-1.0	100	0.00
70	T	1,3,5-Trimethylbenzene	200.000	213.602	-6.8	100	0.00
71	T	tert-Butylbenzene	200.000	222.579	-11.3	100	0.00
72	T	1,2,4-Trimethylbenzene	200.000	218.372	-9.2	100	0.00
73	T	sec-Butylbenzene	200.000	220.491	-10.2	100	0.00
74	T	1,3-Dichlorobenzene	200.000	218.091	-9.0	100	0.00
75	T	4-Isopropyltoluene	200.000	221.211	-10.6	100	0.00
76	T	1,4-Dichlorobenzene	200.000	207.386	-3.7	100	0.00
77	T	1,2-Dichlorobenzene	200.000	212.461	-6.2	100	0.00
78	T	n-Butylbenzene	200.000	225.995	-13.0	100	0.00
79	T	1,2-Dibromo-3-chloropropane	200.000	206.329	-3.2	100	0.00
80	T	1,2,4-Trichlorobenzene	200.000	253.942	-27.0#	100	0.00
81	T	Hexachlorobutadiene	200.000	237.704	-18.9	100	0.00
82	T	Naphthalene	200.000	202.634	-1.3	100	0.00
83	T	1,2,3-Trichlorobenzene	-1.000	261.409	0.0	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971487.D
Acq On : 12 Jan 2022 3:35 pm
Operator : ORM
Sample : ICV 8260 020 W (20uL/50mL)
Misc : ICV 8260B_W/624.1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jan 12 15:51:13 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	96	0.00
2	T	Dichlorodifluoromethane	20.000	20.847	-4.2	104	0.00
3	pcc	Chloromethane	20.000	20.766	-3.8	104	0.00
4	ccc	Vinyl chloride	20.000	20.592	-3.0	106	0.00
5	T	Bromomethane	20.000	21.361	-6.8	107	0.00
6	T	Chloroethane	20.000	21.319	-6.6	106	0.00
7	T	Trichlorofluoromethane	20.000	21.871	-9.4	104	0.00
8	T	Acrolein	20.000	20.707	-3.5	96	0.00
9	ccc	1,1-Dichloroethene	20.000	17.865	10.7	73	0.00
10		Freon-113	20.000	19.536	2.3	84	0.00
11	T	Acetone	40.000	40.151	-0.4	78	0.00
12	T	Iodomethane	40.000	43.498	-8.7	104	0.00
13	T	Carbon disulfide	40.000	43.614	-9.0	105	0.00
14		Methyl acetate	20.000	20.176	-0.9	101	0.00
15	T	Vinyl acetate	40.000	45.374	-13.4	108	0.00
16	T	Methylene chloride	20.000	21.430	-7.1	103	0.00
17	T	Acrylonitrile	20.000	19.853	0.7	99	0.00
18		Methyl tert-butyl ether	20.000	21.604	-8.0	101	0.00
19	T	trans-1,2-Dichloroethene	20.000	22.122	-10.6	102	0.00
20	pcc	1,1-Dichloroethane	20.000	21.871	-9.4	103	0.00
21	T	2,2-Dichloropropane	20.000	21.052	-5.3	101	0.00
22	T	cis-1,2-Dichloroethene	20.000	21.833	-9.2	102	0.00
23	T	2-Butanone	40.000	39.353	1.6	94	0.00
24	T	Bromochloromethane	20.000	22.051	-10.3	99	0.00
25	ccc	Chloroform	20.000	21.085	-5.4	102	0.00
26		Cyclohexane	20.000	23.019	-15.1	104	0.00
27	T	1,1,1-Trichloroethane	20.000	21.301	-6.5	104	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	97	0.00
29	S	Dibromofluoromethane	50.000	51.942	-3.9	100	0.00
30	T	1,1-Dichloropropene	20.000	21.084	-5.4	100	0.00
31	T	Carbon tetrachloride	20.000	21.259	-6.3	103	0.00
32	T	Benzene	20.000	21.000	-5.0	98	0.00
33	T	1,2-Dichloroethane	20.000	20.958	-4.8	98	0.00
34	M	Trichloroethene	20.000	21.077	-5.4	101	0.00
35		Methylcyclohexane	20.000	21.447	-7.2	102	0.00
36	ccc	1,2-Dichloropropane	20.000	21.013	-5.1	97	0.00
37	T	Dibromomethane	20.000	21.465	-7.3	99	0.00
38		1,4-Dioxane	200.000	148.833	25.6#	64	0.00
39	T	Bromodichloromethane	20.000	21.108	-5.5	97	0.00
40	T	2-Chloroethyl vinyl ether	40.000	46.067	-15.2	92	0.00
41	T	cis-1,3-Dichloropropene	20.000	21.135	-5.7	98	0.00
42	T	4-Methyl-2-pentanone	40.000	42.915	-7.3	95	0.00
43	S	Toluene-d8	50.000	50.482	-1.0	97	0.00
44	ccc	Toluene	20.000	20.777	-3.9	98	0.00
45	T	trans-1,3-Dichloropropene	20.000	21.135	-5.7	98	0.00
46	T	1,1,2-Trichloroethane	20.000	21.015	-5.1	95	0.00
47	I	Chlorobenzene-d5	50.000	50.000	0.0	99	0.00
48	T	2-Hexanone	40.000	42.816	-7.0	94	0.00
49	T	Tetrachloroethene	20.000	20.245	-1.2	99	0.00
50	T	1,3-Dichloropropane	20.000	20.525	-2.6	96	0.00
51	T	Dibromochloromethane	20.000	20.786	-3.9	97	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971487.D
Acq On : 12 Jan 2022 3:35 pm
Operator : ORM
Sample : ICV 8260 020 W (20uL/50mL)
Misc : ICV 8260B_W/624.1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jan 12 15:51:13 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 100%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	T	1,2-Dibromoethane	20.000	21.648	-8.2	99	0.00
53	pcc	Chlorobenzene	20.000	20.257	-1.3	97	0.00
54	T	1,1,1,2-Tetrachloroethane	20.000	21.513	-7.6	99	0.00
55	ccc	Ethylbenzene	20.000	21.489	-7.4	99	0.00
56	T	m,p-Xylene	40.000	43.429	-8.6	100	0.00
57	T	o-Xylene	20.000	22.013	-10.1	100	0.00
58	T	Styrene	20.000	22.451	-12.3	99	0.00
59	pcc	Bromoform	20.000	20.322	-1.6	97	0.00
60	S	4-Bromofluorobenzene	50.000	50.370	-0.7	100	0.00
61	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
62	T	Bromobenzene	20.000	20.424	-2.1	101	0.00
63	pcc	1,1,2,2-Tetrachloroethane	20.000	20.971	-4.9	104	0.00
64	T	1,2,3-Trichloropropane	20.000	20.950	-4.7	102	0.00
65	T	Isopropylbenzene	20.000	21.522	-7.6	102	0.00
66	T	n-Propylbenzene	20.000	20.656	-3.3	102	0.00
67	T	trans-1,4-Dichloro-2-butene	40.000	36.022	9.9	98	0.00
68	T	2-Chlorotoluene	20.000	20.656	-3.3	102	0.00
69	T	4-Chlorotoluene	20.000	21.010	-5.1	101	0.00
70	T	1,3,5-Trimethylbenzene	20.000	22.193	-11.0	103	0.00
71	T	tert-Butylbenzene	20.000	22.039	-10.2	103	0.00
72	T	1,2,4-Trimethylbenzene	20.000	22.456	-12.3	102	0.00
73	T	sec-Butylbenzene	20.000	22.182	-10.9	104	0.00
74	T	1,3-Dichlorobenzene	20.000	21.199	-6.0	102	0.00
75	T	4-Isopropyltoluene	20.000	22.525	-12.6	103	0.00
76	T	1,4-Dichlorobenzene	20.000	20.165	-0.8	98	0.00
77	T	1,2-Dichlorobenzene	20.000	21.381	-6.9	102	0.00
78	T	n-Butylbenzene	20.000	22.439	-12.2	102	0.00
79	T	1,2-Dibromo-3-chloropropane	20.000	18.785	6.1	104	0.00
80	T	1,2,4-Trichlorobenzene	20.000	21.375	-6.9	100	0.00
81	T	Hexachlorobutadiene	20.000	21.203	-6.0	100	0.00
82	T	Naphthalene	20.000	20.364	-1.8	102	0.00
83	T	1,2,3-Trichlorobenzene	20.000	22.870	-14.4	99	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971468.D
Acq On : 12 Jan 2022 8:30 am
Operator : ORM
Sample : ICAL 8260 0.5 W (0.5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 12 15:38:09 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.793	168	196513	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	4.348	114	310246	50.00	ug/L		0.00
47) Chlorobenzene-d5	6.628	117	303142	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	8.689	152	167819	50.00	ug/L		-0.01
System Monitoring Compounds							
29) Dibromofluoromethane	3.775	113	95181	50.08	ug/L		0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 100.16%				
43) Toluene-d8	5.445	98	365458	49.65	ug/L		0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 99.30%				
60) 4-Bromofluorobenzene	7.652	95	147202	49.26	ug/L		-0.01
Spiked Amount 50.000	Range 64 - 125		Recovery = 98.52%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.129	85	895	0.52	ug/L		97
3) Chloromethane	1.251	50	640	0.54	ug/L		90
4) Vinyl chloride	1.337	62	692	0.61	ug/L		92
5) Bromomethane	1.568	94	548m	0.74	ug/L		
6) Chloroethane	1.629	64	375	0.64	ug/L	#	43
7) Trichlorofluoromethane	1.806	101	1067	0.58	ug/L	#	93
8) Acrolein	0.000		0	N.D.			
9) 1,1-Dichloroethene	2.172	96	416	0.37	ug/L		82
10) Freon-113	2.190	101	595	0.50	µg/L	#	77
11) Acetone	2.190	58	395	2.35	ug/L		91
12) Iodomethane	2.269	142	2778	1.09	ug/L		91
13) Carbon disulfide	2.330	76	4267	1.08	ug/L		100
14) Methyl acetate	2.422	43	879	0.57	µg/L		92
15) Vinyl acetate	3.025	43	2756	0.92	ug/L	#	74
16) Methylene chloride	2.519	84	3053	0.19	ug/L		96
17) Acrylonitrile	2.684	53	234	0.30	ug/L	#	78
18) Methyl tert-butyl ether	2.708	73	2155	0.52	µg/L	#	79
19) trans-1,2-Dichloroethene	2.720	96	644	0.45	ug/L		91
20) 1,1-Dichloroethane	3.025	63	1384	0.51	ug/L		96
21) 2,2-Dichloropropane	3.428	77	552	0.48	ug/L	#	54
22) cis-1,2-Dichloroethene	3.428	96	745	0.48	ug/L	#	80
23) 2-Butanone	3.610	72	613	2.77	ug/L	#	1
24) Bromochloromethane	3.598	128	367	0.45	ug/L	#	78
25) Chloroform	3.659	83	1455	0.54	ug/L		97
26) Cyclohexane	3.836	56	1226	0.51	µg/L	#	91
27) 1,1,1-Trichloroethane	3.787	97	1116	0.51	ug/L	#	1
30) 1,1-Dichloropropene	3.897	110	362	0.48	ug/L		80
31) Carbon tetrachloride	3.897	119	882	0.52	ug/L		95
32) Benzene	4.037	78	2962	0.51	ug/L		98
33) 1,2-Dichloroethane	4.074	62	1086	0.54	ug/L	#	76
34) Trichloroethene	4.519	130	875	0.53	ug/L		84
35) Methylcyclohexane	4.696	55	962	0.51	µg/L		92
36) 1,2-Dichloropropane	4.714	63	746	0.50	ug/L	#	87
37) Dibromomethane	4.781	93	442	0.48	ug/L		88
38) 1,4-Dioxane	4.446	88	137	12.20	µg/L	#	17
39) Bromodichloromethane	4.903	83	820	0.45	ug/L	#	89
40) 2-Chloroethyl vinyl ether	5.122	63	656	0.76	µg/L		95
41) cis-1,3-Dichloropropene	5.244	75	892	0.43	ug/L	#	87
42) 4-Methyl-2-pentanone	5.122	43	550	0.83	ug/L	#	47
44) Toluene	5.506	92	1894	0.51	ug/L		81
45) trans-1,3-Dichloropropene	5.244	75	892	0.43	ug/L		93
46) 1,1,2-Trichloroethane	5.848	83	468m	0.44	ug/L		

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971468.D
Acq On : 12 Jan 2022 8:30 am
Operator : ORM
Sample : ICAL 8260 0.5 W (0.5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 12 15:38:09 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Hexanone	6.012	43	904	0.73	ug/L	#	88
49) Tetrachloroethene	5.915	166	886	0.53	ug/L		93
50) 1,3-Dichloropropane	5.976	76	1027	0.48	ug/L		97
51) Dibromochloromethane	5.915	129	609	0.45	ug/L	#	10
52) 1,2-Dibromoethane	6.250	107	538m	0.41	ug/L		
53) Chlorobenzene	6.659	112	2232	0.53	ug/L		97
54) 1,1,1,2-Tetrachloroethane	6.732	131	565	0.44	ug/L	#	71
55) Ethylbenzene	6.738	91	3129	0.48	ug/L	#	75
56) m,p-Xylene	6.848	91	4785	0.96	ug/L		99
57) o-Xylene	7.177	91	2284	0.45	ug/L		98
58) Styrene	7.195	104	1671	0.41	ug/L		95
59) Bromoform	7.354	173	398	0.42	ug/L	#	95
62) Bromobenzene	7.768	156	905	0.52	ug/L		76
63) 1,1,2,2-Tetrachloroethane	7.768	83	932	0.51	ug/L	#	83
64) 1,2,3-Trichloropropane	7.811	75	1316	0.52	ug/L	#	1
65) Isopropylbenzene	7.494	105	2935	0.46	ug/L		96
66) n-Propylbenzene	7.939	91	2293	0.52	ug/L	#	51
67) trans-1,4-Dichloro-2-b...	0.000		0	N.D.			
68) 2-Chlorotoluene	7.939	91	2293	0.52	ug/L		94
69) 4-Chlorotoluene	8.055	91	2483	0.51	ug/L		96
70) 1,3,5-Trimethylbenzene	8.036	105	2199	0.44	ug/L		99
71) tert-Butylbenzene	8.305	119	1756	0.41	ug/L	#	91
72) 1,2,4-Trimethylbenzene	8.366	105	2036	0.41	ug/L		92
73) sec-Butylbenzene	8.512	105	2555	0.43	ug/L		96
74) 1,3-Dichlorobenzene	8.616	146	1289	0.43	ug/L		86
75) 4-Isopropyltoluene	8.658	119	2142	0.43	ug/L		98
76) 1,4-Dichlorobenzene	8.707	146	1615	0.53	ug/L	#	71
77) 1,2-Dichlorobenzene	9.024	146	1352	0.48	ug/L		98
78) n-Butylbenzene	9.024	91	1590	0.40	ug/L		99
79) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.			
80) 1,2,4-Trichlorobenzene	10.493	180	485	0.32	ug/L	#	82
81) Hexachlorobutadiene	10.615	225	271	0.40	ug/L		92
82) Naphthalene	10.701	128	1331	0.72	ug/L		100
83) 1,2,3-Trichlorobenzene	10.871	180	505	0.37	ug/L		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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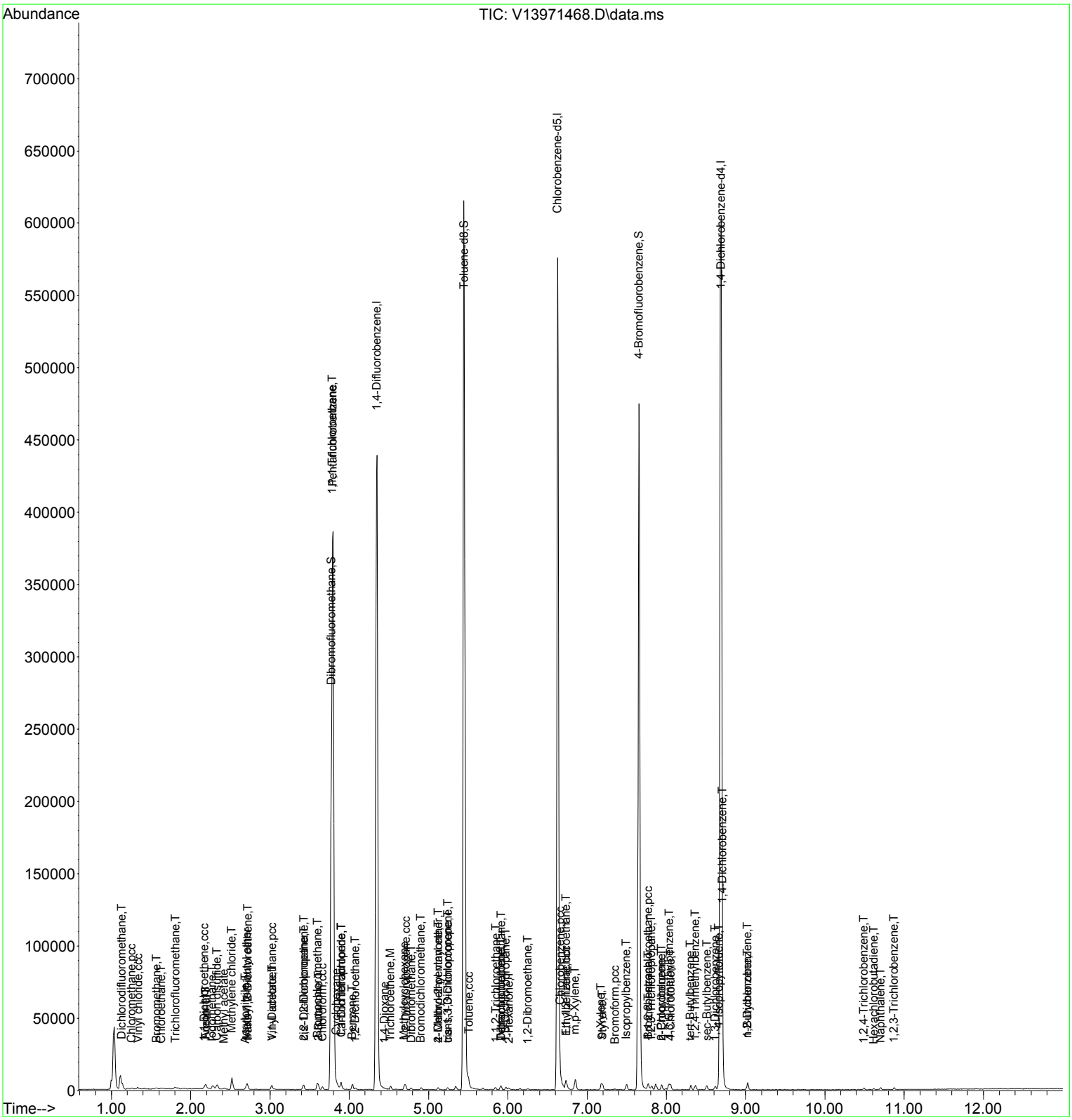
Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971468.D
Acq On : 12 Jan 2022 8:30 am
Operator : ORM
Sample : ICAL 8260 0.5 W (0.5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 6 Sample Multiplier: 1

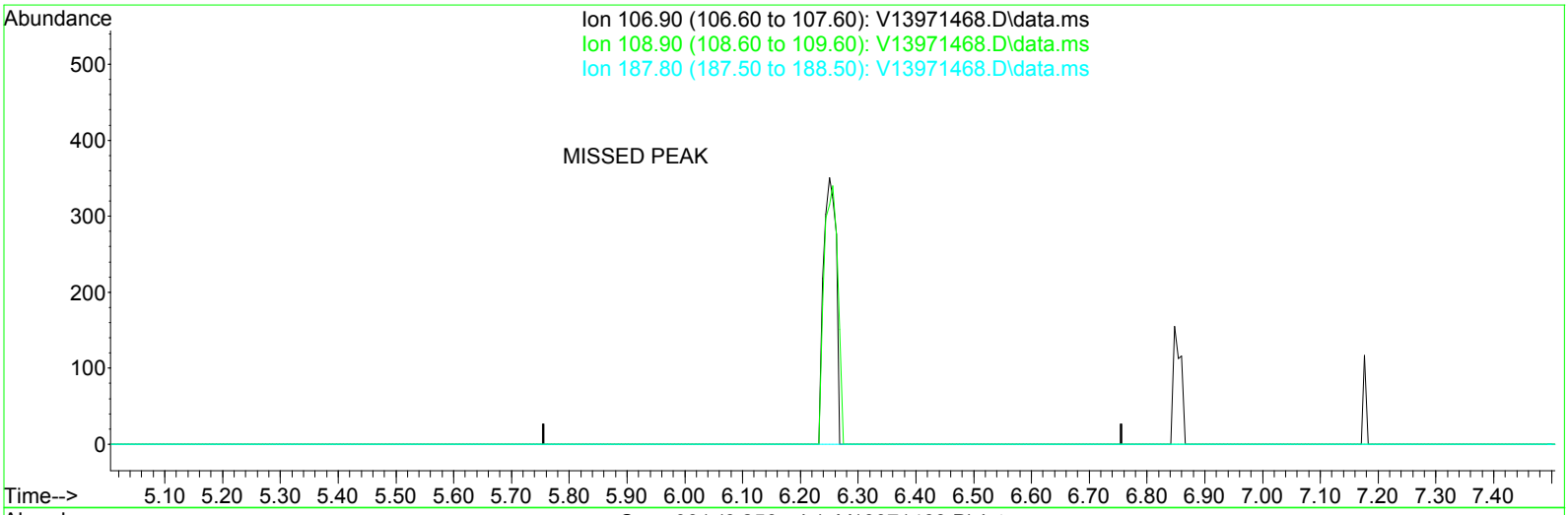
Quant Time: Jan 12 15:38:09 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

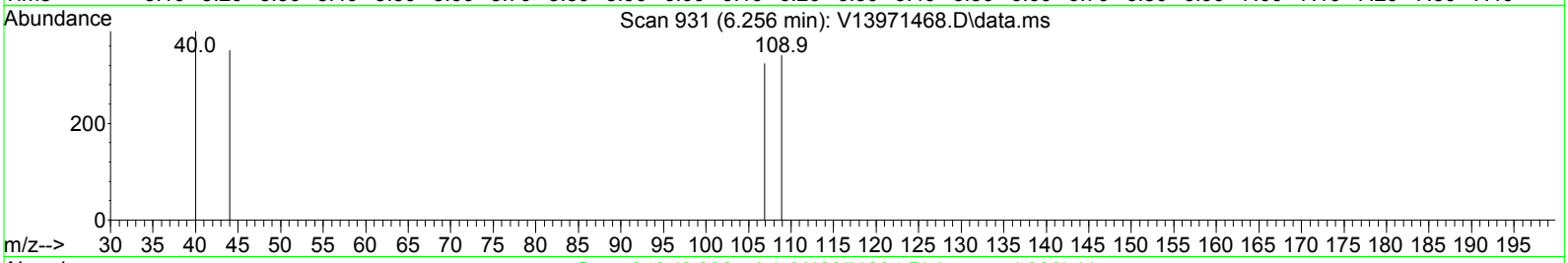


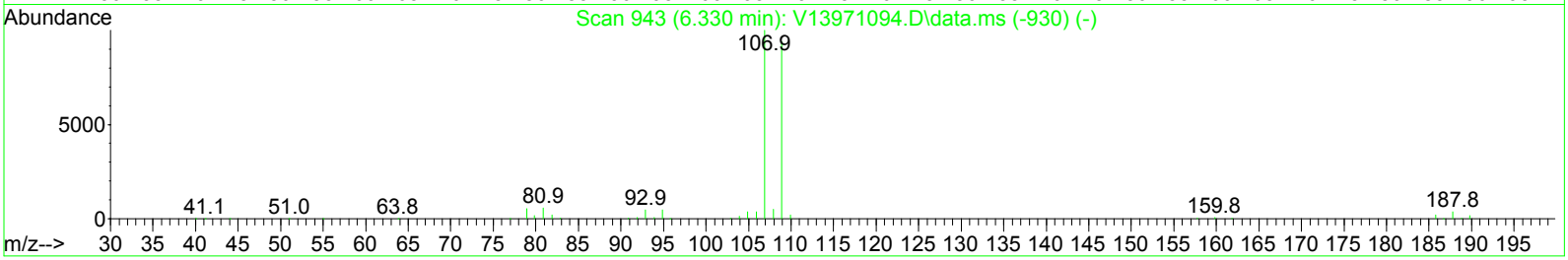
Quantitation Report (Qedit)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971468.D
Acq On : 12 Jan 2022 8:30 am
Operator : ORM
Sample : ICAL 8260 0.5 W (0.5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 12 15:31:11 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration







TIC: V13971468.D\data.ms

(52) 1,2-Dibromoethane (T)

6.256min (-6.256) 0.00 ug/L

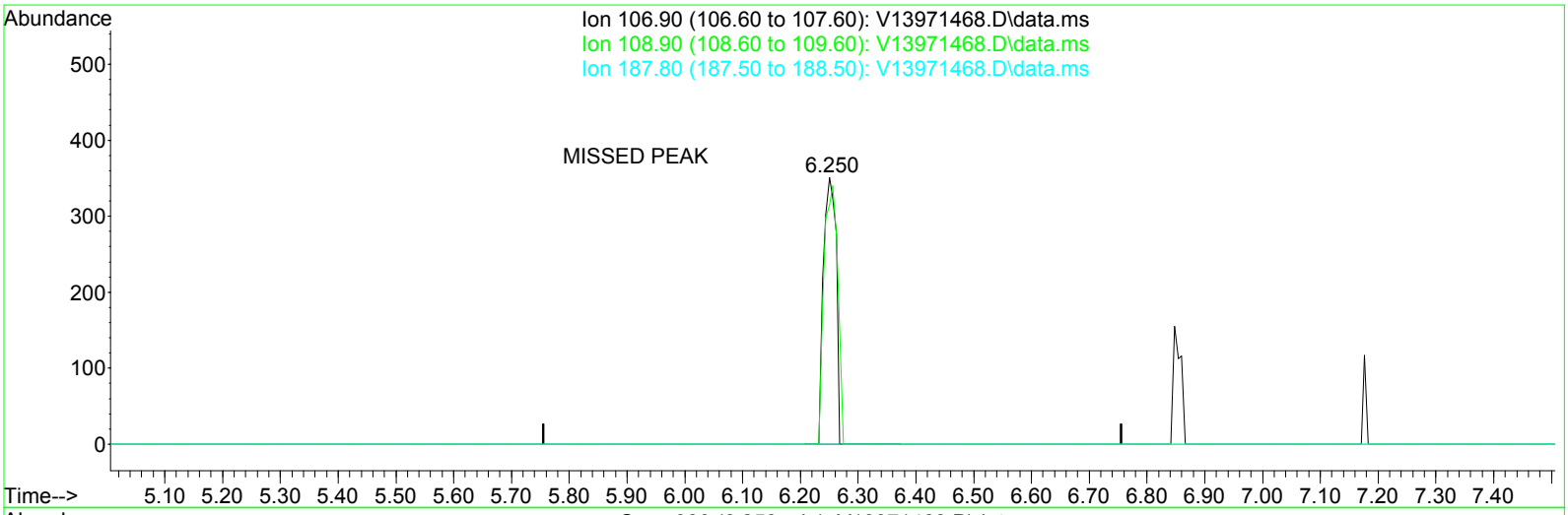
response 0

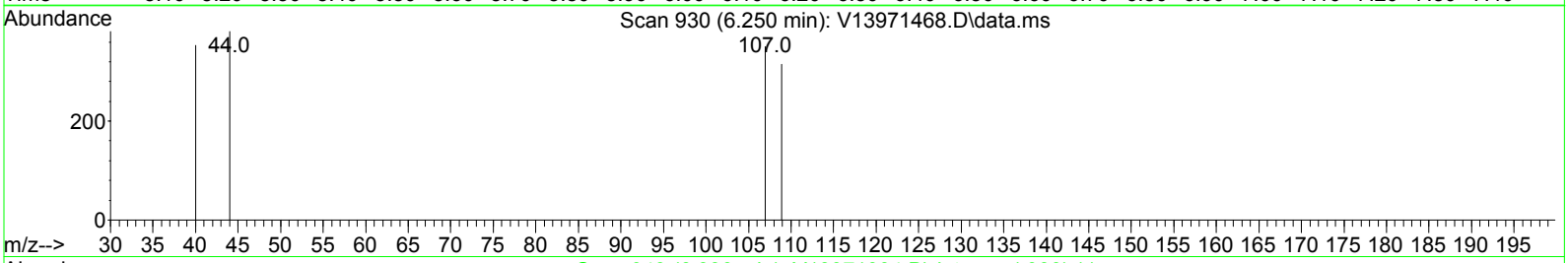
Ion	Exp%	Act%
106.90	100.00	0.00
108.90	93.60	0.00#
187.80	3.50	0.00#
0.00	0.00	0.00

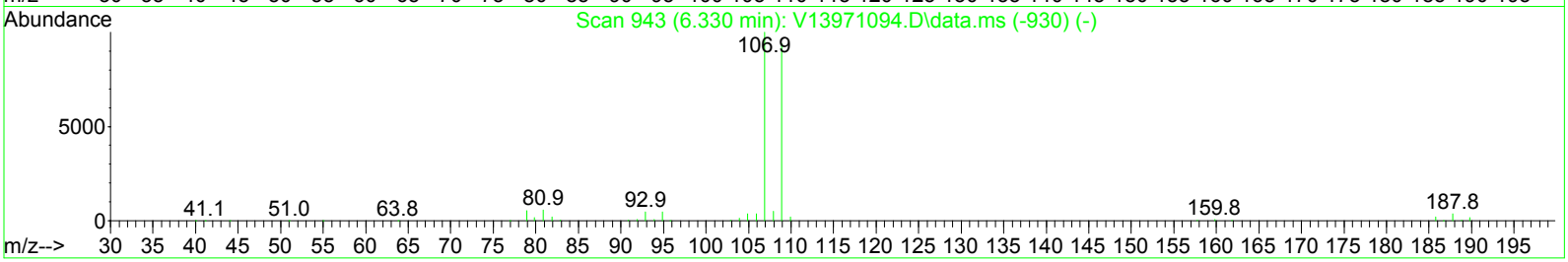
Quantitation Report (Qedit)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971468.D
Acq On : 12 Jan 2022 8:30 am
Operator : ORM
Sample : ICAL 8260 0.5 W (0.5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 12 15:31:11 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration







TIC: V13971468.D\data.ms

(52) 1,2-Dibromoethane (T)

6.250min (-0.006) 0.41 ug/L m

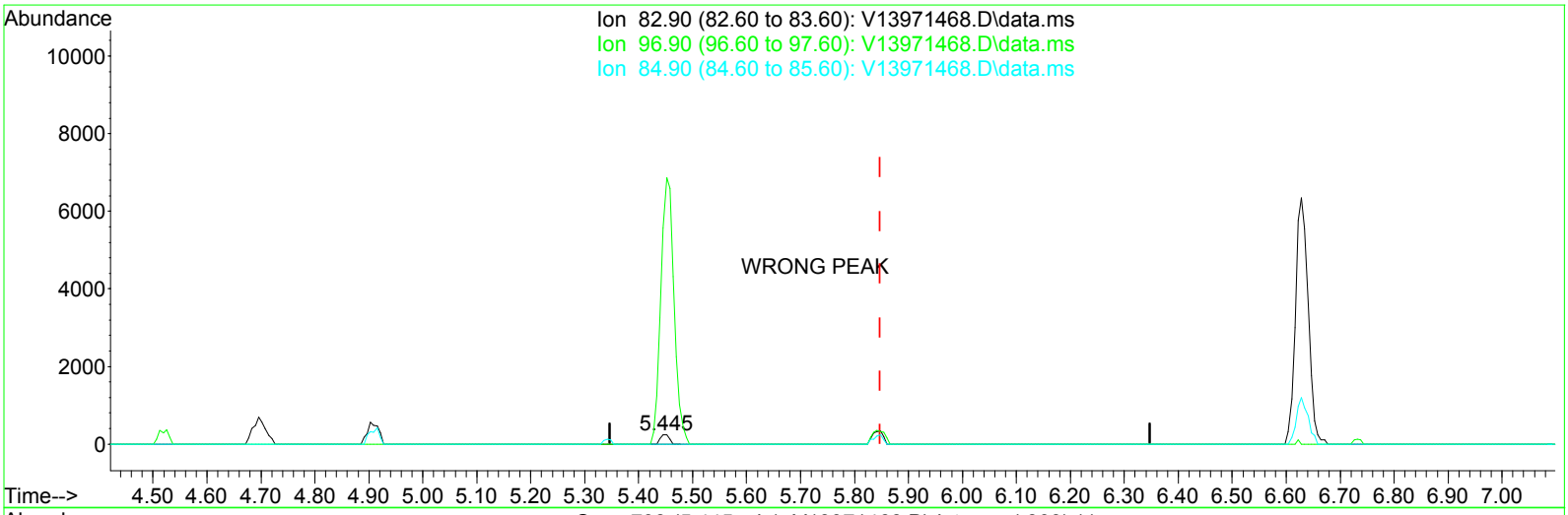
response 538

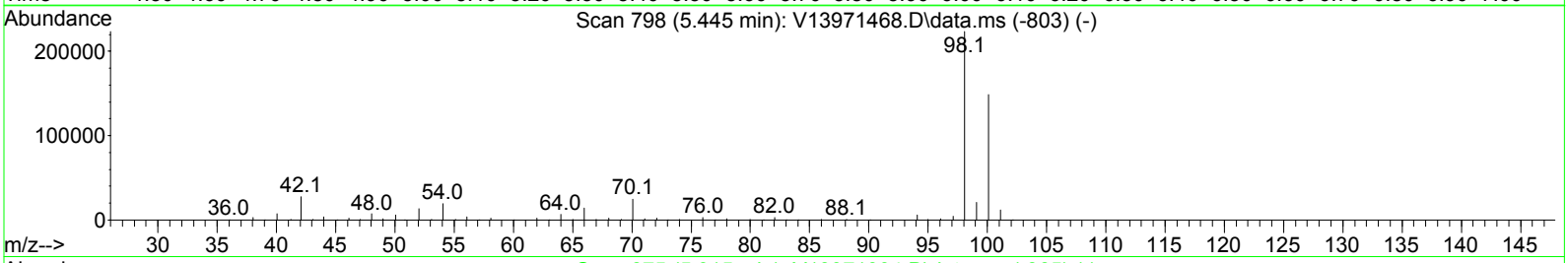
Ion	Exp%	Act%
106.90	100.00	100.00
108.90	93.60	89.74
187.80	3.50	0.00#
0.00	0.00	0.00

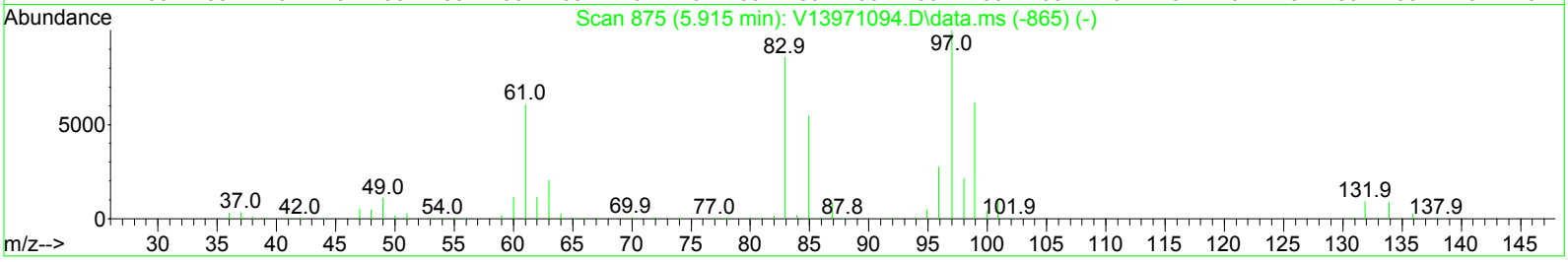
Quantitation Report (Qedit)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971468.D
Acq On : 12 Jan 2022 8:30 am
Operator : ORM
Sample : ICAL 8260 0.5 W (0.5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 12 15:31:11 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration







TIC: V13971468.D\data.ms

(46) 1,1,2-Trichloroethane (T)

5.445min (-0.403) 0.25 ug/L

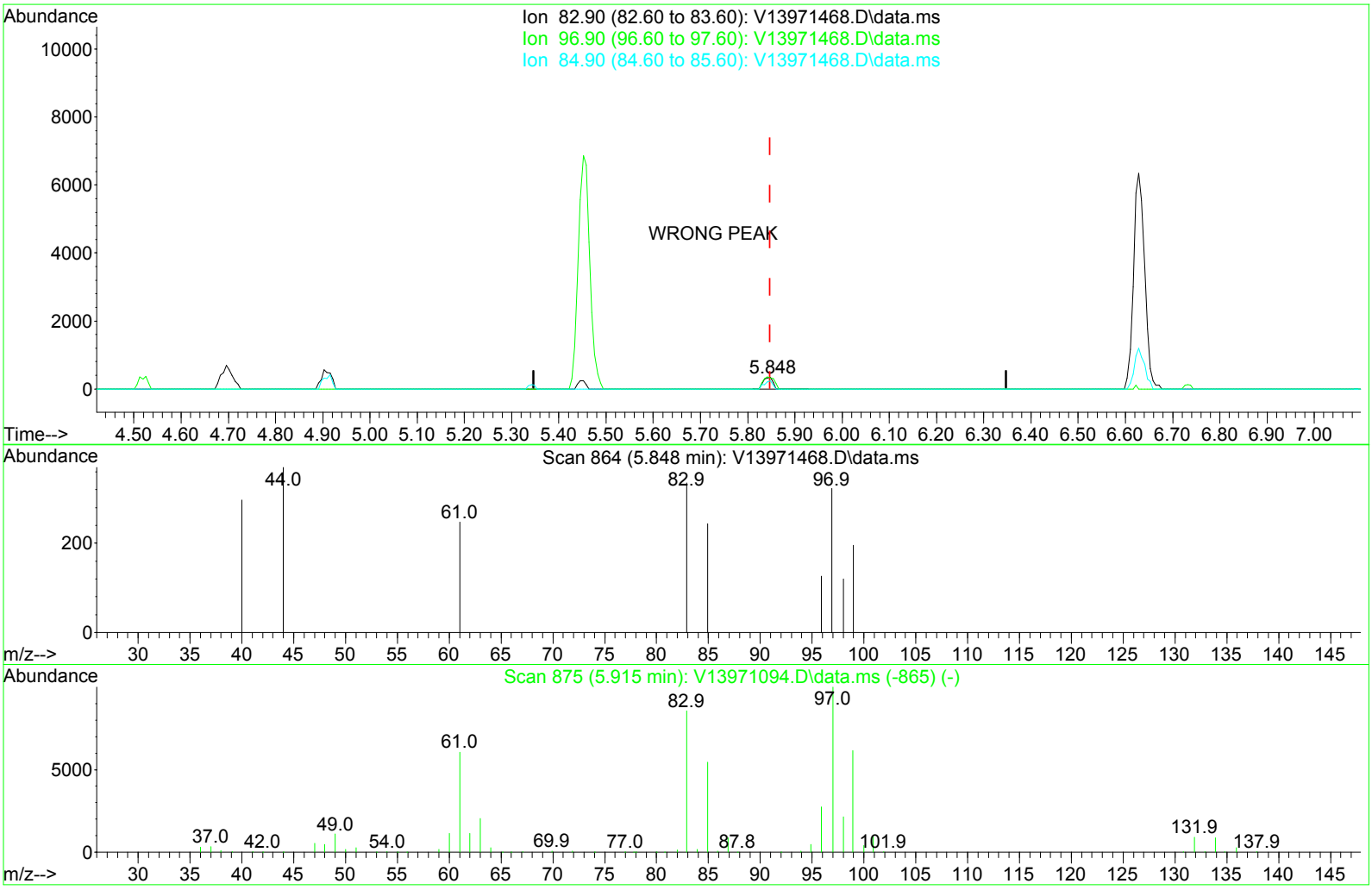
response 268

Ion	Exp%	Act%
82.90	100.00	100.00
96.90	122.90	2388.41#
84.90	65.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971468.D
Acq On : 12 Jan 2022 8:30 am
Operator : ORM
Sample : ICAL 8260 0.5 W (0.5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 12 15:31:11 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration



TIC: V13971468.D\data.ms

(46) 1,1,2-Trichloroethane (T)

5.848min (-0.000) 0.44 ug/L m

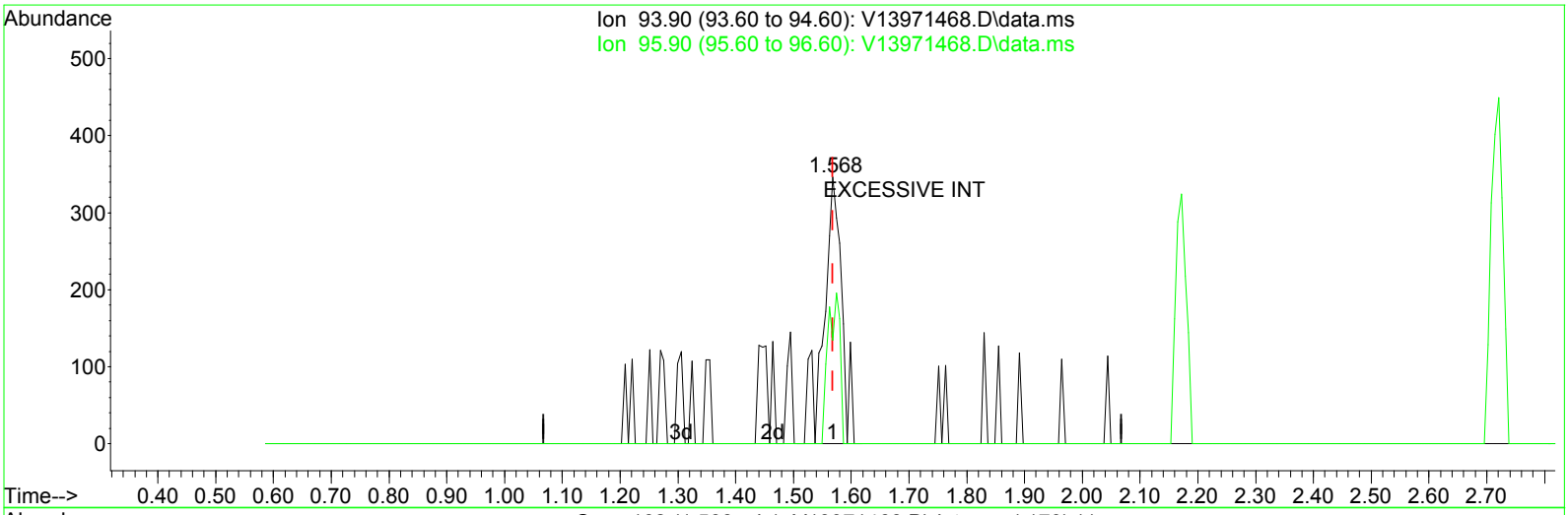
response 468

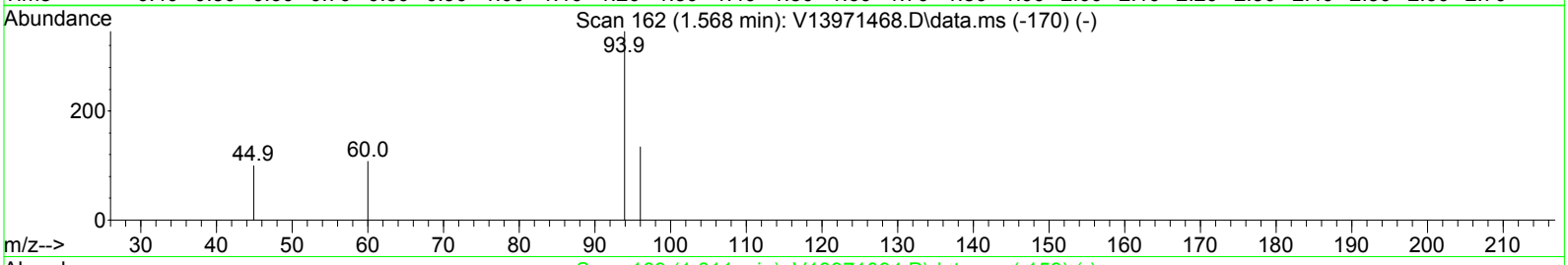
Ion	Exp%	Act%
82.90	100.00	100.00
96.90	122.90	96.13
84.90	65.30	72.62
0.00	0.00	0.00

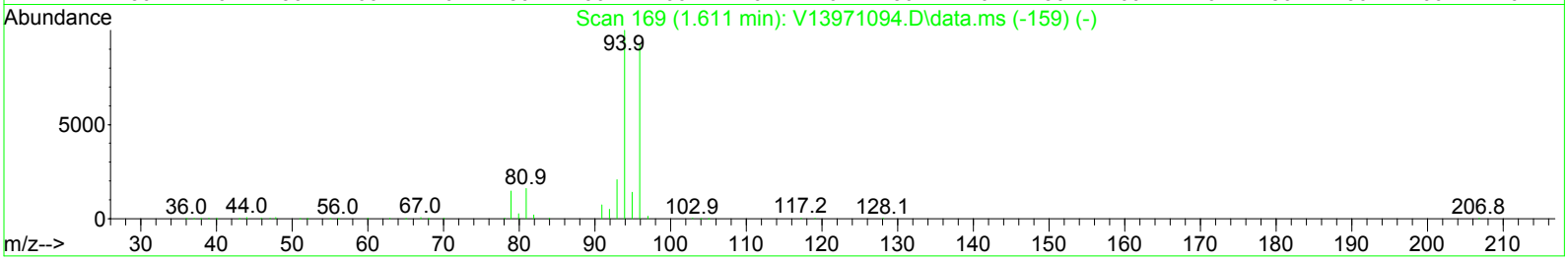
Quantitation Report (Qedit)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971468.D
Acq On : 12 Jan 2022 8:30 am
Operator : ORM
Sample : ICAL 8260 0.5 W (0.5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 12 15:32:12 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration







TIC: V13971468.D\data.ms

(5) Bromomethane (T)

1.568min (+ 0.000) 1.05 ug/L

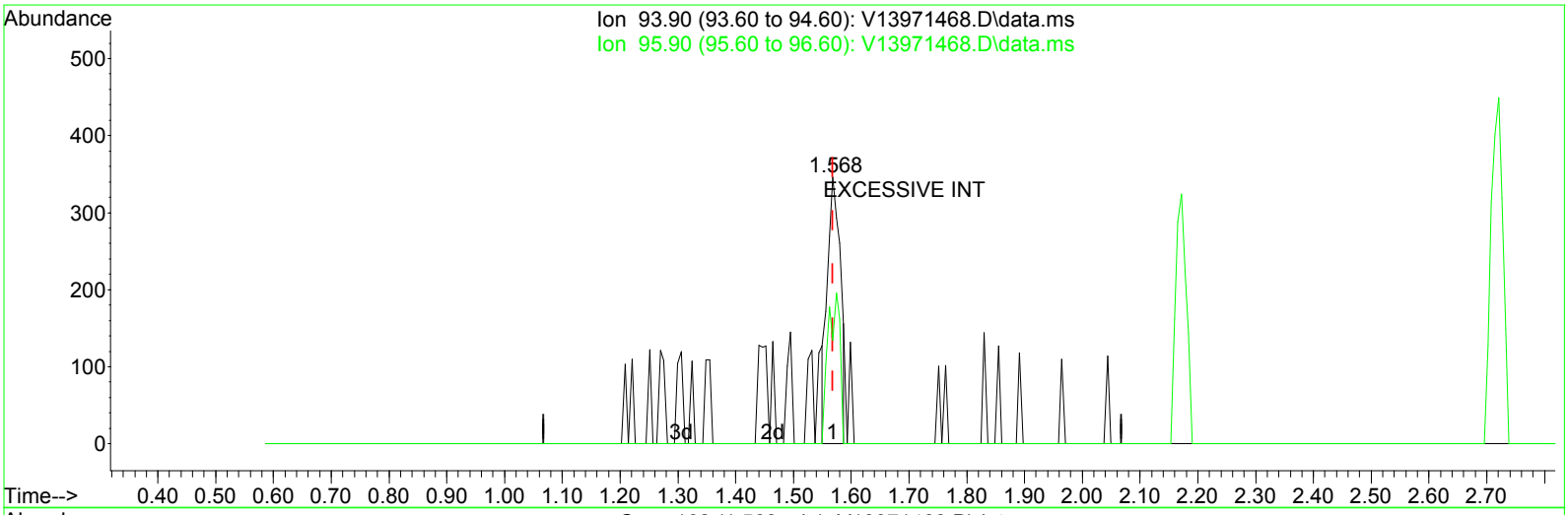
response 770

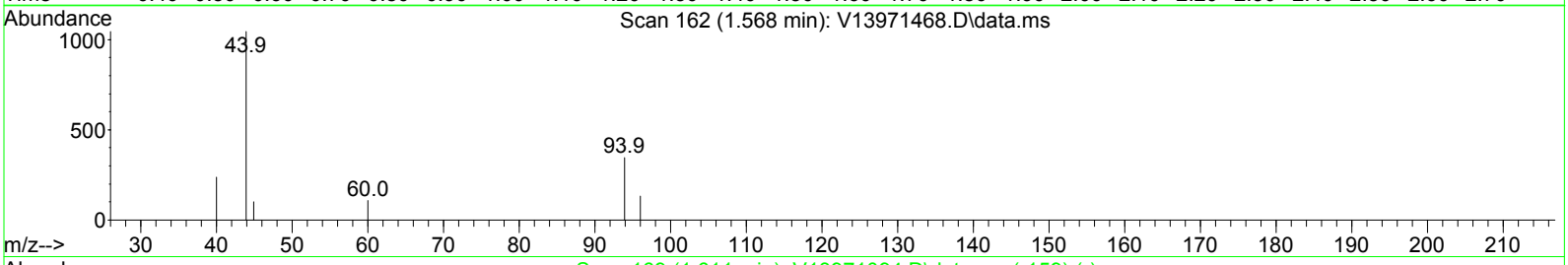
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	96.40	38.73#
0.00	0.00	0.00
0.00	0.00	0.00

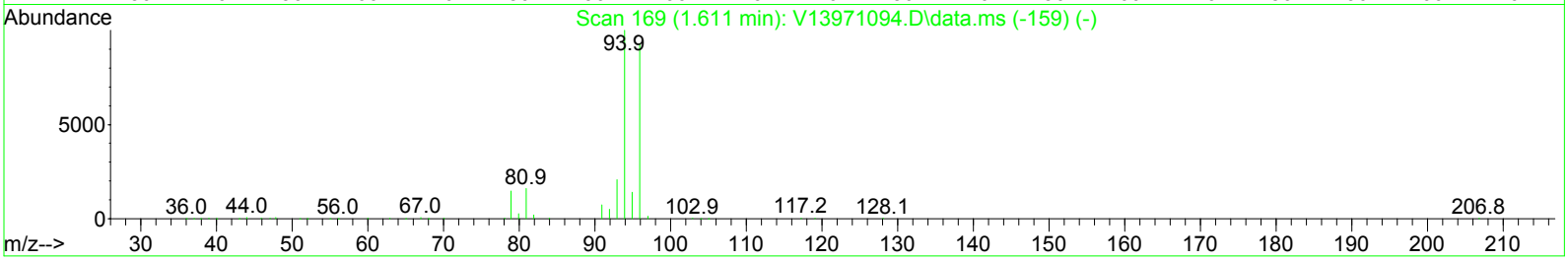
Quantitation Report (Qedit)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971468.D
Acq On : 12 Jan 2022 8:30 am
Operator : ORM
Sample : ICAL 8260 0.5 W (0.5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 12 15:32:12 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration







TIC: V13971468.D\data.ms

(5) Bromomethane (T)

1.568min (+ 0.000) 0.74 ug/L m

response 548

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	96.40	38.73#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971469.D
Acq On : 12 Jan 2022 8:52 am
Operator : ORM
Sample : ICAL 8260 001 W (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 12 15:33:46 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.794	168	196176	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	4.348	114	309985	50.00	ug/L		0.00
47) Chlorobenzene-d5	6.628	117	299492	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	8.689	152	169595	50.00	ug/L		-0.01
System Monitoring Compounds							
29) Dibromofluoromethane	3.775	113	94549	49.79	ug/L		0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 99.58%				
43) Toluene-d8	5.446	98	364800	49.60	ug/L		0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 99.20%				
60) 4-Bromofluorobenzene	7.653	95	147236	49.87	ug/L		-0.01
Spiked Amount 50.000	Range 64 - 125		Recovery = 99.74%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.123	85	1609	0.93	ug/L		98
3) Chloromethane	1.251	50	1230	1.04	ug/L		95
4) Vinyl chloride	1.337	62	1178	1.03	ug/L		88
5) Bromomethane	1.568	94	917	1.25	ug/L		85
6) Chloroethane	1.635	64	624	1.07	ug/L		95
7) Trichlorofluoromethane	1.806	101	1681	0.91	ug/L	#	81
8) Acrolein	0.000		0	N.D.			
9) 1,1-Dichloroethene	2.166	96	1286	1.15	ug/L		83
10) Freon-113	2.190	101	1311	1.11	µg/L		84
11) Acetone	2.190	58	565	3.36	ug/L		70
12) Iodomethane	2.276	142	4968	1.96	ug/L		97
13) Carbon disulfide	2.330	76	7894	1.99	ug/L		100
14) Methyl acetate	2.422	43	1516	0.98	µg/L		91
15) Vinyl acetate	3.019	43	4720	1.58	ug/L	#	88
16) Methylene chloride	2.519	84	3941	0.80	ug/L		89
17) Acrylonitrile	2.678	53	518	0.66	ug/L		92
18) Methyl tert-butyl ether	2.708	73	3780	0.92	µg/L	#	86
19) trans-1,2-Dichloroethene	2.721	96	1279	0.90	ug/L		94
20) 1,1-Dichloroethane	3.019	63	2585	0.95	ug/L		97
21) 2,2-Dichloropropane	3.422	77	1225	1.06	ug/L		99
22) cis-1,2-Dichloroethene	3.422	96	1322	0.85	ug/L		99
23) 2-Butanone	3.409	72	269	1.22	ug/L		68
24) Bromochloromethane	3.592	128	649	0.80	ug/L		89
25) Chloroform	3.666	83	2515	0.94	ug/L		90
26) Cyclohexane	3.836	56	2240	0.94	µg/L		87
27) 1,1,1-Trichloroethane	3.781	97	2163	1.00	ug/L	#	1
30) 1,1-Dichloropropene	3.897	110	804	1.07	ug/L		66
31) Carbon tetrachloride	3.897	119	1606	0.94	ug/L		91
32) Benzene	4.037	78	5439	0.94	ug/L		94
33) 1,2-Dichloroethane	4.080	62	2029	1.01	ug/L	#	76
34) Trichloroethene	4.519	130	1557	0.94	ug/L		95
35) Methylcyclohexane	4.696	55	1804	0.96	µg/L		98
36) 1,2-Dichloropropane	4.714	63	1377m	0.92	ug/L		
37) Dibromomethane	4.781	93	819	0.89	ug/L		86
38) 1,4-Dioxane	4.397	88	583	51.96	µg/L	#	17
39) Bromodichloromethane	4.909	83	1702	0.93	ug/L	#	97
40) 2-Chloroethyl vinyl ether	5.123	63	1489	1.72	µg/L		89
41) cis-1,3-Dichloropropene	5.238	75	1696	0.82	ug/L	#	93
42) 4-Methyl-2-pentanone	5.123	43	1090	1.64	ug/L	#	47
44) Toluene	5.501	92	3504	0.95	ug/L		89
45) trans-1,3-Dichloropropene	5.238	75	1696	0.82	ug/L		88
46) 1,1,2-Trichloroethane	5.842	83	935	0.89	ug/L		91

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971469.D
Acq On : 12 Jan 2022 8:52 am
Operator : ORM
Sample : ICAL 8260 001 W (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 12 15:33:46 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

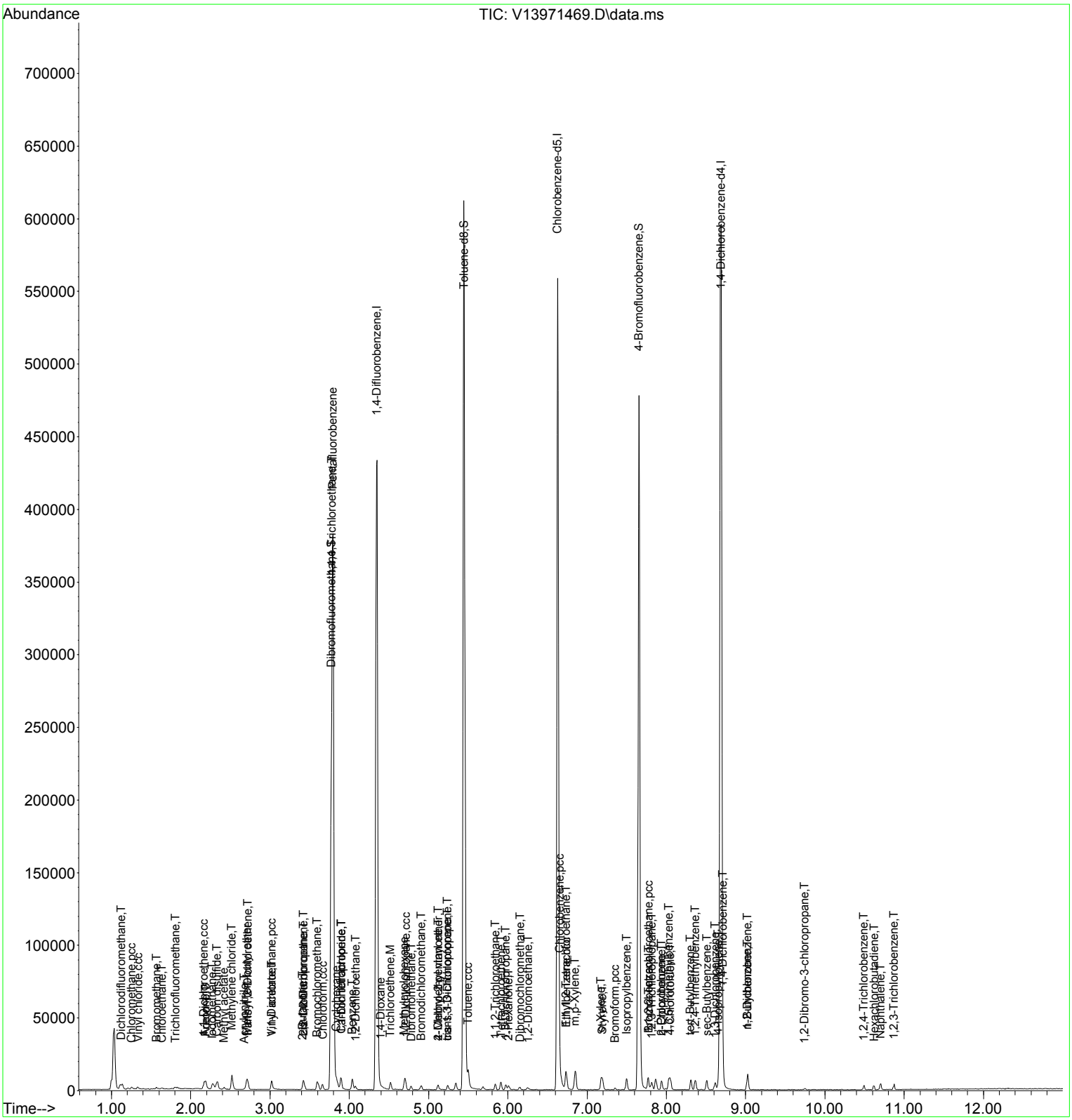
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Hexanone	6.007	43	1879	1.54	ug/L		99
49) Tetrachloroethene	5.915	166	1628	0.98	ug/L		98
50) 1,3-Dichloropropane	5.976	76	1987	0.93	ug/L		88
51) Dibromochloromethane	6.153	129	1121	0.83	ug/L		90
52) 1,2-Dibromoethane	6.256	107	1000	0.78	ug/L	#	83
53) Chlorobenzene	6.653	112	3992	0.97	ug/L		89
54) 1,1,1,2-Tetrachloroethane	6.732	131	1135	0.90	ug/L		80
55) Ethylbenzene	6.738	91	6104	0.95	ug/L	#	73
56) m,p-Xylene	6.848	91	9094	1.84	ug/L		98
57) o-Xylene	7.177	91	4642	0.92	ug/L		99
58) Styrene	7.195	104	3394	0.85	ug/L		96
59) Bromoform	7.354	173	749	0.80	ug/L	#	89
62) Bromobenzene	7.774	156	1558	0.89	ug/L		73
63) 1,1,2,2-Tetrachloroethane	7.774	83	1663	0.90	ug/L		97
64) 1,2,3-Trichloropropane	7.817	75	2094	0.82	ug/L	#	3
65) Isopropylbenzene	7.500	105	5476	0.85	ug/L		98
66) n-Propylbenzene	7.939	91	4037	0.90	ug/L	#	51
67) trans-1,4-Dichloro-2-b...	0.000		0	N.D.			
68) 2-Chlorotoluene	7.939	91	4037	0.90	ug/L		94
69) 4-Chlorotoluene	8.049	91	4349	0.88	ug/L		99
70) 1,3,5-Trimethylbenzene	8.031	105	4194	0.84	ug/L		99
71) tert-Butylbenzene	8.305	119	3708	0.85	ug/L		97
72) 1,2,4-Trimethylbenzene	8.366	105	3953	0.79	ug/L		97
73) sec-Butylbenzene	8.512	105	4827	0.80	ug/L		98
74) 1,3-Dichlorobenzene	8.616	146	2693	0.90	ug/L		88
75) 4-Isopropyltoluene	8.652	119	4025	0.79	ug/L		95
76) 1,4-Dichlorobenzene	8.713	146	2985	0.97	ug/L		97
77) 1,2-Dichlorobenzene	9.024	146	2489	0.88	ug/L		93
78) n-Butylbenzene	9.024	91	3356	0.84	ug/L		96
79) 1,2-Dibromo-3-chloropr...	9.744	75	225m	1.07	ug/L		
80) 1,2,4-Trichlorobenzene	10.493	180	1226	0.79	ug/L		92
81) Hexachlorobutadiene	10.621	225	614	0.91	ug/L		83
82) Naphthalene	10.701	128	3360	1.10	ug/L		100
83) 1,2,3-Trichlorobenzene	10.871	180	1136	0.82	ug/L		91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971469.D
Acq On : 12 Jan 2022 8:52 am
Operator : ORM
Sample : ICAL 8260 001 W (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 7 Sample Multiplier: 1

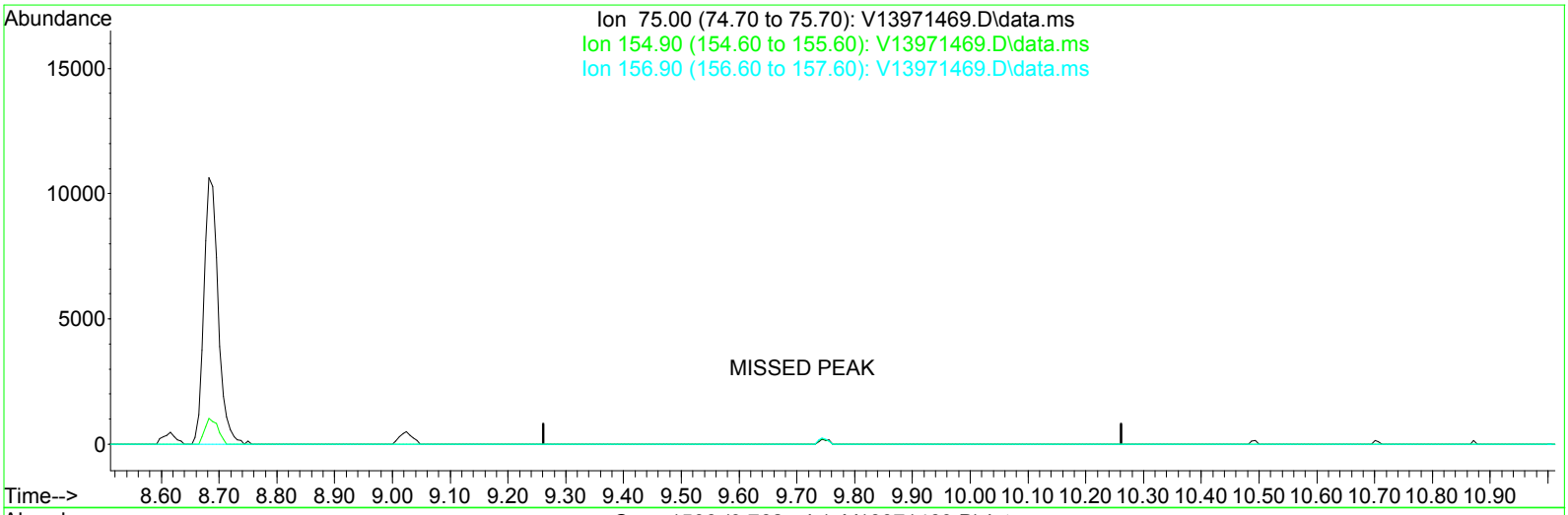
Quant Time: Jan 12 15:33:46 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

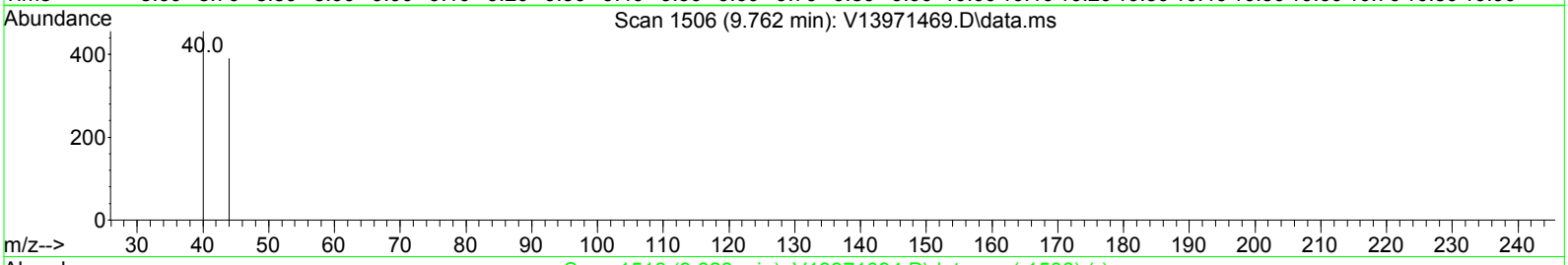


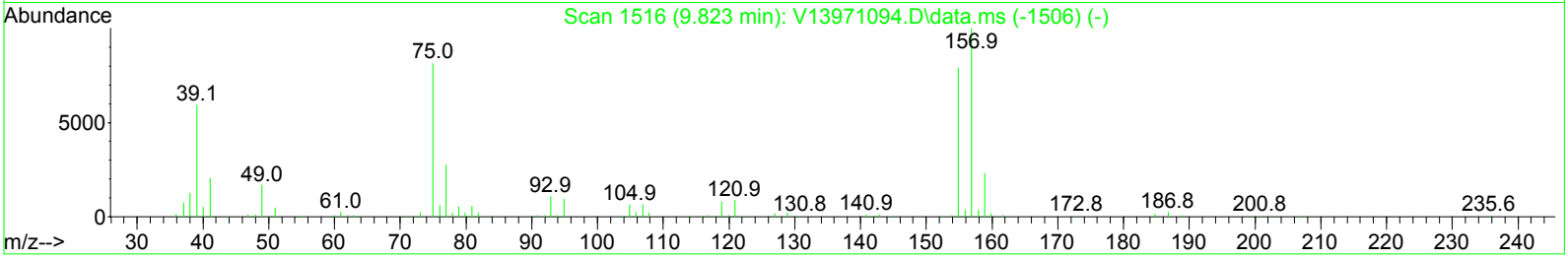
Quantitation Report (Qedit)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971469.D
Acq On : 12 Jan 2022 8:52 am
Operator : ORM
Sample : ICAL 8260 001 W (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 12 15:32:36 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration







TIC: V13971469.D\data.ms

(79) 1,2-Dibromo-3-chloropropane (T)

9.762min (-9.762) 0.00 ug/L

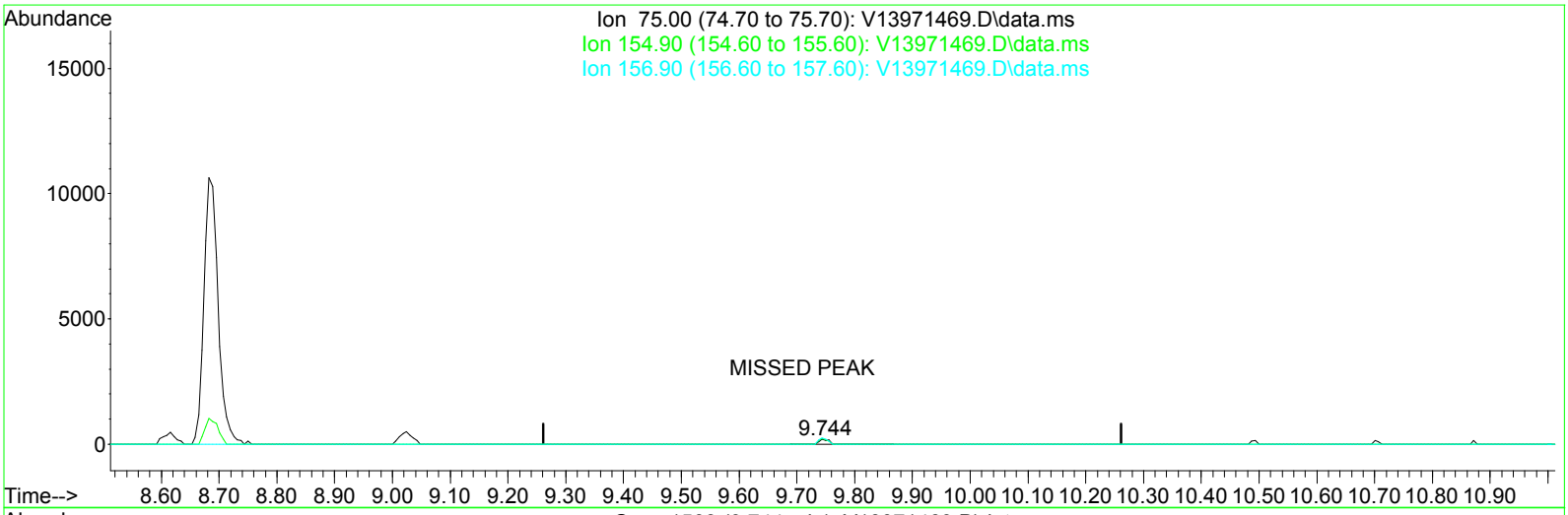
response 0

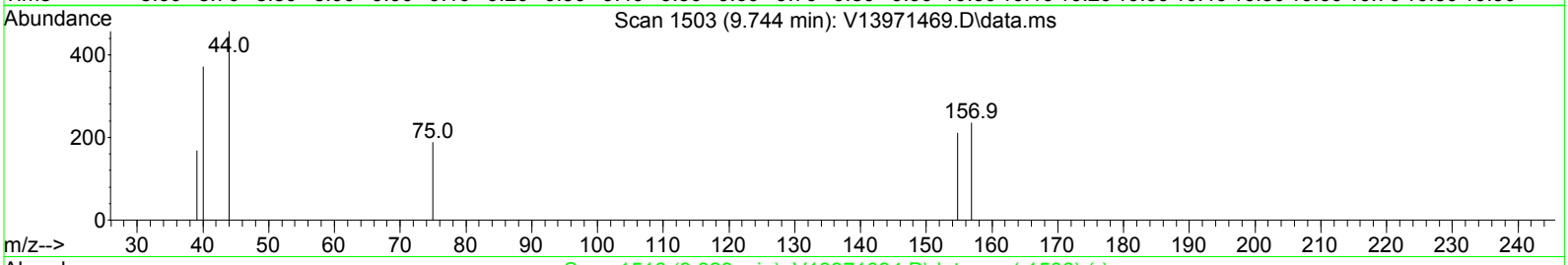
Ion	Exp%	Act%
75.00	100.00	0.00
154.90	86.80	0.00#
156.90	113.80	0.00#
0.00	0.00	0.00

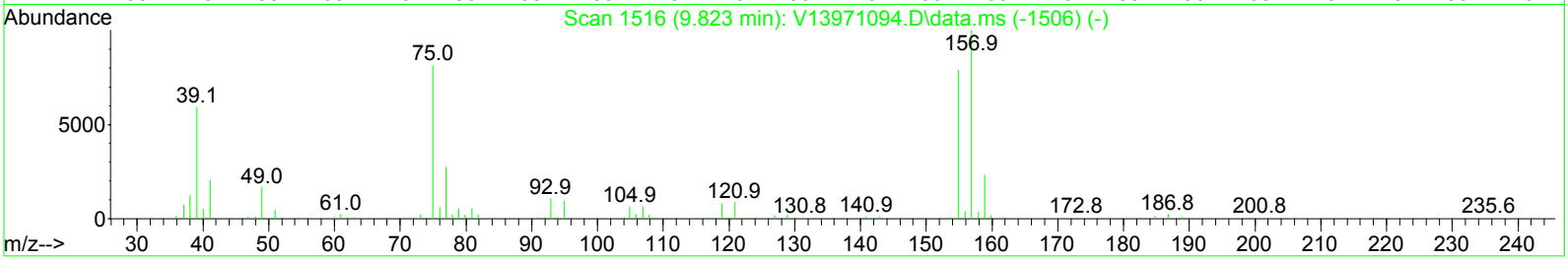
Quantitation Report (Qedit)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971469.D
Acq On : 12 Jan 2022 8:52 am
Operator : ORM
Sample : ICAL 8260 001 W (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 12 15:32:36 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration







TIC: V13971469.D\data.ms

(79) 1,2-Dibromo-3-chloropropane (T)

9.744min (-0.018) 1.07 ug/L m

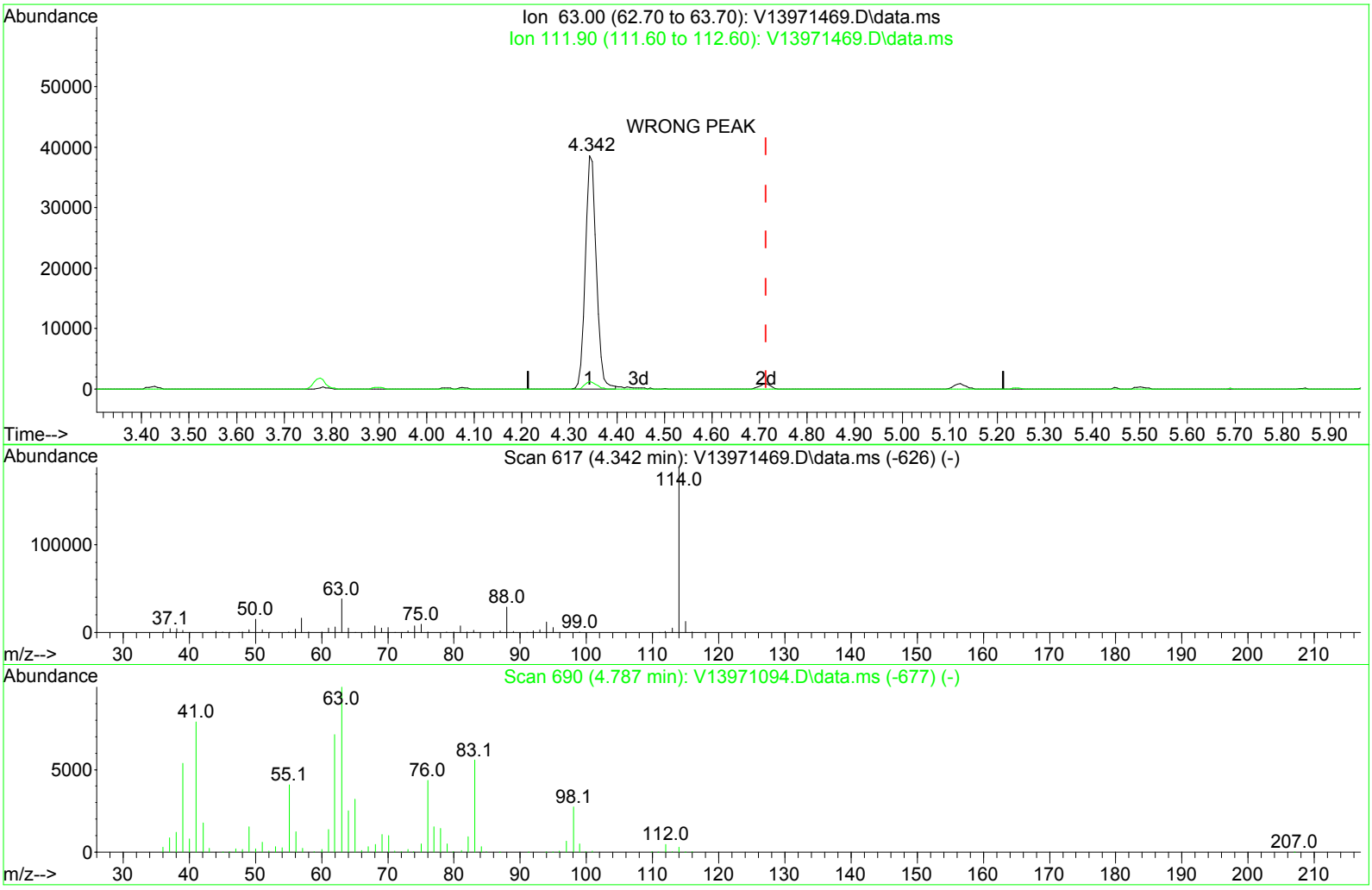
response 225

Ion	Exp%	Act%
75.00	100.00	100.00
154.90	86.80	111.70
156.90	113.80	125.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971469.D
Acq On : 12 Jan 2022 8:52 am
Operator : ORM
Sample : ICAL 8260 001 W (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 12 15:32:36 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration



TIC: V13971469.D\data.ms

(36) 1,2-Dichloropropane (ccc)

4.342min (-0.372) 41.39 ug/L

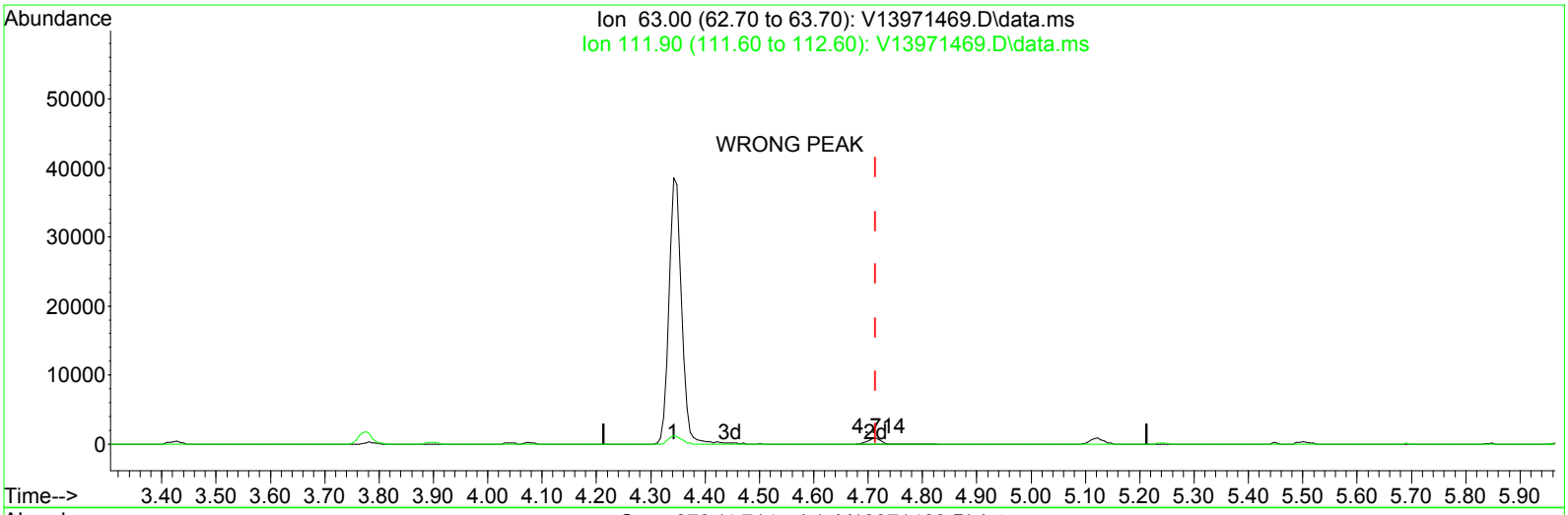
response 61781

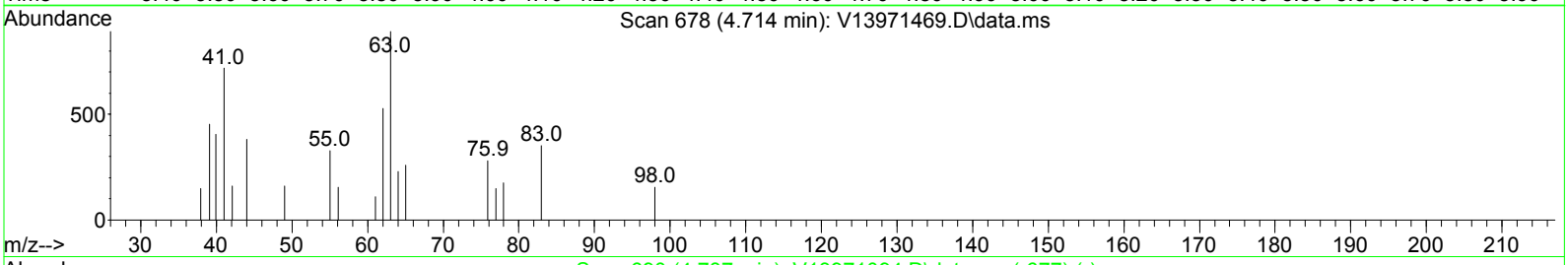
Ion	Exp%	Act%
63.00	100.00	100.00
111.90	4.40	3.21
0.00	0.00	0.00
0.00	0.00	0.00

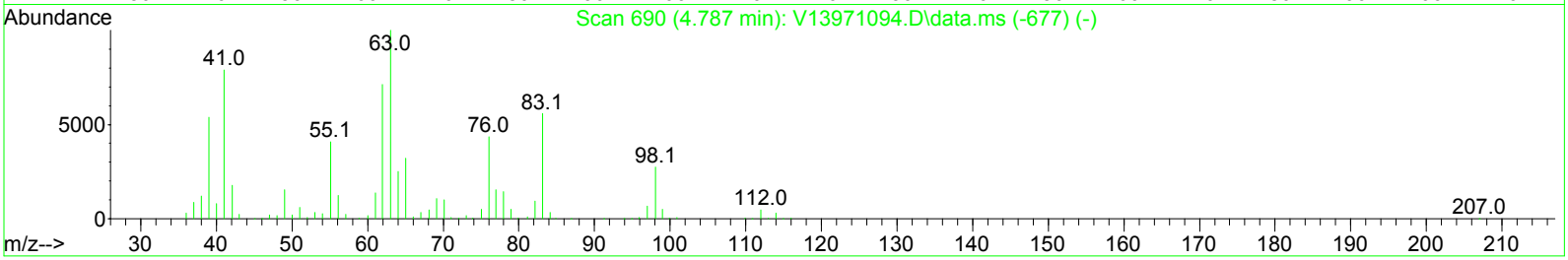
Quantitation Report (Qedit)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971469.D
Acq On : 12 Jan 2022 8:52 am
Operator : ORM
Sample : ICAL 8260 001 W (1uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 12 15:32:36 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration







TIC: V13971469.D\data.ms

(36) 1,2-Dichloropropane (ccc)

4.714min (+ 0.000) 0.92 ug/L m

response 1377

Ion	Exp%	Act%
63.00	100.00	100.00
111.90	4.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971474.D
Acq On : 12 Jan 2022 10:50 am
Operator : ORM
Sample : ICAL 8260 002 W (2uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 12 15:34:47 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.793	168	191656	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	4.348	114	305518	50.00	ug/L		0.00
47) Chlorobenzene-d5	6.634	117	296706	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	8.701	152	167947	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	3.775	113	94068	50.26	ug/L		0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 100.52%				
43) Toluene-d8	5.452	98	362568	50.02	ug/L		0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 100.04%				
60) 4-Bromofluorobenzene	7.665	95	146744	50.17	ug/L		0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 100.34%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.129	85	3233	1.91	ug/L		97
3) Chloromethane	1.251	50	2243	1.94	ug/L		98
4) Vinyl chloride	1.331	62	2095	1.88	ug/L		98
5) Bromomethane	1.568	94	1814	2.53	ug/L		80
6) Chloroethane	1.635	64	1008	1.78	ug/L		99
7) Trichlorofluoromethane	1.812	101	3255	1.81	ug/L	#	95
8) Acrolein	2.099	56	320	1.87	ug/L	#	69
9) 1,1-Dichloroethene	2.178	96	1929	1.77	ug/L		94
10) Freon-113	2.190	101	2275	1.97	µg/L		92
11) Acetone	2.190	58	927	5.65	ug/L		93
12) Iodomethane	2.282	142	9990	4.04	ug/L		97
13) Carbon disulfide	2.336	76	15250	3.94	ug/L		100
14) Methyl acetate	2.416	43	3072	2.03	µg/L		92
15) Vinyl acetate	3.025	43	10511	3.61	ug/L		93
16) Methylene chloride	2.519	84	5313	1.82	ug/L		90
17) Acrylonitrile	2.678	53	1380	1.81	ug/L		93
18) Methyl tert-butyl ether	2.708	73	7536	1.87	µg/L	#	91
19) trans-1,2-Dichloroethene	2.714	96	2916	2.10	ug/L		98
20) 1,1-Dichloroethane	3.019	63	5379	2.02	ug/L		94
21) 2,2-Dichloropropane	3.428	77	2241	1.99	ug/L	#	85
22) cis-1,2-Dichloroethene	3.422	96	3021	2.00	ug/L		92
23) 2-Butanone	3.415	72	638	2.95	ug/L		77
24) Bromochloromethane	3.592	128	1558	1.97	ug/L		96
25) Chloroform	3.665	83	5279	2.03	ug/L		98
26) Cyclohexane	3.842	56	4739	2.03	µg/L		89
27) 1,1,1-Trichloroethane	3.787	97	4023	1.90	ug/L	#	1
30) 1,1-Dichloropropene	3.897	110	1485	2.01	ug/L		94
31) Carbon tetrachloride	3.897	119	3183	1.89	ug/L		94
32) Benzene	4.037	78	11771	2.06	ug/L		96
33) 1,2-Dichloroethane	4.080	62	3871	1.96	ug/L	#	92
34) Trichloroethene	4.519	130	3093	1.90	ug/L		91
35) Methylcyclohexane	4.696	55	3653	1.96	µg/L		95
36) 1,2-Dichloropropane	4.714	63	2945m	2.00	ug/L		
37) Dibromomethane	4.781	93	1805	2.00	ug/L		84
38) 1,4-Dioxane	4.348	88	46536	4208.38	µg/L	#	19
39) Bromodichloromethane	4.909	83	3537	1.96	ug/L		97
40) 2-Chloroethyl vinyl ether	5.122	63	3243	3.80	µg/L		96
41) cis-1,3-Dichloropropene	5.244	75	3575	1.75	ug/L		95
42) 4-Methyl-2-pentanone	5.122	43	2340	3.57	ug/L	#	47
44) Toluene	5.507	92	7241	2.00	ug/L		98
45) trans-1,3-Dichloropropene	5.244	75	3575	1.75	ug/L		91
46) 1,1,2-Trichloroethane	5.848	83	2030	1.96	ug/L		94

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971474.D
Acq On : 12 Jan 2022 10:50 am
Operator : ORM
Sample : ICAL 8260 002 W (2uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 12 15:34:47 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

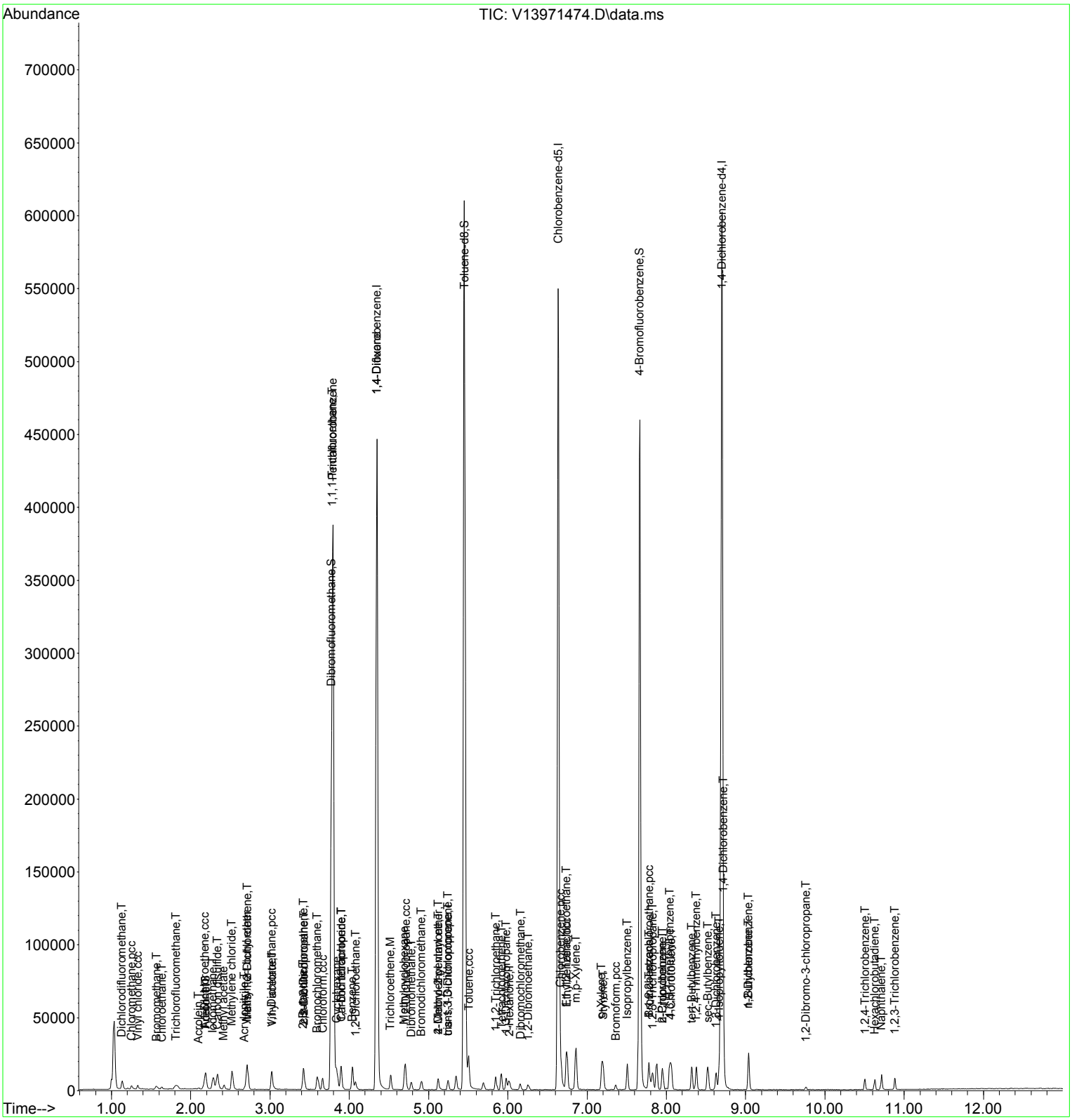
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) 2-Hexanone	6.019	43	4416	3.66 ug/L	93
49) Tetrachloroethene	5.921	166	3189	1.94 ug/L	93
50) 1,3-Dichloropropane	5.982	76	4185	1.98 ug/L	92
51) Dibromochloromethane	6.159	129	2506	1.87 ug/L	96
52) 1,2-Dibromoethane	6.256	107	2390	1.88 ug/L #	91
53) Chlorobenzene	6.665	112	8032	1.97 ug/L	97
54) 1,1,1,2-Tetrachloroethane	6.738	131	2291	1.82 ug/L	91
55) Ethylbenzene	6.744	91	12669	1.98 ug/L #	74
56) m,p-Xylene	6.860	91	19413	3.97 ug/L	97
57) o-Xylene	7.183	91	9642	1.92 ug/L	99
58) Styrene	7.201	104	7015	1.77 ug/L	95
59) Bromoform	7.360	173	1672	1.81 ug/L	90
62) Bromobenzene	7.781	156	3228	1.86 ug/L	76
63) 1,1,2,2-Tetrachloroethane	7.781	83	3512	1.93 ug/L	96
64) 1,2,3-Trichloropropane	7.829	75	4384	1.73 ug/L #	1
65) Isopropylbenzene	7.506	105	11077	1.74 ug/L	98
66) n-Propylbenzene	7.951	91	8675	1.96 ug/L #	51
67) trans-1,4-Dichloro-2-b...	0.000		0	N.D.	
68) 2-Chlorotoluene	7.951	91	8675	1.96 ug/L	97
69) 4-Chlorotoluene	8.061	91	9704	1.97 ug/L	92
70) 1,3,5-Trimethylbenzene	8.043	105	9099	1.83 ug/L	96
71) tert-Butylbenzene	8.323	119	8035	1.87 ug/L	96
72) 1,2,4-Trimethylbenzene	8.378	105	9004	1.82 ug/L	87
73) sec-Butylbenzene	8.524	105	11341	1.91 ug/L	97
74) 1,3-Dichlorobenzene	8.628	146	5723	1.92 ug/L	95
75) 4-Isopropyltoluene	8.664	119	9238	1.84 ug/L	96
76) 1,4-Dichlorobenzene	8.719	146	5968	1.96 ug/L	93
77) 1,2-Dichlorobenzene	9.036	146	5333	1.91 ug/L	96
78) n-Butylbenzene	9.036	91	7123	1.79 ug/L	92
79) 1,2-Dibromo-3-chloropr...	9.762	75	551	1.90 ug/L	84
80) 1,2,4-Trichlorobenzene	10.506	180	2562	1.67 ug/L	95
81) Hexachlorobutadiene	10.628	225	1376	2.05 ug/L	91
82) Naphthalene	10.713	128	7292	1.85 ug/L	100
83) 1,2,3-Trichlorobenzene	10.884	180	2412	1.77 ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971474.D
Acq On : 12 Jan 2022 10:50 am
Operator : ORM
Sample : ICAL 8260 002 W (2uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 12 Sample Multiplier: 1

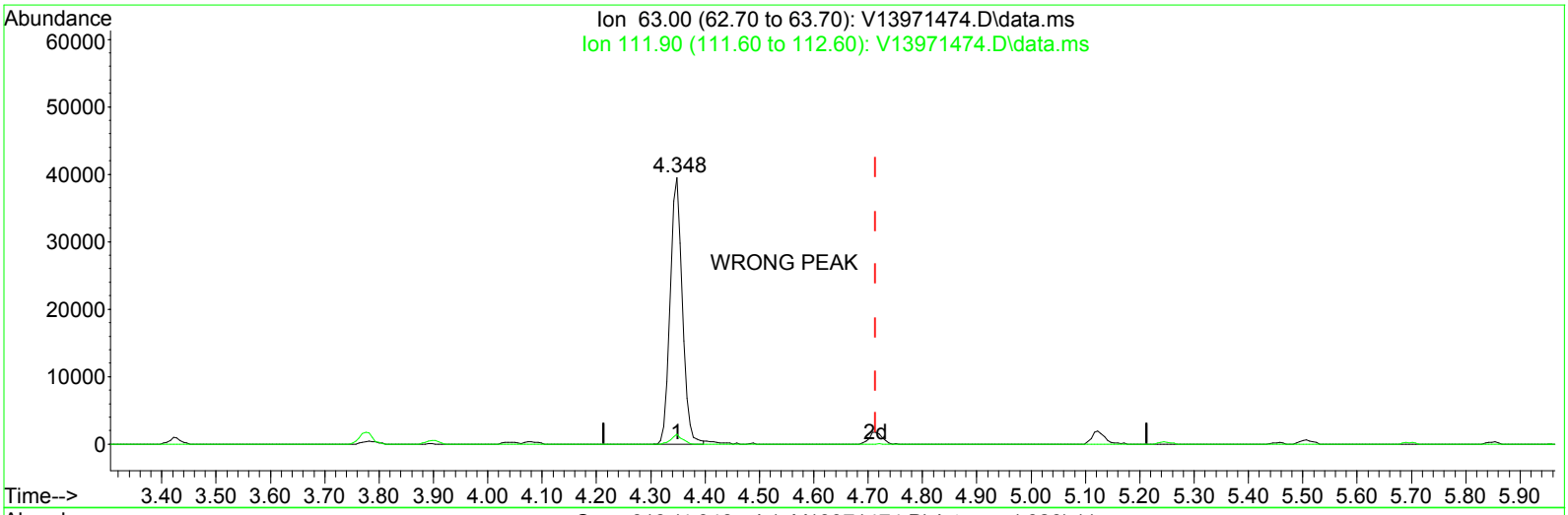
Quant Time: Jan 12 15:34:47 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

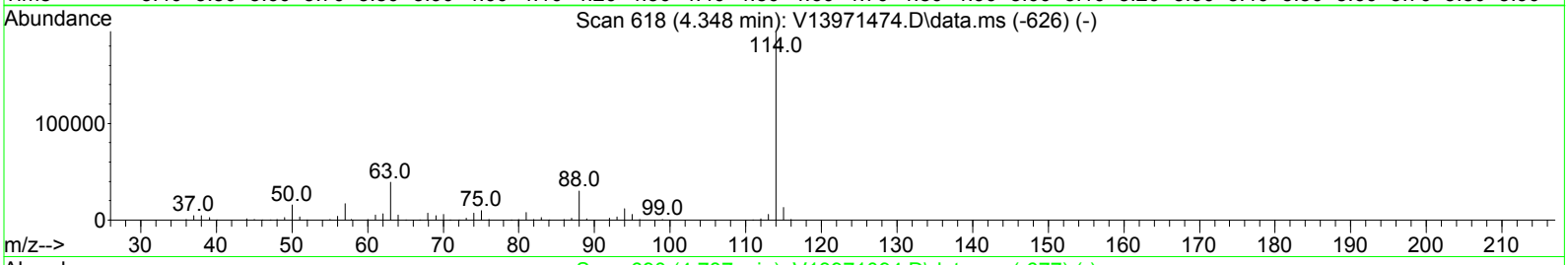


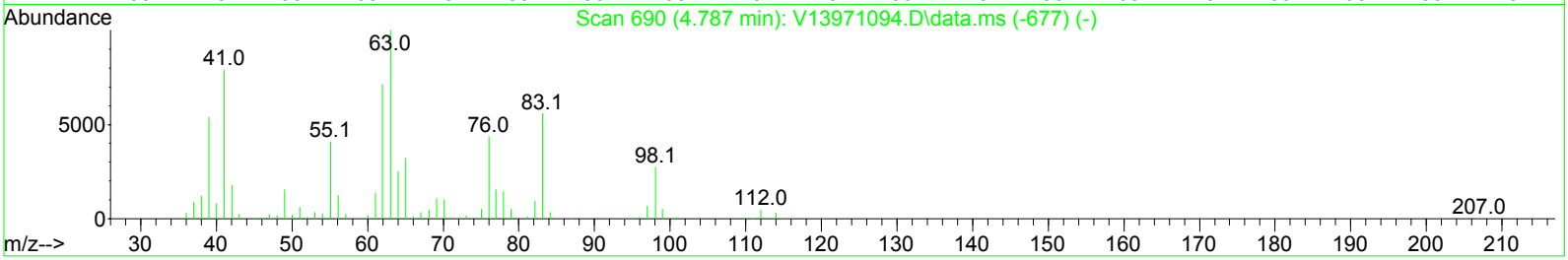
Quantitation Report (Qedit)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971474.D
Acq On : 12 Jan 2022 10:50 am
Operator : ORM
Sample : ICAL 8260 002 W (2uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 12 15:34:21 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration







TIC: V13971474.D\data.ms

(36) 1,2-Dichloropropane (ccc)

4.348min (-0.366) 41.99 ug/L

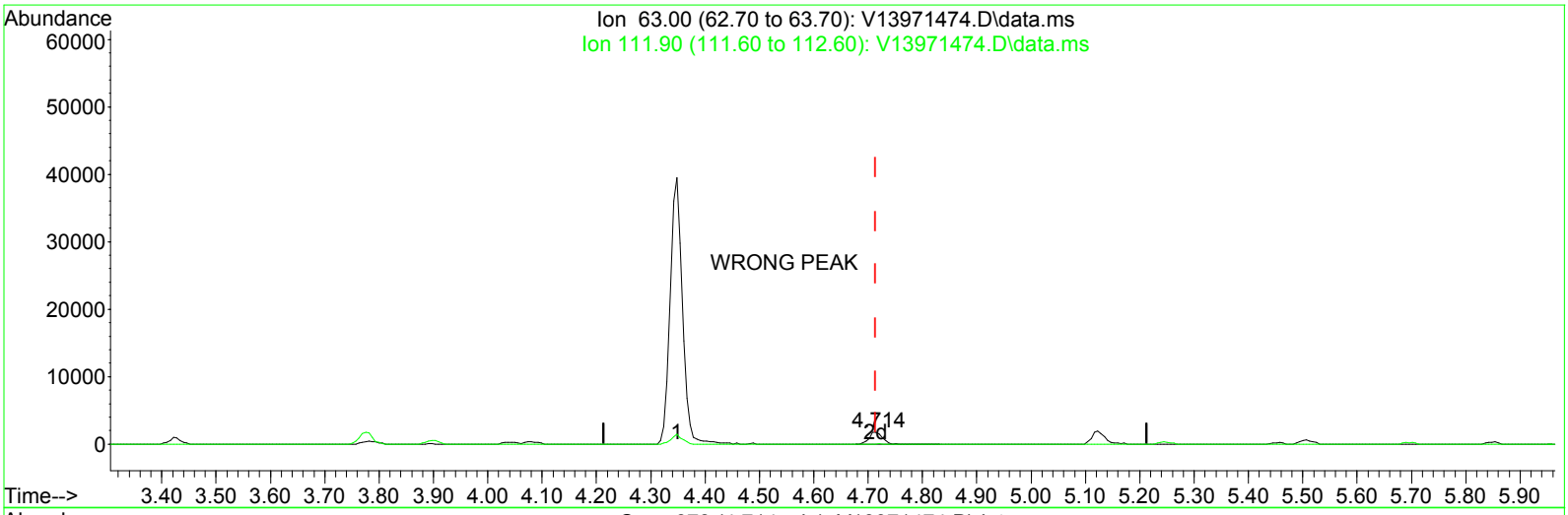
response 61769

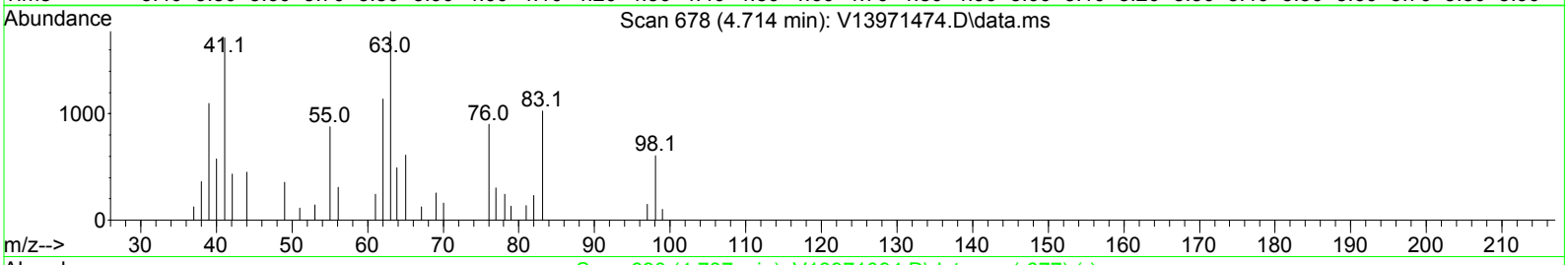
Ion	Exp%	Act%
63.00	100.00	100.00
111.90	4.40	3.63
0.00	0.00	0.00
0.00	0.00	0.00

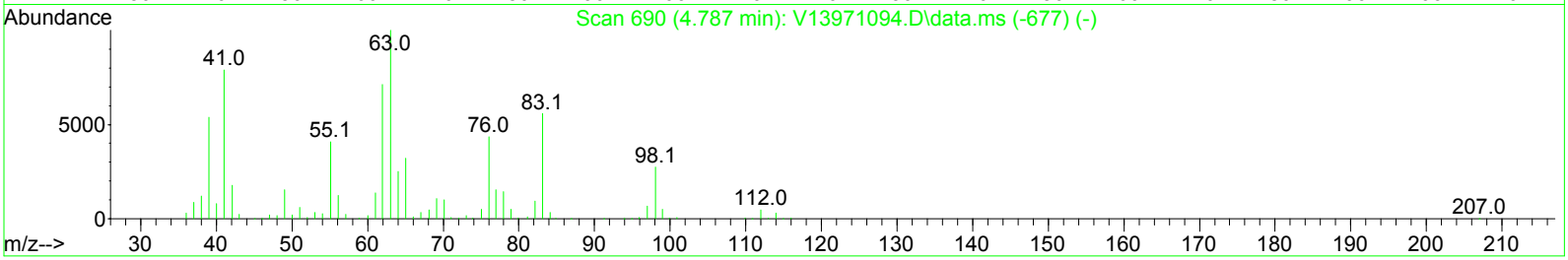
Quantitation Report (Qedit)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971474.D
Acq On : 12 Jan 2022 10:50 am
Operator : ORM
Sample : ICAL 8260 002 W (2uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 12 15:34:21 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration







TIC: V13971474.D\data.ms

(36) 1,2-Dichloropropane (ccc)

4.714min (+ 0.000) 2.00 ug/L m

response 2945

Ion	Exp%	Act%
63.00	100.00	100.00
111.90	4.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971475.D
Acq On : 12 Jan 2022 11:12 am
Operator : ORM
Sample : ICAL 8260 005 W (5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 12 15:35:12 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.794	168	186032	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	4.348	114	296867	50.00	ug/L		0.00
47) Chlorobenzene-d5	6.634	117	289523	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	8.701	152	163979	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	3.775	113	91496	50.31	ug/L		0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 100.62%				
43) Toluene-d8	5.452	98	353763	50.22	ug/L		0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 100.44%				
60) 4-Bromofluorobenzene	7.665	95	146119	51.19	ug/L		0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 102.38%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.129	85	8504	5.18	ug/L		98
3) Chloromethane	1.257	50	5672	5.06	ug/L		91
4) Vinyl chloride	1.331	62	5494	5.07	ug/L		93
5) Bromomethane	1.568	94	4047	5.81	ug/L		94
6) Chloroethane	1.635	64	2999	5.44	ug/L		94
7) Trichlorofluoromethane	1.812	101	9206	5.26	ug/L	#	99
8) Acrolein	2.093	56	816	4.92	ug/L		89
9) 1,1-Dichloroethene	2.172	96	4228	4.00	ug/L		98
10) Freon-113	2.184	101	4776	4.26	µg/L		92
11) Acetone	2.196	58	1461	9.17	ug/L		94
12) Iodomethane	2.288	142	24075	10.02	ug/L		99
13) Carbon disulfide	2.337	76	37626	10.02	ug/L		100
14) Methyl acetate	2.422	43	7594	5.17	µg/L		99
15) Vinyl acetate	3.025	43	25002	8.84	ug/L		99
16) Methylene chloride	2.519	84	8896	4.52	ug/L		88
17) Acrylonitrile	2.678	53	3466	4.68	ug/L		92
18) Methyl tert-butyl ether	2.708	73	18593	4.75	µg/L	#	91
19) trans-1,2-Dichloroethene	2.715	96	6645	4.92	ug/L		93
20) 1,1-Dichloroethane	3.025	63	12715	4.91	ug/L		100
21) 2,2-Dichloropropane	3.428	77	5100	4.67	ug/L		100
22) cis-1,2-Dichloroethene	3.428	96	7265	4.95	ug/L		93
23) 2-Butanone	3.410	72	1848	8.81	ug/L		78
24) Bromochloromethane	3.592	128	3833	4.99	ug/L		94
25) Chloroform	3.666	83	12870	5.09	ug/L		95
26) Cyclohexane	3.842	56	10832	4.78	µg/L		89
27) 1,1,1-Trichloroethane	3.781	97	10039	4.89	ug/L	#	1
30) 1,1-Dichloropropene	3.897	110	3447	4.80	ug/L		92
31) Carbon tetrachloride	3.897	119	7479	4.57	ug/L		98
32) Benzene	4.037	78	27374	4.93	ug/L		99
33) 1,2-Dichloroethane	4.080	62	9039	4.71	ug/L		95
34) Trichloroethene	4.525	130	7724	4.88	ug/L		92
35) Methylcyclohexane	4.702	55	8931	4.94	µg/L		86
36) 1,2-Dichloropropane	4.714	63	7078	4.95	ug/L		97
37) Dibromomethane	4.781	93	4434	5.06	ug/L		97
38) 1,4-Dioxane	4.769	88	542	50.44	µg/L		78
39) Bromodichloromethane	4.909	83	8308	4.74	ug/L		94
40) 2-Chloroethyl vinyl ether	5.123	63	8399	10.12	µg/L		96
41) cis-1,3-Dichloropropene	5.245	75	8888	4.48	ug/L		96
42) 4-Methyl-2-pentanone	5.123	43	6133	9.62	ug/L	#	47
44) Toluene	5.507	92	17662	5.01	ug/L		97
45) trans-1,3-Dichloropropene	5.245	75	8888	4.48	ug/L		96
46) 1,1,2-Trichloroethane	5.848	83	4904	4.87	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971475.D
Acq On : 12 Jan 2022 11:12 am
Operator : ORM
Sample : ICAL 8260 005 W (5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 12 15:35:12 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

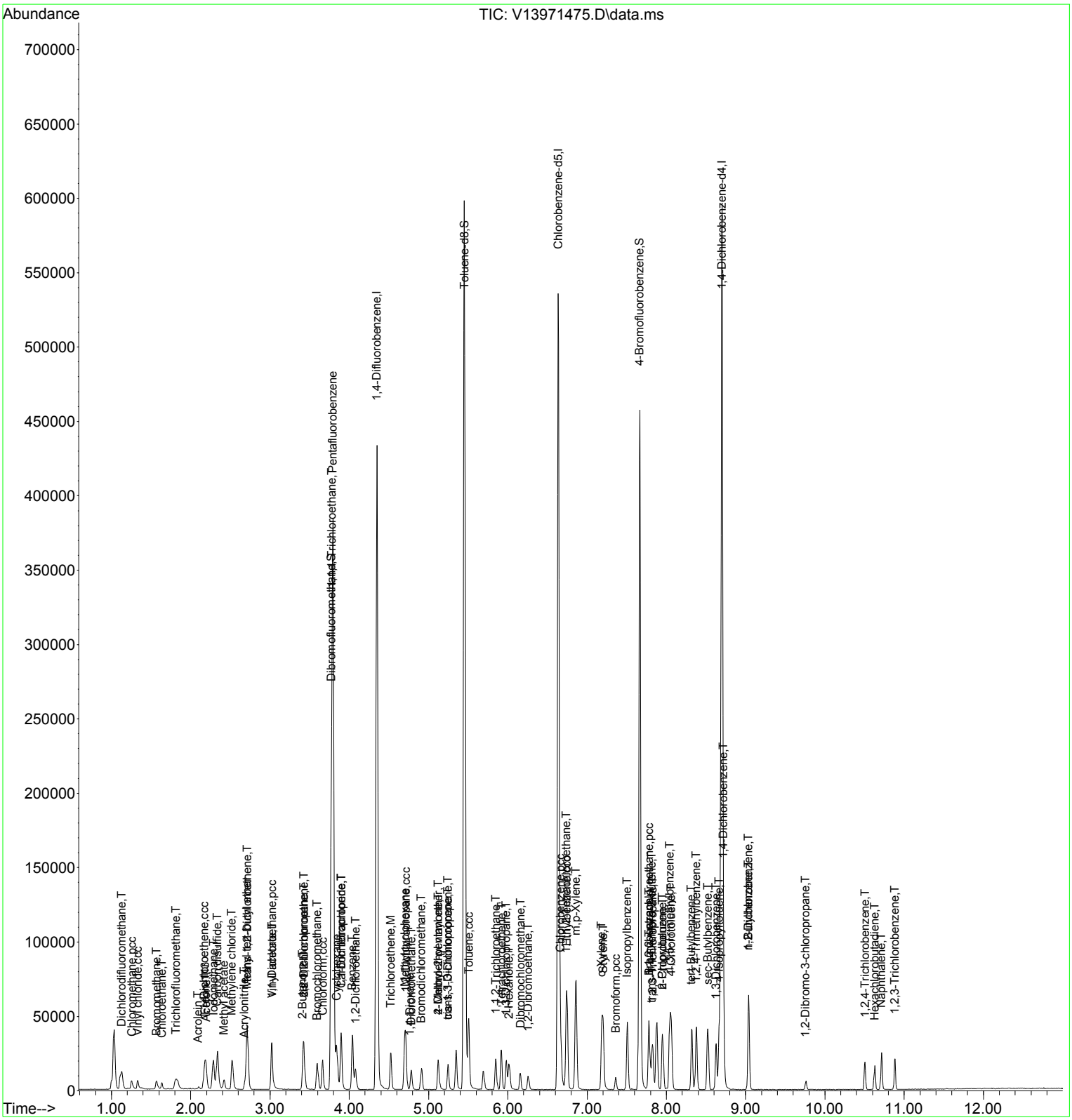
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Hexanone	6.013	43	12234	10.39	ug/L		97
49) Tetrachloroethene	5.921	166	7786	4.86	ug/L		97
50) 1,3-Dichloropropane	5.982	76	10149	4.92	ug/L		95
51) Dibromochloromethane	6.159	129	6058	4.64	ug/L		92
52) 1,2-Dibromoethane	6.257	107	6220	5.02	ug/L		96
53) Chlorobenzene	6.665	112	19818	4.97	ug/L		97
54) 1,1,1,2-Tetrachloroethane	6.738	131	5753	4.69	ug/L		98
55) Ethylbenzene	6.744	91	30806	4.95	ug/L	#	74
56) m,p-Xylene	6.860	91	48539	10.16	ug/L		96
57) o-Xylene	7.183	91	23862	4.88	ug/L		98
58) Styrene	7.201	104	19099	4.94	ug/L		98
59) Bromoform	7.360	173	3852	4.27	ug/L		100
62) Bromobenzene	7.781	156	8016	4.74	ug/L		85
63) 1,1,2,2-Tetrachloroethane	7.781	83	8712	4.90	ug/L		96
64) 1,2,3-Trichloropropane	7.829	75	10094	4.07	ug/L	#	1
65) Isopropylbenzene	7.506	105	29149	4.70	ug/L		96
66) n-Propylbenzene	7.951	91	21424	4.95	ug/L	#	51
67) trans-1,4-Dichloro-2-b...	7.817	124	475	12.50	ug/L	#	21
68) 2-Chlorotoluene	7.951	91	21424	4.95	ug/L		94
69) 4-Chlorotoluene	8.061	91	24148	5.03	ug/L		100
70) 1,3,5-Trimethylbenzene	8.043	105	23448	4.83	ug/L		98
71) tert-Butylbenzene	8.317	119	20097	4.78	ug/L		98
72) 1,2,4-Trimethylbenzene	8.378	105	24028	4.98	ug/L		99
73) sec-Butylbenzene	8.524	105	27627	4.76	ug/L		99
74) 1,3-Dichlorobenzene	8.628	146	13996	4.81	ug/L		97
75) 4-Isopropyltoluene	8.665	119	22962	4.69	ug/L		98
76) 1,4-Dichlorobenzene	8.719	146	13762	4.64	ug/L		96
77) 1,2-Dichlorobenzene	9.036	146	12837	4.70	ug/L		100
78) n-Butylbenzene	9.036	91	17718	4.56	ug/L		98
79) 1,2-Dibromo-3-chloropr...	9.756	75	1399	4.13	ug/L		87
80) 1,2,4-Trichlorobenzene	10.506	180	5908	3.93	ug/L		92
81) Hexachlorobutadiene	10.628	225	2954	4.52	ug/L		97
82) Naphthalene	10.713	128	17526	3.86	ug/L		100
83) 1,2,3-Trichlorobenzene	10.884	180	5988	4.50	ug/L		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971475.D
Acq On : 12 Jan 2022 11:12 am
Operator : ORM
Sample : ICAL 8260 005 W (5uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 12 15:35:12 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971476.D
Acq On : 12 Jan 2022 11:34 am
Operator : ORM
Sample : ICAL 8260 010 W (10uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 12 15:35:35 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.794	168	192638	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	4.348	114	304368	50.00	ug/L		0.00
47) Chlorobenzene-d5	6.635	117	296847	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	8.701	152	163734	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	3.775	113	94432	50.64	ug/L		0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 101.28%				
43) Toluene-d8	5.452	98	362506	50.20	ug/L		0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 100.40%				
60) 4-Bromofluorobenzene	7.665	95	147111	50.27	ug/L		0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 100.54%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.130	85	16436	9.66	ug/L		99
3) Chloromethane	1.264	50	11645	10.03	ug/L		98
4) Vinyl chloride	1.337	62	10497	9.36	ug/L		96
5) Bromomethane	1.575	94	6597	9.15	ug/L		98
6) Chloroethane	1.642	64	5711	10.01	ug/L		100
7) Trichlorofluoromethane	1.818	101	18212	10.06	ug/L	#	94
8) Acrolein	2.099	56	1821	10.61	ug/L		95
9) 1,1-Dichloroethene	2.172	96	12637	11.53	ug/L		93
10) Freon-113	2.190	101	13178	11.36	µg/L		98
11) Acetone	2.196	58	4224	25.60	ug/L		96
12) Iodomethane	2.294	142	46793	18.81	ug/L		99
13) Carbon disulfide	2.343	76	75990	19.55	ug/L		100
14) Methyl acetate	2.422	43	15073	9.91	µg/L		99
15) Vinyl acetate	3.019	43	52901	18.06	ug/L		97
16) Methylene chloride	2.520	84	16544	9.62	ug/L		84
17) Acrylonitrile	2.678	53	7717	10.07	ug/L		96
18) Methyl tert-butyl ether	2.708	73	39208	9.67	µg/L	#	87
19) trans-1,2-Dichloroethene	2.715	96	14171	10.14	ug/L		95
20) 1,1-Dichloroethane	3.019	63	26740	9.98	ug/L		98
21) 2,2-Dichloropropane	3.428	77	10701	9.46	ug/L		100
22) cis-1,2-Dichloroethene	3.422	96	14929	9.82	ug/L		94
23) 2-Butanone	3.416	72	3981	18.32	ug/L		100
24) Bromochloromethane	3.599	128	7941	9.99	ug/L		92
25) Chloroform	3.666	83	25380	9.70	ug/L		99
26) Cyclohexane	3.842	56	24788	10.57	µg/L		92
27) 1,1,1-Trichloroethane	3.788	97	20687	9.73	ug/L	#	1
30) 1,1-Dichloropropene	3.897	110	7467	10.13	ug/L		87
31) Carbon tetrachloride	3.897	119	16102	9.60	ug/L		99
32) Benzene	4.038	78	56526	9.93	ug/L		100
33) 1,2-Dichloroethane	4.080	62	18678	9.48	ug/L		100
34) Trichloroethene	4.525	130	16235	10.00	ug/L		95
35) Methylcyclohexane	4.696	55	18685	10.09	µg/L		82
36) 1,2-Dichloropropane	4.714	63	14533	9.92	ug/L		98
37) Dibromomethane	4.781	93	8858	9.85	ug/L		97
38) 1,4-Dioxane	4.763	88	1135	103.03	µg/L		91
39) Bromodichloromethane	4.909	83	17363	9.67	ug/L		99
40) 2-Chloroethyl vinyl ether	5.123	63	18183	21.38	µg/L		97
41) cis-1,3-Dichloropropene	5.245	75	19105	9.39	ug/L		96
42) 4-Methyl-2-pentanone	5.123	43	12991	19.87	ug/L	#	49
44) Toluene	5.507	92	35521	9.83	ug/L		99
45) trans-1,3-Dichloropropene	5.245	75	19105	9.39	ug/L		94
46) 1,1,2-Trichloroethane	5.848	83	10214	9.88	ug/L		98

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971476.D
Acq On : 12 Jan 2022 11:34 am
Operator : ORM
Sample : ICAL 8260 010 W (10uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 12 15:35:35 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

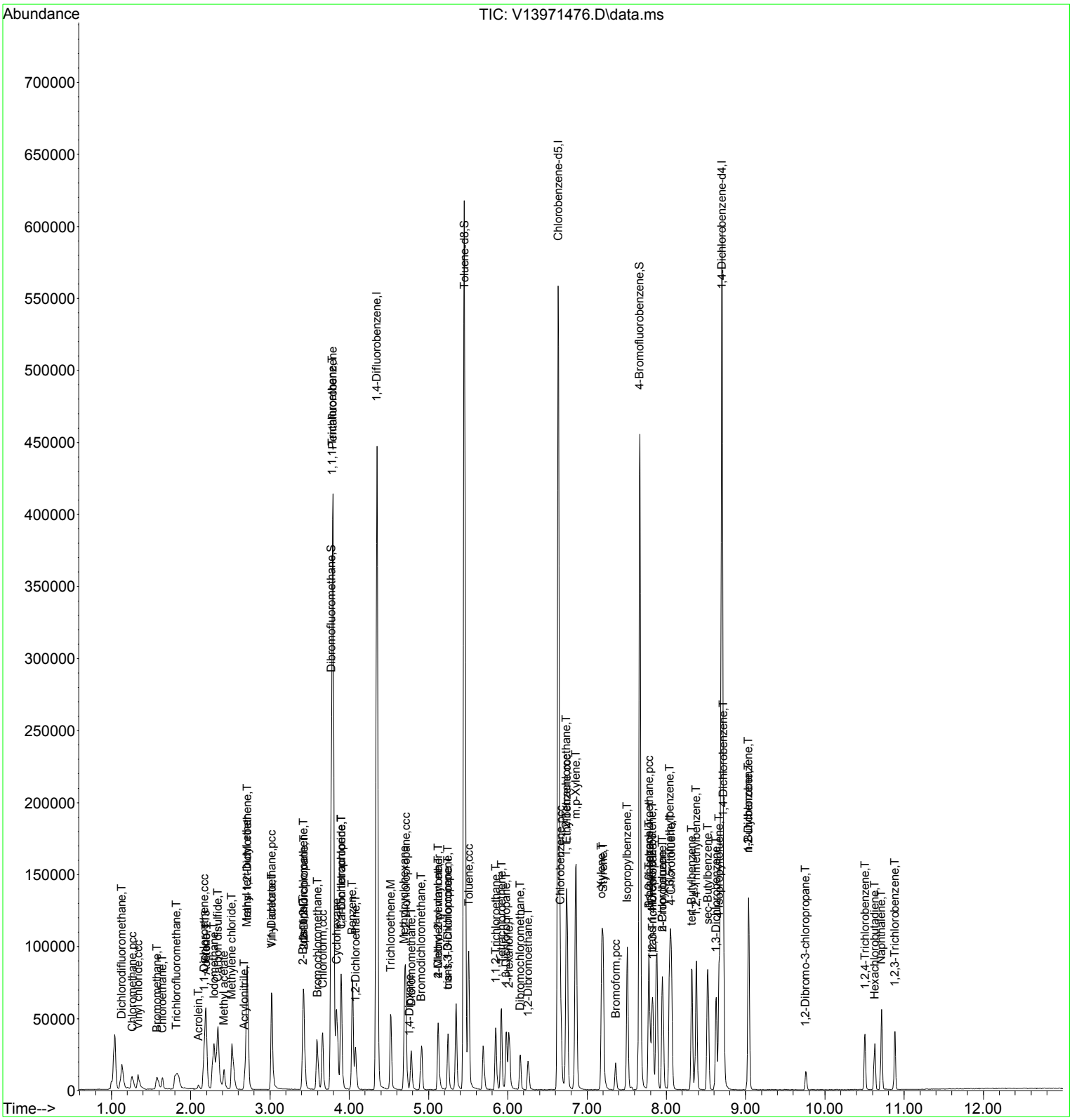
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Hexanone	6.013	43	26825	22.23	ug/L		99
49) Tetrachloroethene	5.921	166	16518	10.05	ug/L		97
50) 1,3-Dichloropropane	5.982	76	21244	10.05	ug/L		99
51) Dibromochloromethane	6.153	129	12798	9.56	ug/L		97
52) 1,2-Dibromoethane	6.257	107	12924	10.17	ug/L		93
53) Chlorobenzene	6.665	112	40100	9.81	ug/L		97
54) 1,1,1,2-Tetrachloroethane	6.738	131	12086	9.62	ug/L		95
55) Ethylbenzene	6.744	91	65609	10.27	ug/L	#	74
56) m,p-Xylene	6.860	91	103732	21.18	ug/L		99
57) o-Xylene	7.183	91	50897	10.15	ug/L		98
58) Styrene	7.202	104	40948	10.33	ug/L		97
59) Bromoform	7.360	173	8703	9.40	ug/L		99
62) Bromobenzene	7.781	156	16442	9.73	ug/L		86
63) 1,1,2,2-Tetrachloroethane	7.781	83	17600	9.92	ug/L		94
64) 1,2,3-Trichloropropane	7.829	75	21954	8.87	ug/L	#	1
65) Isopropylbenzene	7.506	105	63380	10.24	ug/L		99
66) n-Propylbenzene	7.951	91	43185	10.00	ug/L	#	51
67) trans-1,4-Dichloro-2-b...	7.823	124	1346	18.54	ug/L		65
68) 2-Chlorotoluene	7.951	91	43185	10.00	ug/L		95
69) 4-Chlorotoluene	8.061	91	48287	10.07	ug/L		97
70) 1,3,5-Trimethylbenzene	8.043	105	49089	10.14	ug/L		100
71) tert-Butylbenzene	8.323	119	41591	9.90	ug/L		98
72) 1,2,4-Trimethylbenzene	8.378	105	49226	10.22	ug/L		99
73) sec-Butylbenzene	8.524	105	58025	10.02	ug/L		97
74) 1,3-Dichlorobenzene	8.628	146	28455	9.80	ug/L		99
75) 4-Isopropyltoluene	8.665	119	49393	10.10	ug/L		99
76) 1,4-Dichlorobenzene	8.720	146	28843	9.73	ug/L		99
77) 1,2-Dichlorobenzene	9.037	146	26312	9.65	ug/L		98
78) n-Butylbenzene	9.037	91	37373	9.64	ug/L		98
79) 1,2-Dibromo-3-chloropr...	9.756	75	3116	8.58	ug/L		96
80) 1,2,4-Trichlorobenzene	10.506	180	12057	8.04	ug/L		99
81) Hexachlorobutadiene	10.628	225	5671	8.68	ug/L		92
82) Naphthalene	10.713	128	37313	7.71	ug/L		100
83) 1,2,3-Trichlorobenzene	10.884	180	11368	8.55	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971476.D
Acq On : 12 Jan 2022 11:34 am
Operator : ORM
Sample : ICAL 8260 010 W (10uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 12 15:35:35 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971477.D
Acq On : 12 Jan 2022 11:55 am
Operator : ORM
Sample : ICAL 8260 020 W (20uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 12 15:35:51 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.793	168	198871	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	4.348	114	312474	50.00	ug/L		0.00
47) Chlorobenzene-d5	6.634	117	308181	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	8.701	152	177248	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	3.775	113	97037	50.69	ug/L		0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 101.38%				
43) Toluene-d8	5.452	98	374193	50.47	ug/L		0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 100.94%				
60) 4-Bromofluorobenzene	7.665	95	151736	49.94	ug/L		0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 99.88%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.129	85	33758	19.23	ug/L		98
3) Chloromethane	1.257	50	22946	19.14	ug/L		96
4) Vinyl chloride	1.331	62	21621	18.68	ug/L		99
5) Bromomethane	1.568	94	14238	19.12	ug/L		95
6) Chloroethane	1.635	64	11396	19.35	ug/L		98
7) Trichlorofluoromethane	1.812	101	37876	20.26	ug/L	#	98
8) Acrolein	2.093	56	3660	20.65	ug/L		90
9) 1,1-Dichloroethene	2.172	96	26704	23.61	ug/L		95
10) Freon-113	2.190	101	26872	22.44	µg/L		93
11) Acetone	2.190	58	8396	49.28	ug/L		74
12) Iodomethane	2.288	142	103088	40.14	ug/L		99
13) Carbon disulfide	2.336	76	160209	39.92	ug/L		100
14) Methyl acetate	2.416	43	30245	19.25	µg/L		99
15) Vinyl acetate	3.019	43	122506	40.51	ug/L		97
16) Methylene chloride	2.519	84	32251	19.85	ug/L		86
17) Acrylonitrile	2.678	53	15245	19.27	ug/L		96
18) Methyl tert-butyl ether	2.708	73	86178	20.59	µg/L	#	90
19) trans-1,2-Dichloroethene	2.714	96	29962	20.76	ug/L		99
20) 1,1-Dichloroethane	3.019	63	56753	20.52	ug/L		97
21) 2,2-Dichloropropane	3.428	77	23418	20.05	ug/L		95
22) cis-1,2-Dichloroethene	3.422	96	32357	20.62	ug/L		99
23) 2-Butanone	3.409	72	9034	40.27	ug/L		92
24) Bromochloromethane	3.592	128	17632	21.48	ug/L		94
25) Chloroform	3.665	83	53983	19.98	ug/L		99
26) Cyclohexane	3.842	56	51387	21.23	µg/L		99
27) 1,1,1-Trichloroethane	3.781	97	43425	19.78	ug/L	#	6
30) 1,1-Dichloropropene	3.897	110	15531	20.53	ug/L		99
31) Carbon tetrachloride	3.897	119	34618	20.11	ug/L		97
32) Benzene	4.037	78	121869	20.85	ug/L		100
33) 1,2-Dichloroethane	4.080	62	42193	20.87	ug/L		99
34) Trichloroethene	4.525	130	33796	20.29	ug/L		96
35) Methylcyclohexane	4.702	55	38855	20.43	µg/L		88
36) 1,2-Dichloropropane	4.714	63	31693	21.07	ug/L		97
37) Dibromomethane	4.781	93	19418	21.03	ug/L		97
38) 1,4-Dioxane	4.763	88	2579	228.03	µg/L		87
39) Bromodichloromethane	4.909	83	38944	21.12	ug/L		99
40) 2-Chloroethyl vinyl ether	5.122	63	42465	48.63	µg/L		97
41) cis-1,3-Dichloropropene	5.244	75	43956	21.05	ug/L		97
42) 4-Methyl-2-pentanone	5.122	43	29517	43.97	ug/L	#	49
44) Toluene	5.507	92	76635	20.66	ug/L		99
45) trans-1,3-Dichloropropene	5.244	75	43956	21.05	ug/L		99
46) 1,1,2-Trichloroethane	5.848	83	22784	21.48	ug/L		95

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971477.D
Acq On : 12 Jan 2022 11:55 am
Operator : ORM
Sample : ICAL 8260 020 W (20uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 12 15:35:51 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

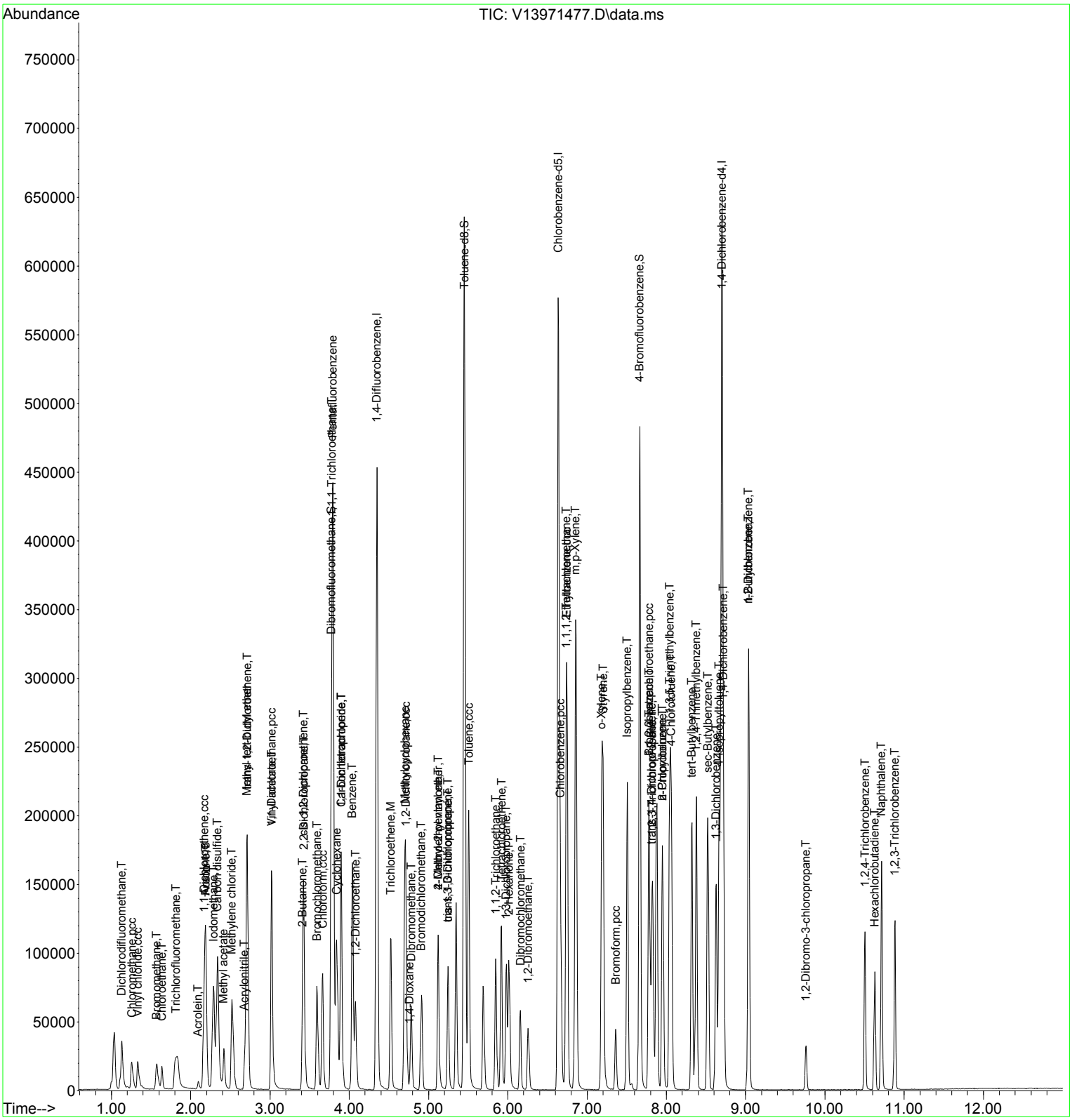
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Hexanone	6.013	43	56358	44.98	ug/L		100
49) Tetrachloroethene	5.921	166	34572	20.25	ug/L		99
50) 1,3-Dichloropropane	5.982	76	46659	21.26	ug/L		97
51) Dibromochloromethane	6.159	129	29497	21.23	ug/L		96
52) 1,2-Dibromoethane	6.256	107	28630	21.70	ug/L		98
53) Chlorobenzene	6.665	112	87913	20.71	ug/L		95
54) 1,1,1,2-Tetrachloroethane	6.738	131	28221	21.63	ug/L		95
55) Ethylbenzene	6.744	91	142940	21.56	ug/L	#	75
56) m,p-Xylene	6.854	91	219872	43.25	ug/L		98
57) o-Xylene	7.183	91	113486	21.80	ug/L		99
58) Styrene	7.201	104	92713	22.53	ug/L		97
59) Bromoform	7.360	173	20014	20.83	ug/L		99
62) Bromobenzene	7.780	156	36794	20.12	ug/L		86
63) 1,1,2,2-Tetrachloroethane	7.780	83	38735	20.17	ug/L		100
64) 1,2,3-Trichloropropane	7.823	75	54650	20.39	ug/L	#	1
65) Isopropylbenzene	7.506	105	140862	21.02	ug/L		100
66) n-Propylbenzene	7.951	91	94705	20.25	ug/L	#	52
67) trans-1,4-Dichloro-2-b...	7.817	124	4261	36.48	ug/L	#	59
68) 2-Chlorotoluene	7.951	91	94705	20.25	ug/L		94
69) 4-Chlorotoluene	8.061	91	107243	20.66	ug/L		97
70) 1,3,5-Trimethylbenzene	8.043	105	112489	21.46	ug/L		97
71) tert-Butylbenzene	8.323	119	96737	21.28	ug/L		98
72) 1,2,4-Trimethylbenzene	8.378	105	114468	21.95	ug/L		96
73) sec-Butylbenzene	8.524	105	132742	21.16	ug/L		99
74) 1,3-Dichlorobenzene	8.628	146	65257	20.77	ug/L		99
75) 4-Isopropyltoluene	8.664	119	115816	21.87	ug/L		98
76) 1,4-Dichlorobenzene	8.719	146	65496	20.41	ug/L		99
77) 1,2-Dichlorobenzene	9.036	146	61641	20.89	ug/L		98
78) n-Butylbenzene	9.036	91	91951	21.92	ug/L		99
79) 1,2-Dibromo-3-chloropr...	9.762	75	7850	19.28	ug/L		88
80) 1,2,4-Trichlorobenzene	10.506	180	34409	21.20	ug/L		100
81) Hexachlorobutadiene	10.627	225	14982	21.19	ug/L		97
82) Naphthalene	10.713	128	112088	20.54	ug/L		100
83) 1,2,3-Trichlorobenzene	10.884	180	33076	22.98	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971477.D
Acq On : 12 Jan 2022 11:55 am
Operator : ORM
Sample : ICAL 8260 020 W (20uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 12 15:35:51 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971478.D
Acq On : 12 Jan 2022 12:17 pm
Operator : ORM
Sample : ICAL 8260 050 W (50uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 12 15:36:06 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.800	168	180547	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	4.348	114	292485	50.00	ug/L		0.00
47) Chlorobenzene-d5	6.641	117	294346	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	8.701	152	171702	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	3.775	113	92434	51.59	ug/L		0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 103.18%				
43) Toluene-d8	5.452	98	346670	49.95	ug/L		0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 99.90%				
60) 4-Bromofluorobenzene	7.665	95	146684	50.55	ug/L		0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 101.10%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.129	85	86074	54.00	ug/L		98
3) Chloromethane	1.251	50	54449	50.02	ug/L		94
4) Vinyl chloride	1.331	62	54584	51.95	ug/L		99
5) Bromomethane	1.568	94	33510	49.57	ug/L		98
6) Chloroethane	1.635	64	27498	51.44	ug/L		99
7) Trichlorofluoromethane	1.812	101	91295	53.80	ug/L	#	98
8) Acrolein	2.099	56	8022	49.86	ug/L		97
9) 1,1-Dichloroethene	2.172	96	55734	54.27	ug/L		95
10) Freon-113	2.184	101	63798	58.68	µg/L		97
11) Acetone	2.196	58	15586	100.77	ug/L		89
12) Iodomethane	2.276	142	254330	109.08	ug/L		100
13) Carbon disulfide	2.330	76	398644	109.43	ug/L		100
14) Methyl acetate	2.422	43	65522	45.95	µg/L		98
15) Vinyl acetate	3.019	43	298983	108.91	ug/L		97
16) Methylene chloride	2.519	84	74218	53.21	ug/L		88
17) Acrylonitrile	2.678	53	35520	49.44	ug/L		99
18) Methyl tert-butyl ether	2.708	73	202987	53.43	µg/L		93
19) trans-1,2-Dichloroethene	2.714	96	71064	54.24	ug/L		97
20) 1,1-Dichloroethane	3.025	63	135039	53.77	ug/L		97
21) 2,2-Dichloropropane	3.428	77	61992	58.45	ug/L		95
22) cis-1,2-Dichloroethene	3.428	96	76900	53.98	ug/L		99
23) 2-Butanone	3.409	72	19649	96.47	ug/L		91
24) Bromochloromethane	3.598	128	40473	54.31	ug/L		99
25) Chloroform	3.666	83	128109	52.21	ug/L		97
26) Cyclohexane	3.842	56	115511	52.56	µg/L		98
27) 1,1,1-Trichloroethane	3.787	97	104325	52.35	ug/L	#	48
30) 1,1-Dichloropropene	3.897	110	36131	51.02	ug/L		98
31) Carbon tetrachloride	3.897	119	85465	53.05	ug/L		97
32) Benzene	4.043	78	280716	51.30	ug/L		98
33) 1,2-Dichloroethane	4.080	62	94148	49.74	ug/L		99
34) Trichloroethene	4.525	130	79249	50.82	ug/L		98
35) Methylcyclohexane	4.702	55	93126	52.32	µg/L		93
36) 1,2-Dichloropropane	4.714	63	71246	50.59	ug/L		99
37) Dibromomethane	4.781	93	43727	50.61	ug/L		96
38) 1,4-Dioxane	4.763	88	3968	374.83	µg/L		98
39) Bromodichloromethane	4.909	83	90265	52.30	ug/L		99
40) 2-Chloroethyl vinyl ether	5.123	63	92917	113.69	µg/L		97
41) cis-1,3-Dichloropropene	5.244	75	106657	54.57	ug/L		99
42) 4-Methyl-2-pentanone	5.123	43	64198	102.17	ug/L	#	48
44) Toluene	5.507	92	174222	50.18	ug/L		100
45) trans-1,3-Dichloropropene	5.244	75	106657	54.57	ug/L		99
46) 1,1,2-Trichloroethane	5.848	83	50644	51.00	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971478.D
Acq On : 12 Jan 2022 12:17 pm
Operator : ORM
Sample : ICAL 8260 050 W (50uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 12 15:36:06 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) 2-Hexanone	6.013	43	120444	100.65 ug/L	99
49) Tetrachloroethene	5.921	166	80979	49.67 ug/L	97
50) 1,3-Dichloropropane	5.982	76	103807	49.52 ug/L	98
51) Dibromochloromethane	6.159	129	69319	52.22 ug/L	96
52) 1,2-Dibromoethane	6.256	107	65051	51.62 ug/L	98
53) Chlorobenzene	6.665	112	201217	49.64 ug/L	95
54) 1,1,1,2-Tetrachloroethane	6.744	131	66610	53.46 ug/L	98
55) Ethylbenzene	6.744	91	329914	52.10 ug/L #	74
56) m,p-Xylene	6.860	91	506433	104.30 ug/L	97
57) o-Xylene	7.183	91	266283	53.56 ug/L	99
58) Styrene	7.201	104	219199	55.76 ug/L	97
59) Bromoform	7.360	173	49130	53.52 ug/L	98
62) Bromobenzene	7.781	156	88087	49.73 ug/L	84
63) 1,1,2,2-Tetrachloroethane	7.781	83	90790	48.79 ug/L	96
64) 1,2,3-Trichloropropane	7.823	75	128774	49.60 ug/L #	1
65) Isopropylbenzene	7.506	105	340745	52.48 ug/L	100
66) n-Propylbenzene	7.951	91	222899	49.21 ug/L #	51
67) trans-1,4-Dichloro-2-b...	7.823	124	11575	85.66 ug/L	90
68) 2-Chlorotoluene	7.951	91	222899	49.21 ug/L	99
69) 4-Chlorotoluene	8.061	91	254757	50.66 ug/L	98
70) 1,3,5-Trimethylbenzene	8.043	105	273496	53.85 ug/L	99
71) tert-Butylbenzene	8.323	119	238393	54.13 ug/L	100
72) 1,2,4-Trimethylbenzene	8.378	105	273936	54.22 ug/L	98
73) sec-Butylbenzene	8.524	105	330857	54.46 ug/L	100
74) 1,3-Dichlorobenzene	8.628	146	159048	52.25 ug/L	96
75) 4-Isopropyltoluene	8.671	119	283574	55.28 ug/L	99
76) 1,4-Dichlorobenzene	8.726	146	155567	50.04 ug/L	99
77) 1,2-Dichlorobenzene	9.036	146	151231	52.91 ug/L	97
78) n-Butylbenzene	9.036	91	230395	56.69 ug/L	99
79) 1,2-Dibromo-3-chloropr...	9.762	75	20080	50.09 ug/L	91
80) 1,2,4-Trichlorobenzene	10.506	180	87230	55.48 ug/L	99
81) Hexachlorobutadiene	10.628	225	37291	54.44 ug/L	97
82) Naphthalene	10.713	128	283340	52.85 ug/L	100
83) 1,2,3-Trichlorobenzene	10.884	180	83031	59.55 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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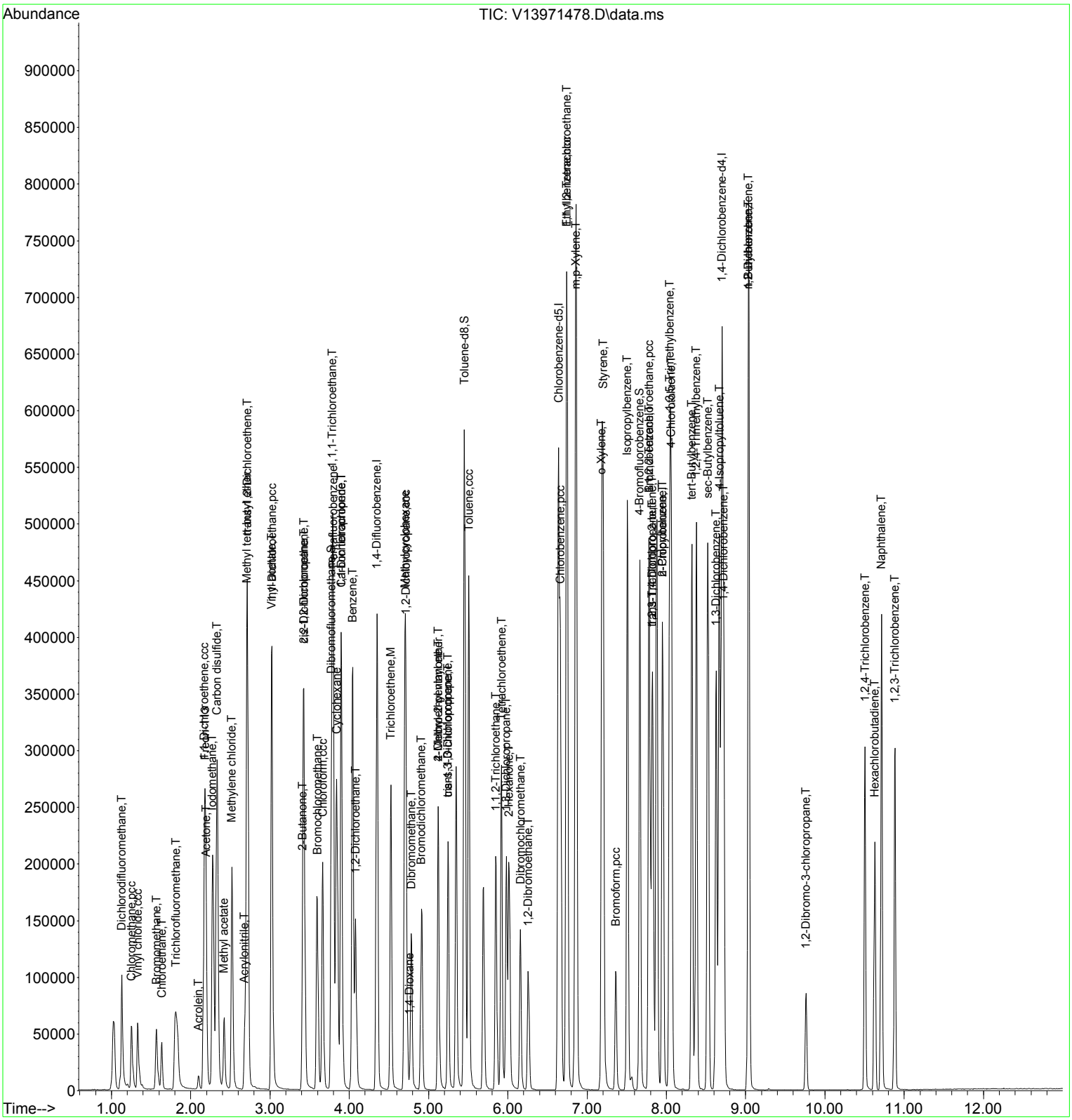
Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971478.D
Acq On : 12 Jan 2022 12:17 pm
Operator : ORM
Sample : ICAL 8260 050 W (50uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 12 15:36:06 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971480.D
Acq On : 12 Jan 2022 1:01 pm
Operator : ORM
Sample : ICAL 8260 100 W (100uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 12 15:36:23 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.794	168	195060	50.00	ug/L	0.00
28) 1,4-Difluorobenzene	4.348	114	308927	50.00	ug/L	0.00
47) Chlorobenzene-d5	6.634	117	308570	50.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	8.701	152	161648	50.00	ug/L	0.00
System Monitoring Compounds						
29) Dibromofluoromethane	3.775	113	93770	49.55	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 99.10%			
43) Toluene-d8	5.452	98	366401	49.99	ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 99.98%			
60) 4-Bromofluorobenzene	7.665	95	150270	49.40	ug/L	0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 98.80%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.129	85	160887	93.43	ug/L	99
3) Chloromethane	1.257	50	111951	95.19	ug/L	99
4) Vinyl chloride	1.337	62	104081	91.69	ug/L	99
5) Bromomethane	1.574	94	60504	82.85	ug/L	99
6) Chloroethane	1.642	64	47245	81.80	ug/L	98
7) Trichlorofluoromethane	1.818	101	168866	92.10	ug/L	99
8) Acrolein	2.093	56	17947	103.25	ug/L	99
9) 1,1-Dichloroethene	2.178	96	78015	70.32	ug/L	91
10) Freon-113	2.196	101	93432	79.54	µg/L	93
11) Acetone	2.190	58	25472	152.43	ug/L	62
12) Iodomethane	2.294	142	479460	190.33	ug/L	99
13) Carbon disulfide	2.337	76	739793	187.96	ug/L	100
14) Methyl acetate	2.416	43	150354	97.59	µg/L	98
15) Vinyl acetate	3.019	43	718655	242.30	ug/L	98
16) Methylene chloride	2.519	84	146648	98.88	ug/L	91
17) Acrylonitrile	2.678	53	80749	104.04	ug/L	98
18) Methyl tert-butyl ether	2.708	73	428801	104.46	µg/L	94
19) trans-1,2-Dichloroethene	2.715	96	142167	100.44	ug/L	99
20) 1,1-Dichloroethane	3.019	63	268325	98.90	ug/L	97
21) 2,2-Dichloropropane	3.428	77	108055	94.31	ug/L	94
22) cis-1,2-Dichloroethene	3.422	96	157350	102.24	ug/L	98
23) 2-Butanone	3.409	72	48475	220.30	ug/L	95
24) Bromochloromethane	3.592	128	83331	103.49	ug/L	94
25) Chloroform	3.666	83	255967	96.57	ug/L	100
26) Cyclohexane	3.842	56	223390	94.09	µg/L	99
27) 1,1,1-Trichloroethane	3.787	97	207939	96.58	ug/L #	64
30) 1,1-Dichloropropene	3.897	110	72450	96.85	ug/L	96
31) Carbon tetrachloride	3.897	119	173222	101.79	ug/L	96
32) Benzene	4.037	78	573686	99.26	ug/L	100
33) 1,2-Dichloroethane	4.080	62	197033	98.56	ug/L	99
34) Trichloroethene	4.525	130	162954	98.93	ug/L	97
35) Methylcyclohexane	4.702	55	184771	98.27	µg/L	94
36) 1,2-Dichloropropane	4.714	63	152077	102.24	ug/L	99
37) Dibromomethane	4.781	93	94332	103.36	ug/L	97
38) 1,4-Dioxane	4.763	88	13038	1166.05	µg/L	98
39) Bromodichloromethane	4.909	83	191336	104.97	ug/L	99
40) 2-Chloroethyl vinyl ether	5.123	63	222588	257.85	µg/L	98
41) cis-1,3-Dichloropropene	5.245	75	235966	114.31	ug/L	98
42) 4-Methyl-2-pentanone	5.123	43	151519	228.31	ug/L #	48
44) Toluene	5.507	92	366225	99.86	ug/L	100
45) trans-1,3-Dichloropropene	5.245	75	235966	114.31	ug/L	99
46) 1,1,2-Trichloroethane	5.848	83	111181	106.00	ug/L	97

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971480.D
Acq On : 12 Jan 2022 1:01 pm
Operator : ORM
Sample : ICAL 8260 100 W (100uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 12 15:36:23 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

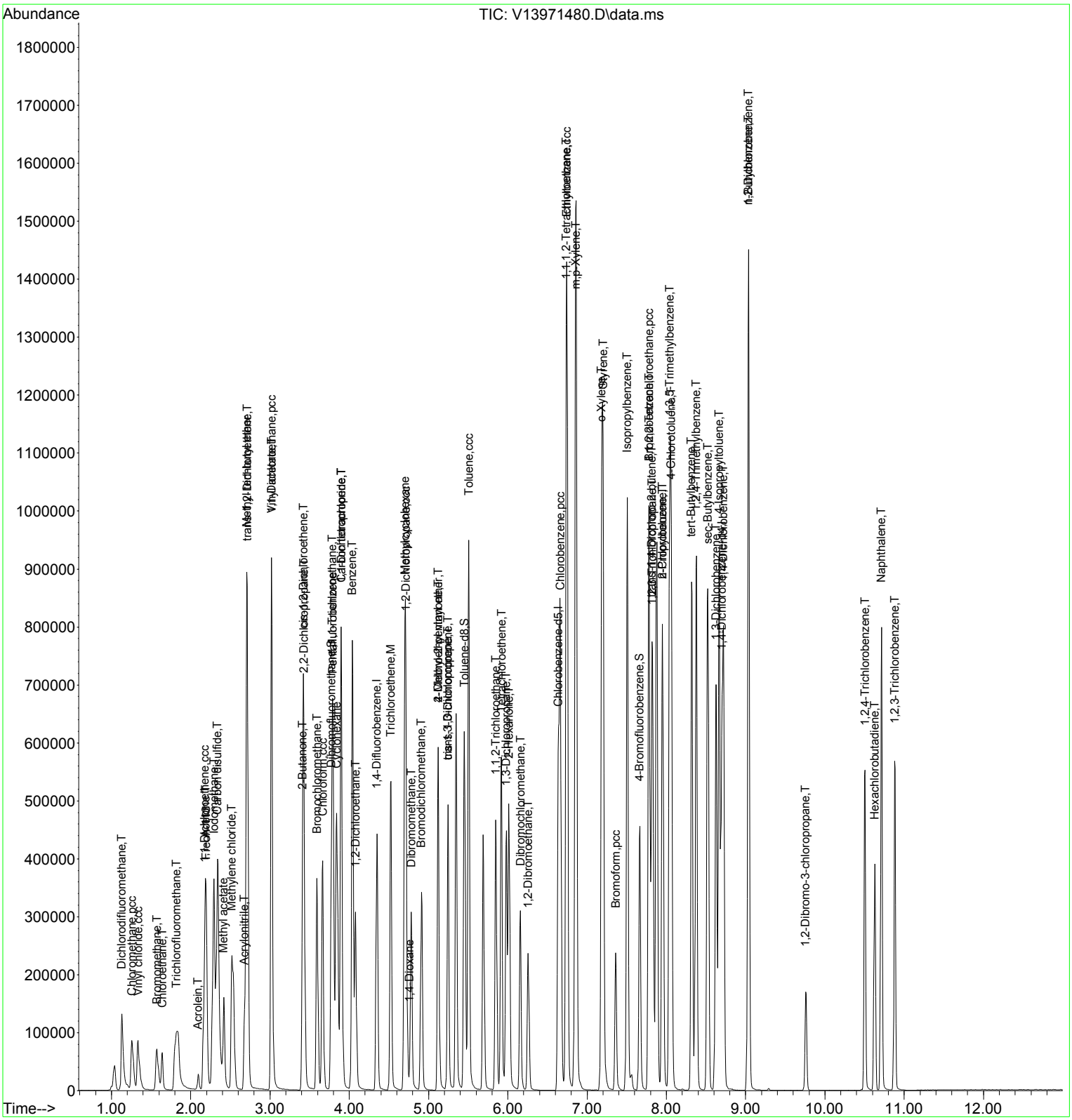
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Hexanone	6.013	43	285515	227.60	ug/L		99
49) Tetrachloroethene	5.921	166	168999	98.88	ug/L		98
50) 1,3-Dichloropropane	5.982	76	230788	105.02	ug/L		98
51) Dibromochloromethane	6.159	129	153936	110.63	ug/L		98
52) 1,2-Dibromoethane	6.257	107	145655	110.25	ug/L		98
53) Chlorobenzene	6.665	112	422798	99.50	ug/L		96
54) 1,1,1,2-Tetrachloroethane	6.738	131	143159	109.59	ug/L		97
55) Ethylbenzene	6.744	91	667657	100.58	ug/L	#	74
56) m,p-Xylene	6.860	91	1015989	199.60	ug/L		97
57) o-Xylene	7.183	91	540606	103.72	ug/L		97
58) Styrene	7.201	104	444782	107.94	ug/L		96
59) Bromoform	7.360	173	110796	115.14	ug/L		99
62) Bromobenzene	7.781	156	181343	108.75	ug/L		81
63) 1,1,2,2-Tetrachloroethane	7.781	83	189972	108.45	ug/L		98
64) 1,2,3-Trichloropropane	7.823	75	295063	120.72	ug/L	#	1
65) Isopropylbenzene	7.506	105	673100	110.12	ug/L		99
66) n-Propylbenzene	7.951	91	445956	104.57	ug/L	#	51
67) trans-1,4-Dichloro-2-b...	7.817	124	27546	202.43	ug/L		90
68) 2-Chlorotoluene	7.951	91	445956	104.57	ug/L		95
69) 4-Chlorotoluene	8.061	91	495373	104.64	ug/L		95
70) 1,3,5-Trimethylbenzene	8.043	105	521134	109.00	ug/L		98
71) tert-Butylbenzene	8.317	119	450976	108.77	ug/L		99
72) 1,2,4-Trimethylbenzene	8.378	105	521468	109.64	ug/L		96
73) sec-Butylbenzene	8.524	105	621001	108.57	ug/L		100
74) 1,3-Dichlorobenzene	8.628	146	309945	108.15	ug/L		97
75) 4-Isopropyltoluene	8.665	119	526009	108.93	ug/L		99
76) 1,4-Dichlorobenzene	8.719	146	294157	100.51	ug/L		99
77) 1,2-Dichlorobenzene	9.036	146	289096	107.43	ug/L		99
78) n-Butylbenzene	9.036	91	428687	112.04	ug/L		99
79) 1,2-Dibromo-3-chloropr...	9.756	75	41078	108.23	ug/L		95
80) 1,2,4-Trichlorobenzene	10.506	180	170559	115.22	ug/L		98
81) Hexachlorobutadiene	10.628	225	68644	106.45	ug/L		97
82) Naphthalene	10.713	128	555204	109.49	ug/L		100
83) 1,2,3-Trichlorobenzene	10.884	180	159445	121.47	ug/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971480.D
Acq On : 12 Jan 2022 1:01 pm
Operator : ORM
Sample : ICAL 8260 100 W (100uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 12 15:36:23 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971482.D
Acq On : 12 Jan 2022 1:45 pm
Operator : ORM
Sample : ICAL 8260 150 W (150uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 12 15:36:45 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.799	168	193163	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	4.348	114	309823	50.00	ug/L		0.00
47) Chlorobenzene-d5	6.640	117	311177	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	8.701	152	166120	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	3.775	113	92164	48.56	ug/L		0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 97.12%				
43) Toluene-d8	5.452	98	366660	49.88	ug/L		0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 99.76%				
60) 4-Bromofluorobenzene	7.665	95	152678	49.77	ug/L		0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 99.54%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.129	85	267690	156.98	ug/L		99
3) Chloromethane	1.257	50	172026	147.70	ug/L		97
4) Vinyl chloride	1.330	62	164872	146.66	ug/L		98
5) Bromomethane	1.568	94	87688	121.25	ug/L		99
6) Chloroethane	1.635	64	72402	126.59	ug/L		100
7) Trichlorofluoromethane	1.812	101	268390	147.82	ug/L		98
8) Acrolein	2.092	56	24571	142.74	ug/L		99
9) 1,1-Dichloroethene	2.178	96	139923	127.36	ug/L		96
10) Freon-113	2.184	101	174024	149.61	µg/L		95
11) Acetone	2.190	58	48749	294.59	ug/L		90
12) Iodomethane	2.288	142	719231	288.32	ug/L		98
13) Carbon disulfide	2.336	76	1116479	286.45	ug/L		100
14) Methyl acetate	2.416	43	228563	149.81	µg/L		99
15) Vinyl acetate	3.019	43	1007051	342.87	ug/L		100
16) Methylene chloride	2.525	84	215952	147.97	ug/L		92
17) Acrylonitrile	2.678	53	119450	155.42	ug/L		98
18) Methyl tert-butyl ether	2.708	73	619436	152.38	µg/L		95
19) trans-1,2-Dichloroethene	2.714	96	214014	152.68	ug/L		99
20) 1,1-Dichloroethane	3.019	63	399063	148.53	ug/L		97
21) 2,2-Dichloropropane	3.428	77	168758	148.73	ug/L		93
22) cis-1,2-Dichloroethene	3.422	96	237857	156.06	ug/L		99
23) 2-Butanone	3.409	72	70279	322.53	ug/L		97
24) Bromochloromethane	3.592	128	125228	157.05	ug/L		97
25) Chloroform	3.665	83	383635	146.15	ug/L		99
26) Cyclohexane	3.842	56	342551	145.69	µg/L		99
27) 1,1,1-Trichloroethane	3.787	97	329207	154.41	ug/L	#	80
30) 1,1-Dichloropropene	3.897	110	111150	148.16	ug/L		93
31) Carbon tetrachloride	3.897	119	271079	158.84	ug/L		99
32) Benzene	4.037	78	861296	148.59	ug/L		100
33) 1,2-Dichloroethane	4.080	62	289342	144.32	ug/L		99
34) Trichloroethene	4.525	130	254483	154.05	ug/L		96
35) Methylcyclohexane	4.702	55	281323	149.19	µg/L		94
36) 1,2-Dichloropropane	4.714	63	225334	151.05	ug/L		99
37) Dibromomethane	4.781	93	139228	152.11	ug/L		98
38) 1,4-Dioxane	4.763	88	17455	1556.57	µg/L		98
39) Bromodichloromethane	4.909	83	287771	157.42	ug/L		99
40) 2-Chloroethyl vinyl ether	5.122	63	335796	387.87	µg/L		98
41) cis-1,3-Dichloropropene	5.244	75	357372	172.62	ug/L		97
42) 4-Methyl-2-pentanone	5.122	43	225118	338.22	ug/L	#	48
44) Toluene	5.506	92	554533	150.78	ug/L		98
45) trans-1,3-Dichloropropene	5.244	75	357372	172.62	ug/L		99
46) 1,1,2-Trichloroethane	5.848	83	166624	158.40	ug/L		98

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971482.D
Acq On : 12 Jan 2022 1:45 pm
Operator : ORM
Sample : ICAL 8260 150 W (150uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 12 15:36:45 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

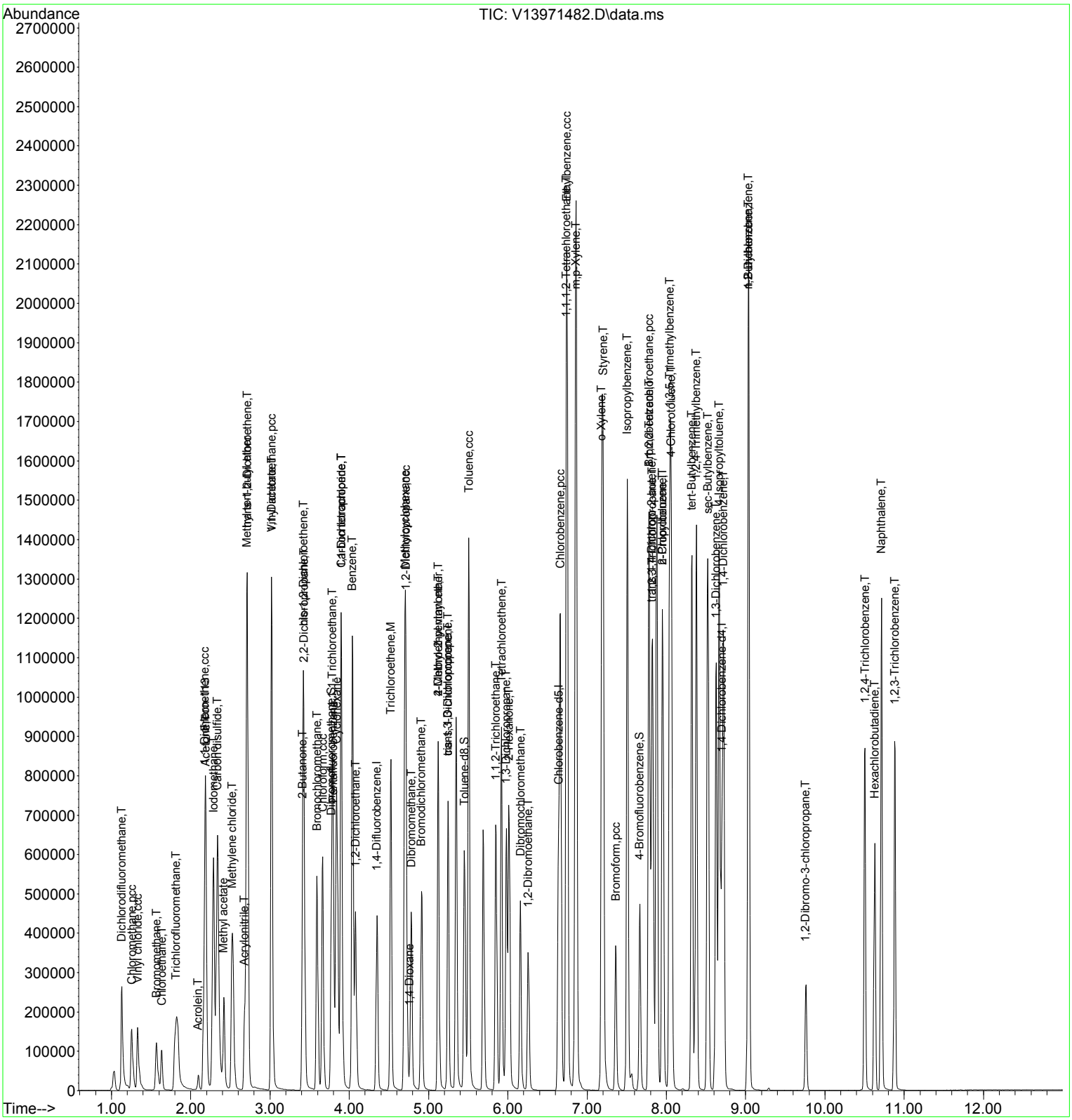
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Hexanone	6.012	43	422465	333.94	ug/L		98
49) Tetrachloroethene	5.921	166	262260	152.16	ug/L		98
50) 1,3-Dichloropropane	5.982	76	340075	153.46	ug/L		99
51) Dibromochloromethane	6.159	129	235127	167.56	ug/L		98
52) 1,2-Dibromoethane	6.256	107	218484	163.99	ug/L		99
53) Chlorobenzene	6.665	112	636871	148.62	ug/L		96
54) 1,1,1,2-Tetrachloroethane	6.738	131	214117	162.54	ug/L		96
55) Ethylbenzene	6.744	91	995608	148.73	ug/L	#	74
56) m,p-Xylene	6.860	91	1506732	293.52	ug/L		97
57) o-Xylene	7.183	91	806171	153.37	ug/L		98
58) Styrene	7.201	104	658588	158.48	ug/L		99
59) Bromoform	7.360	173	171953	177.20	ug/L		99
62) Bromobenzene	7.780	156	270275	157.72	ug/L		84
63) 1,1,2,2-Tetrachloroethane	7.780	83	279042	155.00	ug/L		99
64) 1,2,3-Trichloropropane	7.823	75	445247	177.26	ug/L	#	1
65) Isopropylbenzene	7.506	105	1033765	164.58	ug/L		98
66) n-Propylbenzene	7.951	91	673986	153.79	ug/L	#	51
67) trans-1,4-Dichloro-2-b...	7.817	124	43620	306.94	ug/L		93
68) 2-Chlorotoluene	7.951	91	673986	153.79	ug/L		95
69) 4-Chlorotoluene	8.061	91	738775	151.85	ug/L		96
70) 1,3,5-Trimethylbenzene	8.043	105	791196	161.03	ug/L		97
71) tert-Butylbenzene	8.323	119	706955	165.92	ug/L		98
72) 1,2,4-Trimethylbenzene	8.378	105	795061	162.66	ug/L		96
73) sec-Butylbenzene	8.524	105	962599	163.76	ug/L		100
74) 1,3-Dichlorobenzene	8.628	146	476588	161.82	ug/L		97
75) 4-Isopropyltoluene	8.664	119	810224	163.27	ug/L		99
76) 1,4-Dichlorobenzene	8.719	146	460303	153.04	ug/L		99
77) 1,2-Dichlorobenzene	9.036	146	436179	157.73	ug/L		99
78) n-Butylbenzene	9.036	91	654946	166.56	ug/L		98
79) 1,2-Dibromo-3-chloropr...	9.756	75	65289	167.12	ug/L		98
80) 1,2,4-Trichlorobenzene	10.505	180	272809	179.33	ug/L		99
81) Hexachlorobutadiene	10.627	225	107653	162.45	ug/L		98
82) Naphthalene	10.713	128	868926	166.49	ug/L		100
83) 1,2,3-Trichlorobenzene	10.883	180	250948	186.04	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971482.D
Acq On : 12 Jan 2022 1:45 pm
Operator : ORM
Sample : ICAL 8260 150 W (150uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 12 15:36:45 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971484.D
Acq On : 12 Jan 2022 2:29 pm
Operator : ORM
Sample : ICAL 8260 200 W (200uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jan 12 16:09:03 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 16:08:12 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.800	168	183028	50.00	ug/L	0.00
28) 1,4-Difluorobenzene	4.348	114	296436	50.00	ug/L	0.00
47) Chlorobenzene-d5	6.640	117	302727	50.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	8.701	152	161864	50.00	ug/L	0.00
System Monitoring Compounds						
29) Dibromofluoromethane	3.781	113	88166	48.55	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 97.10%			
43) Toluene-d8	5.452	98	351956	50.04	ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 100.08%			
60) 4-Bromofluorobenzene	7.665	95	148005	49.59	ug/L	0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 99.18%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.129	85	342284	211.84	ug/L	99
3) Chloromethane	1.257	50	221101	200.35	ug/L	98
4) Vinyl chloride	1.331	62	208786	196.40	ug/L	99
5) Bromomethane	1.568	94	113236	165.25	ug/L	99
6) Chloroethane	1.635	64	92634	170.93	ug/L	98
7) Trichlorofluoromethane	1.818	101	335661	195.11	ug/L	96
8) Acrolein	2.099	56	30697	188.20	ug/L	99
9) 1,1-Dichloroethene	2.178	96	151034	145.08	ug/L	92
10) Freon-113	2.190	101	181199	164.40	µg/L	94
11) Acetone	2.196	58	51411	327.88	ug/L	83
12) Iodomethane	2.288	142	913564	386.50	ug/L	99
13) Carbon disulfide	2.336	76	1438924	389.62	ug/L	100
14) Methyl acetate	2.422	43	287388	198.79	µg/L	100
15) Vinyl acetate	3.019	43	1270777	456.62	ug/L	100
16) Methylene chloride	2.525	84	277485	201.33	ug/L	89
17) Acrylonitrile	2.678	53	149736	205.61	ug/L	99
18) Methyl tert-butyl ether	2.708	73	795204	206.46	µg/L	95
19) trans-1,2-Dichloroethene	2.714	96	267353	201.30	ug/L	99
20) 1,1-Dichloroethane	3.025	63	493914	194.01	ug/L	98
21) 2,2-Dichloropropane	3.428	77	222313	206.09	ug/L	94
22) cis-1,2-Dichloroethene	3.428	96	300592	208.14	ug/L	97
23) 2-Butanone	3.409	72	87159	422.14	ug/L	95
24) Bromochloromethane	3.598	128	161700	214.03	ug/L	96
25) Chloroform	3.665	83	488834	196.54	ug/L	100
26) Cyclohexane	3.842	56	437826	196.52	µg/L	99
27) 1,1,1-Trichloroethane	3.787	97	419676	207.75	ug/L	88
30) 1,1-Dichloropropene	3.897	110	141598	197.27	ug/L	93
31) Carbon tetrachloride	3.903	119	347238	212.65	ug/L	97
32) Benzene	4.043	78	1089511	196.44	ug/L	100
33) 1,2-Dichloroethane	4.080	62	369939	192.85	ug/L	100
34) Trichloroethene	4.525	130	324754	205.47	ug/L	96
35) Methylcyclohexane	4.702	55	356469	197.82	µg/L	95
36) 1,2-Dichloropropane	4.714	63	285747	200.20	ug/L	99
37) Dibromomethane	4.781	93	181011	206.69	ug/L	98
38) 1,4-Dioxane	4.769	88	18610	1734.52	µg/L	90
39) Bromodichloromethane	4.909	83	376316	215.15	ug/L	99
40) 2-Chloroethyl vinyl ether	5.122	63	430034	519.15	µg/L	99
41) cis-1,3-Dichloropropene	5.244	75	464183	234.34	ug/L	98
42) 4-Methyl-2-pentanone	5.122	43	285346	448.07	ug/L #	48
44) Toluene	5.507	92	700310	199.01	ug/L	99
45) trans-1,3-Dichloropropene	5.244	75	464183	234.34	ug/L	99
46) 1,1,2-Trichloroethane	5.848	83	216110	214.71	ug/L	99

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971484.D
Acq On : 12 Jan 2022 2:29 pm
Operator : ORM
Sample : ICAL 8260 200 W (200uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jan 12 16:09:03 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 16:08:12 2022
Response via : Initial Calibration

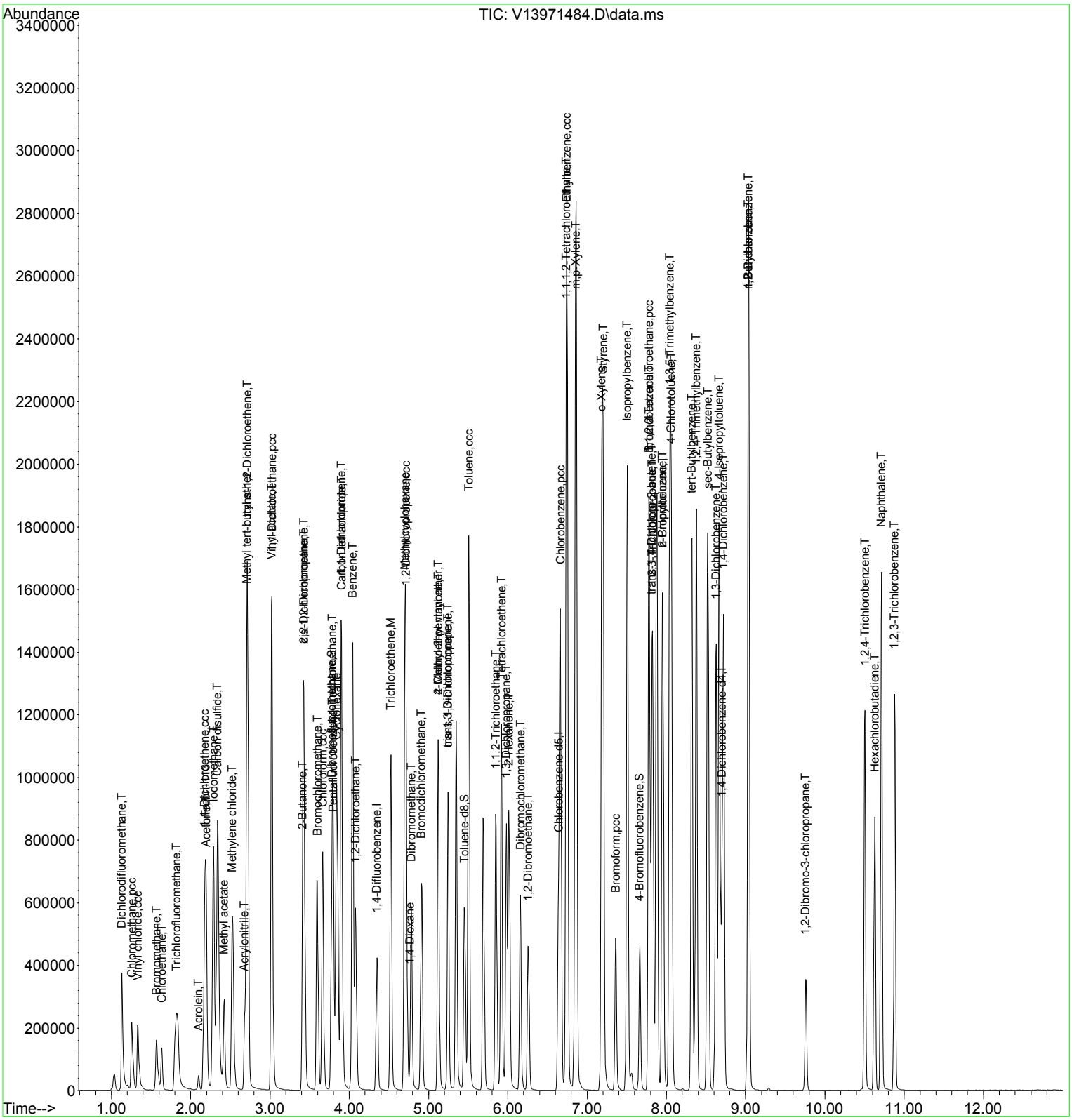
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Hexanone	6.013	43	515254	418.66	ug/L		97
49) Tetrachloroethene	5.921	166	338086	201.63	ug/L		97
50) 1,3-Dichloropropane	5.982	76	435716	202.11	ug/L		99
51) Dibromochloromethane	6.159	129	308337	225.87	ug/L		98
52) 1,2-Dibromoethane	6.256	107	289573	223.41	ug/L		100
53) Chlorobenzene	6.665	112	825858	198.10	ug/L		96
54) 1,1,1,2-Tetrachloroethane	6.738	131	277232	216.32	ug/L		97
55) Ethylbenzene	6.744	91	1258358	193.23	ug/L	#	74
56) m,p-Xylene	6.860	91	1907909	382.05	ug/L		98
57) o-Xylene	7.183	91	1039932	203.36	ug/L		97
58) Styrene	7.201	104	842597	208.42	ug/L		97
59) Bromoform	7.360	173	229315	242.91	ug/L		99
62) Bromobenzene	7.780	156	357851	214.31	ug/L		80
63) 1,1,2,2-Tetrachloroethane	7.780	83	361691	206.20	ug/L		98
64) 1,2,3-Trichloropropane	7.823	75	578343	236.30	ug/L	#	1
65) Isopropylbenzene	7.506	105	1329451	217.21	ug/L		97
66) n-Propylbenzene	7.951	91	875385	205.00	ug/L	#	52
67) trans-1,4-Dichloro-2-b...	7.817	124	56849	407.44	ug/L		93
68) 2-Chlorotoluene	7.951	91	875385	205.00	ug/L		95
69) 4-Chlorotoluene	8.061	91	957636	202.01	ug/L		95
70) 1,3,5-Trimethylbenzene	8.043	105	1022624	213.60	ug/L		97
71) tert-Butylbenzene	8.323	119	924097	222.58	ug/L		98
72) 1,2,4-Trimethylbenzene	8.378	105	1040043	218.37	ug/L		94
73) sec-Butylbenzene	8.524	105	1262878	220.49	ug/L		100
74) 1,3-Dichlorobenzene	8.628	146	625875	218.09	ug/L		97
75) 4-Isopropyltoluene	8.664	119	1069652	221.21	ug/L		99
76) 1,4-Dichlorobenzene	8.719	146	607778	207.39	ug/L		99
77) 1,2-Dichlorobenzene	9.036	146	572485	212.46	ug/L		98
78) n-Butylbenzene	9.036	91	865878	226.00	ug/L		98
79) 1,2-Dibromo-3-chloropr...	9.756	75	86121	206.33	ug/L		94
80) 1,2,4-Trichlorobenzene	10.506	180	376424	253.94	ug/L		99
81) Hexachlorobutadiene	10.628	225	153483	237.70	ug/L		98
82) Naphthalene	10.713	128	1162008	202.63	ug/L		100
83) 1,2,3-Trichlorobenzene	10.877	180	343582	261.41	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971484.D
Acq On : 12 Jan 2022 2:29 pm
Operator : ORM
Sample : ICAL 8260 200 W (200uL/50mL)
Misc : ICAL 8260B_W
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jan 12 16:09:03 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 16:08:12 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971487.D
Acq On : 12 Jan 2022 3:35 pm
Operator : ORM
Sample : ICV 8260 020 W (20uL/50mL)
Misc : ICV 8260B_W/624.1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jan 12 15:51:13 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.800	168	191294	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	4.348	114	304445	50.00	ug/L		0.00
47) Chlorobenzene-d5	6.635	117	305946	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	8.701	152	176496	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	3.781	113	96879	51.94	ug/L		0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 103.88%				
43) Toluene-d8	5.452	98	364666	50.48	ug/L		0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 100.96%				
60) 4-Bromofluorobenzene	7.665	95	151925	50.37	ug/L		0.00
Spiked Amount 50.000	Range 64 - 125		Recovery = 100.74%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.129	85	35205	20.85	ug/L		97
3) Chloromethane	1.258	50	23952	20.77	ug/L		95
4) Vinyl chloride	1.337	62	22924	20.59	ug/L		96
5) Bromomethane	1.575	94	15299	21.36	ug/L		98
6) Chloroethane	1.635	64	12075	21.32	ug/L		99
7) Trichlorofluoromethane	1.812	101	39327	21.87	ug/L		96
8) Acrolein	2.099	56	3530	20.71	ug/L		91
9) 1,1-Dichloroethene	2.172	96	19438	17.87	ug/L		98
10) Freon-113	2.190	101	22504	19.54	µg/L		93
11) Acetone	2.196	58	6580	40.15	ug/L		85
12) Iodomethane	2.288	142	107458	43.50	ug/L		99
13) Carbon disulfide	2.337	76	168346	43.61	ug/L		100
14) Methyl acetate	2.422	43	30485	20.18	µg/L		96
15) Vinyl acetate	3.025	43	131978	45.37	ug/L		97
16) Methylene chloride	2.519	84	33282	21.43	ug/L		89
17) Acrylonitrile	2.684	53	15111	19.85	ug/L		95
18) Methyl tert-butyl ether	2.708	73	86970	21.60	µg/L	#	90
19) trans-1,2-Dichloroethene	2.721	96	30708	22.12	ug/L		98
20) 1,1-Dichloroethane	3.025	63	58196	21.87	ug/L		97
21) 2,2-Dichloropropane	3.434	77	23655	21.05	ug/L		95
22) cis-1,2-Dichloroethene	3.428	96	32954	21.83	ug/L		97
23) 2-Butanone	3.416	72	8492	39.35	ug/L		97
24) Bromochloromethane	3.599	128	17412	22.05	ug/L		97
25) Chloroform	3.666	83	54810	21.08	ug/L		97
26) Cyclohexane	3.842	56	53600	23.02	µg/L		97
27) 1,1,1-Trichloroethane	3.787	97	44974	21.30	ug/L	#	1
30) 1,1-Dichloropropene	3.897	110	15543	21.08	ug/L		99
31) Carbon tetrachloride	3.897	119	35652	21.26	ug/L		95
32) Benzene	4.044	78	119615	21.00	ug/L		100
33) 1,2-Dichloroethane	4.080	62	41288	20.96	ug/L		98
34) Trichloroethene	4.525	130	34214	21.08	ug/L		94
35) Methylcyclohexane	4.702	55	39739	21.45	µg/L		89
36) 1,2-Dichloropropane	4.714	63	30802	21.01	ug/L		100
37) Dibromomethane	4.781	93	19306	21.47	ug/L		98
38) 1,4-Dioxane	4.769	88	1640	148.83	µg/L		86
39) Bromodichloromethane	4.909	83	37917	21.11	ug/L		97
40) 2-Chloroethyl vinyl ether	5.123	63	39190	46.07	µg/L		98
41) cis-1,3-Dichloropropene	5.245	75	42995	21.13	ug/L		99
42) 4-Methyl-2-pentanone	5.123	43	28068	42.91	ug/L	#	49
44) Toluene	5.507	92	75087	20.78	ug/L		98
45) trans-1,3-Dichloropropene	5.245	75	42995	21.13	ug/L		98
46) 1,1,2-Trichloroethane	5.848	83	21723	21.01	ug/L		99

Data Path : C:\MS-13\New\Raw data\220112\
Data File : V13971487.D
Acq On : 12 Jan 2022 3:35 pm
Operator : ORM
Sample : ICV 8260 020 W (20uL/50mL)
Misc : ICV 8260B_W/624.1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jan 12 15:51:13 2022
Quant Method : C:\MS-13\New\Calculation Methods\MS-13_VW_LOW_011222.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) 2-Hexanone	6.013	43	53255	42.82 ug/L	98
49) Tetrachloroethene	5.921	166	34307	20.24 ug/L	98
50) 1,3-Dichloropropane	5.982	76	44720	20.53 ug/L	98
51) Dibromochloromethane	6.159	129	28677	20.79 ug/L	97
52) 1,2-Dibromoethane	6.257	107	28357	21.65 ug/L	98
53) Chlorobenzene	6.665	112	85347	20.26 ug/L	95
54) 1,1,1,2-Tetrachloroethane	6.738	131	27863	21.51 ug/L	94
55) Ethylbenzene	6.744	91	141427	21.49 ug/L #	72
56) m,p-Xylene	6.860	91	219182	43.43 ug/L	100
57) o-Xylene	7.183	91	113765	22.01 ug/L	99
58) Styrene	7.201	104	91726	22.45 ug/L	95
59) Bromoform	7.360	173	19389	20.32 ug/L	100
62) Bromobenzene	7.781	156	37187	20.42 ug/L	80
63) 1,1,2,2-Tetrachloroethane	7.781	83	40111	20.97 ug/L	97
64) 1,2,3-Trichloropropane	7.823	75	55909	20.95 ug/L #	1
65) Isopropylbenzene	7.506	105	143635	21.52 ug/L	99
66) n-Propylbenzene	7.951	91	96180	20.66 ug/L #	52
67) trans-1,4-Dichloro-2-b...	7.817	124	4172	36.02 ug/L	66
68) 2-Chlorotoluene	7.951	91	96180	20.66 ug/L	96
69) 4-Chlorotoluene	8.061	91	108603	21.01 ug/L	98
70) 1,3,5-Trimethylbenzene	8.043	105	115854	22.19 ug/L	98
71) tert-Butylbenzene	8.317	119	99771	22.04 ug/L	98
72) 1,2,4-Trimethylbenzene	8.378	105	116620	22.46 ug/L	97
73) sec-Butylbenzene	8.524	105	138531	22.18 ug/L	98
74) 1,3-Dichlorobenzene	8.628	146	66336	21.20 ug/L	98
75) 4-Isopropyltoluene	8.665	119	118762	22.52 ug/L	100
76) 1,4-Dichlorobenzene	8.719	146	64440	20.17 ug/L	98
77) 1,2-Dichlorobenzene	9.036	146	62820	21.38 ug/L	97
78) n-Butylbenzene	9.036	91	93745	22.44 ug/L	99
79) 1,2-Dibromo-3-chloropr...	9.756	75	8180	18.78 ug/L	95
80) 1,2,4-Trichlorobenzene	10.506	180	34548	21.37 ug/L	97
81) Hexachlorobutadiene	10.628	225	14928	21.20 ug/L	96
82) Naphthalene	10.713	128	113935	20.36 ug/L	100
83) 1,2,3-Trichlorobenzene	10.878	180	32777	22.87 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-13\New\Raw data\220112\
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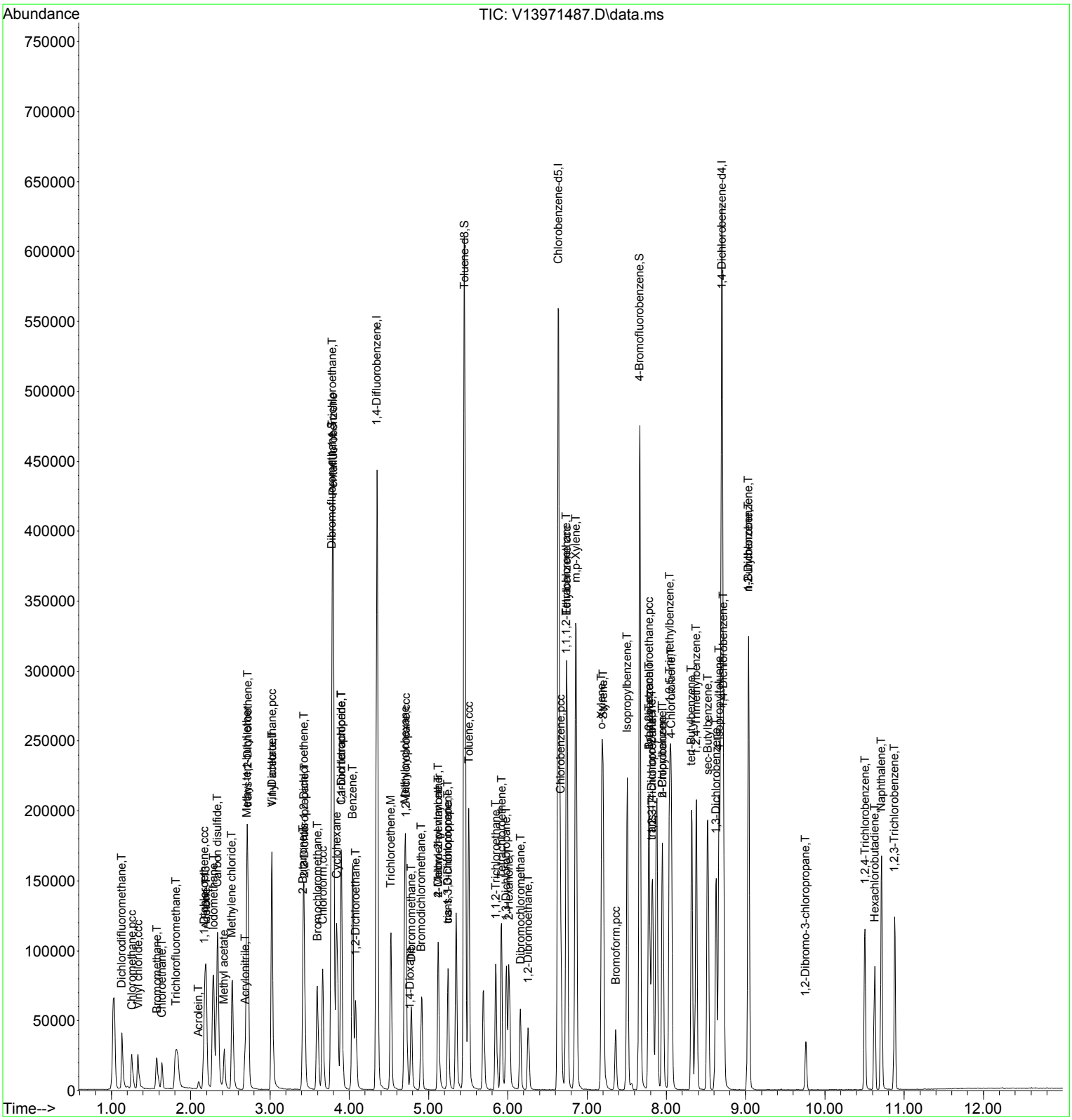
QLast Update : Wed Jan 12 15:26:28 2022
Response via : Initial Calibration



Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **1/17/2022 8:30:00 A**
Prep End Date: **1/18/2022 8:29:00 A**

Prep Batch **329202** Prep Code: **5030** Technician: **October Martinez**

Prep Factor Units: **mL / mL**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2201A78-001A	Waste Water		5	0	0	5	1.000	1/17/2022	1/18/2022
2201E36-001A	Waste Water		5	0	0	5	1.000	1/17/2022	1/18/2022
2201E36-002A	Waste Water		5	0	0	5	1.000	1/17/2022	1/18/2022
2201E36-003A	Aqueous		5	0	0	5	1.000	1/17/2022	1/18/2022
2201G62-001A	Groundwater		5	0	0	5	1.000	1/17/2022	1/18/2022
2201G62-002A	Groundwater		5	0	0	5	1.000	1/17/2022	1/18/2022
2201G62-003A	Groundwater		5	0	0	5	1.000	1/17/2022	1/18/2022
2201G62-003AMS	Groundwater		5	0	0	5	1.000	1/17/2022	1/18/2022
2201G62-003AMSD	Groundwater		5	0	0	5	1.000	1/17/2022	1/18/2022
2201G62-004A	Groundwater		5	0	0	5	1.000	1/17/2022	1/18/2022
2201G62-005A	Groundwater		5	0	0	5	1.000	1/17/2022	1/18/2022
2201G62-006A	Groundwater		5	0	0	5	1.000	1/17/2022	1/18/2022
2201G62-007A	Groundwater		5	0	0	5	1.000	1/17/2022	1/18/2022
2201G62-008A	Groundwater		5	0	0	5	1.000	1/17/2022	1/18/2022
LCS-329202			5	0	0	5	1.000	1/17/2022	1/18/2022
MB-329202			5	0	0	5	1.000	1/17/2022	1/18/2022

End of Data Package

ANALYTICAL
ENVIRONMENTAL
SERVICES, INC.

Electronic Data Package

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 04, 2022

Jessica Vickers
Tetra Tech EM Inc.

1955 Evergreen Blvd.
Duluth GA 30096

RE: Lakes Parkway Lithium Battery Fire

Dear Jessica Vickers: Order No: 2202V46

Analytical Environmental Services, Inc. received 1 samples on 2/25/2022 5:29:00 PM
for the analyses presented in following report.

"No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.
AES's accreditations are as follows:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/21-06/30/22.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/22 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/23.
These results relate only to the items tested as received. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi

Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive Atlanta GA 30340- 3906
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 2202V46

Date: 2/25/22 Page 1 of 1

COMPANY:	ADDRESS:
Tetra Tech, Inc.	1955 Evergreen Blvd Bldg 200, Suite 300 Duluth, GA 30096
PHONE: 404-849-7136	FAX: 678-775-3138
SAMPLED BY: Paul Prys	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	TCLP VOCs	TCLP SVOCs	TCLP Metals	REMARKS	No # of Containers
						PRESERVATION (See codes)	H	H	I		
1	LPLBF-SL-L01-022522	2/25/22	1620		✓	O	✓	✓	✓	Northern Roll-Off	4
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	2/25/22 1729	1:	2.25.22 17:29
2:		2:	
3:		3:	

PROJECT INFORMATION

PROJECT NAME: Lakes Parkway Lithium Battery Fire

PROJECT #: 103X90320082035.001F

SITE ADDRESS: 1665 Lakes Parkway, Lawrenceville, GA

SEND REPORT TO: jessica.vickers@tetratech.com

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 4

Turnaround Time Request
- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same Day Rush (auth req.)
- [ ] Other

STATE PROGRAM (if any):

E-mail? Y / N; Y Fax? Y / N N

DATA PACKAGE: [ ] I [ ] II [ ] III [x] IV

SPECIAL INSTRUCTIONS/COMMENTS:
- The sludge sample for TCLP VOC analysis are not preserved.
- Please send sample results to paul.prys@tetratech.com.

SHIPMENT METHOD

OUT 02/25/22 VIA: Drop off

IN / / VIA:

[x] CLIENT [ ] FedEx [ ] UPS [ ] MAIL [ ] COURIER

[ ] GREYHOUND [ ] OTHER

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED WITH STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW=Wastewater DW=Drinking Water O = Other (specify)

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

CLIENT: Tetra Tech EM Inc.
Project: Lakes Parkway Lithium Battery Fire
Lab Order: 2202V46

CASE NARRATIVE

Data Package case narrative added 03/07/2022:

The QC Summary has been updated with additional QC Parameters.

Analytical Environmental Services, Inc **Date:** 4-Mar-22

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LPLBF-SL-L01-022522
Project Name:	Lakes Parkway Lithium Battery Fire	**Collection Date:**	2/25/2022 4:20:00 PM
Lab ID:	2202V46-001	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260D					**(SW5030B)**				
1,1-Dichloroethene	BRL		0.0064	0.10	mg/L	331888	20	03/02/2022 19:24	CM
1,2-Dichloroethane	BRL		0.0038	0.10	mg/L	331888	20	03/02/2022 19:24	CM
2-Butanone	BRL		0.10	0.20	mg/L	331888	20	03/02/2022 19:24	CM
Benzene	BRL		0.0048	0.10	mg/L	331888	20	03/02/2022 19:24	CM
Carbon tetrachloride	BRL		0.0055	0.10	mg/L	331888	20	03/02/2022 19:24	CM
Chlorobenzene	BRL		0.0094	0.10	mg/L	331888	20	03/02/2022 19:24	CM
Chloroform	BRL		0.0046	0.10	mg/L	331888	20	03/02/2022 19:24	CM
Tetrachloroethene	BRL		0.0059	0.10	mg/L	331888	20	03/02/2022 19:24	CM
Trichloroethene	BRL		0.0042	0.10	mg/L	331888	20	03/02/2022 19:24	CM
Vinyl chloride	BRL		0.0088	0.040	mg/L	331888	20	03/02/2022 19:24	CM
Surr: 4-Bromofluorobenzene	99.9		0	74.6-120	%REC	331888	20	03/02/2022 19:24	CM
Surr: Dibromofluoromethane	105		0	78.2-120	%REC	331888	20	03/02/2022 19:24	CM
Surr: Toluene-d8	84.1		0	83.1-120	%REC	331888	20	03/02/2022 19:24	CM
SEMIVOLATILES ORGANICS, TCLP SW1311/8270E					**(SW3510C)**				
1,4-Dichlorobenzene	BRL		0.014	0.10	mg/L	331786	1	03/03/2022 17:01	YH
2,4,5-Trichlorophenol	BRL		0.0099	0.10	mg/L	331786	1	03/03/2022 17:01	YH
2,4,6-Trichlorophenol	BRL		0.013	0.10	mg/L	331786	1	03/03/2022 17:01	YH
2,4-Dinitrotoluene	BRL		0.011	0.10	mg/L	331786	1	03/03/2022 17:01	YH
Hexachlorobenzene	BRL		0.011	0.10	mg/L	331786	1	03/03/2022 17:01	YH
Hexachlorobutadiene	BRL		0.012	0.10	mg/L	331786	1	03/03/2022 17:01	YH
Hexachloroethane	BRL		0.013	0.10	mg/L	331786	1	03/03/2022 17:01	YH
m,p-Cresol	0.016	J	0.011	0.10	mg/L	331786	1	03/03/2022 17:01	YH
Nitrobenzene	BRL		0.012	0.10	mg/L	331786	1	03/03/2022 17:01	YH
o-Cresol	BRL		0.0074	0.10	mg/L	331786	1	03/03/2022 17:01	YH
Pentachlorophenol	BRL		0.0062	0.50	mg/L	331786	1	03/03/2022 17:01	YH
Pyridine	BRL		0.022	0.10	mg/L	331786	1	03/03/2022 17:01	YH
Cresols, Total	BRL		0.018	0.10	mg/L	331786	1	03/03/2022 17:01	YH
Surr: 2,4,6-Tribromophenol	100		0	57.8-139	%REC	331786	1	03/03/2022 17:01	YH
Surr: 2-Fluorobiphenyl	86		0	48.5-119	%REC	331786	1	03/03/2022 17:01	YH
Surr: 2-Fluorophenol	90.5		0	42.9-120	%REC	331786	1	03/03/2022 17:01	YH
Surr: 4-Terphenyl-d14	111		0	53.9-130	%REC	331786	1	03/03/2022 17:01	YH
Surr: Nitrobenzene-d5	94.7		0	51-125	%REC	331786	1	03/03/2022 17:01	YH
Surr: Phenol-d5	88		0	43.3-120	%REC	331786	1	03/03/2022 17:01	YH
MERCURY, TCLP SW1311/7470A					**(SW7470A)**				
Mercury	BRL		0.000480	0.00400	mg/L	331921	1	03/03/2022 15:34	GR
ICP METALS, TCLP SW1311/6010D					**(SW3010A)**				
Arsenic	BRL		0.0488	0.250	mg/L	331933	1	03/03/2022 20:24	JM
Barium	2.10		0.0260	0.500	mg/L	331933	1	03/03/2022 20:24	JM
Cadmium	BRL		0.00580	0.0250	mg/L	331933	1	03/03/2022 20:24	JM
Chromium	0.0356	J	0.0176	0.0500	mg/L	331933	1	03/03/2022 20:24	JM

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc

Date: 4-Mar-22

Client:	Tetra Tech EM Inc.	**Client Sample ID:**	LPLBF-SL-L01-022522
Project Name:	Lakes Parkway Lithium Battery Fire	**Collection Date:**	2/25/2022 4:20:00 PM
Lab ID:	2202V46-001	**Matrix:**	Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
ICP METALS, TCLP SW1311/6010D				**(SW3010A)**					
Lead	0.266		0.0223	0.0500	mg/L	331933	1	03/03/2022 20:24	JM
Selenium	BRL		0.0625	0.150	mg/L	331933	1	03/03/2022 20:24	JM
Silver	0.00345	J	0.00304	0.0250	mg/L	331933	1	03/03/2022 20:24	JM

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
F	Analyzed in the lab which is a deviation from the method	Narr	See case narrative

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **Tetra Tech EM Inc.** AES Work Order Number: **2202V46**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ■ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	◉	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	◉	○		
5.	Custody seals intact on shipping container?	○	○	◉		
6.	Temperature blanks present?	◉	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	◉	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	◉	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	◉	○	○		
10.	Sampler name and/or signature on COC?	◉	○	○		
11.	Were all samples received within holding time?	◉	○	○		
12.	TAT marked on the COC?	◉	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 0.9 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). CP 2/25/2022

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	◉	○	○		
17.	Custody seals present on sample containers?	○	◉	○		
18.	Custody seals intact on sample containers?	○	○	◉		
19.	Do sample container labels match the COC?	◉	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	◉	○	○		
21.	Were all of the samples listed on the COC received?	◉	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	◉	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	◉	○	○		
24.	Were samples received in appropriate containers?	◉	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	○	○	◉		
26.	Were trip blanks submitted?	○	○	◉	listed on COC ☐ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). TL 2-26-22

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	○	○	◉		
29.	Containers meet preservation guidelines?	○	○	◉		
30.	Was pH adjusted at Sample Receipt?	○	○	◉		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.
This also excludes metals by EPA 200.7, 200.8 and 245.1 which will be verified between 16 and 24 hours after preservation.

I certify that I have completed sections 28-30 (dated initials). TL 2-26-22

Locked

Analytical Environmental Services, Inc

Date: 4-Mar-22

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Lab Order: 2202V46

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2202V46-001A	LPLBF-SL-L01-022522	2/25/2022 4:20:00PM	Soil	VOLATILES, TCLP Leached	02/28/2022	3/2/2022 12:54:00PM	03/02/2022
2202V46-001B	LPLBF-SL-L01-022522	2/25/2022 4:20:00PM	Soil	TCLP SEMIVOLATILES ORGANICS	03/02/2022	3/2/2022 11:41:20AM	03/03/2022
2202V46-001B	LPLBF-SL-L01-022522	2/25/2022 4:20:00PM	Soil	MERCURY, TCLP Leached	03/02/2022	3/3/2022 10:58:00AM	03/03/2022
2202V46-001B	LPLBF-SL-L01-022522	2/25/2022 4:20:00PM	Soil	ICP METALS, TCLP Leached	03/02/2022	3/3/2022 12:00:00PM	03/03/2022

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2202V46

ANALYTICAL QC SUMMARY REPORT

BatchID: 331786

Sample ID: **MB-331786** Client ID:
SampleType: **MBLK** TestCode: **SEMIVOLATILES ORGANICS, TCLP SW1311/8270E**
Units: **mg/L** Prep Date: **03/02/2022** Run No: **478946**
BatchID: **331786** Seq No: **11071612**
Analysis Date / Time: **Mar 2 2022 1:16PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	BRL	0.014	0.10									
2,4,5-Trichlorophenol	BRL	0.0099	0.10									
2,4,6-Trichlorophenol	BRL	0.013	0.10									
2,4-Dinitrotoluene	BRL	0.011	0.10									
Cresols, Total	BRL	0.018	0.10									
Hexachlorobenzene	BRL	0.011	0.10									
Hexachlorobutadiene	BRL	0.012	0.10									
Hexachloroethane	BRL	0.013	0.10									
m,p-Cresol	BRL	0.011	0.10									
Nitrobenzene	BRL	0.012	0.10									
o-Cresol	BRL	0.0074	0.10									
Pentachlorophenol	BRL	0.0062	0.50									
Pyridine	BRL	0.022	0.10									
Surr: 2,4,6-Tribromophenol	0.9367	0	0	1.000		93.7	57.8	139				
Surr: 2-Fluorobiphenyl	0.5265	0	0	0.5000		105	48.5	119				
Surr: 2-Fluorophenol	0.9480	0	0	1.000		94.8	42.9	120				
Surr: 4-Terphenyl-d14	0.6018	0	0	0.5000		120	53.9	130				
Surr: Nitrobenzene-d5	0.5557	0	0	0.5000		111	51	125				
Surr: Phenol-d5	0.8876	0	0	1.000		88.8	43.3	120				

Sample ID: **LCS-331786** Client ID:
SampleType: **LCS** TestCode: **SEMIVOLATILES ORGANICS, TCLP SW1311/8270E**
Units: **mg/L** Prep Date: **03/02/2022** Run No: **478946**
BatchID: **331786** Seq No: **11071613**
Analysis Date / Time: **Mar 2 2022 1:41PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	0.9146	0.014	0.10	1.000		91.5	61.2	118				
2,4,5-Trichlorophenol	0.9383	0.0099	0.10	1.000		93.8	55.2	128				
2,4,6-Trichlorophenol	0.9778	0.013	0.10	1.000		97.8	61.9	131				
2,4-Dinitrotoluene	0.9157	0.011	0.10	1.000		91.6	56.1	133				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2202V46

ANALYTICAL QC SUMMARY REPORT

BatchID: 331786

Sample ID: **LCS-331786** Client ID:
SampleType: **LCS** TestCode: **SEMIVOLATILES ORGANICS, TCLP SW1311/8270E**
Units: **mg/L** Prep Date: **03/02/2022** Run No: **478946**
BatchID: **331786** Seq No: **11071613**
Analysis Date / Time: **Mar 2 2022 1:41PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cresols, Total	2.629	0.018	0.10	3.000		87.6	68.9	133				
Hexachlorobenzene	0.9893	0.011	0.10	1.000		98.9	71	135				
Hexachlorobutadiene	0.9196	0.012	0.10	1.000		92.0	66.9	137				
Hexachloroethane	0.8640	0.013	0.10	1.000		86.4	61.7	129				
m,p-Cresol	1.720	0.011	0.10	2.000		86.0	60.6	116				
Nitrobenzene	0.9668	0.012	0.10	1.000		96.7	59.5	128				
o-Cresol	0.9087	0.0074	0.10	1.000		90.9	65.2	120				
Pentachlorophenol	0.7934	0.0062	0.50	1.000		79.3	51.9	137				
Pyridine	0.5595	0.022	0.10	1.000		56.0	13.4	120				
Surr: 2,4,6-Tribromophenol	0.8700	0	0	1.000		87.0	57.8	139				
Surr: 2-Fluorobiphenyl	0.4638	0	0	0.5000		92.8	48.5	119				
Surr: 2-Fluorophenol	0.8148	0	0	1.000		81.5	42.9	120				
Surr: 4-Terphenyl-d14	0.5385	0	0	0.5000		108	53.9	130				
Surr: Nitrobenzene-d5	0.4779	0	0	0.5000		95.6	51	125				
Surr: Phenol-d5	0.7996	0	0	1.000		80.0	43.3	120				

Sample ID: **2202W70-001BMS** Client ID:
SampleType: **MS** TestCode: **SEMIVOLATILES ORGANICS, TCLP SW1311/8270E**
Units: **mg/L** Prep Date: **03/02/2022** Run No: **478946**
BatchID: **331786** Seq No: **11072277**
Analysis Date / Time: **Mar 2 2022 2:59PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	0.9162	0.014	0.10	1.000		91.6	48.7	116				
2,4,5-Trichlorophenol	0.7690	0.0099	0.10	1.000		76.9	53.6	121				
2,4,6-Trichlorophenol	0.7947	0.013	0.10	1.000		79.5	49.3	130				
2,4-Dinitrotoluene	0.8584	0.011	0.10	1.000		85.8	52.2	130				
Cresols, Total	2.296	0.018	0.10	3.000		76.5	48	116				
Hexachlorobenzene	0.9421	0.011	0.10	1.000		94.2	53	139				
Hexachlorobutadiene	0.9342	0.012	0.10	1.000		93.4	50.9	136				
Hexachloroethane	0.8961	0.013	0.10	1.000		89.6	46.4	128				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2202V46

ANALYTICAL QC SUMMARY REPORT

BatchID: 331786

Sample ID: **2202W70-001BMS** Client ID:
SampleType: **MS** TestCode: **SEMIVOLATILES ORGANICS, TCLP SW1311/8270E**
Units: **mg/L** Prep Date: **03/02/2022** Run No: **478946**
BatchID: **331786** Seq No: **11072277**
Analysis Date / Time: **Mar 2 2022 2:59PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
m,p-Cresol	1.483	0.011	0.10	2.000		74.1	46.2	117				
Nitrobenzene	0.9785	0.012	0.10	1.000		97.8	53.1	124				
o-Cresol	0.8131	0.0074	0.10	1.000		81.3	47	120				
Pentachlorophenol	0.5874	0.0062	0.50	1.000		58.7	41.4	135				
Pyridine	0.8639	0.022	0.10	1.000		86.4	10	120				
Surr: 2,4,6-Tribromophenol	0.6912	0	0	1.000		69.1	57.8	139				
Surr: 2-Fluorobiphenyl	0.4667	0	0	0.5000		93.3	48.5	119				
Surr: 2-Fluorophenol	0.6696	0	0	1.000		67.0	42.9	120				
Surr: 4-Terphenyl-d14	0.4780	0	0	0.5000		95.6	53.9	130				
Surr: Nitrobenzene-d5	0.4631	0	0	0.5000		92.6	51	125				
Surr: Phenol-d5	0.6296	0	0	1.000		63.0	43.3	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2202V46

ANALYTICAL QC SUMMARY REPORT

BatchID: 331888

Sample ID: **MB-331888** Client ID:
SampleType: **MBLK** TestCode: **VOLATILES, TCLP SW1311/8260D**
Units: **mg/L** Prep Date: **03/02/2022** Run No: **479013**
BatchID: **331888** Seq No: **11072512**
Analysis Date / Time: **Mar 2 2022 2:46PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	BRL	0.0064	0.10									
1,2-Dichloroethane	BRL	0.0038	0.10									
2-Butanone	BRL	0.10	0.20									
Benzene	BRL	0.0048	0.10									
Carbon tetrachloride	BRL	0.0055	0.10									
Chlorobenzene	BRL	0.0094	0.10									
Chloroform	BRL	0.0046	0.10									
Tetrachloroethene	BRL	0.0059	0.10									
Trichloroethene	BRL	0.0042	0.10									
Vinyl chloride	BRL	0.0088	0.040									
Surr: 4-Bromofluorobenzene	0.9624	0	0	1.000		96.2	74.6	120				
Surr: Dibromofluoromethane	1.030	0	0	1.000		103	78.2	120				
Surr: Toluene-d8	0.8690	0	0	1.000		86.9	83.1	120				

Sample ID: **LCS-331888** Client ID:
SampleType: **LCS** TestCode: **VOLATILES, TCLP SW1311/8260D**
Units: **mg/L** Prep Date: **03/02/2022** Run No: **479013**
BatchID: **331888** Seq No: **11072637**
Analysis Date / Time: **Mar 2 2022 4:53PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.9238	0.0064	0.10	1.000		92.4	60.1	140				
1,2-Dichloroethane	0.8248	0.0038	0.10	1.000		82.5	65.4	136				
2-Butanone	1.446	0.10	0.20	2.000		72.3	54	137				
Benzene	0.9736	0.0048	0.10	1.000		97.4	73.7	130				
Carbon tetrachloride	1.137	0.0055	0.10	1.000		114	65.9	137				
Chlorobenzene	0.9632	0.0094	0.10	1.000		96.3	80.7	126				
Chloroform	0.8568	0.0046	0.10	1.000		85.7	63.2	134				
Tetrachloroethene	1.025	0.0059	0.10	1.000		102	75	136				
Trichloroethene	0.9896	0.0042	0.10	1.000		99.0	75.4	132				
Vinyl chloride	0.9312	0.0088	0.040	1.000		93.1	55.2	138				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2202V46

ANALYTICAL QC SUMMARY REPORT

BatchID: 331888

Sample ID: **LCS-331888** Client ID:
SampleType: **LCS** TestCode: **VOLATILES, TCLP SW1311/8260D**
Units: **mg/L** Prep Date: **03/02/2022** Run No: **479013**
BatchID: **331888** Seq No: **11072637**
Analysis Date / Time: **Mar 2 2022 4:53PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	1.023	0	0	1.000		102	74.6	120				
Surr: Dibromofluoromethane	1.041	0	0	1.000		104	78.2	120				
Surr: Toluene-d8	0.9476	0	0	1.000		94.8	83.1	120				

Sample ID: **2202W70-001AMS** Client ID:
SampleType: **MS** TestCode: **VOLATILES, TCLP SW1311/8260D**
Units: **mg/L** Prep Date: **03/02/2022** Run No: **479013**
BatchID: **331888** Seq No: **11073603**
Analysis Date / Time: **Mar 2 2022 9:04PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.8358	0.0064	0.10	1.000		83.6	62	136				
1,2-Dichloroethane	0.8244	0.0038	0.10	1.000		82.4	65.3	136				
2-Butanone	1.868	0.10	0.20	2.000		93.4	61.5	139				
Benzene	0.9016	0.0048	0.10	1.000		90.2	71	135				
Carbon tetrachloride	0.9802	0.0055	0.10	1.000		98.0	64.7	137				
Chlorobenzene	0.9278	0.0094	0.10	1.000		92.8	75.8	130				
Chloroform	0.8198	0.0046	0.10	1.000		82.0	61.5	135				
Tetrachloroethene	0.9622	0.0059	0.10	1.000		96.2	72.6	137				
Trichloroethene	0.9254	0.0042	0.10	1.000		92.5	70.9	138				
Vinyl chloride	0.8908	0.0088	0.040	1.000		89.1	61.7	135				
Surr: 4-Bromofluorobenzene	0.9872	0	0	1.000		98.7	74.6	120				
Surr: Dibromofluoromethane	0.9666	0	0	1.000		96.7	78.2	120				
Surr: Toluene-d8	0.9592	0	0	1.000		95.9	83.1	120				

Sample ID: **2202V22-001ADUP** Client ID:
SampleType: **DUP** TestCode: **VOLATILES, TCLP SW1311/8260D**
Units: **mg/L** Prep Date: **03/02/2022** Run No: **479013**
BatchID: **331888** Seq No: **11073600**
Analysis Date / Time: **Mar 2 2022 6:59PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	BRL	0.0064	0.10						0	0	30	
1,2-Dichloroethane	BRL	0.0038	0.10						0	0	30	
2-Butanone	BRL	0.10	0.20						0	0	30	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2202V46

ANALYTICAL QC SUMMARY REPORT

BatchID: 331888

Sample ID: **2202V22-001ADUP** Client ID: Units: **mg/L** Prep Date: **03/02/2022** Run No: **479013**
SampleType: **DUP** TestCode: **VOLATILES, TCLP SW1311/8260D** BatchID: **331888** Seq No: **11073600**
Analysis Date / Time: **Mar 2 2022 6:59PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	0.0048	0.10						0	0	30	
Carbon tetrachloride	BRL	0.0055	0.10						0	0	30	
Chlorobenzene	BRL	0.0094	0.10						0	0	30	
Chloroform	BRL	0.0046	0.10						0	0	30	
Tetrachloroethene	BRL	0.0059	0.10						0	0	30	
Trichloroethene	BRL	0.0042	0.10						0	0	30	
Vinyl chloride	BRL	0.0088	0.040						0	0	30	
Surr: 4-Bromofluorobenzene	0.9582	0	0	1.000		95.8	74.6	120	0.9492	0	0	
Surr: Dibromofluoromethane	1.035	0	0	1.000		104	78.2	120	0.9954	0	0	
Surr: Toluene-d8	0.8810	0	0	1.000		88.1	83.1	120	0.8552	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2202V46

ANALYTICAL QC SUMMARY REPORT

BatchID: 331921

Sample ID: **MB-331921** Client ID:
SampleType: **MBLK** TestCode: **MERCURY, TCLP SW1311/7470A**
Units: **mg/L** Prep Date: **03/03/2022** Run No: **479123**
BatchID: **331921** Seq No: **11075730**
Analysis Date / Time: **Mar 3 2022 2:39PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.000480	0.00400									

Sample ID: **LCS-331921** Client ID:
SampleType: **LCS** TestCode: **MERCURY, TCLP SW1311/7470A**
Units: **mg/L** Prep Date: **03/03/2022** Run No: **479123**
BatchID: **331921** Seq No: **11075731**
Analysis Date / Time: **Mar 3 2022 2:43PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.03702	0.000480	0.00400	0.0400		92.6	80	120				

Sample ID: **2203033-020AMS** Client ID:
SampleType: **MS** TestCode: **MERCURY, TCLP SW1311/7470A**
Units: **mg/L** Prep Date: **03/03/2022** Run No: **479123**
BatchID: **331921** Seq No: **11075733**
Analysis Date / Time: **Mar 3 2022 2:51PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.03881	0.000480	0.00400	0.0400	0.0004800	95.8	80	120				

Sample ID: **2203033-020AMSD** Client ID:
SampleType: **MSD** TestCode: **MERCURY, TCLP SW1311/7470A**
Units: **mg/L** Prep Date: **03/03/2022** Run No: **479123**
BatchID: **331921** Seq No: **11075734**
Analysis Date / Time: **Mar 3 2022 2:55PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.03904	0.000480	0.00400	0.0400	0.0004800	96.4	80	120	0.03881	0.591	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 16-Mar-22

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2202V46

ANALYTICAL QC SUMMARY REPORT

BatchID: 331933

Sample ID: **MB-331933** Client ID: Units: **mg/L** Prep Date: **03/03/2022** Run No: **479159**
SampleType: **MBLK** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **331933** Seq No: **11076453**
Analysis Date / Time: **Mar 3 2022 3:20PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.0488	0.250									
Barium	BRL	0.0260	0.500									
Cadmium	BRL	0.00580	0.0250									
Chromium	BRL	0.0176	0.0500									
Lead	BRL	0.0223	0.0500									
Selenium	BRL	0.0625	0.150									
Silver	BRL	0.00304	0.0250									

Sample ID: **LCS-331933** Client ID: Units: **mg/L** Prep Date: **03/03/2022** Run No: **479159**
SampleType: **LCS** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **331933** Seq No: **11076454**
Analysis Date / Time: **Mar 3 2022 3:22PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	5.037	0.0488	0.250	5.000		101	80	120				
Barium	5.163	0.0260	0.500	5.000		103	80	120				
Cadmium	5.144	0.00580	0.0250	5.000		103	80	120				
Chromium	5.161	0.0176	0.0500	5.000		103	80	120				
Lead	5.178	0.0223	0.0500	5.000		104	80	120				
Selenium	5.044	0.0625	0.100	5.000		101	80	120				
Silver	0.5112	0.00304	0.0250	0.5000		102	80	120				

Sample ID: **2202M07-006BMS** Client ID: Units: **mg/L** Prep Date: **03/03/2022** Run No: **479159**
SampleType: **MS** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **331933** Seq No: **11076456**
Analysis Date / Time: **Mar 3 2022 3:28PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	5.074	0.0488	0.250	5.000		101	50	150				
Barium	5.011	0.0260	0.500	5.000	0.06720	98.9	50	150				
Cadmium	5.102	0.00580	0.0250	5.000		102	50	150				
Chromium	5.030	0.0176	0.0500	5.000		101	50	150				
Lead	4.969	0.0223	0.0500	5.000		99.4	50	150				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2202V46

ANALYTICAL QC SUMMARY REPORT

BatchID: 331933

Sample ID: **2202M07-006BMS** Client ID:
SampleType: **MS** TestCode: **ICP METALS, TCLP SW1311/6010D**
Units: **mg/L** Prep Date: **03/03/2022** Run No: **479159**
BatchID: **331933** Seq No: **11076456**
Analysis Date / Time: **Mar 3 2022 3:28PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Selenium	5.165	0.0625	0.100	5.000		103	50	150				
Silver	0.5050	0.00304	0.0250	0.5000		101	50	150				

Sample ID: **2202M07-006BMSD** Client ID:
SampleType: **MSD** TestCode: **ICP METALS, TCLP SW1311/6010D**
Units: **mg/L** Prep Date: **03/03/2022** Run No: **479159**
BatchID: **331933** Seq No: **11076457**
Analysis Date / Time: **Mar 3 2022 3:31PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	4.926	0.0488	0.250	5.000		98.5	50	150	5.074	2.96	30	
Barium	4.858	0.0260	0.500	5.000	0.06720	95.8	50	150	5.011	3.09	30	
Cadmium	4.960	0.00580	0.0250	5.000		99.2	50	150	5.102	2.83	30	
Chromium	4.876	0.0176	0.0500	5.000		97.5	50	150	5.030	3.12	30	
Lead	4.812	0.0223	0.0500	5.000		96.2	50	150	4.969	3.22	30	
Selenium	5.056	0.0625	0.100	5.000		101	50	150	5.165	2.13	30	
Silver	0.4910	0.00304	0.0250	0.5000		98.2	50	150	0.5050	2.82	30	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2202V46

ANALYTICAL QC SUMMARY REPORT

BatchID: R479123

Sample ID: **CCB**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **479123**	
SampleType: **CCB**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **R479123**					Seq No: **11075738**	
						Analysis Date / Time: **Mar 3 2022 3:14PM**						
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.0000600	0.000500	0	0	0	0	0	0	0	0	

Sample ID: **CCB**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **479123**	
SampleType: **CCB**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **R479123**					Seq No: **11076055**	
						Analysis Date / Time: **Mar 3 2022 4:01PM**						
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.0000600	0.000500	0	0	0	0	0	0	0	0	

Sample ID: **CCV**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **479123**	
SampleType: **CCV**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **R479123**					Seq No: **11075737**	
						Analysis Date / Time: **Mar 3 2022 3:06PM**						
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.001944	0.0000600	0.000500	0.0020	0	97.2	90	110	0	0	0	

Sample ID: **CCV**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **479123**	
SampleType: **CCV**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **R479123**					Seq No: **11076054**	
						Analysis Date / Time: **Mar 3 2022 3:57PM**						
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.001900	0.0000600	0.000500	0.0020	0	95.0	90	110	0	0	0	

Sample ID: **CRA 0.16**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **479123**	
SampleType: **CRA**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **R479123**					Seq No: **11075729**	
						Analysis Date / Time: **Mar 3 2022 2:35PM**						
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.000177	0.0000600	0.000500	0.0002	0	111	70	130	0	0	0	

Sample ID: **ICB**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **479123**	
SampleType: **ICB**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **R479123**					Seq No: **11075726**	
						Analysis Date / Time: **Mar 3 2022 2:23PM**						
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2202V46

ANALYTICAL QC SUMMARY REPORT

BatchID: R479123

Sample ID: **ICB**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **479123**	
SampleType: **ICB**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **R479123**					Seq No: **11075726**	
						Analysis Date / Time: **Mar 3 2022 2:23PM**						
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.0000600	0.000500	0	0	0	0	0	0	0	0	

Sample ID: **ICV**	Client ID:					Units: **mg/L**	Prep Date:				Run No: **479123**	
SampleType: **ICV**	TestCode: **MERCURY, TCLP SW1311/7470A**					BatchID: **R479123**					Seq No: **11075727**	
						Analysis Date / Time: **Mar 3 2022 2:27PM**						
Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.001971	0.0000600	0.000500	0.0020	0	98.6	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2202V46

ANALYTICAL QC SUMMARY REPORT

BatchID: R479159

Sample ID: **CCB** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **CCB** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11076452**
Analysis Date / Time: **Mar 3 2022 3:05PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00976	0.0500	0	0	0	0	0	0	0	0	
Barium	BRL	0.00521	0.100	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.00116	0.00500	0	0	0	0	0	0	0	0	
Chromium	BRL	0.00351	0.0100	0	0	0	0	0	0	0	0	
Lead	BRL	0.00446	0.0100	0	0	0	0	0	0	0	0	
Selenium	BRL	0.0125	0.0200	0	0	0	0	0	0	0	0	
Silver	BRL	0.000608	0.00500	0	0	0	0	0	0	0	0	

Sample ID: **CCB** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **CCB** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11076460**
Analysis Date / Time: **Mar 3 2022 3:39PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00976	0.0500	0	0	0	0	0	0	0	0	
Barium	BRL	0.00521	0.100	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.00116	0.00500	0	0	0	0	0	0	0	0	
Chromium	BRL	0.00351	0.0100	0	0	0	0	0	0	0	0	
Lead	BRL	0.00446	0.0100	0	0	0	0	0	0	0	0	
Selenium	BRL	0.0125	0.0200	0	0	0	0	0	0	0	0	
Silver	BRL	0.000608	0.00500	0	0	0	0	0	0	0	0	

Sample ID: **CCB** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **CCB** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11076467**
Analysis Date / Time: **Mar 3 2022 4:16PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00976	0.0500	0	0	0	0	0	0	0	0	
Barium	BRL	0.00521	0.100	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.00116	0.00500	0	0	0	0	0	0	0	0	
Chromium	BRL	0.00351	0.0100	0	0	0	0	0	0	0	0	
Lead	BRL	0.00446	0.0100	0	0	0	0	0	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2202V46

ANALYTICAL QC SUMMARY REPORT

BatchID: R479159

Sample ID: **CCB** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **CCB** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11076467**
Analysis Date / Time: **Mar 3 2022 4:16PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Selenium	BRL	0.0125	0.0200	0	0	0	0	0	0	0	0	
Silver	BRL	0.000608	0.00500	0	0	0	0	0	0	0	0	

Sample ID: **CCB** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **CCB** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11078615**
Analysis Date / Time: **Mar 3 2022 7:58PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00976	0.0500	0	0	0	0	0	0	0	0	
Barium	BRL	0.00521	0.100	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.00116	0.00500	0	0	0	0	0	0	0	0	
Chromium	BRL	0.00351	0.0100	0	0	0	0	0	0	0	0	
Lead	BRL	0.00446	0.0100	0	0	0	0	0	0	0	0	
Selenium	BRL	0.0125	0.0200	0	0	0	0	0	0	0	0	
Silver	BRL	0.000608	0.00500	0	0	0	0	0	0	0	0	

Sample ID: **CCB** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **CCB** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11078628**
Analysis Date / Time: **Mar 3 2022 8:32PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00976	0.0500	0	0	0	0	0	0	0	0	
Barium	BRL	0.00521	0.100	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.00116	0.00500	0	0	0	0	0	0	0	0	
Chromium	BRL	0.00351	0.0100	0	0	0	0	0	0	0	0	
Lead	BRL	0.00446	0.0100	0	0	0	0	0	0	0	0	
Selenium	BRL	0.0125	0.0200	0	0	0	0	0	0	0	0	
Silver	BRL	0.000608	0.00500	0	0	0	0	0	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2202V46

ANALYTICAL QC SUMMARY REPORT

BatchID: R479159

Sample ID: **CCB** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **CCB** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11078632**
Analysis Date / Time: **Mar 3 2022 9:06PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00976	0.0500	0	0	0	0	0	0	0	0	
Barium	BRL	0.00521	0.100	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.00116	0.00500	0	0	0	0	0	0	0	0	
Chromium	BRL	0.00351	0.0100	0	0	0	0	0	0	0	0	
Lead	BRL	0.00446	0.0100	0	0	0	0	0	0	0	0	
Selenium	BRL	0.0125	0.0200	0	0	0	0	0	0	0	0	
Silver	BRL	0.000608	0.00500	0	0	0	0	0	0	0	0	

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **CCV** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11076451**
Analysis Date / Time: **Mar 3 2022 3:03PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.001	0.00976	0.0500	1.000	0	100	90	110	0	0	0	
Barium	1.020	0.00521	0.100	1.000	0	102	90	110	0	0	0	
Cadmium	1.015	0.00116	0.00500	1.000	0	102	90	110	0	0	0	
Chromium	1.026	0.00351	0.0100	1.000	0	103	90	110	0	0	0	
Lead	1.026	0.00446	0.0100	1.000	0	103	90	110	0	0	0	
Selenium	0.9987	0.0125	0.0200	1.000	0	99.9	90	110	0	0	0	
Silver	0.1010	0.000608	0.00500	0.1000	0	101	90	110	0	0	0	

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **CCV** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11076459**
Analysis Date / Time: **Mar 3 2022 3:37PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9907	0.00976	0.0500	1.000	0	99.1	90	110	0	0	0	
Barium	1.005	0.00521	0.100	1.000	0	100	90	110	0	0	0	
Cadmium	1.000	0.00116	0.00500	1.000	0	100	90	110	0	0	0	
Chromium	1.010	0.00351	0.0100	1.000	0	101	90	110	0	0	0	
Lead	1.010	0.00446	0.0100	1.000	0	101	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2202V46

ANALYTICAL QC SUMMARY REPORT

BatchID: R479159

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **CCV** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11076459**
Analysis Date / Time: **Mar 3 2022 3:37PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Selenium	0.9914	0.0125	0.0200	1.000	0	99.1	90	110	0	0	0	
Silver	0.09940	0.000608	0.00500	0.1000	0	99.4	90	110	0	0	0	

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **CCV** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11076466**
Analysis Date / Time: **Mar 3 2022 4:13PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9951	0.00976	0.0500	1.000	0	99.5	90	110	0	0	0	
Barium	1.014	0.00521	0.100	1.000	0	101	90	110	0	0	0	
Cadmium	1.010	0.00116	0.00500	1.000	0	101	90	110	0	0	0	
Chromium	1.021	0.00351	0.0100	1.000	0	102	90	110	0	0	0	
Lead	1.021	0.00446	0.0100	1.000	0	102	90	110	0	0	0	
Selenium	0.9969	0.0125	0.0200	1.000	0	99.7	90	110	0	0	0	
Silver	0.1005	0.000608	0.00500	0.1000	0	100	90	110	0	0	0	

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **CCV** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11078613**
Analysis Date / Time: **Mar 3 2022 7:55PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9455	0.00976	0.0500	1.000	0	94.5	90	110	0	0	0	
Barium	0.9717	0.00521	0.100	1.000	0	97.2	90	110	0	0	0	
Cadmium	0.9624	0.00116	0.00500	1.000	0	96.2	90	110	0	0	0	
Chromium	0.9665	0.00351	0.0100	1.000	0	96.6	90	110	0	0	0	
Lead	0.9752	0.00446	0.0100	1.000	0	97.5	90	110	0	0	0	
Selenium	0.9602	0.0125	0.0200	1.000	0	96.0	90	110	0	0	0	
Silver	0.09587	0.000608	0.00500	0.1000	0	95.9	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2202V46

ANALYTICAL QC SUMMARY REPORT

BatchID: R479159

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **CCV** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11078627**
Analysis Date / Time: **Mar 3 2022 8:29PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9969	0.00976	0.0500	1.000	0	99.7	90	110	0	0	0	
Barium	1.011	0.00521	0.100	1.000	0	101	90	110	0	0	0	
Cadmium	0.9991	0.00116	0.00500	1.000	0	99.9	90	110	0	0	0	
Chromium	1.003	0.00351	0.0100	1.000	0	100	90	110	0	0	0	
Lead	1.010	0.00446	0.0100	1.000	0	101	90	110	0	0	0	
Selenium	1.011	0.0125	0.0200	1.000	0	101	90	110	0	0	0	
Silver	0.09978	0.000608	0.00500	0.1000	0	99.8	90	110	0	0	0	

Sample ID: **CCV** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **CCV** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11078631**
Analysis Date / Time: **Mar 3 2022 9:04PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9674	0.00976	0.0500	1.000	0	96.7	90	110	0	0	0	
Barium	0.9828	0.00521	0.100	1.000	0	98.3	90	110	0	0	0	
Cadmium	0.9635	0.00116	0.00500	1.000	0	96.3	90	110	0	0	0	
Chromium	0.9584	0.00351	0.0100	1.000	0	95.8	90	110	0	0	0	
Lead	0.9811	0.00446	0.0100	1.000	0	98.1	90	110	0	0	0	
Selenium	0.9830	0.0125	0.0200	1.000	0	98.3	90	110	0	0	0	
Silver	0.09730	0.000608	0.00500	0.1000	0	97.3	90	110	0	0	0	

Sample ID: **CRI** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **CRI** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11076440**
Analysis Date / Time: **Mar 3 2022 11:48AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.04933	0.00976	0.0500	0.0500	0	98.7	70	130	0	0	0	
Barium	0.01079	0.00521	0.100	0.0100	0	108	70	130	0	0	0	
Cadmium	0.005110	0.00116	0.00500	0.0050	0	102	70	130	0	0	0	
Chromium	0.009930	0.00351	0.0100	0.0100	0	99.3	70	130	0	0	0	
Lead	0.009210	0.00446	0.0100	0.0100	0	92.1	70	130	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2202V46

ANALYTICAL QC SUMMARY REPORT

BatchID: R479159

Sample ID: **CRI** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **CRI** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11076440**
Analysis Date / Time: **Mar 3 2022 11:48AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Selenium	0.02175	0.0125	0.0200	0.0200	0	109	70	130	0	0	0	
Silver	0.004100	0.000608	0.00500	0.0050	0	82.0	70	130	0	0	0	

Sample ID: **CRI-MIDLEVEL** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **CCV** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11076446**
Analysis Date / Time: **Mar 3 2022 12:21PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9902	0.00976	0.0500	1.000	0	99.0	90	110	0	0	0	
Barium	0.9996	0.00521	0.100	1.000	0	100.0	90	110	0	0	0	
Cadmium	0.9959	0.00116	0.00500	1.000	0	99.6	90	110	0	0	0	
Chromium	1.007	0.00351	0.0100	1.000	0	101	90	110	0	0	0	
Lead	1.007	0.00446	0.0100	1.000	0	101	90	110	0	0	0	
Selenium	0.9893	0.0125	0.0200	1.000	0	98.9	90	110	0	0	0	
Silver	0.09940	0.000608	0.00500	0.1000	0	99.4	90	110	0	0	0	

Sample ID: **ICB** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **ICB** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11076439**
Analysis Date / Time: **Mar 3 2022 11:45AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00976	0.0500	0	0	0	0	0	0	0	0	
Barium	BRL	0.00521	0.100	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.00116	0.00500	0	0	0	0	0	0	0	0	
Chromium	BRL	0.00351	0.0100	0	0	0	0	0	0	0	0	
Lead	BRL	0.00446	0.0100	0	0	0	0	0	0	0	0	
Selenium	BRL	0.0125	0.0200	0	0	0	0	0	0	0	0	
Silver	BRL	0.000608	0.00500	0	0	0	0	0	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2202V46

ANALYTICAL QC SUMMARY REPORT

BatchID: R479159

Sample ID: **ICSA** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **ICSA** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11076441**
Analysis Date / Time: **Mar 3 2022 11:55AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00976	0.0500	0	0	0	80	120	0	0	0	
Barium	BRL	0.00521	0.100	0	0	0	80	120	0	0	0	
Cadmium	BRL	0.00116	0.00500	0	0	0	80	120	0	0	0	
Chromium	BRL	0.00351	0.0100	0	0	0	80	120	0	0	0	
Lead	BRL	0.00446	0.0100	0	0	0	80	120	0	0	0	
Selenium	BRL	0.0125	0.0200	0	0	0	80	120	0	0	0	
Silver	BRL	0.000608	0.00500	0	0	0	80	120	0	0	0	

Sample ID: **ICSAB** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **ICSAB** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11076442**
Analysis Date / Time: **Mar 3 2022 11:58AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.5129	0.00976	0.0500	0.5000	0	103	80	120	0	0	0	
Barium	0.5306	0.00521	0.100	0.5000	0	106	80	120	0	0	0	
Cadmium	0.5526	0.00116	0.00500	0.5000	0	111	80	120	0	0	0	
Chromium	0.5283	0.00351	0.0100	0.5000	0	106	80	120	0	0	0	
Lead	0.5108	0.00446	0.0100	0.5000	0	102	80	120	0	0	0	
Selenium	0.5214	0.0125	0.0200	0.5000	0	104	80	120	0	0	0	
Silver	0.05596	0.000608	0.00500	0.0500	0	112	80	120	0	0	0	

Sample ID: **ICV** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **ICV** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11076438**
Analysis Date / Time: **Mar 3 2022 11:39AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.4879	0.00976	0.0500	0.5000	0	97.6	90	110	0	0	0	
Barium	0.4946	0.00521	0.100	0.5000	0	98.9	90	110	0	0	0	
Cadmium	0.4914	0.00116	0.00500	0.5000	0	98.3	90	110	0	0	0	
Chromium	0.4950	0.00351	0.0100	0.5000	0	99.0	90	110	0	0	0	
Lead	0.4947	0.00446	0.0100	0.5000	0	98.9	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2202V46

ANALYTICAL QC SUMMARY REPORT

BatchID: R479159

Sample ID: **ICV** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **ICV** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11076438**
Analysis Date / Time: **Mar 3 2022 11:39AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Selenium	0.5002	0.0125	0.0200	0.5000	0	100	90	110	0	0	0	
Silver	0.04952	0.000608	0.00500	0.0500	0	99.0	90	110	0	0	0	

Sample ID: **LCR 1** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **CCV** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11076447**
Analysis Date / Time: **Mar 3 2022 12:27PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	20.73	0.00976	0.0500	20.00	0	104	90	110	0	0	0	
Barium	20.09	0.00521	0.100	20.00	0	100	90	110	0	0	0	
Cadmium	20.60	0.00116	0.00500	20.00	0	103	90	110	0	0	0	
Chromium	20.10	0.00351	0.0100	20.00	0	100	90	110	0	0	0	
Selenium	20.59	0.0125	0.0200	20.00	0	103	90	110	0	0	0	

Sample ID: **LCR-Pb-Inhouse** Client ID: Units: **mg/L** Prep Date: Run No: **479159**
SampleType: **CCV** TestCode: **ICP METALS, TCLP SW1311/6010D** BatchID: **R479159** Seq No: **11076450**
Analysis Date / Time: **Mar 3 2022 12:35PM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	201.3	0.00446	0.0100	200.0	0	101	90	110	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Lakes Parkway Lithium Battery Fire
Workorder: 2202V46

ANALYTICAL QC SUMMARY REPORT

BatchID: R479161

Sample ID: **BNA60** Client ID: Units: **mg/L** Prep Date: Run No: **479161**
SampleType: **CCV** TestCode: **SEMIVOLATILES ORGANICS, TCLP SW1311/8270E** BatchID: **R479161** Seq No: **11076057**
Analysis Date / Time: **Mar 3 2022 8:57AM**

Analyte	Result	MDL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	0.06035	0.0014	0.010	0.0600	0	101	80	120	0	0	0	
2,4,5-Trichlorophenol	0.06228	0.00099	0.010	0.0600	0	104	80	120	0	0	0	
2,4,6-Trichlorophenol	0.06068	0.0013	0.010	0.0600	0	101	80	120	0	0	0	
2,4-Dinitrotoluene	0.06410	0.0011	0.010	0.0600	0	107	80	120	0	0	0	
Cresols, Total	0.1790	0.0018	0.010	0.1800	0	99.5	80	120	0	0	0	
Hexachlorobenzene	0.05982	0.0011	0.010	0.0600	0	99.7	80	120	0	0	0	
Hexachlorobutadiene	0.06006	0.0012	0.010	0.0600	0	100	80	120	0	0	0	
Hexachloroethane	0.05990	0.0013	0.010	0.0600	0	99.8	80	120	0	0	0	
m,p-Cresol	0.1182	0.0011	0.010	0.1200	0	98.5	80	120	0	0	0	
Nitrobenzene	0.06047	0.0012	0.010	0.0600	0	101	80	120	0	0	0	
o-Cresol	0.06081	0.00074	0.010	0.0600	0	101	80	120	0	0	0	
Pentachlorophenol	0.05493	0.00062	0.050	0.0600	0	91.6	80	120	0	0	0	
Pyridine	0.06018	0.0022	0.010	0.0600	0	100	80	120	0	0	0	
Surr: 2,4,6-Tribromophenol	0.05993	0	0	0.0600	0	99.9	80	120	0	0	0	
Surr: 2-Fluorobiphenyl	0.06048	0	0	0.0600	0	101	80	120	0	0	0	
Surr: 2-Fluorophenol	0.05935	0	0	0.0600	0	98.9	80	120	0	0	0	
Surr: 4-Terphenyl-d14	0.06265	0	0	0.0600	0	104	80	120	0	0	0	
Surr: Nitrobenzene-d5	0.06050	0	0	0.0600	0	101	80	120	0	0	0	
Surr: Phenol-d5	0.06104	0	0	0.0600	0	102	80	120	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

End of Report

Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **3/3/2022 10:58:00 A**
Prep End Date: **3/4/2022 10:57:00 A**

Prep Batch **331921** Prep Code: **7470A_W_P** Technician: **Galina Ruth**

Prep Factor Units: **mL / mL**

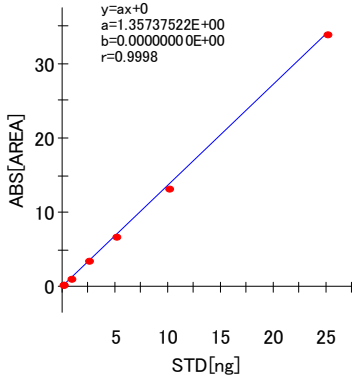
Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2202M07-006B	Leachate		0.5	0	0	5	10.000	3/3/2022	3/4/2022
2202U65-001B	Leachate		0.5	0	0	5	10.000	3/3/2022	3/4/2022
2202U66-001B	Leachate		0.1	0	0	5	50.000	3/3/2022	3/4/2022
2202U67-001A	Leachate		0.1	0	0	5	50.000	3/3/2022	3/4/2022
2202U68-001A	Leachate		0.1	0	0	5	50.000	3/3/2022	3/4/2022
2202U69-001A	Leachate		0.1	0	0	5	50.000	3/3/2022	3/4/2022
2202V46-001B	Leachate		0.5	0	0	5	10.000	3/3/2022	3/4/2022
2202W76-001A	Leachate		0.5	0	0	5	10.000	3/3/2022	3/4/2022
2203033-020A	Leachate		0.5	0	0	5	10.000	3/3/2022	3/4/2022
2203033-020AMS	Leachate		0.5	0	0	5	10.000	3/3/2022	3/4/2022
2203033-020AMSD	Leachate		0.5	0	0	5	10.000	3/3/2022	3/4/2022
LCS-331921			0.5	0	0	5	10.000	3/3/2022	3/4/2022
MB-331921			0.5	0	0	5	10.000	3/3/2022	3/4/2022

Title : 245.1/7470 BY RA-4500
Date : 3/3/2022
Name : GR
Memo : samples loaded byGR and checked by NM

Method

SemiAutoDigest(Pretreatment:with)
Waiting time : 0min
Color check1 try num : Disable
Heating temp : 95degC
Heating time : 120min
Cooling time : 45min
Color check2 : Enable
0.8% HONH3Cl : 3.0mL
10w/v% SnCl2 : 0.3mL
Measurement Time(sec) : 120sec

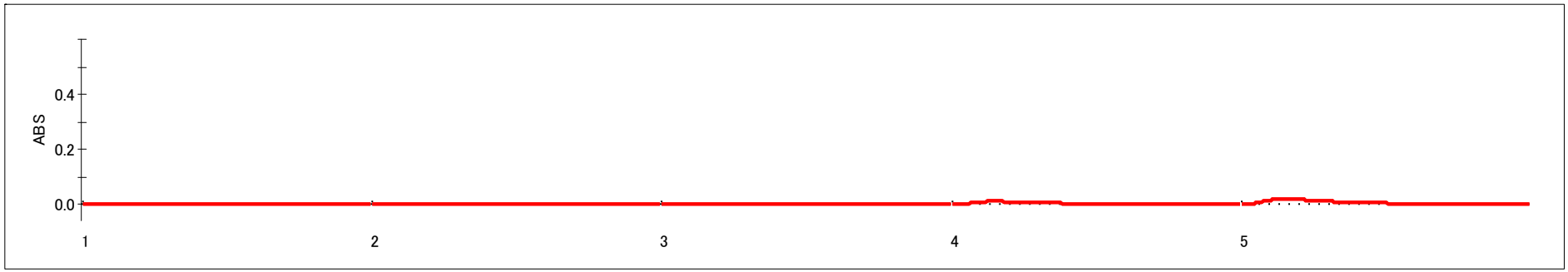
Calib

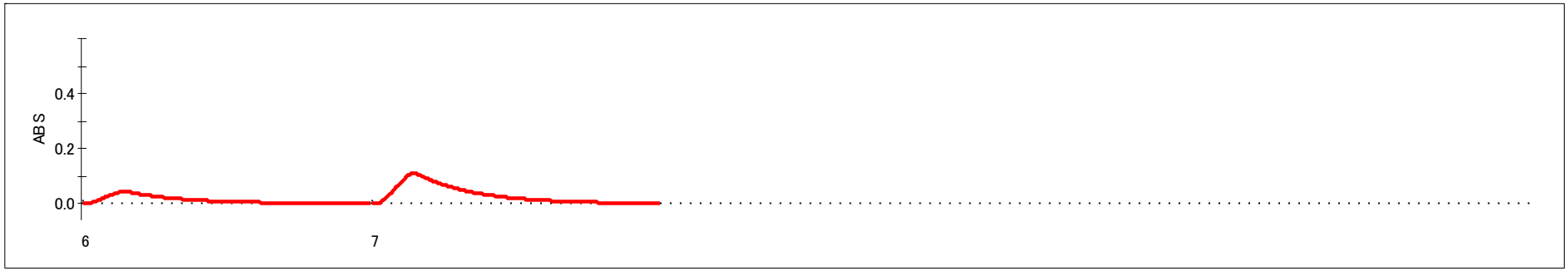


STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	Color [2]	TIME M.START	TIME M.END	Note
1	0.000	5.000	5.000	5.000	0.000	0.3747	0.2760	-	OK	13:54	13:56	
2	0.000	5.000	5.000	5.000	0.000	0.3663	0.2699	-	OK	13:57	13:59	
3	0.160	5.000	5.000	5.000	0.800	1.0456	0.7703	3.7	OK	14:01	14:03	
4	0.500	5.000	5.000	5.000	2.500	3.4789	2.5630	2.5	OK	14:05	14:07	
5	1.000	5.000	5.000	5.000	5.000	6.7793	4.9944	0.1	OK	14:09	14:11	
6	2.000	5.000	5.000	5.000	10.000	13.2471	9.7594	2.4	OK	14:13	14:15	
7	5.000	5.000	5.000	5.000	25.000	34.0593	25.0920	0.4	OK	14:17	14:19	

NIPPON INSTRUMENTS CORPORATION





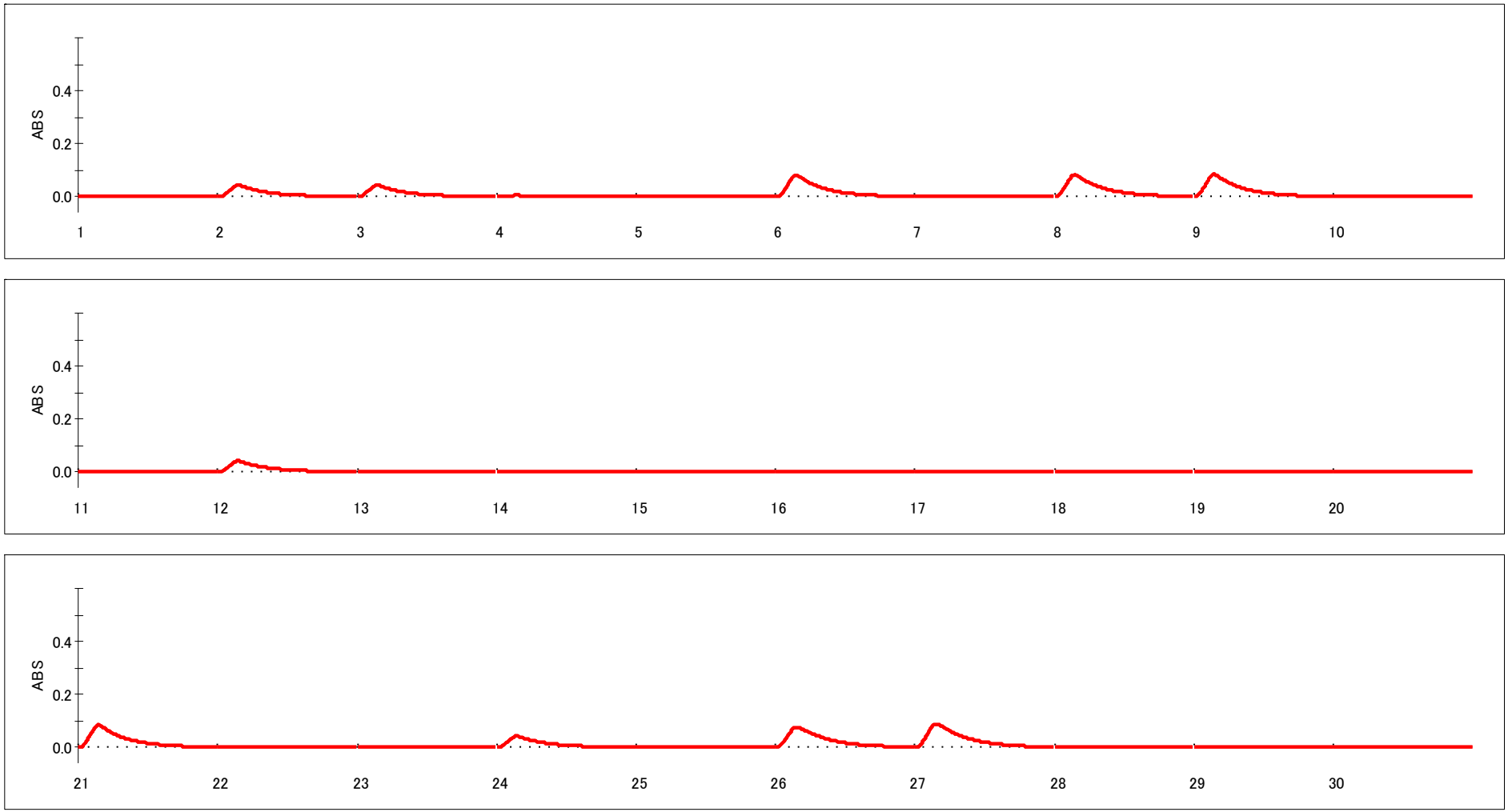
SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Color	TIME		Note
								[2]	M.START	M.END	
1	ICB	5.000	5.000	5.000	0.3455	0.2545	0.051	OK	14:21	14:23	
2	ICV	5.000	5.000	5.000	13.3779	9.8557	1.971	OK	14:25	14:27	
3	IPC 2.0	5.000	5.000	5.000	13.0803	9.6365	1.927	OK	14:29	14:31	
4	CRA 0.16	5.000	5.000	5.000	1.2036	0.8867	0.177	OK	14:33	14:35	
5	MB-331921	5.000	5.000	5.000	0.2623	0.1932	0.039	OK	14:37	14:39	
6	LCS-331921	5.000	5.000	5.000	25.1224	18.5081	3.702	OK	14:41	14:43	
7	2203033-020A	5.000	5.000	5.000	0.3255	0.2398	0.048	OK	14:45	14:47	
8	2203033-020AMS	5.000	5.000	5.000	26.3413	19.4061	3.881	OK	14:49	14:51	
9	2203033-020AMSD	5.000	5.000	5.000	26.4983	19.5217	3.904	OK	14:53	14:55	
10	2202M07-006B	5.000	5.000	5.000	0.2676	0.1971	0.039	OK	14:56	14:59	
11	2202U65-001B	5.000	5.000	5.000	0.2483	0.1829	0.037	OK	15:00	15:02	
12	CCV	5.000	5.000	5.000	13.1939	9.7202	1.944	OK	15:04	15:06	

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Color	TIME		Note
								[2]	M.START	M.END	
13	CCB	5.000	5.000	5.000	0.2849	0.2099	0.042	OK	15:12	15:14	
14	2202U66-001B/5X	5.000	5.000	5.000	0.2745	0.2022	0.040	OK	15:16	15:18	
15	2202U67-001A/5X	5.000	5.000	5.000	0.4975	0.3665	0.073	OK	15:20	15:22	
16	2202U68-001A/5X	5.000	5.000	5.000	0.5608	0.4132	0.083	OK	15:24	15:26	
17	2202U69-001A/5X	5.000	5.000	5.000	0.4651	0.3426	0.069	OK	15:28	15:30	
18	2202V46-001B	5.000	5.000	5.000	0.2244	0.1653	0.033	OK	15:32	15:34	
19	2202W76-001A	5.000	5.000	5.000	0.2378	0.1752	0.035	OK	15:36	15:38	
20	MB-331928	5.000	5.000	5.000	0.2284	0.1683	0.034	OK	15:40	15:42	
21	LCS-331928	5.000	5.000	5.000	26.4565	19.4909	3.898	OK	15:44	15:46	
22	2202W74-011C	5.000	5.000	5.000	0.2144	0.1580	0.032	OK	15:48	15:50	
23	2202W74-005C	5.000	5.000	5.000	0.2358	0.1737	0.035	OK	15:51	15:53	
24	CCV	5.000	5.000	5.000	12.8938	9.4991	1.900	OK	15:55	15:57	
25	CCB	5.000	5.000	5.000	0.2163	0.1594	0.032	OK	15:59	16:01	
26	2202W74-005CMS	5.000	5.000	5.000	26.5515	19.5609	3.912	OK	16:03	16:05	
27	2202W74-005CMSD	5.000	5.000	5.000	30.5732	22.5238	4.505	OK	16:07	16:09	
28	2202W74-013C	5.000	5.000	5.000	0.2781	0.2049	0.041	OK	16:11	16:13	
29	2202W74-015C	5.000	5.000	5.000	0.2068	0.1524	0.030	OK	16:15	16:17	
30	2203106-001C/10X	5.000	5.000	5.000	0.6288	0.4632	0.093	OK	16:19	16:21	

Statistics

No.	NAME	TRY	AV [ug/L]	SD [ug/L]	Cv [%]
1	CCV	2	1.9220	0.031113	1.62
2	CCB	2	0.0370	0.007071	19.11



Self Check

Heat check:PASS!! (19.9degC[05:00] -> 23.9degC[03:19])
Sensor check:PASS!! (474-   0= 474)
Leak check:PASS!! (0.18L/min)
Sig/Ref check:PASS!! (Sig:3.50V, Ref:3.50V)
Drift check:PASS!! (-0.0009628 - -0.0014498 = 0.0004870)

Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **3/2/2022 5:00:00 P**
Prep End Date: **3/3/2022 9:05:00 A**

Prep Batch **331856** Prep Code: **1311_BOTTLE** Technician: **Jasmyn Brown**

Prep Factor Units: **mL / g**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2202L57-026A	Soil		100	0	0	2000	20.000	3/2/2022	3/3/2022
2202M07-006B	Soil		100	0	0	2000	20.000	3/2/2022	3/3/2022
2202U65-001B	Surface Water		100	0	0	2000	20.000	3/2/2022	3/3/2022
2202U66-001B	Waste		100	0	0	2000	20.000	3/2/2022	3/3/2022
FILTER									
2202U67-001A	Waste		100	0	0	2000	20.000	3/2/2022	3/3/2022
FILTER									
2202U68-001A	Waste		100	0	0	2000	20.000	3/2/2022	3/3/2022
FILTER									
2202U69-001A	Waste		100	0	0	2000	20.000	3/2/2022	3/3/2022
FILTER									
2202V46-001B	Soil		100	0	0	2000	20.000	3/2/2022	3/3/2022
2202W76-001A	Solid		100	0	0	2000	20.000	3/2/2022	3/3/2022
2203010-001A	Solid		100	0	0	2000	20.000	3/2/2022	3/3/2022
2203028-001A	Solid		100	0	0	2000	20.000	3/2/2022	3/3/2022
2203033-019A	Solid		100	0	0	2000	20.000	3/2/2022	3/3/2022
2203033-019ADUP	Solid		100	0	0	2000	20.000	3/2/2022	3/3/2022
2203033-020A	Solid		100	0	0	2000	20.000	3/2/2022	3/3/2022
2203067-001A	Soil		100	0	0	2000	20.000	3/2/2022	3/3/2022
2203068-001A	Soil		100	0	0	2000	20.000	3/2/2022	3/3/2022
2203069-001A	Soil		100	0	0	2000	20.000	3/2/2022	3/3/2022
MB-331856			100	0	0	2000	20.000	3/2/2022	3/3/2022

AES,Inc.
3080 Presidential Parkway
Atlanta, GA 30340

TCLP NON-VOLATILE PREPARATION

EPA 1311 (AES SOP LP-14001)

Document ID: MET-1025

Batch ID: 331856
Analyst: JB JB 3/2/22
Date / Time Start: 3/2/22 ~~5:05~~ 5:00 PM
Date / Time Stop: 3/3/22 9:05 AM
Thermometer ID: AES # 2387
Balance ID: AES # 2249

Date: 3/2/22
Room Temp: 23 °C (23+/-2°C)
RPM: 31 (30+/-2 RPM)

#	Sample ID	Preliminary Evaluation: Initial Sample Wt. (g)	Initial Filter Wt (g)	Dry Wt Sample+ filter (g)	Sample Dry Wt (g)	% Solid	Initial pH I (<5)	TCLP Extractions: After 1N HCL pH II	Sample Amount (g)	Fluid #1 (mL)	Fluid #2 (mL)	pH Final	Rotator AES #	Comments
MBLK	331856	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2000	N/A	4.92	2612	
MBLK	↓	↓	↓	↓	↓	↓	↓	↓	↓	N/A	↓	N/A	N/A	
1	2203033-019A	↓	↓	↓	↓	↓	8.84	2.96	100	2000	↓	6.98	2612	
2	↓-019ADUP	↓	↓	↓	↓	↓	9.02	2.35	↓	↓	↓	6.96	↓	
3	2202M07-006B	↓	↓	↓	↓	↓	8.72	4.95	↓	↓	↓	6.84	↓	
4	2202U65-001B	↓	↓	↓	↓	↓	6.62	1.90	↓	↓	↓	4.95	↓	
5	2202U66-001B	100	1.37	5.32	1.44	0.07%	N/A	N/A	N/A	N/A	↓	8.55	FILTER	
6	2202U67-001A	↓	1.37	6.47	1.39	0.02%	↓	↓	↓	↓	↓	4.45	↓	
7	2202U68-001A	↓	1.42	6.72	1.42	0.00%	↓	↓	↓	↓	↓	4.26	↓	
8	2202U69-001A	↓	1.38	6.82	1.40	0.02%	↓	↓	↓	↓	↓	4.28	↓	
9	2202V46-001B	N/A	N/A	N/A	N/A	N/A	9.50	1.94	100	2000	↓	5.29	2612	
10	2202W76-001A	↓	↓	↓	↓	↓	8.08	1.68	↓	↓	↓	5.13	↓	
11	2203010-001A	↓	↓	↓	↓	↓	7.73	1.66	↓	↓	↓	5.00	↓	
12	2203028-001A	↓	↓	↓	↓	↓	8.07	2.65	↓	↓	↓	7.58	↓	
13	2203033-020A	↓	↓	↓	↓	↓	8.88	2.16	↓	↓	↓	7.32	↓	
14	2203067-001A	↓	↓	↓	↓	↓	6.70	1.57	↓	↓	↓	5.02	2611	
15	2203068-001A	↓	↓	↓	↓	↓	7.66	1.59	↓	↓	↓	5.00	↓	
16	2203069-001A	↓	↓	↓	↓	↓	7.78	1.59	↓	↓	↓	5.00	↓	
17	2202L57-026A	↓	↓	↓	↓	↓	5.88	1.59	100	2000	N/A	4.96	2611	
18														
19														
20														

pH Meter ID#: 2686
pH Probe ID#: 2537

TCLP Fluid #1 Lot #: MET-952-98 pH: 4.95
TCLP Fluid #2 Lot #: N/A pH: N/A
1N HCl Lot #: MET-952-96

	AES#	Temp	pH reading	Acceptance	mV
pH 4.0	25548	21.2	4.006	3.95 - 4.05	131.1
pH 7.0	79428	21.2	7.009	6.95 - 7.05	-41.2
pH 10.0	29146	21.3	10.050	9.95 - 10.05	-216.8
ICV	30545	21.3	6.906		-35.1

ICV TV: 6.86 ICV AC: ±0.05 Date/Time: 3/2/22 11:14 AM
Slope %: 98.8% pH 7.0 Offset mV: -41.2

Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **3/3/2022 12:00:00 P**
Prep End Date: **3/4/2022 11:59:00 A**

Prep Batch **331933** Prep Code: **3010A** Technician: **Elena Filatova**

Prep Factor Units: **mL / mL**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2202L57-026A	Leachate		10	0	0	50	5.000	3/3/2022	3/4/2022
2202M07-006B	Leachate		10	0	0	50	5.000	3/3/2022	3/4/2022
2202M07-006BDL	Leachate		10	0	0	50	5.000	3/3/2022	3/4/2022
2202M07-006BMS	Leachate		10	0	0	50	5.000	3/3/2022	3/4/2022
2202M07-006BMSD	Leachate		10	0	0	50	5.000	3/3/2022	3/4/2022
2202M07-006BPDS	Leachate		10	0	0	50	5.000	3/3/2022	3/4/2022
2202U65-001B	Leachate		10	0	0	50	5.000	3/3/2022	3/4/2022
2202U66-001B	Leachate		10	0	0	50	5.000	3/3/2022	3/4/2022
2202U67-001A	Leachate		10	0	0	50	5.000	3/3/2022	3/4/2022
2202U68-001A	Leachate		10	0	0	50	5.000	3/3/2022	3/4/2022
2202U69-001A	Leachate		10	0	0	50	5.000	3/3/2022	3/4/2022
2202V46-001B	Leachate		10	0	0	50	5.000	3/3/2022	3/4/2022
2202W76-001A	Leachate		10	0	0	50	5.000	3/3/2022	3/4/2022
2203028-001A	Leachate		10	0	0	50	5.000	3/3/2022	3/4/2022
2203033-019A	Leachate		10	0	0	50	5.000	3/3/2022	3/4/2022
2203033-019ADUP	Leachate		10	0	0	50	5.000	3/3/2022	3/4/2022
2203033-020A	Leachate		10	0	0	50	5.000	3/3/2022	3/4/2022
2203067-001A	Leachate		10	0	0	50	5.000	3/3/2022	3/4/2022
2203068-001A	Leachate		10	0	0	50	5.000	3/3/2022	3/4/2022
2203069-001A	Leachate		10	0	0	50	5.000	3/3/2022	3/4/2022
LCS-331933			10	0	0	50	5.000	3/3/2022	3/4/2022
MB-331933			10	0	0	50	5.000	3/3/2022	3/4/2022

FL#1

220303A.esws

Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D

Samples loaded by Tanyika and checked by Lauryn.

ICAL3=MET-970-040 Exp= 3/22/22
ICAL2=MET-970-034 Exp= 3/22/22
ICV=MET-1021-006 Exp=3/31/23
CRI=MET-970-031 Exp=4/7/22
ICSA=MET-993-015 Exp=9/24/22
ICSAB=MET-999-016 Exp=9/20/22
PDS H2O=MET-970-032 Exp=3/22/22
PDSSoil=MET-970-037 Exp= 3/22/22
CCV=MET-970-034 Exp= 3/22/22
LCR=MET-993-030 Exp=6/03/22
LCR2=MET-993-031 Exp=6/03/22
LCR3=MET-993-032 Exp=6/03/22
LCR Pb+Inhouse=MET-970-039 Exp=3/22/22

Calibration Correlation Coefficient Limit: 0.998

Pump Speed (rpm): 12

Sample introduction: ASX-520

Sample Uptake Time (s): 30

Sample uptake fast pump: On

SVS 1 delay (s): N/A

Rinse time (s): 20

Rinse time fast pump: On

Oxygen Injection Mode: Off

Standard addition: Off

Reagent Blank: Off

QC Active: On

Reslope: Off
Condition Set 1

Element	Wavelength(nm)	Label	Type	Background Correction	Points Per Peak	Calibration Fit
Ag	328.068	Ag	Analyte	Fitted	2	Weighted Linear Through Blank
Al	308.215	Al	Analyte	Fitted	2	Linear
As	193.696	As	Analyte	Fitted	2	Linear Weighted
Ba	413.064	Ba	Analyte	Fitted	2	Linear Through Blank
Be	313.042	Be	Analyte	Fitted	2	Linear Through Blank
Ca	373.690	Ca	Analyte	Fitted	2	Linear Weighted
Cd	228.802	Cd	Analyte	Fitted	2	Linear Through Blank
Co	230.786	Co	Analyte	Fitted	2	Linear Through Blank
Cr	267.716	Cr	Analyte	Fitted	2	Linear Through Blank
Cu	327.395	Cu	Analyte	Fitted	2	Linear Through Blank
Fe	238.204	Fe	Analyte	Fitted	2	Linear Weighted
K	766.491	K	Analyte	Off-Peak Left	2	Weighted Linear Through Blank
Mg	279.800	Mg	Analyte	Fitted	2	Linear Weighted
Mn	257.610	Mn	Analyte	Fitted	2	Linear Through Blank
Mo	204.598	Mo	Analyte	Fitted	2	Weighted Linear Through Blank
Na	589.592	Na	Analyte	Off-Peak Right	2	Linear Weighted
Ni	221.648	Ni	Analyte	Fitted	2	Linear Through Blank
Pb	220.353	Pb	Analyte	Fitted	2	Linear Through Blank
Sb	217.582	Sb	Analyte	Fitted	2	Linear Weighted
Se	196.026	Se	Analyte	Fitted	2	Linear Through Blank
Sn	189.925	Sn	Analyte	Fitted	2	Linear Through Blank
Ti	337.280	Ti	Analyte	Fitted	2	Linear Through Blank
Tl	351.923	Tl	Analyte	Fitted	2	Weighted Linear Through Origin

220303A.esws

Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D

Element	Wavelength(nm)	Label	Type	Background Correction	Points Per Peak	Calibration Fit
V	311.837	V	Analyte	Fitted	2	Linear Through Blank
Zn	206.200	Zn	Analyte	Fitted	2	Linear
B	249.772	B	Analyte	Off-Peak Left+Right	2	Weighted Linear Through Blank
Sr	407.771	Sr	Analyte	Off-Peak Left	2	Weighted Linear Through Origin
S	181.972	S	Analyte	Off-Peak Left+Right	2	Linear Weighted
P	213.618	P	Analyte	Fitted	2	Linear Weighted

Read time (s): 30

RF power (kW): 1.2

Stabilization time (s): 15

Viewing mode: SVDV

Viewing height (mm): 8

Nebulizer flow(L/min): 0.75

Plasma flow(L/min): 12

Aux flow(L/min): 1

Make up flow(L/min): 0

Oxygen %: 0

Calibration parameters:

Label (Wavelength nm)	Minimum Concentration	Maximum Concentration	Calibration Error
Ag (328.068)	0 mg/L	5 mg/L	20 %
Al (308.215)	0 mg/L	500 mg/L	20 %
As (193.696)	0 mg/L	50 mg/L	20 %
Ba (413.064)	0 mg/L	50 mg/L	20 %
Be (313.042)	0 mg/L	10 mg/L	20 %
Ca (373.690)	0 mg/L	100 mg/L	20 %
Cd (228.802)	0 mg/L	20 mg/L	20 %
Co (230.786)	0 mg/L	50 mg/L	20 %
Cr (267.716)	0 mg/L	50 mg/L	20 %
Cu (327.395)	0 mg/L	50 mg/L	20 %
Fe (238.204)	0 mg/L	100 mg/L	20 %
K (766.491)	0 mg/L	200 mg/L	20 %
Mg (279.800)	0 mg/L	100 mg/L	20 %
Mn (257.610)	0 mg/L	20 mg/L	20 %
Mo (204.598)	0 mg/L	100 mg/L	20 %
Na (589.592)	0 mg/L	200 mg/L	20 %
Ni (221.648)	0 mg/L	50 mg/L	20 %

220303A.esws

Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D

Label (Wavelength nm)	Minimum Concentration	Maximum Concentration	Calibration Error
Pb (220.353)	0 mg/L	50 mg/L	20 %
Sb (217.582)	0 mg/L	100 mg/L	20 %
Se (196.026)	0 mg/L	50 mg/L	20 %
Sn (189.925)	0 mg/L	100 mg/L	20 %
Ti (337.280)	0 mg/L	50 mg/L	20 %
Tl (351.923)	0 mg/L	50 mg/L	20 %
V (311.837)	0 mg/L	50 mg/L	20 %
Zn (206.200)	0 mg/L	50 mg/L	20 %
B (249.772)	0 mg/L	50 mg/L	20 %
Sr (407.771)	0 mg/L	50 mg/L	20 %
S (181.972)	0 mg/L	50 mg/L	25 %
P (213.618)	0 mg/L	50 mg/L	20 %

220303A.esws

Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D

Sequence table:

Rack:Tube	Sample Label	Weight (g)	Volume (mL)	Dilution
S1:1	Blank	1.0	1.0	1.0
S1:3	ICAL 1	1.0	1.0	1.0
S1:2	ICAL 2	1.0	1.0	1.0
S1:3	ICAL 3	1.0	1.0	1.0
S1:3	Lab Control Sample	1.0	1.0	1.0
S1:3	Initial Calib Verif	1.0	1.0	1.0
S1:1	Initial Calib Blank	1.0	1.0	1.0
S1:3	CRI	1.0	1.0	1.0
S1:4	Interf Check A	1.0	1.0	1.0
S1:5	Interf Check AB	1.0	1.0	1.0
1:1	CRI	1.0	1.0	1.0
1:2	CRI-2	1.0	1.0	1.0
1:3	CRI-5	1.0	1.0	1.0
1:4	CRI-MIDLEVEL	1.0	1.0	1.0
1:5	LCR 1	1.0	1.0	1.0
1:6	LCR 2	1.0	1.0	1.0
1:7	LCR 3	1.0	1.0	1.0
1:8	LCR-Pb-Inhouse	1.0	1.0	1.0
1:9	LCS-330794	1.0	1.0	1.0
1:10	LCSD-330794	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
1:11	LCS-330769	1.0	1.0	1.0
1:12	LCSD-330769	1.0	1.0	1.0
1:13	LCS-330803	1.0	1.0	1.0
1:14	LCSD-330803	1.0	1.0	1.0
1:15	CRA-330804	1.0	1.0	1.0
1:16	LCS-330804	1.0	1.0	1.0
1:17	LCSD-330804	1.0	1.0	1.0
1:18	MB-331824	1.0	1.0	1.0
1:19	LCS-331824	1.0	1.0	1.0
1:20	LCSD-331824	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
1:21	CRA-331824	1.0	1.0	1.0
1:22	2202V86-001A	1.0	1.0	1.0
1:23	2202V86-002A	1.0	1.0	1.0
1:24	2202V86-003A	1.0	1.0	1.0
1:25	2202V89-001A	1.0	1.0	1.0
1:26	2202V89-002A	1.0	1.0	1.0
1:27	2202V89-003A	1.0	1.0	1.0
1:28	2202V89-004A	1.0	1.0	1.0
1:29	2202V91-001A	1.0	1.0	1.0
1:30	2202V91-002A	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0

Rack:Tube	Sample Label	Weight (g)	Volume (mL)	Dilution
S1:1	Cont Calib Blank	1.0	1.0	1.0
1:31	2202V91-003A	1.0	1.0	1.0
1:32	2202V91-004A	1.0	1.0	1.0
1:33	2202V92-001A	1.0	1.0	1.0
1:34	2202V92-002A	1.0	1.0	1.0
1:35	2202V92-003A	1.0	1.0	1.0
1:36	MB-331898	1.0	1.0	1.0
1:37	LCS-331898	1.0	1.0	1.0
1:38	2202W74-013C	1.0	1.0	1.0
1:39	2202W74-013CMS	1.0	1.0	1.0
1:40	2202W74-013CMSD	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
1:41	2202W74-013CDL	1.0	1.0	1.0
1:42	2202W74-013CPDS	1.0	1.0	1.0
1:43	2202M07-001D	1.0	1.0	1.0
1:44	2202M07-002D	1.0	1.0	1.0
1:45	MB-331933	1.0	1.0	1.0
1:46	LCS-331933	1.0	1.0	1.0
1:47	2202M07-006B	1.0	1.0	1.0
1:48	2202M07-006BMS	1.0	1.0	1.0
1:49	2202M07-006BMSD	1.0	1.0	1.0
1:50	2202M07-006BDL	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
1:51	2202M07-006BPDS	1.0	1.0	1.0
1:52	2203033-019A	1.0	1.0	1.0
1:53	2203033-019ADUP	1.0	1.0	1.0
1:54	2203033-020A	1.0	1.0	1.0
1:55	2203028-001A	1.0	1.0	1.0
1:56	2203035-001A/10x	1.0	1.0	1.0
1:57	2203035-001AMS/10x	1.0	1.0	1.0
1:58	2203035-001AMSD/10x	1.0	1.0	1.0
1:59	2203035-001ADL/50x	1.0	1.0	1.0
1:60	2203035-001APDS/20x	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
2:1	2203132-001A/10x	1.0	1.0	1.0
2:2	2203132-001AMS/10x	1.0	1.0	1.0
2:3	2202S39-002A/10x	1.0	1.0	1.0
2:4	2203064-001A/5x	1.0	1.0	1.0
2:5	2203064-002A/1000x	1.0	1.0	1.0
2:6	2203064-003A/100x	1.0	1.0	1.0
2:7	2203064-004A/100x	1.0	1.0	1.0
2:8	2203064-005A/500x	1.0	1.0	1.0
2:9	2203064-006A/100x	1.0	1.0	1.0
2:10	2203064-007A/100x	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0

Rack:Tube	Sample Label	Weight (g)	Volume (mL)	Dilution
S1:1	Cont Calib Blank	1.0	1.0	1.0
2:11	2203064-008A/500x	1.0	1.0	1.0
2:12	2203064-009A/500x	1.0	1.0	1.0
2:13	2203064-010A/500x	1.0	1.0	1.0
2:14	2203064-011A/100x	1.0	1.0	1.0
2:15	2203104-001A	1.0	1.0	1.0
2:16	2203104-002A/10x	1.0	1.0	1.0
2:17	2203104-003A/20x	1.0	1.0	1.0
2:18	2203104-004A/10x	1.0	1.0	1.0
S1:4	Interf Check A	1.0	1.0	1.0
S1:5	Interf Check AB	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
2:19	MB-331654	1.0	1.0	1.0
2:20	LCS-331654	1.0	1.0	1.0
2:21	2202T74-008A	1.0	1.0	1.0
2:22	2202T74-008AMS	1.0	1.0	1.0
2:23	2202T74-008AMSD	1.0	1.0	1.0
2:24	2202T74-008ADL	1.0	1.0	1.0
2:25	2202T74-008APDS	1.0	1.0	1.0
2:26	2203099-008A	1.0	1.0	1.0
2:27	2203099-009A	1.0	1.0	1.0
2:28	2202S82-001A	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
2:29	2202S83-001A	1.0	1.0	1.0
2:30	2202T74-001A	1.0	1.0	1.0
2:31	2202T74-002A	1.0	1.0	1.0
2:32	2202T74-004A	1.0	1.0	1.0
2:33	2202T74-006A	1.0	1.0	1.0
2:34	2202T74-009A	1.0	1.0	1.0
2:35	2202T74-011A	1.0	1.0	1.0
2:36	2202T74-013A	1.0	1.0	1.0
2:37	2202V06-001C	1.0	1.0	1.0
2:38	2202V06-002C	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
2:39	2202V06-003C	1.0	1.0	1.0
2:40	2202V06-004C	1.0	1.0	1.0
2:41	2202V06-005C	1.0	1.0	1.0
2:42	2202V06-006C	1.0	1.0	1.0
2:43	2202V06-007C	1.0	1.0	1.0
2:44	2202V06-008C	1.0	1.0	1.0
2:45	2202W74-005C	1.0	1.0	1.0
2:46	2202W74-011C	1.0	1.0	1.0
2:47	2202W74-015C	1.0	1.0	1.0
2:48	2202W87-006C	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0

Rack:Tube	Sample Label	Weight (g)	Volume (mL)	Dilution
S1:1	Cont Calib Blank	1.0	1.0	1.0
2:49	2203018-007D	1.0	1.0	1.0
2:50	2203106-001C	1.0	1.0	1.0
2:51	2203106-003C	1.0	1.0	1.0
2:52	2203107-002C	1.0	1.0	1.0
2:53	2203108-003C	1.0	1.0	1.0
2:54	2203108-004C	1.0	1.0	1.0
2:55	2203108-005C	1.0	1.0	1.0
2:56	2203182-001C	1.0	1.0	1.0
2:57	2203182-002C	1.0	1.0	1.0
2:58	2203182-003C	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
2:59	2203182-004C	1.0	1.0	1.0
2:60	2202L57-026A	1.0	1.0	1.0
3:1	2202U65-001B	1.0	1.0	1.0
3:2	2202U66-001B	1.0	1.0	1.0
3:3	2203067-001A	1.0	1.0	1.0
3:4	2202U67-001A	1.0	1.0	1.0
3:5	2202U68-001A	1.0	1.0	1.0
3:6	2202U69-001A	1.0	1.0	1.0
3:7	2202V46-001B	1.0	1.0	1.0
3:8	2202W76-001A	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
3:9	2203068-001A	1.0	1.0	1.0
3:10	2203069-001A	1.0	1.0	1.0
3:11	CRA-330792	1.0	1.0	1.0
3:12	MB-330792	1.0	1.0	1.0
3:13	RB-330792	1.0	1.0	1.0
3:14	LCS-330792	1.0	1.0	1.0
3:15	LCSD-330792	1.0	1.0	1.0
3:16	2202A82-001A	1.0	1.0	1.0
3:17	2202A82-002A	1.0	1.0	1.0
3:18	2202A82-003A	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
3:19	2202A82-004A	1.0	1.0	1.0
3:20	2202A82-005A	1.0	1.0	1.0
3:21	2202A82-006A	1.0	1.0	1.0
3:22	2202A82-007A	1.0	1.0	1.0
3:23	2202A82-008A	1.0	1.0	1.0
3:24	2202A82-009A	1.0	1.0	1.0
3:25	2202A82-010A	1.0	1.0	1.0
3:26	2202A82-011A	1.0	1.0	1.0
3:27	2202A82-012A	1.0	1.0	1.0
3:28	2202A82-013A	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0

Rack:Tube	Sample Label	Weight (g)	Volume (mL)	Dilution
S1:1	Cont Calib Blank	1.0	1.0	1.0
3:29	2202A82-014A	1.0	1.0	1.0
3:30	2202A82-015A	1.0	1.0	1.0
3:31	2202A82-016A	1.0	1.0	1.0
3:32	2202A82-017A	1.0	1.0	1.0
3:33	2202A82-018A	1.0	1.0	1.0
3:34	2202A82-019A	1.0	1.0	1.0
3:35	2202A82-020A	1.0	1.0	1.0
3:36	CRA-330802	1.0	1.0	1.0
3:37	MB-330802	1.0	1.0	1.0
3:38	RB-330802	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
3:39	LCS-330802	1.0	1.0	1.0
3:40	LCSD-330802	1.0	1.0	1.0
3:41	2202A88-001A	1.0	1.0	1.0
3:42	2202A88-002A	1.0	1.0	1.0
3:43	2202A88-003A	1.0	1.0	1.0
3:44	2202A88-004A	1.0	1.0	1.0
3:45	2202A88-005A	1.0	1.0	1.0
3:46	2202A88-006A	1.0	1.0	1.0
3:47	2202A88-007A	1.0	1.0	1.0
3:48	2202A88-008A	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
3:49	2202A88-009A	1.0	1.0	1.0
3:50	2202A88-010A	1.0	1.0	1.0
3:51	2202A88-011A	1.0	1.0	1.0
3:52	2202A88-012A	1.0	1.0	1.0
3:53	2202A88-013A	1.0	1.0	1.0
3:54	2202A88-014A	1.0	1.0	1.0
3:55	2202A88-015A	1.0	1.0	1.0
3:56	2202A88-016A	1.0	1.0	1.0
3:57	2202A88-017A	1.0	1.0	1.0
3:58	2202A88-018A	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
3:59	2202A88-019A	1.0	1.0	1.0
3:60	2202A88-020A	1.0	1.0	1.0
4:1	CRA-331311	1.0	1.0	1.0
4:2	MB-331311	1.0	1.0	1.0
4:3	RB-331311	1.0	1.0	1.0
4:4	LCS-331311	1.0	1.0	1.0
4:5	LCSD-331311	1.0	1.0	1.0
4:6	2202B04-021A	1.0	1.0	1.0
S1:4	Interf Check A	1.0	1.0	1.0
S1:5	Interf Check AB	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0

Rack:Tube	Sample Label	Weight (g)	Volume (mL)	Dilution
S1:1	Cont Calib Blank	1.0	1.0	1.0
4:7	2202B04-022A	1.0	1.0	1.0
4:8	2202B04-023A	1.0	1.0	1.0
4:9	2202B04-024A	1.0	1.0	1.0
4:10	2202B04-025A	1.0	1.0	1.0
4:11	2202B04-026A	1.0	1.0	1.0
4:12	2202B04-027A	1.0	1.0	1.0
4:13	2202B04-028A	1.0	1.0	1.0
4:14	2202B04-029A	1.0	1.0	1.0
4:15	2202B04-030A	1.0	1.0	1.0
4:16	2202B04-031A	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
4:17	2202B04-032A	1.0	1.0	1.0
4:18	2202B04-033A	1.0	1.0	1.0
4:19	2202B04-034A	1.0	1.0	1.0
4:20	2202B04-035A	1.0	1.0	1.0
4:21	2202B04-036A	1.0	1.0	1.0
4:22	2202B04-037A	1.0	1.0	1.0
4:23	2202B04-038A	1.0	1.0	1.0
4:24	2202B39-021A	1.0	1.0	1.0
4:25	2202B39-022A	1.0	1.0	1.0
4:26	CRA-331313	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
4:27	MB-331313	1.0	1.0	1.0
4:28	RB-331313	1.0	1.0	1.0
4:29	LCS-331313	1.0	1.0	1.0
4:30	LCSD-331313	1.0	1.0	1.0
4:31	2202B39-001A	1.0	1.0	1.0
4:32	2202B39-002A	1.0	1.0	1.0
4:33	2202B39-003A	1.0	1.0	1.0
4:34	2202B39-004A	1.0	1.0	1.0
4:35	2202B39-005A	1.0	1.0	1.0
4:36	2202B39-006A	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
4:37	2202B39-007A	1.0	1.0	1.0
4:38	2202B39-008A	1.0	1.0	1.0
4:39	2202B39-009A	1.0	1.0	1.0
4:40	2202B39-010A	1.0	1.0	1.0
4:41	2202B39-011A	1.0	1.0	1.0
4:42	2202B39-012A	1.0	1.0	1.0
4:43	2202B39-013A	1.0	1.0	1.0
4:44	2202B39-014A	1.0	1.0	1.0
4:45	2202B39-015A	1.0	1.0	1.0
4:46	2202B39-016A	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0

Rack:Tube	Sample Label	Weight (g)	Volume (mL)	Dilution
S1:1	Cont Calib Blank	1.0	1.0	1.0
4:47	2202B39-017A	1.0	1.0	1.0
4:48	2202B39-018A	1.0	1.0	1.0
4:49	2202B39-019A	1.0	1.0	1.0
4:50	2202B39-020A	1.0	1.0	1.0
4:51	CRA-331385	1.0	1.0	1.0
4:52	MB-331385	1.0	1.0	1.0
4:53	RB-331385	1.0	1.0	1.0
4:54	LCS-331385	1.0	1.0	1.0
S1:4	Interf Check A	1.0	1.0	1.0
S1:5	Interf Check AB	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
4:55	LCSD-331385	1.0	1.0	1.0
4:56	2202H19-021A	1.0	1.0	1.0
4:57	2202H19-022A	1.0	1.0	1.0
4:58	2202H19-023A	1.0	1.0	1.0
4:59	2202H19-024A	1.0	1.0	1.0
4:60	2202H19-025A	1.0	1.0	1.0
1:1	2202H19-026A	1.0	1.0	1.0
1:2	2202H19-027A	1.0	1.0	1.0
1:3	2202H19-028A	1.0	1.0	1.0
1:4	2202H19-029A	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
1:5	2202H19-030A	1.0	1.0	1.0
1:6	2202H19-031A	1.0	1.0	1.0
1:7	2202H19-032A	1.0	1.0	1.0
1:8	2202H19-033A	1.0	1.0	1.0
1:9	2202H19-034A	1.0	1.0	1.0
1:10	2202H19-035A	1.0	1.0	1.0
1:11	2202H19-036A	1.0	1.0	1.0
1:12	2202H19-037A	1.0	1.0	1.0
1:13	2202H19-038A	1.0	1.0	1.0
1:14	2202H19-039A	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
1:15	CRA-331387	1.0	1.0	1.0
1:16	MB-331387	1.0	1.0	1.0
1:17	RB-331387	1.0	1.0	1.0
1:18	LCS-331387	1.0	1.0	1.0
1:19	LCSD-331387	1.0	1.0	1.0
1:20	2202H20-021A	1.0	1.0	1.0
1:21	2202H20-022A	1.0	1.0	1.0
1:22	2202H20-023A	1.0	1.0	1.0
1:23	2202H20-024A	1.0	1.0	1.0
1:24	2202H20-025A	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0

Rack:Tube	Sample Label	Weight (g)	Volume (mL)	Dilution
S1:1	Cont Calib Blank	1.0	1.0	1.0
1:25	2202H20-026A	1.0	1.0	1.0
1:26	2202H20-027A	1.0	1.0	1.0
1:27	2202H20-028A	1.0	1.0	1.0
1:28	2202H20-029A	1.0	1.0	1.0
1:29	2202H20-030A	1.0	1.0	1.0
1:30	2202H20-031A	1.0	1.0	1.0
1:31	2202H20-032A	1.0	1.0	1.0
1:32	2202H20-033A	1.0	1.0	1.0
1:33	2202H20-034A	1.0	1.0	1.0
1:34	2202H20-035A	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
1:35	2202H20-036A	1.0	1.0	1.0
1:36	2202H20-037A	1.0	1.0	1.0
1:37	2202H20-038A	1.0	1.0	1.0
1:38	2202H20-039A	1.0	1.0	1.0
1:39	MB-331730	1.0	1.0	1.0
1:40	LCS-331730	1.0	1.0	1.0
1:41	2202U99-001A	1.0	1.0	1.0
1:42	2202U99-001AMS	1.0	1.0	1.0
S1:4	Interf Check A	1.0	1.0	1.0
S1:5	Interf Check AB	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
1:43	2202U99-001AMSD	1.0	1.0	1.0
1:44	2202U99-001ADL	1.0	1.0	1.0
1:45	2202U99-001APDS	1.0	1.0	1.0
1:46	2202S87-003D	1.0	1.0	1.0
1:47	2202S87-004D	1.0	1.0	1.0
1:48	2202T73-017D	1.0	1.0	1.0
1:49	2202T73-018D	1.0	1.0	1.0
1:50	2202T73-019D	1.0	1.0	1.0
1:51	2202U62-001A	1.0	1.0	1.0
1:52	2202U96-001A	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
1:53	2202U96-002A	1.0	1.0	1.0
1:54	2202U99-002A	1.0	1.0	1.0
1:55	2202U99-003A	1.0	1.0	1.0
1:56	2202U99-004A	1.0	1.0	1.0
1:57	2202U99-005A	1.0	1.0	1.0
1:58	2202U99-006A	1.0	1.0	1.0
1:59	2202U99-007A	1.0	1.0	1.0
1:60	2202U99-008A	1.0	1.0	1.0
2:1	2202U99-009A	1.0	1.0	1.0
2:2	MB-331726	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0

220303A.esws

Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D

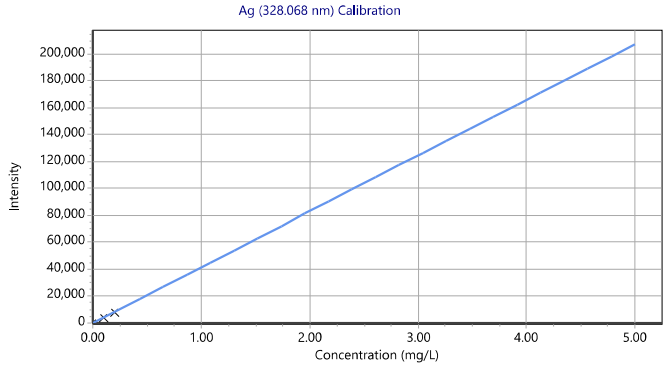
Rack:Tube	Sample Label	Weight (g)	Volume (mL)	Dilution
S1:1	Cont Calib Blank	1.0	1.0	1.0
2:3	LCS-331726	1.0	1.0	1.0
2:4	2202S68-001B/5x	1.0	1.0	1.0
2:5	2202S68-001BMS/5x	1.0	1.0	1.0
2:6	2202S68-001BMSD/5x	1.0	1.0	1.0
2:7	2202S68-001BDL/25x	1.0	1.0	1.0
2:8	2202S68-001BPDS/10x	1.0	1.0	1.0
2:9	2202S73-004A/5x	1.0	1.0	1.0
2:10	2202S73-004AMS/5x	1.0	1.0	1.0
2:11	2202I96-001B	1.0	1.0	1.0
2:12	2202Q01-001A/10x	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
2:13	2202Q01-002A/10x	1.0	1.0	1.0
2:14	2202Q01-003A/10x	1.0	1.0	1.0
2:15	2202Q01-004A/10x	1.0	1.0	1.0
2:16	2202R14-003A	1.0	1.0	1.0
2:17	2202R33-002C	1.0	1.0	1.0
2:18	2202R70-002A	1.0	1.0	1.0
2:19	2202R71-002A	1.0	1.0	1.0
2:20	2202T03-004A	1.0	1.0	1.0
2:21	2202T08-001B/10x	1.0	1.0	1.0
2:22	2202T40-001D	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
2:23	2202T80-001A	1.0	1.0	1.0
2:24	2202T80-002A	1.0	1.0	1.0
2:25	2202T80-003A	1.0	1.0	1.0
2:26	2202T80-004A	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0
2:27	2202S37-002A	1.0	1.0	1.0
2:28	2202S38-002A	1.0	1.0	1.0
S1:4	Interf Check A	1.0	1.0	1.0
S1:5	Interf Check AB	1.0	1.0	1.0
S1:2	Cont Calib Verif	1.0	1.0	1.0
S1:1	Cont Calib Blank	1.0	1.0	1.0

Calibration Curves:

220303A.esws

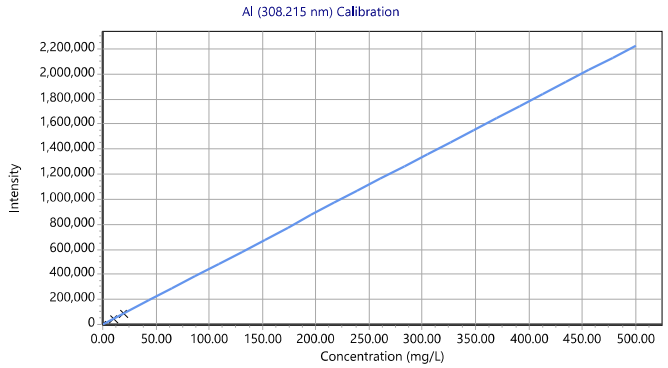
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



Ag (328.068 nm)
Intensity = 41508.35108570 * Concentration + 8.49996583
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	8.49997	0.00000	0.00000	N/A
ICAL 1	184.58608	0.00500	0.00424	15.15630
ICAL 2	4167.41764	0.10000	0.10019	0.19472
ICAL 3	8325.32765	0.20000	0.20037	0.18258



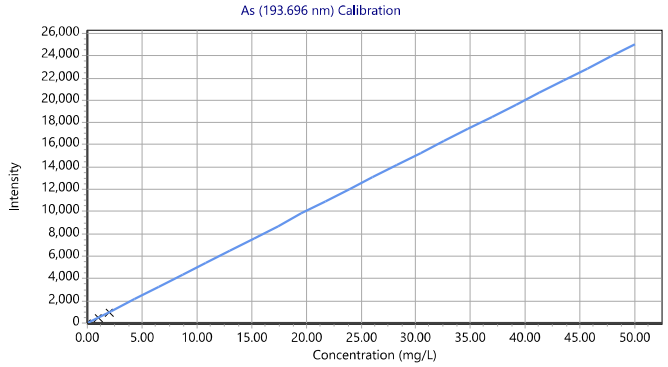
Al (308.215 nm)
Intensity = 4456.31838100 * Concentration + 424.69597135
Correlation coefficient: 0.99998

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	614.09206	0.00000	0.04250	N/A
ICAL 1	1299.42350	0.20000	0.19629	1.85536
ICAL 2	44641.82916	10.00000	9.92235	0.77654
ICAL 3	89724.25426	20.00000	20.03886	0.19432

220303A.esws

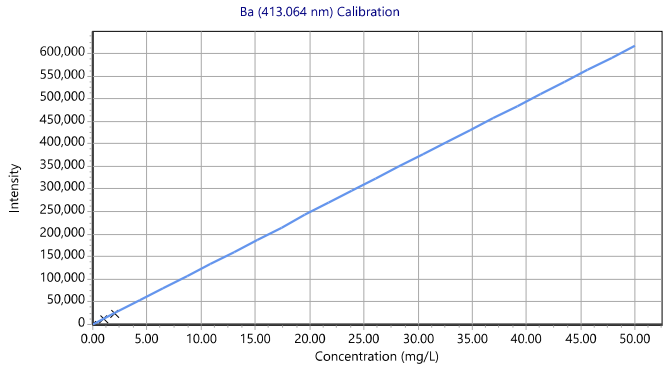
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



As (193.696 nm)
Intensity = 500.65113936 * Concentration + 4.69233436
Correlation coefficient: 1.00000

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	5.03521	0.00000	0.00068	N/A
ICAL 1	28.65602	0.05000	0.04787	4.26991
ICAL 2	506.29142	1.00000	1.00189	0.18934
ICAL 3	1003.92995	2.00000	1.99588	0.20620



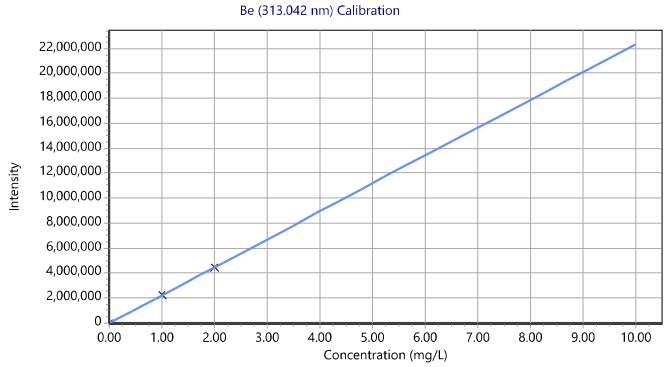
Ba (413.064 nm)
Intensity = 12352.07513271 * Concentration + 75.79954007
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	75.79954	0.00000	0.00000	N/A
ICAL 1	195.22422	0.01000	0.00967	3.31610
ICAL 2	12487.61563	1.00000	1.00484	0.48365
ICAL 3	24750.09981	2.00000	1.99758	0.12083

220303A.esws

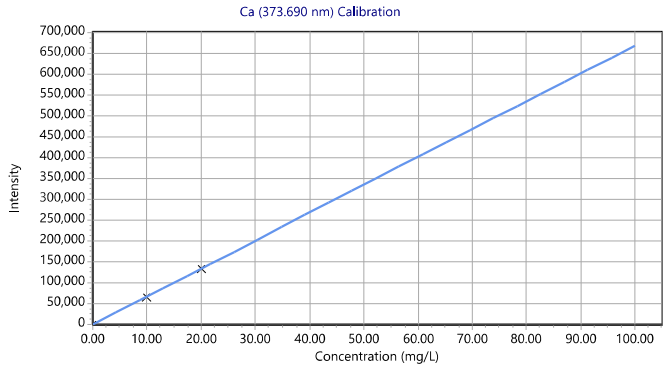
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



Be (313.042 nm)
Intensity = 2233376.68545716 * Concentration + 252.07539278
Correlation coefficient: 0.99998

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	252.07539	0.00000	0.00000	N/A
ICAL 1	10896.59871	0.00500	0.00477	4.67776
ICAL 2	2252526.01150	1.00000	1.00846	0.84613
ICAL 3	4457558.12688	2.00000	1.99577	0.21150



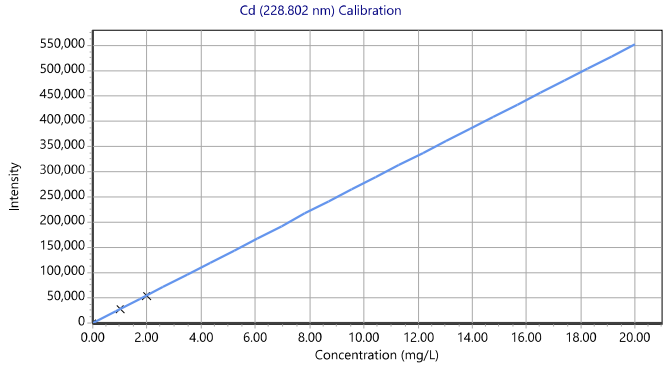
Ca (373.690 nm)
Intensity = 6681.29242566 * Concentration + 244.38515028
Correlation coefficient: 1.00000

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	200.19479	0.00000	-0.00661	N/A
ICAL 1	1001.24216	0.10000	0.11328	13.28003
ICAL 2	66950.74278	10.00000	9.98405	0.15950
ICAL 3	133307.87012	20.00000	19.91583	0.42085

220303A.esws

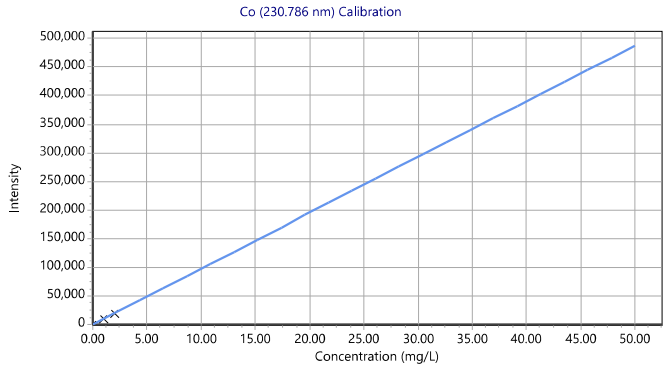
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



Cd (228.802 nm)
Intensity = 27665.91893100 * Concentration + 16.88149731
Correlation coefficient: 1.00000

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	16.88150	0.00000	0.00000	N/A
ICAL 1	154.42181	0.00500	0.00497	0.57058
ICAL 2	27724.47593	1.00000	1.00151	0.15064
ICAL 3	55327.88358	2.00000	1.99925	0.03766



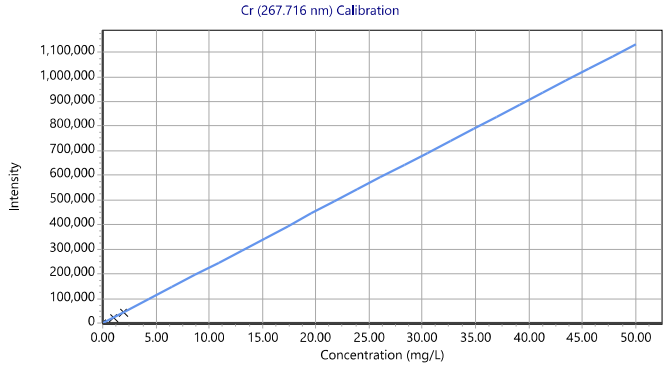
Co (230.786 nm)
Intensity = 9754.63414443 * Concentration + 7.57767072
Correlation coefficient: 0.99998

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	7.57767	0.00000	0.00000	N/A
ICAL 1	106.49072	0.01000	0.01014	1.40108
ICAL 2	9855.51186	1.00000	1.00956	0.95647
ICAL 3	19470.18910	2.00000	1.99522	0.23915

220303A.esws

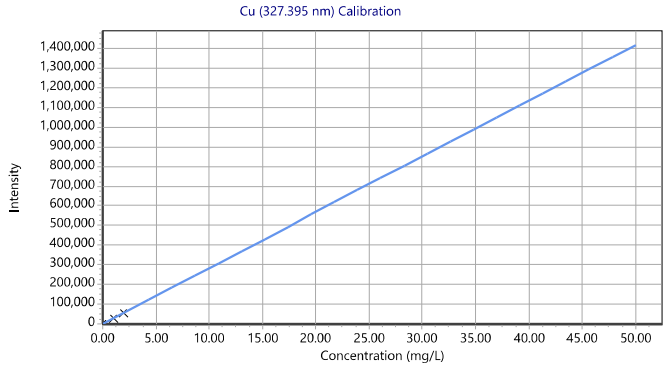
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



Cr (267.716 nm)
Intensity = 22659.93552273 * Concentration + 28.76655968
Correlation coefficient: 0.99998

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	28.76656	0.00000	0.00000	N/A
ICAL 1	246.34008	0.01000	0.00960	3.98317
ICAL 2	22899.29033	1.00000	1.00929	0.92934
ICAL 3	45243.38861	2.00000	1.99536	0.23224



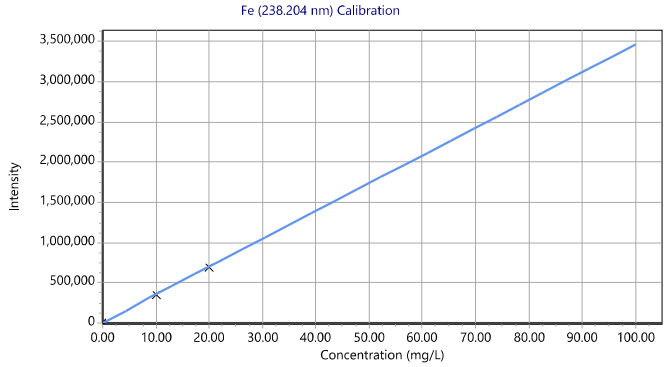
Cu (327.395 nm)
Intensity = 28375.91048061 * Concentration + 24.37997579
Correlation coefficient: 1.00000

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	24.37998	0.00000	0.00000	N/A
ICAL 1	323.62622	0.01000	0.01055	5.45785
ICAL 2	28390.43067	1.00000	0.99965	0.03475
ICAL 3	56781.05340	2.00000	2.00017	0.00855

220303A.esws

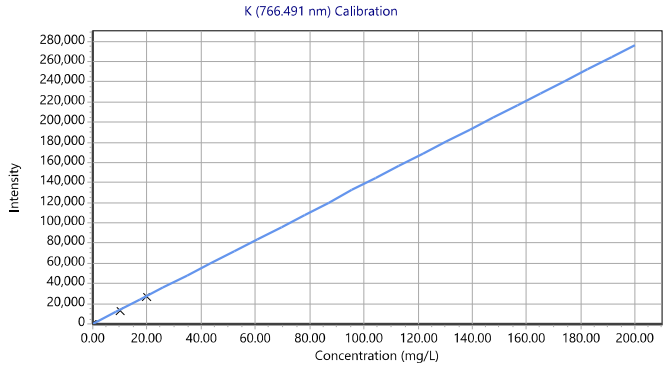
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



Fe (238.204 nm)
Intensity = 34627.07361513 * Concentration + 5929.39783226
Correlation coefficient: 0.99991

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	5984.47962	0.00000	0.00159	N/A
ICAL 1	9310.99126	0.10000	0.09766	2.34250
ICAL 2	358824.38707	10.00000	10.19130	1.91303
ICAL 3	693441.70683	20.00000	19.85476	0.72619



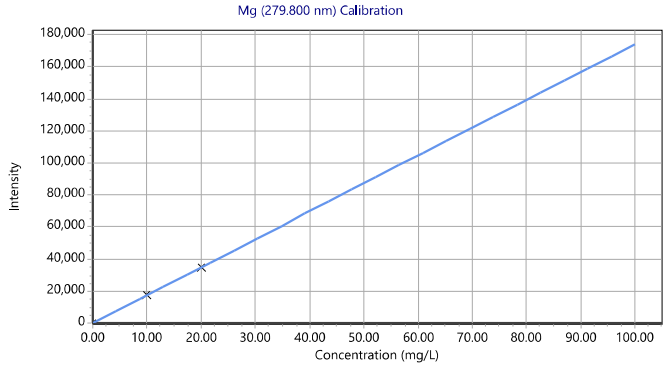
K (766.491 nm)
Intensity = 1384.72761099 * Concentration - 192.30595677
Correlation coefficient: 0.99998

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	-192.30596	0.00000	0.00000	N/A
ICAL 1	473.62327	0.50000	0.48091	3.81802
ICAL 2	13507.24800	10.00000	9.89332	1.06680
ICAL 3	27529.26842	20.00000	20.01951	0.09757

220303A.esws

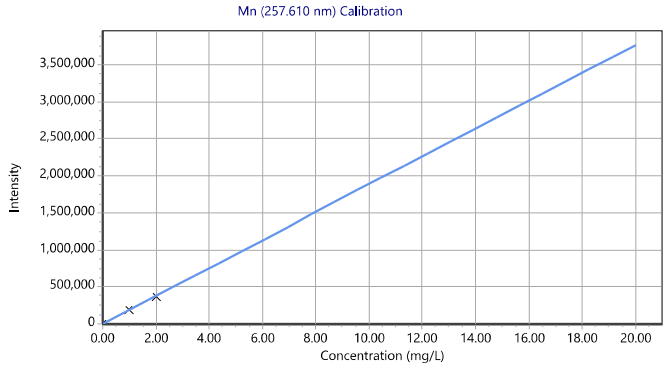
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



Mg (279.800 nm)
Intensity = 1741.16220122 * Concentration + 17.47232998
Correlation coefficient: 1.00000

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	19.38161	0.00000	0.00110	N/A
ICAL 1	189.58061	0.10000	0.09885	1.15322
ICAL 2	17521.77845	10.00000	10.05323	0.53231
ICAL 3	34955.15608	20.00000	20.06573	0.32863



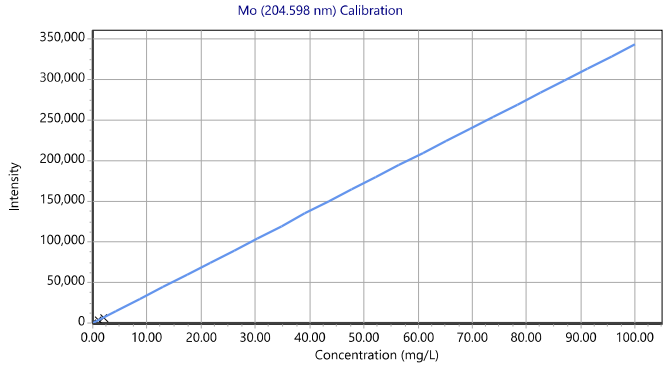
Mn (257.610 nm)
Intensity = 188584.30301146 * Concentration + 362.96999716
Correlation coefficient: 1.00000

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	362.97000	0.00000	0.00000	N/A
ICAL 1	1307.13268	0.00500	0.00501	0.13163
ICAL 2	189833.90486	1.00000	1.00470	0.47015
ICAL 3	377088.25699	2.00000	1.99765	0.11754

220303A.esws

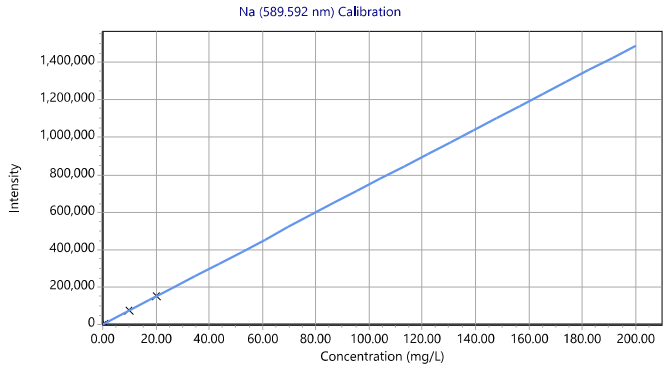
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



Mo (204.598 nm)
Intensity = 3431.19819522 * Concentration + 6.81985894
Correlation coefficient: 0.99994

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	6.81986	0.00000	0.00000	N/A
ICAL 1	175.74046	0.05000	0.04923	1.53842
ICAL 2	3662.55871	1.00000	1.06544	6.54409
ICAL 3	7170.64119	2.00000	2.08785	4.39242



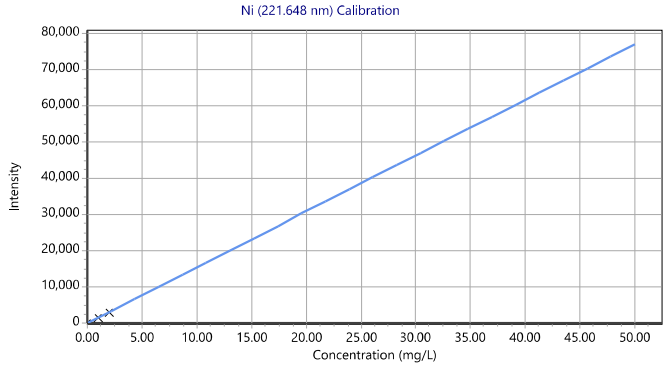
Na (589.592 nm)
Intensity = 7451.23429148 * Concentration + 882.70670490
Correlation coefficient: 0.99997

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1195.46932	0.00000	0.04197	N/A
ICAL 1	7975.44413	1.00000	0.95189	4.81124
ICAL 2	76641.93940	10.00000	10.16734	1.67340
ICAL 3	154023.08361	20.00000	20.55235	2.76175

220303A.esws

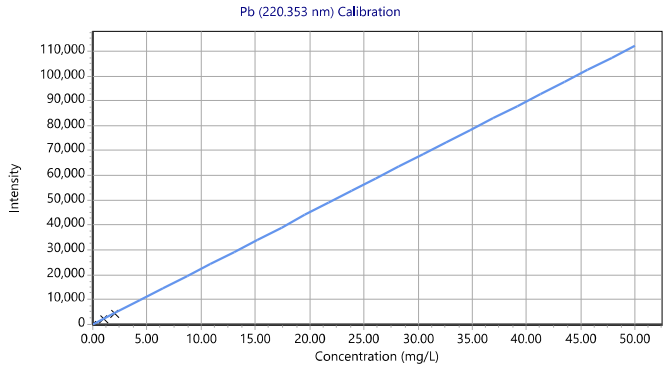
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



Ni (221.648 nm)
Intensity = 1538.55611394 * Concentration + 2.20130588
Correlation coefficient: 0.99996

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	2.20131	0.00000	0.00000	N/A
ICAL 1	33.48582	0.02000	0.02033	1.66841
ICAL 2	1563.26850	1.00000	1.01463	1.46313
ICAL 3	3068.05286	2.00000	1.99268	0.36595



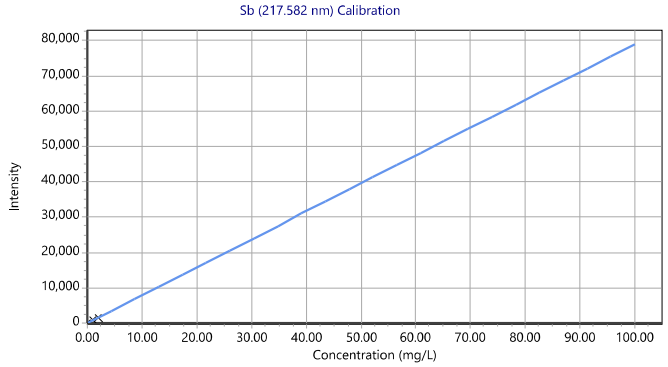
Pb (220.353 nm)
Intensity = 2245.51967675 * Concentration + 6.66196732
Correlation coefficient: 0.99998

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	6.66197	0.00000	0.00000	N/A
ICAL 1	26.05082	0.01000	0.00863	13.65537
ICAL 2	2275.93133	1.00000	1.01058	1.05765
ICAL 3	4485.84181	2.00000	1.99472	0.26407

220303A.esws

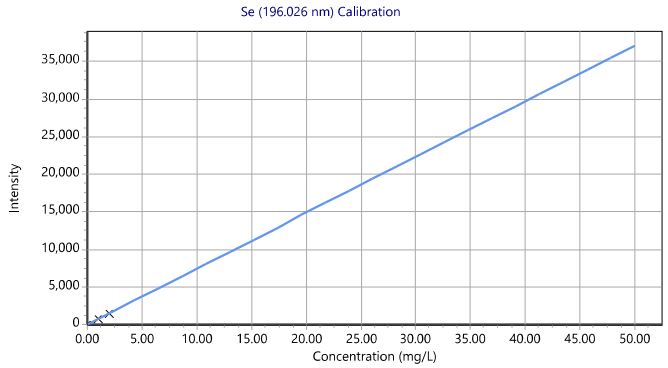
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



Sb (217.582 nm)
Intensity = 789.69501893 * Concentration + 4.46002301
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	5.58519	0.00000	0.00142	N/A
ICAL 1	18.25703	0.02000	0.01747	12.64347
ICAL 2	799.50927	1.00000	1.00678	0.67801
ICAL 3	1581.16595	2.00000	1.99660	0.16995



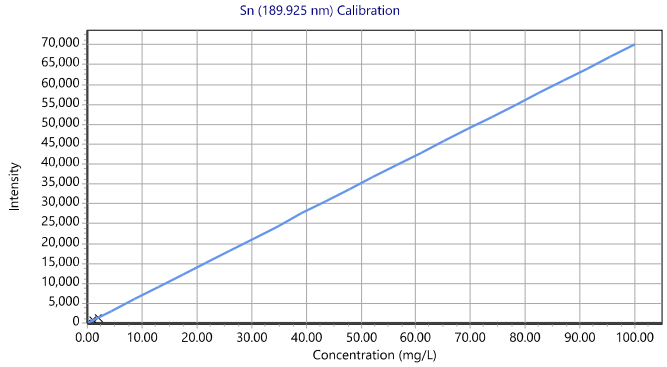
Se (196.026 nm)
Intensity = 742.92227303 * Concentration + 4.16342446
Correlation coefficient: 1.00000

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	4.16342	0.00000	0.00000	N/A
ICAL 1	20.33529	0.02000	0.02177	8.83958
ICAL 2	747.91509	1.00000	1.00112	0.11164
ICAL 3	1489.58014	2.00000	1.99942	0.02879

220303A.esws

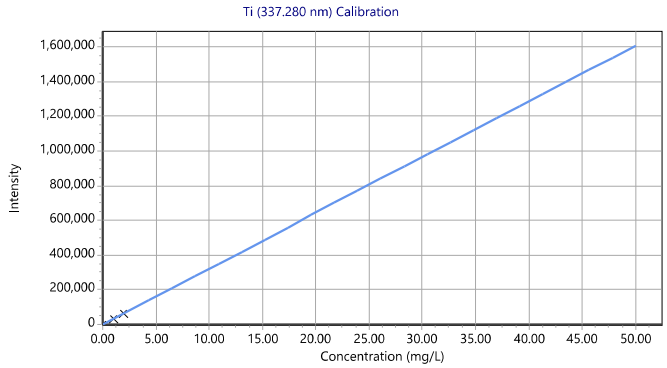
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



Sn (189.925 nm)
Intensity = 701.71760518 * Concentration + 3.17407534
Correlation coefficient: 0.99991

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	3.17408	0.00000	0.00000	N/A
ICAL 1	37.72791	0.05000	0.04924	1.51641
ICAL 2	719.51619	1.00000	1.02084	2.08410
ICAL 3	1399.31033	2.00000	1.98960	0.52008



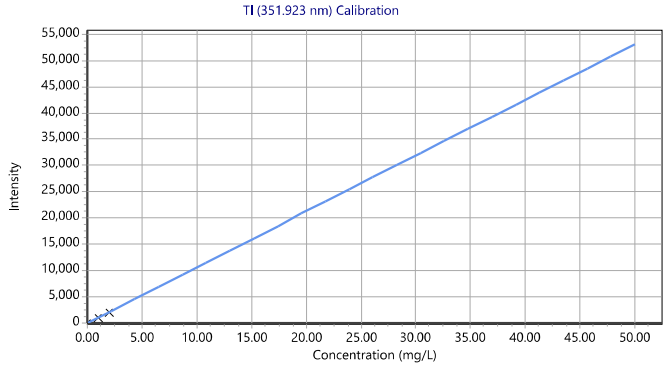
Ti (337.280 nm)
Intensity = 32187.39280824 * Concentration + 30.21578287
Correlation coefficient: 0.99995

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	30.21578	0.00000	0.00000	N/A
ICAL 1	1563.05892	0.05000	0.04762	4.75506
ICAL 2	32691.46104	1.00000	1.01472	1.47217
ICAL 3	64169.98834	2.00000	1.99270	0.36507

220303A.esws

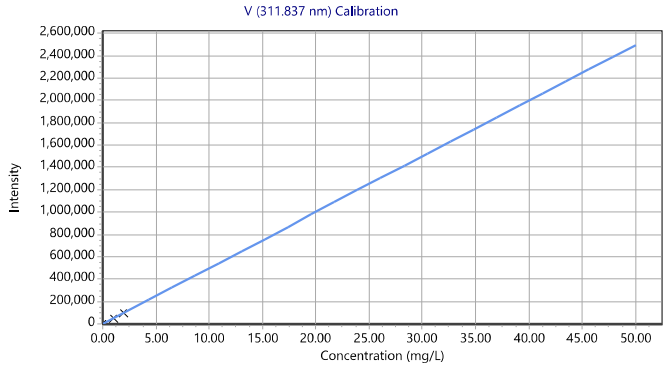
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



Tl (351.923 nm)
Intensity = 1062.63351141 * Concentration
Correlation coefficient: 0.99997

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	12.91270	0.00000	0.01215	N/A
ICAL 1	21.92479	0.02000	0.02063	3.16251
ICAL 2	1056.19714	1.00000	0.99394	0.60570
ICAL 3	2128.28956	2.00000	2.00284	0.14222



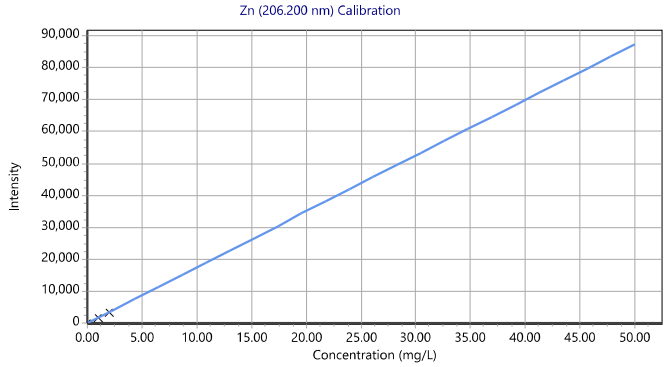
V (311.837 nm)
Intensity = 49928.10110749 * Concentration + 8.23342019
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	8.23342	0.00000	0.00000	N/A
ICAL 1	448.19822	0.01000	0.00881	11.88033
ICAL 2	50188.19990	1.00000	1.00504	0.50446
ICAL 3	99738.79953	2.00000	1.99748	0.12582

220303A.esws

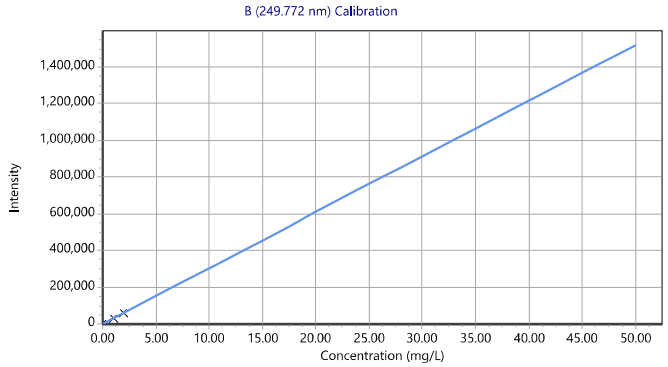
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



Zn (206.200 nm)
Intensity = 1747.66286125 * Concentration + 13.30009398
Correlation coefficient: 0.99999

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	4.43910	0.00000	-0.00507	N/A
ICAL 1	51.95952	0.02000	0.02212	10.60322
ICAL 2	1771.34672	1.00000	1.00594	0.59415
ICAL 3	3503.39687	2.00000	1.99701	0.14960



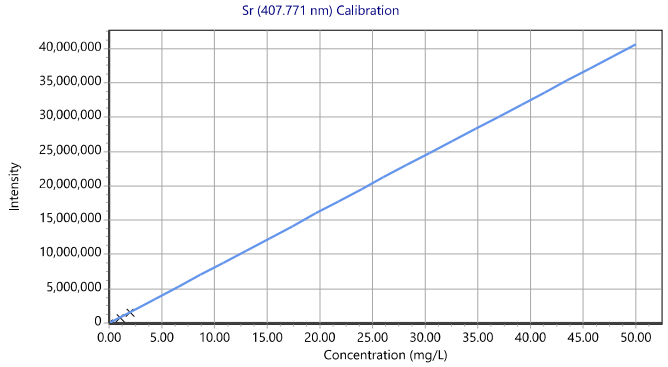
B (249.772 nm)
Intensity = 30422.64593304 * Concentration + 117.67312139
Correlation coefficient: 1.00000

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	117.67312	0.00000	0.00000	N/A
ICAL 1	1708.40689	0.05000	0.05229	4.57564
ICAL 2	30281.42597	1.00000	0.99149	0.85099
ICAL 3	60255.62723	2.00000	1.97675	1.16252

220303A.esws

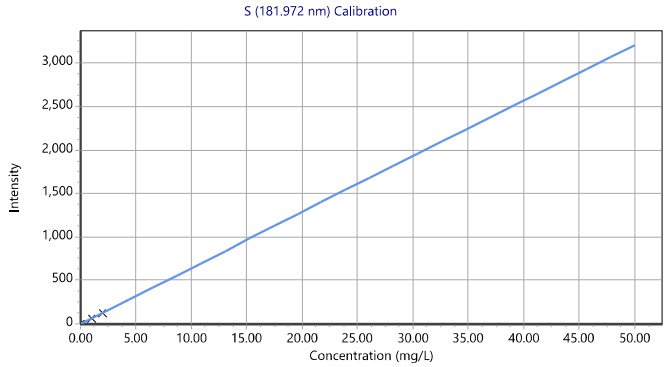
Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



Sr (407.771 nm)
Intensity = 812499.36295286 * Concentration
Correlation coefficient: 0.99996

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	125.52138	0.00000	0.00015	N/A
ICAL 1	41077.63624	0.05000	0.05056	1.11426
ICAL 2	818508.00562	1.00000	1.00740	0.73953
ICAL 3	1606874.74494	2.00000	1.97769	1.11532



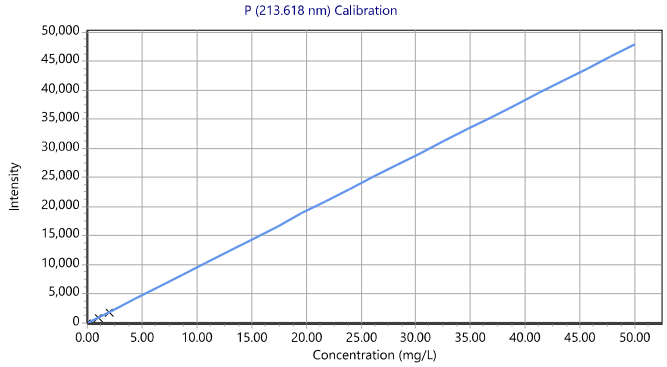
S (181.972 nm)
Intensity = 64.16131782 * Concentration + 2.71014705
Correlation coefficient: 0.99995

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	2.28169	0.00000	-0.00668	N/A
ICAL 1	5.98992	0.05000	0.05112	2.23507
ICAL 2	67.41240	1.00000	1.00843	0.84309
ICAL 3	129.97022	2.00000	1.98344	0.82804

220303A.esws

Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D



P (213.618 nm)
Intensity = 959.21409011 * Concentration + 2.04931882
Correlation coefficient: 0.99992

Standards	Intensity	Method Concentration	Calculated Concentration	% Error
Blank	1.54821	0.00000	-0.00052	N/A
ICAL 1	53.08668	0.05000	0.05321	6.41496
ICAL 2	977.74563	1.00000	1.01718	1.71830
ICAL 3	1906.04975	2.00000	1.98496	0.75206

Detailed Results

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 11:18:43	Blank	Ag (328.068 nm)	N/A	0.00000 (mg/L)	8.49997	> 100.00
3/3/2022 11:18:43	Blank	Al (308.215 nm)	N/A	0.00000 (mg/L)	614.09206	0.56
3/3/2022 11:18:43	Blank	As (193.696 nm)	N/A	0.00000 (mg/L)	5.03521	35.62
3/3/2022 11:18:43	Blank	B (249.772 nm)	N/A	0.00000 (mg/L)	117.67312	4.39
3/3/2022 11:18:43	Blank	Ba (413.064 nm)	N/A	0.00000 (mg/L)	75.79954	12.22
3/3/2022 11:18:43	Blank	Be (313.042 nm)	N/A	0.00000 (mg/L)	252.07539	1.23
3/3/2022 11:18:43	Blank	Ca (373.690 nm)	N/A	0.00000 (mg/L)	200.19479	5.52
3/3/2022 11:18:43	Blank	Cd (228.802 nm)	N/A	0.00000 (mg/L)	16.88150	26.71
3/3/2022 11:18:43	Blank	Co (230.786 nm)	N/A	0.00000 (mg/L)	7.57767	31.98
3/3/2022 11:18:43	Blank	Cr (267.716 nm)	N/A	0.00000 (mg/L)	28.76656	7.10
3/3/2022 11:18:43	Blank	Cu (327.395 nm)	N/A	0.00000 (mg/L)	24.37998	37.08
3/3/2022 11:18:43	Blank	Fe (238.204 nm)	N/A	0.00000 (mg/L)	5984.47962	1.05
3/3/2022 11:18:43	Blank	K (766.491 nm)	N/A	0.00000 (mg/L)	-192.30596	8.83
3/3/2022 11:18:43	Blank	Mg (279.800 nm)	N/A	0.00000 (mg/L)	19.38161	5.73
3/3/2022 11:18:43	Blank	Mn (257.610 nm)	N/A	0.00000 (mg/L)	362.97000	2.46
3/3/2022 11:18:43	Blank	Mo (204.598 nm)	N/A	0.00000 (mg/L)	6.81986	29.09
3/3/2022 11:18:43	Blank	Na (589.592 nm)	N/A	0.00000 (mg/L)	1195.46932	1.95
3/3/2022 11:18:43	Blank	Ni (221.648 nm)	N/A	0.00000 (mg/L)	2.20131	50.48
3/3/2022 11:18:43	Blank	P (213.618 nm)	N/A	0.00000 (mg/L)	1.54821	58.16
3/3/2022 11:18:43	Blank	Pb (220.353 nm)	N/A	0.00000 (mg/L)	6.66197	33.99
3/3/2022 11:18:43	Blank	S (181.972 nm)	N/A	0.00000 (mg/L)	2.28169	58.76
3/3/2022 11:18:43	Blank	Sb (217.582 nm)	N/A	0.00000 (mg/L)	5.58519	11.56
3/3/2022 11:18:43	Blank	Se (196.026 nm)	N/A	0.00000 (mg/L)	4.16342	26.00
3/3/2022 11:18:43	Blank	Sn (189.925 nm)	N/A	0.00000 (mg/L)	3.17408	34.38

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 11:18:43	Blank	Sr (407.771 nm)	N/A	0.00000 (mg/L)	125.52138	18.56
3/3/2022 11:18:43	Blank	Ti (337.280 nm)	N/A	0.00000 (mg/L)	30.21578	9.13
3/3/2022 11:18:43	Blank	Tl (351.923 nm)	N/A	0.00000 (mg/L)	12.91270	34.68
3/3/2022 11:18:43	Blank	V (311.837 nm)	N/A	0.00000 (mg/L)	8.23342	67.49
3/3/2022 11:18:43	Blank	Zn (206.200 nm)	N/A	0.00000 (mg/L)	4.43910	24.21
3/3/2022 11:21:33	ICAL 1	Ag (328.068 nm)	N/A	0.00500 (mg/L)	184.58608	3.50
3/3/2022 11:21:33	ICAL 1	Al (308.215 nm)	N/A	0.20000 (mg/L)	1299.42350	0.31
3/3/2022 11:21:33	ICAL 1	As (193.696 nm)	N/A	0.05000 (mg/L)	28.65602	9.13
3/3/2022 11:21:33	ICAL 1	B (249.772 nm)	N/A	0.05000 (mg/L)	1708.40689	0.83
3/3/2022 11:21:33	ICAL 1	Ba (413.064 nm)	N/A	0.01000 (mg/L)	195.22422	6.87
3/3/2022 11:21:33	ICAL 1	Be (313.042 nm)	N/A	0.00500 (mg/L)	10896.59871	0.59
3/3/2022 11:21:33	ICAL 1	Ca (373.690 nm)	N/A	0.10000 (mg/L)	1001.24216	1.56
3/3/2022 11:21:33	ICAL 1	Cd (228.802 nm)	N/A	0.00500 (mg/L)	154.42181	3.25
3/3/2022 11:21:33	ICAL 1	Co (230.786 nm)	N/A	0.01000 (mg/L)	106.49072	4.72
3/3/2022 11:21:33	ICAL 1	Cr (267.716 nm)	N/A	0.01000 (mg/L)	246.34008	1.86
3/3/2022 11:21:33	ICAL 1	Cu (327.395 nm)	N/A	0.01000 (mg/L)	323.62622	2.30
3/3/2022 11:21:33	ICAL 1	Fe (238.204 nm)	N/A	0.10000 (mg/L)	9310.99126	0.81
3/3/2022 11:21:33	ICAL 1	K (766.491 nm)	N/A	0.50000 (mg/L)	473.62327	5.04
3/3/2022 11:21:33	ICAL 1	Mg (279.800 nm)	N/A	0.10000 (mg/L)	189.58061	0.60
3/3/2022 11:21:33	ICAL 1	Mn (257.610 nm)	N/A	0.00500 (mg/L)	1307.13268	0.87
3/3/2022 11:21:33	ICAL 1	Mo (204.598 nm)	N/A	0.05000 (mg/L)	175.74046	0.56
3/3/2022 11:21:33	ICAL 1	Na (589.592 nm)	N/A	1.00000 (mg/L)	7975.44413	0.30
3/3/2022 11:21:33	ICAL 1	Ni (221.648 nm)	N/A	0.02000 (mg/L)	33.48582	6.18
3/3/2022 11:21:33	ICAL 1	P (213.618 nm)	N/A	0.05000 (mg/L)	53.08668	4.68
3/3/2022 11:21:33	ICAL 1	Pb (220.353 nm)	N/A	0.01000 (mg/L)	26.05082	5.33
3/3/2022 11:21:33	ICAL 1	S (181.972 nm)	N/A	0.05000 (mg/L)	5.98992	26.39
3/3/2022 11:21:33	ICAL 1	Sb (217.582 nm)	N/A	0.02000 (mg/L)	18.25703	4.64
3/3/2022 11:21:33	ICAL 1	Se (196.026 nm)	N/A	0.02000 (mg/L)	20.33529	6.99
3/3/2022 11:21:33	ICAL 1	Sn (189.925 nm)	N/A	0.05000 (mg/L)	37.72791	4.52
3/3/2022 11:21:33	ICAL 1	Sr (407.771 nm)	N/A	0.05000 (mg/L)	41077.63624	0.53
3/3/2022 11:21:33	ICAL 1	Ti (337.280 nm)	N/A	0.05000 (mg/L)	1563.05892	0.64
3/3/2022 11:21:33	ICAL 1	Tl (351.923 nm)	N/A	0.02000 (mg/L)	21.92479	6.37
3/3/2022 11:21:33	ICAL 1	V (311.837 nm)	N/A	0.01000 (mg/L)	448.19822	0.53
3/3/2022 11:21:33	ICAL 1	Zn (206.200 nm)	N/A	0.02000 (mg/L)	51.95952	1.21
3/3/2022 11:24:23	ICAL 2	Ag (328.068 nm)	N/A	0.10000 (mg/L)	4167.41764	0.53
3/3/2022 11:24:23	ICAL 2	Al (308.215 nm)	N/A	10.00000 (mg/L)	44641.82916	0.79
3/3/2022 11:24:23	ICAL 2	As (193.696 nm)	N/A	1.00000 (mg/L)	506.29142	0.64
3/3/2022 11:24:23	ICAL 2	B (249.772 nm)	N/A	1.00000 (mg/L)	30281.42597	0.73
3/3/2022 11:24:23	ICAL 2	Ba (413.064 nm)	N/A	1.00000 (mg/L)	12487.61563	0.54
3/3/2022 11:24:23	ICAL 2	Be (313.042 nm)	N/A	1.00000 (mg/L)	2252526.01150	1.07
3/3/2022 11:24:23	ICAL 2	Ca (373.690 nm)	N/A	10.00000 (mg/L)	66950.74278	0.71
3/3/2022 11:24:23	ICAL 2	Cd (228.802 nm)	N/A	1.00000 (mg/L)	27724.47593	0.76
3/3/2022 11:24:23	ICAL 2	Co (230.786 nm)	N/A	1.00000 (mg/L)	9855.51186	0.67
3/3/2022 11:24:23	ICAL 2	Cr (267.716 nm)	N/A	1.00000 (mg/L)	22899.29033	0.84
3/3/2022 11:24:23	ICAL 2	Cu (327.395 nm)	N/A	1.00000 (mg/L)	28390.43067	0.96
3/3/2022 11:24:23	ICAL 2	Fe (238.204 nm)	N/A	10.00000 (mg/L)	358824.38707	0.81
3/3/2022 11:24:23	ICAL 2	K (766.491 nm)	N/A	10.00000 (mg/L)	13507.24800	0.48
3/3/2022 11:24:23	ICAL 2	Mg (279.800 nm)	N/A	10.00000 (mg/L)	17521.77845	0.66

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 11:24:23	ICAL 2	Mn (257.610 nm)	N/A	1.00000 (mg/L)	189833.90486	0.74
3/3/2022 11:24:23	ICAL 2	Mo (204.598 nm)	N/A	1.00000 (mg/L)	3662.55871	1.67
3/3/2022 11:24:23	ICAL 2	Na (589.592 nm)	N/A	10.00000 (mg/L)	76641.93940	0.49
3/3/2022 11:24:23	ICAL 2	Ni (221.648 nm)	N/A	1.00000 (mg/L)	1563.26850	0.71
3/3/2022 11:24:23	ICAL 2	P (213.618 nm)	N/A	1.00000 (mg/L)	977.74563	0.80
3/3/2022 11:24:23	ICAL 2	Pb (220.353 nm)	N/A	1.00000 (mg/L)	2275.93133	0.59
3/3/2022 11:24:23	ICAL 2	S (181.972 nm)	N/A	1.00000 (mg/L)	67.41240	1.68
3/3/2022 11:24:23	ICAL 2	Sb (217.582 nm)	N/A	1.00000 (mg/L)	799.50927	0.83
3/3/2022 11:24:23	ICAL 2	Se (196.026 nm)	N/A	1.00000 (mg/L)	747.91509	1.75
3/3/2022 11:24:23	ICAL 2	Sn (189.925 nm)	N/A	1.00000 (mg/L)	719.51619	1.54
3/3/2022 11:24:23	ICAL 2	Sr (407.771 nm)	N/A	1.00000 (mg/L)	818508.00562	1.23
3/3/2022 11:24:23	ICAL 2	Ti (337.280 nm)	N/A	1.00000 (mg/L)	32691.46104	0.79
3/3/2022 11:24:23	ICAL 2	Tl (351.923 nm)	N/A	1.00000 (mg/L)	1056.19714	1.40
3/3/2022 11:24:23	ICAL 2	V (311.837 nm)	N/A	1.00000 (mg/L)	50188.19990	0.72
3/3/2022 11:24:23	ICAL 2	Zn (206.200 nm)	N/A	1.00000 (mg/L)	1771.34672	0.83
3/3/2022 11:27:44	ICAL 3	Ag (328.068 nm)	N/A	0.20000 (mg/L)	8325.32765	0.46
3/3/2022 11:27:44	ICAL 3	Al (308.215 nm)	N/A	20.00000 (mg/L)	89724.25426	0.53
3/3/2022 11:27:44	ICAL 3	As (193.696 nm)	N/A	2.00000 (mg/L)	1003.92995	0.70
3/3/2022 11:27:44	ICAL 3	B (249.772 nm)	N/A	2.00000 (mg/L)	60255.62723	0.58
3/3/2022 11:27:44	ICAL 3	Ba (413.064 nm)	N/A	2.00000 (mg/L)	24750.09981	0.49
3/3/2022 11:27:44	ICAL 3	Be (313.042 nm)	N/A	2.00000 (mg/L)	4457558.12688	0.51
3/3/2022 11:27:44	ICAL 3	Ca (373.690 nm)	N/A	20.00000 (mg/L)	133307.87012	0.45
3/3/2022 11:27:44	ICAL 3	Cd (228.802 nm)	N/A	2.00000 (mg/L)	55327.88358	0.55
3/3/2022 11:27:44	ICAL 3	Co (230.786 nm)	N/A	2.00000 (mg/L)	19470.18910	0.56
3/3/2022 11:27:44	ICAL 3	Cr (267.716 nm)	N/A	2.00000 (mg/L)	45243.38861	0.60
3/3/2022 11:27:44	ICAL 3	Cu (327.395 nm)	N/A	2.00000 (mg/L)	56781.05340	0.65
3/3/2022 11:27:44	ICAL 3	Fe (238.204 nm)	N/A	20.00000 (mg/L)	693441.70683	0.57
3/3/2022 11:27:44	ICAL 3	K (766.491 nm)	N/A	20.00000 (mg/L)	27529.26842	0.14
3/3/2022 11:27:44	ICAL 3	Mg (279.800 nm)	N/A	20.00000 (mg/L)	34955.15608	0.47
3/3/2022 11:27:44	ICAL 3	Mn (257.610 nm)	N/A	2.00000 (mg/L)	377088.25699	0.61
3/3/2022 11:27:44	ICAL 3	Mo (204.598 nm)	N/A	2.00000 (mg/L)	7170.64119	1.23
3/3/2022 11:27:44	ICAL 3	Na (589.592 nm)	N/A	20.00000 (mg/L)	154023.08361	0.26
3/3/2022 11:27:44	ICAL 3	Ni (221.648 nm)	N/A	2.00000 (mg/L)	3068.05286	0.52
3/3/2022 11:27:44	ICAL 3	P (213.618 nm)	N/A	2.00000 (mg/L)	1906.04975	0.52
3/3/2022 11:27:44	ICAL 3	Pb (220.353 nm)	N/A	2.00000 (mg/L)	4485.84181	0.55
3/3/2022 11:27:44	ICAL 3	S (181.972 nm)	N/A	2.00000 (mg/L)	129.97022	1.73
3/3/2022 11:27:44	ICAL 3	Sb (217.582 nm)	N/A	2.00000 (mg/L)	1581.16595	0.57
3/3/2022 11:27:44	ICAL 3	Se (196.026 nm)	N/A	2.00000 (mg/L)	1489.58014	0.55
3/3/2022 11:27:44	ICAL 3	Sn (189.925 nm)	N/A	2.00000 (mg/L)	1399.31033	0.31
3/3/2022 11:27:44	ICAL 3	Sr (407.771 nm)	N/A	2.00000 (mg/L)	1606874.74494	0.51
3/3/2022 11:27:44	ICAL 3	Ti (337.280 nm)	N/A	2.00000 (mg/L)	64169.98834	0.65
3/3/2022 11:27:44	ICAL 3	Tl (351.923 nm)	N/A	2.00000 (mg/L)	2128.28956	0.77
3/3/2022 11:27:44	ICAL 3	V (311.837 nm)	N/A	2.00000 (mg/L)	99738.79953	0.52
3/3/2022 11:27:44	ICAL 3	Zn (206.200 nm)	N/A	2.00000 (mg/L)	3503.39687	0.80
3/3/2022 11:30:35	Lab Control Sample	Ag (328.068 nm)	0.29	0.19895 (mg/L)	8266.73838	0.29
3/3/2022 11:30:35	Lab Control Sample	Al (308.215 nm)	0.45	19.91434 (mg/L)	89169.31829	0.45
3/3/2022 11:30:35	Lab Control Sample	As (193.696 nm)	0.18	1.97211 (mg/L)	992.03353	0.18
3/3/2022 11:30:35	Lab Control Sample	B (249.772 nm)	0.40	1.96554 (mg/L)	59914.64087	0.40

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 11:30:35	Lab Control Sample	Ba (413.064 nm)	0.36	1.98505 (mg/L)	24595.29175	0.36
3/3/2022 11:30:35	Lab Control Sample	Be (313.042 nm)	0.43	1.98223 (mg/L)	4427322.79008	0.43
3/3/2022 11:30:35	Lab Control Sample	Ca (373.690 nm)	0.40	19.84414 (mg/L)	132828.85935	0.40
3/3/2022 11:30:35	Lab Control Sample	Cd (228.802 nm)	0.45	1.99174 (mg/L)	55120.13173	0.45
3/3/2022 11:30:35	Lab Control Sample	Co (230.786 nm)	0.47	1.97861 (mg/L)	19308.18103	0.47
3/3/2022 11:30:35	Lab Control Sample	Cr (267.716 nm)	0.46	1.98459 (mg/L)	44999.36880	0.46
3/3/2022 11:30:35	Lab Control Sample	Cu (327.395 nm)	0.59	1.99257 (mg/L)	56565.38519	0.59
3/3/2022 11:30:35	Lab Control Sample	Fe (238.204 nm)	0.58	19.75625 (mg/L)	690030.67150	0.57
3/3/2022 11:30:35	Lab Control Sample	K (766.491 nm)	0.23	19.91451 (mg/L)	27383.86435	0.24
3/3/2022 11:30:35	Lab Control Sample	Mg (279.800 nm)	0.30	19.90947 (mg/L)	34683.08431	0.30
3/3/2022 11:30:35	Lab Control Sample	Mn (257.610 nm)	0.40	1.98845 (mg/L)	375353.83577	0.40
3/3/2022 11:30:35	Lab Control Sample	Mo (204.598 nm)	0.72	2.08133 (mg/L)	7148.25907	0.72
3/3/2022 11:30:35	Lab Control Sample	Na (589.592 nm)	0.27	20.39838 (mg/L)	152875.80783	0.27
3/3/2022 11:30:35	Lab Control Sample	Ni (221.648 nm)	0.42	1.97890 (mg/L)	3046.85375	0.42
3/3/2022 11:30:35	Lab Control Sample	P (213.618 nm)	0.23	1.96249 (mg/L)	1884.49617	0.23
3/3/2022 11:30:35	Lab Control Sample	Pb (220.353 nm)	0.30	1.98063 (mg/L)	4454.19798	0.30
3/3/2022 11:30:35	Lab Control Sample	S (181.972 nm)	1.08	1.96309 (mg/L)	128.66448	1.06
3/3/2022 11:30:35	Lab Control Sample	Sb (217.582 nm)	0.42	1.97778 (mg/L)	1566.30009	0.42
3/3/2022 11:30:35	Lab Control Sample	Se (196.026 nm)	0.31	1.98601 (mg/L)	1479.61606	0.31
3/3/2022 11:30:35	Lab Control Sample	Sn (189.925 nm)	0.19	1.98432 (mg/L)	1395.60742	0.18
3/3/2022 11:30:35	Lab Control Sample	Sr (407.771 nm)	1.23	2.01821 (mg/L)	1639795.05243	1.23
3/3/2022 11:30:35	Lab Control Sample	Ti (337.280 nm)	0.40	1.97980 (mg/L)	63754.83995	0.40
3/3/2022 11:30:35	Lab Control Sample	Tl (351.923 nm)	0.77	2.00350 (mg/L)	2128.98684	0.77
3/3/2022 11:30:35	Lab Control Sample	V (311.837 nm)	0.45	1.98644 (mg/L)	99187.29165	0.45
3/3/2022 11:30:35	Lab Control Sample	Zn (206.200 nm)	0.61	1.98259 (mg/L)	3478.19880	0.61
3/3/2022 11:39:08	Initial Calib Verif	Ag (328.068 nm)	0.95	0.04952 (mg/L)	2064.16999	0.94
3/3/2022 11:39:08	Initial Calib Verif	Al (308.215 nm)	0.71	4.82425 (mg/L)	21923.09002	0.69
3/3/2022 11:39:08	Initial Calib Verif	As (193.696 nm)	1.26	0.48788 (mg/L)	248.95178	1.23
3/3/2022 11:39:08	Initial Calib Verif	B (249.772 nm)	0.76	0.48771 (mg/L)	14955.12194	0.75
3/3/2022 11:39:08	Initial Calib Verif	Ba (413.064 nm)	0.56	0.49460 (mg/L)	6185.11342	0.55
3/3/2022 11:39:08	Initial Calib Verif	Be (313.042 nm)	0.85	0.49629 (mg/L)	1108655.12878	0.85
3/3/2022 11:39:08	Initial Calib Verif	Ca (373.690 nm)	0.54	4.86889 (mg/L)	32774.83899	0.54
3/3/2022 11:39:08	Initial Calib Verif	Cd (228.802 nm)	0.25	0.49143 (mg/L)	13612.66991	0.25
3/3/2022 11:39:08	Initial Calib Verif	Co (230.786 nm)	0.75	0.50109 (mg/L)	4895.48021	0.75
3/3/2022 11:39:08	Initial Calib Verif	Cr (267.716 nm)	0.56	0.49495 (mg/L)	11244.33529	0.56
3/3/2022 11:39:08	Initial Calib Verif	Cu (327.395 nm)	0.54	0.48788 (mg/L)	13868.41437	0.54
3/3/2022 11:39:08	Initial Calib Verif	Fe (238.204 nm)	0.63	5.04927 (mg/L)	180770.79811	0.61
3/3/2022 11:39:08	Initial Calib Verif	K (766.491 nm)	0.02	4.75108 (mg/L)	6386.65080	0.02
3/3/2022 11:39:08	Initial Calib Verif	Mg (279.800 nm)	0.54	4.90912 (mg/L)	8565.05378	0.54
3/3/2022 11:39:08	Initial Calib Verif	Mn (257.610 nm)	0.53	0.49526 (mg/L)	93762.04478	0.53
3/3/2022 11:39:08	Initial Calib Verif	Mo (204.598 nm)	1.13	0.51604 (mg/L)	1777.43984	1.12
3/3/2022 11:39:08	Initial Calib Verif	Na (589.592 nm)	0.48	4.75317 (mg/L)	36299.68106	0.47
3/3/2022 11:39:08	Initial Calib Verif	Ni (221.648 nm)	0.68	0.50195 (mg/L)	774.47881	0.68
3/3/2022 11:39:08	Initial Calib Verif	P (213.618 nm)	0.89	0.51337 (mg/L)	494.47730	0.88
3/3/2022 11:39:08	Initial Calib Verif	Pb (220.353 nm)	0.87	0.49470 (mg/L)	1117.51412	0.87
3/3/2022 11:39:08	Initial Calib Verif	S (181.972 nm)	3.94	0.48311 (mg/L)	33.70713	3.62
3/3/2022 11:39:08	Initial Calib Verif	Sb (217.582 nm)	0.88	0.49009 (mg/L)	391.47868	0.87
3/3/2022 11:39:08	Initial Calib Verif	Se (196.026 nm)	0.64	0.50015 (mg/L)	375.73296	0.63

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 11:39:08	Initial Calib Verif	Sn (189.925 nm)	0.09	0.49481 (mg/L)	350.38915	0.09
3/3/2022 11:39:08	Initial Calib Verif	Sr (407.771 nm)	0.35	0.49051 (mg/L)	398540.15986	0.35
3/3/2022 11:39:08	Initial Calib Verif	Ti (337.280 nm)	0.68	0.48897 (mg/L)	15769.03567	0.68
3/3/2022 11:39:08	Initial Calib Verif	Tl (351.923 nm)	1.07	0.48678 (mg/L)	517.26907	1.07
3/3/2022 11:39:08	Initial Calib Verif	V (311.837 nm)	0.71	0.49127 (mg/L)	24536.25147	0.71
3/3/2022 11:39:08	Initial Calib Verif	Zn (206.200 nm)	0.37	0.49901 (mg/L)	885.40142	0.37
3/3/2022 11:45:22	Initial Calib Blank	Ag (328.068 nm)	75.83	-0.00016 u (mg/L)	1.65599	> 100.00
3/3/2022 11:45:22	Initial Calib Blank	Al (308.215 nm)	3.29	0.03481 (mg/L)	579.83414	0.88
3/3/2022 11:45:22	Initial Calib Blank	As (193.696 nm)	> 100.00	0.00164 u (mg/L)	5.51327	14.96
3/3/2022 11:45:22	Initial Calib Blank	B (249.772 nm)	17.63	0.00177 (mg/L)	171.38034	5.52
3/3/2022 11:45:22	Initial Calib Blank	Ba (413.064 nm)	68.64	0.00081 (mg/L)	85.85434	8.04
3/3/2022 11:45:22	Initial Calib Blank	Be (313.042 nm)	1.75	0.00035 (mg/L)	1027.08367	1.32
3/3/2022 11:45:22	Initial Calib Blank	Ca (373.690 nm)	18.90	-0.00705 u (mg/L)	197.30330	4.51
3/3/2022 11:45:22	Initial Calib Blank	Cd (228.802 nm)	64.70	-0.00009 u (mg/L)	14.44046	10.94
3/3/2022 11:45:22	Initial Calib Blank	Co (230.786 nm)	40.98	0.00077 (mg/L)	15.05559	20.36
3/3/2022 11:45:22	Initial Calib Blank	Cr (267.716 nm)	> 100.00	-0.00010 u (mg/L)	26.53517	10.93
3/3/2022 11:45:22	Initial Calib Blank	Cu (327.395 nm)	23.83	0.00080 (mg/L)	47.20753	11.52
3/3/2022 11:45:22	Initial Calib Blank	Fe (238.204 nm)	26.21	-0.01026 u (mg/L)	5574.06220	1.67
3/3/2022 11:45:22	Initial Calib Blank	K (766.491 nm)	96.79	0.01338 u (mg/L)	-173.77511	10.32
3/3/2022 11:45:22	Initial Calib Blank	Mg (279.800 nm)	> 100.00	-0.00032 u (mg/L)	16.92127	19.93
3/3/2022 11:45:22	Initial Calib Blank	Mn (257.610 nm)	> 100.00	-0.00005 u (mg/L)	353.12352	2.99
3/3/2022 11:45:22	Initial Calib Blank	Mo (204.598 nm)	20.65	0.00103 (mg/L)	10.33761	7.03
3/3/2022 11:45:22	Initial Calib Blank	Na (589.592 nm)	4.38	0.04141 (mg/L)	1191.22558	1.13
3/3/2022 11:45:22	Initial Calib Blank	Ni (221.648 nm)	42.02	0.00072 (mg/L)	3.30149	14.00
3/3/2022 11:45:22	Initial Calib Blank	P (213.618 nm)	71.12	0.00373 (mg/L)	5.62850	45.23
3/3/2022 11:45:22	Initial Calib Blank	Pb (220.353 nm)	64.81	-0.00067 u (mg/L)	5.16642	18.76
3/3/2022 11:45:22	Initial Calib Blank	S (181.972 nm)	> 100.00	-0.00620 u (mg/L)	2.31220	42.42
3/3/2022 11:45:22	Initial Calib Blank	Sb (217.582 nm)	> 100.00	0.00072 u (mg/L)	5.02736	37.95
3/3/2022 11:45:22	Initial Calib Blank	Se (196.026 nm)	> 100.00	0.00208 u (mg/L)	5.70870	37.17
3/3/2022 11:45:22	Initial Calib Blank	Sn (189.925 nm)	> 100.00	0.00127 u (mg/L)	4.06855	29.09
3/3/2022 11:45:22	Initial Calib Blank	Sr (407.771 nm)	11.87	0.00016 (mg/L)	131.68018	11.87
3/3/2022 11:45:22	Initial Calib Blank	Ti (337.280 nm)	> 100.00	-0.00005 u (mg/L)	28.75870	28.89
3/3/2022 11:45:22	Initial Calib Blank	Tl (351.923 nm)	17.29	0.00805 (mg/L)	8.55810	17.29
3/3/2022 11:45:22	Initial Calib Blank	V (311.837 nm)	> 100.00	0.00014 (mg/L)	15.23758	47.80
3/3/2022 11:45:22	Initial Calib Blank	Zn (206.200 nm)	15.29	-0.00579 u (mg/L)	3.18134	48.65
3/3/2022 11:48:12	CRI	Ag (328.068 nm)	4.42	0.00410 (mg/L)	178.71296	4.21
3/3/2022 11:48:12	CRI	Al (308.215 nm)	1.13	0.21031 (mg/L)	1361.88483	0.77
3/3/2022 11:48:12	CRI	As (193.696 nm)	3.29	0.04933 (mg/L)	29.38773	2.76
3/3/2022 11:48:12	CRI	B (249.772 nm)	0.70	0.05409 (mg/L)	1763.20836	0.65
3/3/2022 11:48:12	CRI	Ba (413.064 nm)	3.66	0.01079 (mg/L)	209.05609	2.33
3/3/2022 11:48:12	CRI	Be (313.042 nm)	0.76	0.00409 (mg/L)	9385.52949	0.74
3/3/2022 11:48:12	CRI	Ca (373.690 nm)	2.03	0.11373 (mg/L)	1004.24280	1.54
3/3/2022 11:48:12	CRI	Cd (228.802 nm)	3.51	0.00511 (mg/L)	158.28505	3.14
3/3/2022 11:48:12	CRI	Co (230.786 nm)	2.16	0.01036 (mg/L)	108.61161	2.01
3/3/2022 11:48:12	CRI	Cr (267.716 nm)	1.88	0.00993 (mg/L)	253.71252	1.67
3/3/2022 11:48:12	CRI	Cu (327.395 nm)	4.21	0.01149 (mg/L)	350.45357	3.91
3/3/2022 11:48:12	CRI	Fe (238.204 nm)	1.02	0.08859 (mg/L)	8996.89887	0.35
3/3/2022 11:48:12	CRI	K (766.491 nm)	2.41	0.49424 (mg/L)	492.08229	3.35

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 11:48:12	CRI	Mg (279.800 nm)	0.34	0.10133 (mg/L)	193.90572	0.31
3/3/2022 11:48:12	CRI	Mn (257.610 nm)	0.59	0.00496 (mg/L)	1298.03662	0.43
3/3/2022 11:48:12	CRI	Mo (204.598 nm)	2.01	0.05094 (mg/L)	181.59337	1.93
3/3/2022 11:48:12	CRI	Na (589.592 nm)	0.27	0.96321 (mg/L)	8059.79649	0.24
3/3/2022 11:48:12	CRI	Ni (221.648 nm)	2.97	0.01932 (mg/L)	31.91855	2.77
3/3/2022 11:48:12	CRI	P (213.618 nm)	6.21	0.05264 (mg/L)	52.54164	5.97
3/3/2022 11:48:12	CRI	Pb (220.353 nm)	8.59	0.00921 (mg/L)	27.34076	6.50
3/3/2022 11:48:12	CRI	S (181.972 nm)	> 100.00	0.01306 Ru (mg/L)	3.54804 R	31.95
3/3/2022 11:48:12	CRI	Sb (217.582 nm)	10.08	0.01669 (mg/L)	17.64094	7.53
3/3/2022 11:48:12	CRI	Se (196.026 nm)	7.17	0.02175 (mg/L)	20.32325	5.70
3/3/2022 11:48:12	CRI	Sn (189.925 nm)	2.37	0.04912 (mg/L)	37.64054	2.17
3/3/2022 11:48:12	CRI	Sr (407.771 nm)	0.49	0.05175 (mg/L)	42047.62718	0.49
3/3/2022 11:48:12	CRI	Ti (337.280 nm)	0.60	0.04767 (mg/L)	1564.48801	0.59
3/3/2022 11:48:12	CRI	Tl (351.923 nm)	23.98	0.02357 (mg/L)	25.04600	23.98
3/3/2022 11:48:12	CRI	V (311.837 nm)	1.96	0.00912 (mg/L)	463.39672	1.92
3/3/2022 11:48:12	CRI	Zn (206.200 nm)	3.58	0.02239 (mg/L)	52.42168	2.67
3/3/2022 11:55:37	Interf Check A	Ag (328.068 nm)	> 100.00	0.00017 u (mg/L)	15.69242	66.73
3/3/2022 11:55:37	Interf Check A	Al (308.215 nm)	0.90	273.42342 (mg/L)	1218886.52386	0.90
3/3/2022 11:55:37	Interf Check A	As (193.696 nm)	> 100.00	0.00187 u (mg/L)	5.62902	38.23
3/3/2022 11:55:37	Interf Check A	B (249.772 nm)	3.67	-0.00920 u (mg/L)	-162.21070	6.34
3/3/2022 11:55:37	Interf Check A	Ba (413.064 nm)	28.88	0.00218 (mg/L)	102.73632	7.57
3/3/2022 11:55:37	Interf Check A	Be (313.042 nm)	0.90	0.00030 (mg/L)	918.37272	0.65
3/3/2022 11:55:37	Interf Check A	Ca (373.690 nm)	0.76	248.77971 o (mg/L)	1662414.40298	0.76
3/3/2022 11:55:37	Interf Check A	Cd (228.802 nm)	13.58	0.00109 (mg/L)	47.02338	8.71
3/3/2022 11:55:37	Interf Check A	Co (230.786 nm)	12.63	0.00331 (mg/L)	39.85148	10.23
3/3/2022 11:55:37	Interf Check A	Cr (267.716 nm)	15.86	0.00176 (mg/L)	68.62076	9.21
3/3/2022 11:55:37	Interf Check A	Cu (327.395 nm)	12.64	0.00157 (mg/L)	68.81609	8.16
3/3/2022 11:55:37	Interf Check A	Fe (238.204 nm)	0.99	90.99821 (mg/L)	3156931.02086	0.99
3/3/2022 11:55:37	Interf Check A	K (766.491 nm)	37.86	-0.06195 u (mg/L)	-278.08852	11.68
3/3/2022 11:55:37	Interf Check A	Mg (279.800 nm)	0.81	269.60062 o (mg/L)	469435.88373	0.81
3/3/2022 11:55:37	Interf Check A	Mn (257.610 nm)	3.97	0.00072 (mg/L)	498.78778	1.08
3/3/2022 11:55:37	Interf Check A	Mo (204.598 nm)	8.22	0.00841 (mg/L)	35.67416	6.65
3/3/2022 11:55:37	Interf Check A	Na (589.592 nm)	3.33	0.06300 (mg/L)	1352.17087	1.16
3/3/2022 11:55:37	Interf Check A	Ni (221.648 nm)	33.71	0.00611 (mg/L)	11.60751	27.32
3/3/2022 11:55:37	Interf Check A	P (213.618 nm)	29.87	0.00837 (mg/L)	10.08118	23.80
3/3/2022 11:55:37	Interf Check A	Pb (220.353 nm)	> 100.00	-0.00058 u (mg/L)	5.35583	88.82
3/3/2022 11:55:37	Interf Check A	S (181.972 nm)	> 100.00	-0.01294 u (mg/L)	1.87963	> 100.00
3/3/2022 11:55:37	Interf Check A	Sb (217.582 nm)	> 100.00	0.00122 u (mg/L)	5.42708	49.93
3/3/2022 11:55:37	Interf Check A	Se (196.026 nm)	> 100.00	-0.00153 u (mg/L)	3.02522	63.77
3/3/2022 11:55:37	Interf Check A	Sn (189.925 nm)	> 100.00	0.00180 u (mg/L)	4.43547	41.86
3/3/2022 11:55:37	Interf Check A	Sr (407.771 nm)	0.80	0.01403 (mg/L)	11402.39645	0.80
3/3/2022 11:55:37	Interf Check A	Ti (337.280 nm)	52.97	0.00067 (mg/L)	51.74816	22.04
3/3/2022 11:55:37	Interf Check A	Tl (351.923 nm)	44.35	0.01481 (mg/L)	15.73370	44.35
3/3/2022 11:55:37	Interf Check A	V (311.837 nm)	31.09	0.00076 (mg/L)	46.23928	25.55
3/3/2022 11:55:37	Interf Check A	Zn (206.200 nm)	39.23	-0.00178 u (mg/L)	10.18599	11.99
3/3/2022 11:58:29	Interf Check AB	Ag (328.068 nm)	0.37	0.05596 (mg/L)	2331.11511	0.37
3/3/2022 11:58:29	Interf Check AB	Al (308.215 nm)	0.47	290.13659 (mg/L)	1293365.69872	0.47
3/3/2022 11:58:29	Interf Check AB	As (193.696 nm)	2.32	0.51294 (mg/L)	261.49560	2.28

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 11:58:29	Interf Check AB	B (249.772 nm)	0.54	0.53636 (mg/L)	16435.22323	0.54
3/3/2022 11:58:29	Interf Check AB	Ba (413.064 nm)	0.56	0.53059 (mg/L)	6629.64344	0.55
3/3/2022 11:58:29	Interf Check AB	Be (313.042 nm)	0.56	0.53398 (mg/L)	1192827.60854	0.56
3/3/2022 11:58:29	Interf Check AB	Ca (373.690 nm)	0.47	263.73410 o (mg/L)	1762329.05393	0.47
3/3/2022 11:58:29	Interf Check AB	Cd (228.802 nm)	0.86	0.55263 (mg/L)	15305.90106	0.86
3/3/2022 11:58:29	Interf Check AB	Co (230.786 nm)	0.49	0.51148 (mg/L)	4996.84697	0.49
3/3/2022 11:58:29	Interf Check AB	Cr (267.716 nm)	0.61	0.52826 (mg/L)	11999.04571	0.60
3/3/2022 11:58:29	Interf Check AB	Cu (327.395 nm)	0.88	0.55234 (mg/L)	15697.47008	0.88
3/3/2022 11:58:29	Interf Check AB	Fe (238.204 nm)	0.47	98.20464 (mg/L)	3406468.67466	0.47
3/3/2022 11:58:29	Interf Check AB	K (766.491 nm)	0.31	5.99610 (mg/L)	8110.66157	0.32
3/3/2022 11:58:29	Interf Check AB	Mg (279.800 nm)	0.50	285.28489 o (mg/L)	496744.73347	0.50
3/3/2022 11:58:29	Interf Check AB	Mn (257.610 nm)	0.56	0.53291 (mg/L)	100860.53893	0.56
3/3/2022 11:58:29	Interf Check AB	Mo (204.598 nm)	1.21	0.57054 (mg/L)	1964.44779	1.20
3/3/2022 11:58:29	Interf Check AB	Na (589.592 nm)	0.37	5.98507 (mg/L)	45478.88382	0.37
3/3/2022 11:58:29	Interf Check AB	Ni (221.648 nm)	0.76	0.49573 (mg/L)	764.90644	0.76
3/3/2022 11:58:29	Interf Check AB	P (213.618 nm)	0.81	0.54067 (mg/L)	520.66866	0.80
3/3/2022 11:58:29	Interf Check AB	Pb (220.353 nm)	0.29	0.51085 (mg/L)	1153.79391	0.28
3/3/2022 11:58:29	Interf Check AB	S (181.972 nm)	4.84	0.59817 (mg/L)	41.08979	4.52
3/3/2022 11:58:29	Interf Check AB	Sb (217.582 nm)	1.81	0.52246 (mg/L)	417.04303	1.79
3/3/2022 11:58:29	Interf Check AB	Se (196.026 nm)	1.60	0.52139 (mg/L)	391.51912	1.59
3/3/2022 11:58:29	Interf Check AB	Sn (189.925 nm)	1.60	0.53391 (mg/L)	377.82786	1.59
3/3/2022 11:58:29	Interf Check AB	Sr (407.771 nm)	1.16	0.59809 (mg/L)	485945.57027	1.16
3/3/2022 11:58:29	Interf Check AB	Ti (337.280 nm)	0.48	0.53628 (mg/L)	17291.82201	0.48
3/3/2022 11:58:29	Interf Check AB	Tl (351.923 nm)	1.53	0.57714 (mg/L)	613.28475	1.53
3/3/2022 11:58:29	Interf Check AB	V (311.837 nm)	0.59	0.54032 (mg/L)	26985.43321	0.59
3/3/2022 11:58:29	Interf Check AB	Zn (206.200 nm)	1.32	0.49064 (mg/L)	870.77121	1.30
3/3/2022 12:11:14	CRI	Ag (328.068 nm)	3.28	0.00430 (mg/L)	186.95910	3.13
3/3/2022 12:11:14	CRI	Al (308.215 nm)	0.59	0.21611 (mg/L)	1387.73421	0.41
3/3/2022 12:11:14	CRI	As (193.696 nm)	6.73	0.05012 (mg/L)	29.78414	5.67
3/3/2022 12:11:14	CRI	B (249.772 nm)	0.84	0.05356 (mg/L)	1747.21971	0.78
3/3/2022 12:11:14	CRI	Ba (413.064 nm)	1.44	0.01163 (mg/L)	219.39768	0.94
3/3/2022 12:11:14	CRI	Be (313.042 nm)	1.09	0.00408 (mg/L)	9371.66309	1.06
3/3/2022 12:11:14	CRI	Ca (373.690 nm)	0.51	0.11831 (mg/L)	1034.83989	0.39
3/3/2022 12:11:14	CRI	Cd (228.802 nm)	3.57	0.00512 (mg/L)	158.43820	3.19
3/3/2022 12:11:14	CRI	Co (230.786 nm)	2.88	0.01037 (mg/L)	108.75652	2.68
3/3/2022 12:11:14	CRI	Cr (267.716 nm)	2.80	0.00990 (mg/L)	253.15690	2.48
3/3/2022 12:11:14	CRI	Cu (327.395 nm)	1.49	0.01108 (mg/L)	338.85224	1.38
3/3/2022 12:11:14	CRI	Fe (238.204 nm)	2.17	0.08668 (mg/L)	8930.76471	0.73
3/3/2022 12:11:14	CRI	K (766.491 nm)	2.31	0.48807 (mg/L)	483.53341	3.22
3/3/2022 12:11:14	CRI	Mg (279.800 nm)	2.04	0.10551 (mg/L)	201.17500	1.86
3/3/2022 12:11:14	CRI	Mn (257.610 nm)	1.38	0.00492 (mg/L)	1290.46877	0.99
3/3/2022 12:11:14	CRI	Mo (204.598 nm)	0.67	0.05085 (mg/L)	181.30523	0.65
3/3/2022 12:11:14	CRI	Na (589.592 nm)	0.35	0.96151 (mg/L)	8047.17434	0.31
3/3/2022 12:11:14	CRI	Ni (221.648 nm)	4.16	0.01992 (mg/L)	32.85624	3.88
3/3/2022 12:11:14	CRI	P (213.618 nm)	4.12	0.05144 (mg/L)	51.38710	3.95
3/3/2022 12:11:14	CRI	Pb (220.353 nm)	6.75	0.00955 (mg/L)	28.10095	5.15
3/3/2022 12:11:14	CRI	S (181.972 nm)	21.40	0.04018 (mg/L)	5.28840	10.43
3/3/2022 12:11:14	CRI	Sb (217.582 nm)	7.45	0.01771 (mg/L)	18.44369	5.65

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 12:11:14	CRI	Se (196.026 nm)	21.44	0.02261 (mg/L)	20.96189	17.18
3/3/2022 12:11:14	CRI	Sn (189.925 nm)	4.88	0.05229 (mg/L)	39.86344	4.49
3/3/2022 12:11:14	CRI	Sr (407.771 nm)	0.20	0.05255 (mg/L)	42699.95394	0.20
3/3/2022 12:11:14	CRI	Ti (337.280 nm)	1.02	0.04829 (mg/L)	1584.43139	1.00
3/3/2022 12:11:14	CRI	Tl (351.923 nm)	38.35	0.02663 (mg/L)	28.30214	38.35
3/3/2022 12:11:14	CRI	V (311.837 nm)	1.10	0.00901 (mg/L)	457.94846	1.08
3/3/2022 12:11:14	CRI	Zn (206.200 nm)	4.10	0.02156 (mg/L)	50.98653	3.03
3/3/2022 12:14:03	CRI-2	Ag (328.068 nm)	5.93	0.00255 (mg/L)	114.20968	5.49
3/3/2022 12:14:03	CRI-2	Al (308.215 nm)	0.90	0.13916 (mg/L)	1044.82032	0.54
3/3/2022 12:14:03	CRI-2	As (193.696 nm)	9.07	0.02492 (mg/L)	17.16652	6.59
3/3/2022 12:14:03	CRI-2	B (249.772 nm)	0.32	0.02375 (mg/L)	840.25725	0.28
3/3/2022 12:14:03	CRI-2	Ba (413.064 nm)	5.56	0.00558 (mg/L)	144.68621	2.65
3/3/2022 12:14:03	CRI-2	Be (313.042 nm)	0.30	0.00253 (mg/L)	5895.61732	0.28
3/3/2022 12:14:03	CRI-2	Ca (373.690 nm)	2.91	0.04627 (mg/L)	553.53299	1.62
3/3/2022 12:14:03	CRI-2	Cd (228.802 nm)	4.44	0.00279 (mg/L)	94.10793	3.65
3/3/2022 12:14:03	CRI-2	Co (230.786 nm)	1.28	0.00582 (mg/L)	64.32477	1.13
3/3/2022 12:14:03	CRI-2	Cr (267.716 nm)	2.65	0.00522 (mg/L)	147.01233	2.14
3/3/2022 12:14:03	CRI-2	Cu (327.395 nm)	3.85	0.00553 (mg/L)	181.39344	3.34
3/3/2022 12:14:03	CRI-2	Fe (238.204 nm)	6.76	0.03478 (mg/L)	7133.77207	1.14
3/3/2022 12:14:03	CRI-2	K (766.491 nm)	8.69	0.21478 (mg/L)	105.10556	24.58
3/3/2022 12:14:03	CRI-2	Mg (279.800 nm)	2.19	0.05282 (mg/L)	109.43268	1.84
3/3/2022 12:14:03	CRI-2	Mn (257.610 nm)	1.37	0.00394 (mg/L)	1105.92366	0.92
3/3/2022 12:14:03	CRI-2	Mo (204.598 nm)	4.02	0.02667 (mg/L)	98.32909	3.74
3/3/2022 12:14:03	CRI-2	Na (589.592 nm)	0.11	0.38688 (mg/L)	3765.45140	0.08
3/3/2022 12:14:03	CRI-2	Ni (221.648 nm)	4.19	0.00918 (mg/L)	16.32706	3.63
3/3/2022 12:14:03	CRI-2	P (213.618 nm)	13.74	0.02663 (mg/L)	27.59232	12.72
3/3/2022 12:14:03	CRI-2	Pb (220.353 nm)	12.39	0.00652 (mg/L)	21.30973	8.52
3/3/2022 12:14:03	CRI-2	S (181.972 nm)	69.59	0.02374 (mg/L)	4.23363	25.04
3/3/2022 12:14:03	CRI-2	Sb (217.582 nm)	25.49	0.01122 (mg/L)	13.31866	16.95
3/3/2022 12:14:03	CRI-2	Se (196.026 nm)	18.59	0.01342 (mg/L)	14.13393	13.12
3/3/2022 12:14:03	CRI-2	Sn (189.925 nm)	13.54	0.02721 (mg/L)	22.26558	11.61
3/3/2022 12:14:03	CRI-2	Sr (407.771 nm)	1.14	0.02530 (mg/L)	20553.64283	1.14
3/3/2022 12:14:03	CRI-2	Ti (337.280 nm)	1.15	0.02508 (mg/L)	837.52753	1.11
3/3/2022 12:14:03	CRI-2	Tl (351.923 nm)	18.15	0.02071 (mg/L)	22.00925	18.15
3/3/2022 12:14:03	CRI-2	V (311.837 nm)	1.94	0.00479 (mg/L)	247.56313	1.88
3/3/2022 12:14:03	CRI-2	Zn (206.200 nm)	20.71	0.00707 (mg/L)	25.66239	9.98
3/3/2022 12:16:52	CRI-5	Ag (328.068 nm)	25.74	0.00100 (mg/L)	50.11380	21.37
3/3/2022 12:16:52	CRI-5	Al (308.215 nm)	0.59	0.06388 (mg/L)	709.37296	0.24
3/3/2022 12:16:52	CRI-5	As (193.696 nm)	19.94	0.01125 (mg/L)	10.32619	10.88
3/3/2022 12:16:52	CRI-5	B (249.772 nm)	1.97	0.01073 (mg/L)	444.23925	1.45
3/3/2022 12:16:52	CRI-5	Ba (413.064 nm)	23.55	0.00231 (mg/L)	104.38740	6.45
3/3/2022 12:16:52	CRI-5	Be (313.042 nm)	1.06	0.00116 (mg/L)	2839.45495	0.96
3/3/2022 12:16:52	CRI-5	Ca (373.690 nm)	3.93	0.01791 (mg/L)	364.02742	1.29
3/3/2022 12:16:52	CRI-5	Cd (228.802 nm)	21.17	0.00107 (mg/L)	46.47526	13.48
3/3/2022 12:16:52	CRI-5	Co (230.786 nm)	8.40	0.00290 (mg/L)	35.89610	6.63
3/3/2022 12:16:52	CRI-5	Cr (267.716 nm)	5.47	0.00214 (mg/L)	77.34140	3.44
3/3/2022 12:16:52	CRI-5	Cu (327.395 nm)	7.98	0.00212 (mg/L)	84.62984	5.68
3/3/2022 12:16:52	CRI-5	Fe (238.204 nm)	13.38	0.01137 (mg/L)	6323.08304	0.83

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 12:16:52	CRI-5	K (766.491 nm)	23.93	0.09753 (mg/L)	-57.25259	56.44
3/3/2022 12:16:52	CRI-5	Mg (279.800 nm)	10.36	0.02111 (mg/L)	54.22592	7.02
3/3/2022 12:16:52	CRI-5	Mn (257.610 nm)	5.42	0.00106 (mg/L)	561.94057	1.92
3/3/2022 12:16:52	CRI-5	Mo (204.598 nm)	8.26	0.01156 (mg/L)	46.48815	7.05
3/3/2022 12:16:52	CRI-5	Na (589.592 nm)	1.07	0.20513 (mg/L)	2411.16420	0.68
3/3/2022 12:16:52	CRI-5	Ni (221.648 nm)	29.94	0.00305 (mg/L)	6.89738	20.39
3/3/2022 12:16:52	CRI-5	P (213.618 nm)	40.73	0.00400 (mg/L)	5.88812	26.56
3/3/2022 12:16:52	CRI-5	Pb (220.353 nm)	16.45	0.00263 (mg/L)	12.55971	7.73
3/3/2022 12:16:52	CRI-5	S (181.972 nm)	> 100.00	-0.00436 u (mg/L)	2.43034	73.00
3/3/2022 12:16:52	CRI-5	Sb (217.582 nm)	31.81	0.00291 (mg/L)	6.75817	10.82
3/3/2022 12:16:52	CRI-5	Se (196.026 nm)	77.33	0.00247 (mg/L)	5.99729	23.65
3/3/2022 12:16:52	CRI-5	Sn (189.925 nm)	19.27	0.01003 (mg/L)	10.21119	13.28
3/3/2022 12:16:52	CRI-5	Sr (407.771 nm)	0.97	0.01027 (mg/L)	8345.96219	0.97
3/3/2022 12:16:52	CRI-5	Ti (337.280 nm)	0.76	0.00968 (mg/L)	341.82831	0.69
3/3/2022 12:16:52	CRI-5	Tl (351.923 nm)	9.60	0.01377 (mg/L)	14.63354	9.60
3/3/2022 12:16:52	CRI-5	V (311.837 nm)	2.96	0.00147 (mg/L)	81.71316	2.66
3/3/2022 12:16:52	CRI-5	Zn (206.200 nm)	> 100.00	0.00073 u (mg/L)	14.56925	12.75
3/3/2022 12:21:37	CRI-MIDLEVEL	Ag (328.068 nm)	0.82	0.09940 (mg/L)	4134.61486	0.82
3/3/2022 12:21:37	CRI-MIDLEVEL	Al (308.215 nm)	0.72	9.84988 (mg/L)	44318.90889	0.71
3/3/2022 12:21:37	CRI-MIDLEVEL	As (193.696 nm)	0.90	0.99024 (mg/L)	500.45701	0.89
3/3/2022 12:21:37	CRI-MIDLEVEL	B (249.772 nm)	0.70	0.98802 (mg/L)	30175.80678	0.70
3/3/2022 12:21:37	CRI-MIDLEVEL	Ba (413.064 nm)	0.58	0.99955 (mg/L)	12422.33764	0.57
3/3/2022 12:21:37	CRI-MIDLEVEL	Be (313.042 nm)	0.78	0.99944 (mg/L)	2232367.95960	0.78
3/3/2022 12:21:37	CRI-MIDLEVEL	Ca (373.690 nm)	0.61	9.92368 (mg/L)	66547.38562	0.60
3/3/2022 12:21:37	CRI-MIDLEVEL	Cd (228.802 nm)	0.66	0.99586 (mg/L)	27568.36746	0.66
3/3/2022 12:21:37	CRI-MIDLEVEL	Co (230.786 nm)	0.68	1.00449 (mg/L)	9806.04186	0.68
3/3/2022 12:21:37	CRI-MIDLEVEL	Cr (267.716 nm)	0.67	1.00659 (mg/L)	22837.93625	0.67
3/3/2022 12:21:37	CRI-MIDLEVEL	Cu (327.395 nm)	0.76	0.99177 (mg/L)	28166.68409	0.76
3/3/2022 12:21:37	CRI-MIDLEVEL	Fe (238.204 nm)	0.74	10.14049 (mg/L)	357065.06414	0.73
3/3/2022 12:21:37	CRI-MIDLEVEL	K (766.491 nm)	0.45	9.79161 (mg/L)	13366.40053	0.45
3/3/2022 12:21:37	CRI-MIDLEVEL	Mg (279.800 nm)	0.60	10.01952 (mg/L)	17463.08823	0.60
3/3/2022 12:21:37	CRI-MIDLEVEL	Mn (257.610 nm)	0.60	1.00308 (mg/L)	189528.87998	0.60
3/3/2022 12:21:37	CRI-MIDLEVEL	Mo (204.598 nm)	1.33	1.05771 (mg/L)	3636.02182	1.33
3/3/2022 12:21:37	CRI-MIDLEVEL	Na (589.592 nm)	0.45	10.06970 (mg/L)	75914.42679	0.44
3/3/2022 12:21:37	CRI-MIDLEVEL	Ni (221.648 nm)	0.79	1.00864 (mg/L)	1554.04501	0.79
3/3/2022 12:21:37	CRI-MIDLEVEL	P (213.618 nm)	0.96	1.00510 (mg/L)	966.15993	0.96
3/3/2022 12:21:37	CRI-MIDLEVEL	Pb (220.353 nm)	0.73	1.00656 (mg/L)	2266.92067	0.73
3/3/2022 12:21:37	CRI-MIDLEVEL	S (181.972 nm)	1.04	0.99636 (mg/L)	66.63768	0.99
3/3/2022 12:21:37	CRI-MIDLEVEL	Sb (217.582 nm)	0.50	1.00529 (mg/L)	798.33571	0.49
3/3/2022 12:21:37	CRI-MIDLEVEL	Se (196.026 nm)	1.48	0.98928 (mg/L)	739.12057	1.47
3/3/2022 12:21:37	CRI-MIDLEVEL	Sn (189.925 nm)	0.40	1.02005 (mg/L)	718.95953	0.40
3/3/2022 12:21:37	CRI-MIDLEVEL	Sr (407.771 nm)	0.71	1.00004 (mg/L)	812534.59927	0.71
3/3/2022 12:21:37	CRI-MIDLEVEL	Ti (337.280 nm)	0.66	1.00759 (mg/L)	32461.77650	0.66
3/3/2022 12:21:37	CRI-MIDLEVEL	Tl (351.923 nm)	1.40	0.98101 (mg/L)	1042.45519	1.40
3/3/2022 12:21:37	CRI-MIDLEVEL	V (311.837 nm)	0.70	0.99804 (mg/L)	49838.44184	0.70
3/3/2022 12:21:37	CRI-MIDLEVEL	Zn (206.200 nm)	1.05	0.99717 (mg/L)	1756.02416	1.04
3/3/2022 12:27:03	LCR 1	Ag (328.068 nm)	1.01	0.96882 (mg/L)	40222.63281	1.01
3/3/2022 12:27:03	LCR 1	Al (308.215 nm)	0.87	224.31440 (mg/L)	1000041.08464	0.87

220303A.esws

Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 12:27:03	LCR 1	As (193.696 nm)	0.47	20.73109 (mg/L)	10383.73391	0.47
3/3/2022 12:27:03	LCR 1	B (249.772 nm)	3.89	-0.02463 u (mg/L)	-631.50474	4.61
3/3/2022 12:27:03	LCR 1	Ba (413.064 nm)	0.60	20.08913 (mg/L)	248218.21067	0.60
3/3/2022 12:27:03	LCR 1	Be (313.042 nm)	N/A	#### (mg/L)	####	N/A
3/3/2022 12:27:03	LCR 1	Ca (373.690 nm)	0.49	210.02981 o (mg/L)	1403514.95426	0.49
3/3/2022 12:27:03	LCR 1	Cd (228.802 nm)	1.08	20.59941 o (mg/L)	569918.62562	1.08
3/3/2022 12:27:03	LCR 1	Co (230.786 nm)	0.64	19.66451 (mg/L)	191827.69902	0.64
3/3/2022 12:27:03	LCR 1	Cr (267.716 nm)	0.70	20.09615 (mg/L)	455406.26353	0.70
3/3/2022 12:27:03	LCR 1	Cu (327.395 nm)	0.57	21.31804 (mg/L)	604943.26049	0.57
3/3/2022 12:27:03	LCR 1	Fe (238.204 nm)	0.29	167.62273 o (mg/L)	5810214.10847	0.29
3/3/2022 12:27:03	LCR 1	K (766.491 nm)	0.34	226.02584 o (mg/L)	312791.91159	0.34
3/3/2022 12:27:03	LCR 1	Mg (279.800 nm)	0.49	211.65931 o (mg/L)	368550.65713	0.49
3/3/2022 12:27:03	LCR 1	Mn (257.610 nm)	0.59	19.43099 (mg/L)	3664742.62035	0.59
3/3/2022 12:27:03	LCR 1	Mo (204.598 nm)	0.67	21.88328 (mg/L)	75092.67381	0.67
3/3/2022 12:27:03	LCR 1	Na (589.592 nm)	0.48	221.41423 o (mg/L)	1650691.97811	0.48
3/3/2022 12:27:03	LCR 1	Ni (221.648 nm)	0.55	19.17664 (mg/L)	29506.54174	0.55
3/3/2022 12:27:03	LCR 1	P (213.618 nm)	5.96	0.18291 (mg/L)	177.49457	5.89
3/3/2022 12:27:03	LCR 1	Pb (220.353 nm)	0.58	19.69566 (mg/L)	44233.64986	0.58
3/3/2022 12:27:03	LCR 1	S (181.972 nm)	22.14	0.08032 (mg/L)	7.86344	14.51
3/3/2022 12:27:03	LCR 1	Sb (217.582 nm)	0.57	21.31586 (mg/L)	16837.48558	0.57
3/3/2022 12:27:03	LCR 1	Se (196.026 nm)	0.47	20.59387 (mg/L)	15303.80581	0.47
3/3/2022 12:27:03	LCR 1	Sn (189.925 nm)	0.67	20.73436 (mg/L)	14552.83989	0.67
3/3/2022 12:27:03	LCR 1	Sr (407.771 nm)	0.49	0.01221 (mg/L)	9924.09209	0.49
3/3/2022 12:27:03	LCR 1	Ti (337.280 nm)	0.75	20.54739 (mg/L)	661397.27236	0.75
3/3/2022 12:27:03	LCR 1	Tl (351.923 nm)	0.91	22.18948 (mg/L)	23579.28532	0.91
3/3/2022 12:27:03	LCR 1	V (311.837 nm)	0.84	20.75086 (mg/L)	1036059.24157	0.84
3/3/2022 12:27:03	LCR 1	Zn (206.200 nm)	0.47	18.44354 (mg/L)	32246.39553	0.47
3/3/2022 12:29:53	LCR 2	Ag (328.068 nm)	0.35	0.69792 (mg/L)	28977.83018	0.35
3/3/2022 12:29:53	LCR 2	Al (308.215 nm)	0.39	103.08899 (mg/L)	459822.04189	0.39
3/3/2022 12:29:53	LCR 2	As (193.696 nm)	0.29	9.74396 (mg/L)	4883.01668	0.29
3/3/2022 12:29:53	LCR 2	B (249.772 nm)	2.75	-0.01374 u (mg/L)	-300.46776	3.83
3/3/2022 12:29:53	LCR 2	Ba (413.064 nm)	0.25	9.48088 (mg/L)	117184.33916	0.25
3/3/2022 12:29:53	LCR 2	Be (313.042 nm)	0.27	9.09300 (mg/L)	20308338.11040	0.27
3/3/2022 12:29:53	LCR 2	Ca (373.690 nm)	0.25	97.56047 (mg/L)	652074.39978	0.25
3/3/2022 12:29:53	LCR 2	Cd (228.802 nm)	0.32	9.76504 (mg/L)	270175.82279	0.32
3/3/2022 12:29:53	LCR 2	Co (230.786 nm)	0.27	9.36601 (mg/L)	91369.55116	0.27
3/3/2022 12:29:53	LCR 2	Cr (267.716 nm)	0.45	9.47412 (mg/L)	214711.81534	0.45
3/3/2022 12:29:53	LCR 2	Cu (327.395 nm)	0.37	9.95650 (mg/L)	282549.11160	0.37
3/3/2022 12:29:53	LCR 2	Fe (238.204 nm)	0.34	88.16806 (mg/L)	3058931.47190	0.34
3/3/2022 12:29:53	LCR 2	K (766.491 nm)	0.16	103.17777 (mg/L)	142680.79832	0.16
3/3/2022 12:29:53	LCR 2	Mg (279.800 nm)	0.36	98.20329 (mg/L)	171005.32153	0.36
3/3/2022 12:29:53	LCR 2	Mn (257.610 nm)	0.16	9.38737 (mg/L)	1770673.79816	0.16
3/3/2022 12:29:53	LCR 2	Mo (204.598 nm)	0.43	10.04265 (mg/L)	34465.14847	0.43
3/3/2022 12:29:53	LCR 2	Na (589.592 nm)	0.28	102.73343 (mg/L)	766373.56289	0.28
3/3/2022 12:29:53	LCR 2	Ni (221.648 nm)	0.42	9.23072 (mg/L)	14204.17924	0.42
3/3/2022 12:29:53	LCR 2	P (213.618 nm)	4.32	0.09096 (mg/L)	89.30031	4.22
3/3/2022 12:29:53	LCR 2	Pb (220.353 nm)	0.27	9.42510 (mg/L)	21170.90036	0.27
3/3/2022 12:29:53	LCR 2	S (181.972 nm)	> 100.00	-0.00559 u (mg/L)	2.35131	29.81

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 12:29:53	LCR 2	Sb (217.582 nm)	0.24	9.66485 (mg/L)	7636.74375	0.24
3/3/2022 12:29:53	LCR 2	Se (196.026 nm)	0.44	9.78155 (mg/L)	7271.09426	0.44
3/3/2022 12:29:53	LCR 2	Sn (189.925 nm)	0.35	9.49336 (mg/L)	6664.83191	0.35
3/3/2022 12:29:53	LCR 2	Sr (407.771 nm)	0.42	0.00826 (mg/L)	6707.71751	0.42
3/3/2022 12:29:53	LCR 2	Ti (337.280 nm)	0.35	9.50175 (mg/L)	305866.61603	0.35
3/3/2022 12:29:53	LCR 2	Tl (351.923 nm)	0.54	10.17892 (mg/L)	10816.46180	0.54
3/3/2022 12:29:53	LCR 2	V (311.837 nm)	0.37	9.75856 (mg/L)	487234.41961	0.37
3/3/2022 12:29:53	LCR 2	Zn (206.200 nm)	0.24	9.10995 (mg/L)	15934.42483	0.24
3/3/2022 12:32:43	LCR 3	Ag (328.068 nm)	1.00	0.31635 (mg/L)	13139.81700	0.99
3/3/2022 12:32:43	LCR 3	Al (308.215 nm)	0.70	55.44547 (mg/L)	247507.35789	0.70
3/3/2022 12:32:43	LCR 3	As (193.696 nm)	0.51	5.34817 (mg/L)	2682.25896	0.51
3/3/2022 12:32:43	LCR 3	B (249.772 nm)	5.47	-0.00425 u (mg/L)	-11.49339	61.46
3/3/2022 12:32:43	LCR 3	Ba (413.064 nm)	0.51	5.31295 (mg/L)	65701.76477	0.51
3/3/2022 12:32:43	LCR 3	Be (313.042 nm)	0.78	5.20907 (mg/L)	11634066.77545	0.78
3/3/2022 12:32:43	LCR 3	Ca (373.690 nm)	0.49	53.98391 (mg/L)	360926.70248	0.49
3/3/2022 12:32:43	LCR 3	Cd (228.802 nm)	0.56	5.35587 (mg/L)	148192.07157	0.56
3/3/2022 12:32:43	LCR 3	Co (230.786 nm)	0.61	5.26511 (mg/L)	51366.82495	0.61
3/3/2022 12:32:43	LCR 3	Cr (267.716 nm)	0.54	5.29850 (mg/L)	120092.33133	0.54
3/3/2022 12:32:43	LCR 3	Cu (327.395 nm)	0.76	5.46063 (mg/L)	154974.58659	0.76
3/3/2022 12:32:43	LCR 3	Fe (238.204 nm)	0.71	51.21720 (mg/L)	1779431.24042	0.71
3/3/2022 12:32:43	LCR 3	K (766.491 nm)	0.39	55.40835 (mg/L)	76533.16987	0.39
3/3/2022 12:32:43	LCR 3	Mg (279.800 nm)	0.51	53.88620 (mg/L)	93842.08013	0.51
3/3/2022 12:32:43	LCR 3	Mn (257.610 nm)	0.49	5.24852 (mg/L)	990150.85829	0.49
3/3/2022 12:32:43	LCR 3	Mo (204.598 nm)	0.64	5.73281 (mg/L)	19677.23043	0.64
3/3/2022 12:32:43	LCR 3	Na (589.592 nm)	0.48	55.95036 (mg/L)	417781.95799	0.48
3/3/2022 12:32:43	LCR 3	Ni (221.648 nm)	0.51	5.19173 (mg/L)	7989.97334	0.51
3/3/2022 12:32:43	LCR 3	P (213.618 nm)	2.50	0.05400 (mg/L)	53.84936	2.41
3/3/2022 12:32:43	LCR 3	Pb (220.353 nm)	0.42	5.26963 (mg/L)	11839.72624	0.42
3/3/2022 12:32:43	LCR 3	S (181.972 nm)	> 100.00	-0.00464 u (mg/L)	2.41212	> 100.00
3/3/2022 12:32:43	LCR 3	Sb (217.582 nm)	0.40	5.43805 (mg/L)	4298.86152	0.40
3/3/2022 12:32:43	LCR 3	Se (196.026 nm)	0.36	5.29822 (mg/L)	3940.33069	0.36
3/3/2022 12:32:43	LCR 3	Sn (189.925 nm)	0.72	5.39194 (mg/L)	3786.79273	0.72
3/3/2022 12:32:43	LCR 3	Sr (407.771 nm)	0.08	0.00579 (mg/L)	4701.07414	0.08
3/3/2022 12:32:43	LCR 3	Ti (337.280 nm)	0.57	5.39997 (mg/L)	173841.21790	0.57
3/3/2022 12:32:43	LCR 3	Tl (351.923 nm)	0.60	5.50650 (mg/L)	5851.38900	0.60
3/3/2022 12:32:43	LCR 3	V (311.837 nm)	0.44	5.40116 (mg/L)	269677.70011	0.44
3/3/2022 12:32:43	LCR 3	Zn (206.200 nm)	0.47	5.15375 (mg/L)	9020.30929	0.47
3/3/2022 12:35:34	LCR-Pb-Inhouse	Ag (328.068 nm)	20.38	0.00170 (mg/L)	78.97456	18.19
3/3/2022 12:35:34	LCR-Pb-Inhouse	Al (308.215 nm)	1.40	0.03542 (mg/L)	582.55492	0.38
3/3/2022 12:35:34	LCR-Pb-Inhouse	As (193.696 nm)	> 100.00	0.00759 (mg/L)	8.49377	47.90
3/3/2022 12:35:34	LCR-Pb-Inhouse	B (249.772 nm)	0.63	95.22532 o (mg/L)	2897123.80554	0.63
3/3/2022 12:35:34	LCR-Pb-Inhouse	Ba (413.064 nm)	16.83	0.00350 (mg/L)	119.09304	6.12
3/3/2022 12:35:34	LCR-Pb-Inhouse	Be (313.042 nm)	9.71	0.00262 (mg/L)	6096.44687	9.31
3/3/2022 12:35:34	LCR-Pb-Inhouse	Ca (373.690 nm)	4.93	0.03184 (mg/L)	457.14754	2.29
3/3/2022 12:35:34	LCR-Pb-Inhouse	Cd (228.802 nm)	28.75	0.00167 (mg/L)	62.98082	21.05
3/3/2022 12:35:34	LCR-Pb-Inhouse	Co (230.786 nm)	21.25	0.00191 (mg/L)	26.21552	15.11
3/3/2022 12:35:34	LCR-Pb-Inhouse	Cr (267.716 nm)	24.02	0.01280 (mg/L)	318.86394	21.85
3/3/2022 12:35:34	LCR-Pb-Inhouse	Cu (327.395 nm)	17.62	0.03204 (mg/L)	933.53751	17.16

220303A.esws

Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 12:35:34	LCR-Pb-Inhouse	Fe (238.204 nm)	7.26	-0.02487 u (mg/L)	5068.26095	1.23
3/3/2022 12:35:34	LCR-Pb-Inhouse	K (766.491 nm)	22.97	0.10602 (mg/L)	-45.49881	74.12
3/3/2022 12:35:34	LCR-Pb-Inhouse	Mg (279.800 nm)	36.89	0.00350 (mg/L)	23.56984	9.54
3/3/2022 12:35:34	LCR-Pb-Inhouse	Mn (257.610 nm)	7.44	0.00115 (mg/L)	579.69970	2.78
3/3/2022 12:35:34	LCR-Pb-Inhouse	Mo (204.598 nm)	22.66	0.01259 (mg/L)	50.00628	19.57
3/3/2022 12:35:34	LCR-Pb-Inhouse	Na (589.592 nm)	24.16	0.04107 (mg/L)	1188.74476	6.22
3/3/2022 12:35:34	LCR-Pb-Inhouse	Ni (221.648 nm)	2.32	0.00173 (mg/L)	4.85539	1.27
3/3/2022 12:35:34	LCR-Pb-Inhouse	P (213.618 nm)	0.46	104.16624 o (mg/L)	99919.77700	0.46
3/3/2022 12:35:34	LCR-Pb-Inhouse	Pb (220.353 nm)	1.00	201.27390 o (mg/L)	451971.16467	1.00
3/3/2022 12:35:34	LCR-Pb-Inhouse	S (181.972 nm)	0.51	96.62662 o (mg/L)	6202.40145	0.51
3/3/2022 12:35:34	LCR-Pb-Inhouse	Sb (217.582 nm)	10.66	0.05388 (mg/L)	47.00642	9.65
3/3/2022 12:35:34	LCR-Pb-Inhouse	Se (196.026 nm)	12.49	0.01719 (mg/L)	16.93654	9.42
3/3/2022 12:35:34	LCR-Pb-Inhouse	Sn (189.925 nm)	49.17	0.01035 (mg/L)	10.43584	34.22
3/3/2022 12:35:34	LCR-Pb-Inhouse	Sr (407.771 nm)	0.29	9.00534 (mg/L)	7316836.90312	0.29
3/3/2022 12:35:34	LCR-Pb-Inhouse	Ti (337.280 nm)	4.63	0.00166 (mg/L)	83.80151	2.96
3/3/2022 12:35:34	LCR-Pb-Inhouse	Tl (351.923 nm)	45.40	0.01398 (mg/L)	14.85271	45.40
3/3/2022 12:35:34	LCR-Pb-Inhouse	V (311.837 nm)	6.30	0.00084 (mg/L)	49.92341	5.26
3/3/2022 12:35:34	LCR-Pb-Inhouse	Zn (206.200 nm)	2.88	0.02608 (mg/L)	58.88336	2.23
3/3/2022 12:49:41	LCS-330794	Ag (328.068 nm)	32.98	0.00012 (mg/L)	13.61471	12.39
3/3/2022 12:49:41	LCS-330794	Al (308.215 nm)	0.20	7.40711 (mg/L)	33433.13232	0.20
3/3/2022 12:49:41	LCS-330794	As (193.696 nm)	2.63	0.56509 (mg/L)	287.60517	2.59
3/3/2022 12:49:41	LCS-330794	B (249.772 nm)	3.76	0.03028 (mg/L)	1039.01269	3.34
3/3/2022 12:49:41	LCS-330794	Ba (413.064 nm)	0.39	0.10314 (mg/L)	1349.77655	0.37
3/3/2022 12:49:41	LCS-330794	Be (313.042 nm)	1.46	0.00147 (mg/L)	3543.56532	1.35
3/3/2022 12:49:41	LCS-330794	Ca (373.690 nm)	0.13	8.30487 (mg/L)	55731.63128	0.13
3/3/2022 12:49:41	LCS-330794	Cd (228.802 nm)	5.73	0.00441 (mg/L)	138.84213	5.04
3/3/2022 12:49:41	LCS-330794	Co (230.786 nm)	4.42	0.00615 (mg/L)	67.59824	3.92
3/3/2022 12:49:41	LCS-330794	Cr (267.716 nm)	0.30	0.03675 (mg/L)	861.53423	0.29
3/3/2022 12:49:41	LCS-330794	Cu (327.395 nm)	2.09	0.01887 (mg/L)	559.85438	2.00
3/3/2022 12:49:41	LCS-330794	Fe (238.204 nm)	0.29	9.93675 (mg/L)	350010.00517	0.28
3/3/2022 12:49:41	LCS-330794	K (766.491 nm)	0.79	2.92210 (mg/L)	3854.00174	0.83
3/3/2022 12:49:41	LCS-330794	Mg (279.800 nm)	0.34	5.97086 (mg/L)	10413.70274	0.34
3/3/2022 12:49:41	LCS-330794	Mn (257.610 nm)	0.38	0.27429 (mg/L)	52090.69089	0.38
3/3/2022 12:49:41	LCS-330794	Mo (204.598 nm)	11.69	0.00752 (mg/L)	32.63096	9.24
3/3/2022 12:49:41	LCS-330794	Na (589.592 nm)	0.27	2.40013 (mg/L)	18766.64426	0.26
3/3/2022 12:49:41	LCS-330794	Ni (221.648 nm)	> 100.00	0.00074 u (mg/L)	3.34331	75.20
3/3/2022 12:49:41	LCS-330794	P (213.618 nm)	0.70	0.96680 (mg/L)	929.41871	0.70
3/3/2022 12:49:41	LCS-330794	Pb (220.353 nm)	0.24	0.29892 (mg/L)	677.90308	0.24
3/3/2022 12:49:41	LCS-330794	S (181.972 nm)	0.75	2.58940 (mg/L)	168.84953	0.73
3/3/2022 12:49:41	LCS-330794	Sb (217.582 nm)	23.02	0.00720 (mg/L)	10.14755	12.90
3/3/2022 12:49:41	LCS-330794	Se (196.026 nm)	0.97	0.29682 (mg/L)	224.67667	0.95
3/3/2022 12:49:41	LCS-330794	Sn (189.925 nm)	11.86	0.03915 (mg/L)	30.64695	10.63
3/3/2022 12:49:41	LCS-330794	Sr (407.771 nm)	0.44	0.05196 (mg/L)	42217.19020	0.44
3/3/2022 12:49:41	LCS-330794	Ti (337.280 nm)	0.58	0.16821 (mg/L)	5444.43673	0.58
3/3/2022 12:49:41	LCS-330794	Tl (351.923 nm)	4.10	0.15372 (mg/L)	163.34489	4.10
3/3/2022 12:49:41	LCS-330794	V (311.837 nm)	1.26	0.01925 (mg/L)	969.39248	1.25
3/3/2022 12:49:41	LCS-330794	Zn (206.200 nm)	0.41	1.01459 (mg/L)	1786.45940	0.41
3/3/2022 12:52:32	LCSD-330794	Ag (328.068 nm)	81.34	0.00019 (mg/L)	16.43428	39.27

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 15:00:15	2202W74-013CMSD	Mg (279.800 nm)	0.32	12.68806 (mg/L)	22109.43482	0.32
3/3/2022 15:00:15	2202W74-013CMSD	Mn (257.610 nm)	0.21	1.51739 (mg/L)	286518.05847	0.21
3/3/2022 15:00:15	2202W74-013CMSD	Mo (204.598 nm)	1.67	1.04775 (mg/L)	3601.85007	1.67
3/3/2022 15:00:15	2202W74-013CMSD	Na (589.592 nm)	0.45	11.95674 (mg/L)	89975.20089	0.45
3/3/2022 15:00:15	2202W74-013CMSD	Ni (221.648 nm)	0.23	1.01282 (mg/L)	1560.48186	0.23
3/3/2022 15:00:15	2202W74-013CMSD	P (213.618 nm)	0.16	1.09788 (mg/L)	1055.15315	0.16
3/3/2022 15:00:15	2202W74-013CMSD	Pb (220.353 nm)	0.33	1.01470 (mg/L)	2285.18478	0.33
3/3/2022 15:00:15	2202W74-013CMSD	S (181.972 nm)	1.04	3.01211 (mg/L)	195.97136	1.02
3/3/2022 15:00:15	2202W74-013CMSD	Sb (217.582 nm)	0.71	1.01636 (mg/L)	807.07112	0.70
3/3/2022 15:00:15	2202W74-013CMSD	Se (196.026 nm)	1.23	1.09927 (mg/L)	820.83453	1.23
3/3/2022 15:00:15	2202W74-013CMSD	Sn (189.925 nm)	0.19	1.02757 (mg/L)	724.23573	0.18
3/3/2022 15:00:15	2202W74-013CMSD	Sr (407.771 nm)	0.42	1.08039 (mg/L)	877815.89750	0.42
3/3/2022 15:00:15	2202W74-013CMSD	Ti (337.280 nm)	0.20	0.99447 (mg/L)	32039.76736	0.20
3/3/2022 15:00:15	2202W74-013CMSD	Tl (351.923 nm)	0.45	1.04505 (mg/L)	1110.50793	0.45
3/3/2022 15:00:15	2202W74-013CMSD	V (311.837 nm)	0.21	1.00337 (mg/L)	50104.80465	0.21
3/3/2022 15:00:15	2202W74-013CMSD	Zn (206.200 nm)	0.47	1.03504 (mg/L)	1822.20784	0.47
3/3/2022 15:03:04	Cont Calib Verif	Ag (328.068 nm)	0.65	0.10105 (mg/L)	4203.04073	0.65
3/3/2022 15:03:04	Cont Calib Verif	Al (308.215 nm)	0.73	10.03074 (mg/L)	45124.85323	0.73
3/3/2022 15:03:04	Cont Calib Verif	As (193.696 nm)	1.39	1.00084 (mg/L)	505.76358	1.38
3/3/2022 15:03:04	Cont Calib Verif	B (249.772 nm)	0.62	0.99765 (mg/L)	30468.73161	0.62
3/3/2022 15:03:04	Cont Calib Verif	Ba (413.064 nm)	0.63	1.01984 (mg/L)	12672.90392	0.63
3/3/2022 15:03:04	Cont Calib Verif	Be (313.042 nm)	0.71	1.02209 (mg/L)	2282965.12327	0.71
3/3/2022 15:03:04	Cont Calib Verif	Ca (373.690 nm)	0.51	10.19662 (mg/L)	68371.01097	0.51
3/3/2022 15:03:04	Cont Calib Verif	Cd (228.802 nm)	0.60	1.01516 (mg/L)	28102.18991	0.60
3/3/2022 15:03:04	Cont Calib Verif	Co (230.786 nm)	0.62	1.02221 (mg/L)	9978.88589	0.62
3/3/2022 15:03:04	Cont Calib Verif	Cr (267.716 nm)	0.68	1.02562 (mg/L)	23269.27703	0.68
3/3/2022 15:03:04	Cont Calib Verif	Cu (327.395 nm)	0.74	1.01883 (mg/L)	28934.63322	0.74
3/3/2022 15:03:04	Cont Calib Verif	Fe (238.204 nm)	0.70	10.25906 (mg/L)	361170.63732	0.69
3/3/2022 15:03:04	Cont Calib Verif	K (766.491 nm)	0.32	10.03254 (mg/L)	13700.03211	0.33
3/3/2022 15:03:04	Cont Calib Verif	Mg (279.800 nm)	0.52	10.12114 (mg/L)	17640.01188	0.52
3/3/2022 15:03:04	Cont Calib Verif	Mn (257.610 nm)	0.70	1.02158 (mg/L)	193016.57171	0.69
3/3/2022 15:03:04	Cont Calib Verif	Mo (204.598 nm)	0.60	1.09988 (mg/L)	3780.73287	0.60
3/3/2022 15:03:04	Cont Calib Verif	Na (589.592 nm)	0.33	10.17002 (mg/L)	76661.88446	0.32
3/3/2022 15:03:04	Cont Calib Verif	Ni (221.648 nm)	0.59	1.01981 (mg/L)	1571.23535	0.58
3/3/2022 15:03:04	Cont Calib Verif	P (213.618 nm)	0.56	1.07371 (mg/L)	1031.96473	0.56
3/3/2022 15:03:04	Cont Calib Verif	Pb (220.353 nm)	0.24	1.02644 (mg/L)	2311.56130	0.24
3/3/2022 15:03:04	Cont Calib Verif	S (181.972 nm)	0.62	1.05533 (mg/L)	70.42180	0.59
3/3/2022 15:03:04	Cont Calib Verif	Sb (217.582 nm)	0.27	1.01587 (mg/L)	806.68751	0.27
3/3/2022 15:03:04	Cont Calib Verif	Se (196.026 nm)	0.76	0.99872 (mg/L)	746.13135	0.75
3/3/2022 15:03:04	Cont Calib Verif	Sn (189.925 nm)	0.53	1.04513 (mg/L)	736.55828	0.52
3/3/2022 15:03:04	Cont Calib Verif	Sr (407.771 nm)	1.02	1.11400 Q (mg/L)	905125.35915 Q	1.02
3/3/2022 15:03:04	Cont Calib Verif	Ti (337.280 nm)	0.73	1.02476 (mg/L)	33014.40831	0.73
3/3/2022 15:03:04	Cont Calib Verif	Tl (351.923 nm)	1.68	1.03973 (mg/L)	1104.85699	1.68
3/3/2022 15:03:04	Cont Calib Verif	V (311.837 nm)	0.74	1.01906 (mg/L)	50888.08978	0.74
3/3/2022 15:03:04	Cont Calib Verif	Zn (206.200 nm)	0.66	1.01943 (mg/L)	1794.91847	0.65
3/3/2022 15:05:53	Cont Calib Blank	Ag (328.068 nm)	88.11	0.00004 (mg/L)	10.30657	15.44
3/3/2022 15:05:53	Cont Calib Blank	Al (308.215 nm)	6.91	0.02981 (mg/L)	557.53845	1.65
3/3/2022 15:05:53	Cont Calib Blank	As (193.696 nm)	49.46	0.00469 (mg/L)	7.04001	16.49

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 15:05:53	Cont Calib Blank	B (249.772 nm)	20.39	0.00387 (mg/L)	235.40965	10.20
3/3/2022 15:05:53	Cont Calib Blank	Ba (413.064 nm)	31.07	0.00065 (mg/L)	83.86906	2.99
3/3/2022 15:05:53	Cont Calib Blank	Be (313.042 nm)	7.91	0.00040 (mg/L)	1142.69779	6.16
3/3/2022 15:05:53	Cont Calib Blank	Ca (373.690 nm)	11.13	-0.00792 u (mg/L)	191.49342	3.07
3/3/2022 15:05:53	Cont Calib Blank	Cd (228.802 nm)	37.61	0.00027 (mg/L)	24.31766	11.50
3/3/2022 15:05:53	Cont Calib Blank	Co (230.786 nm)	49.41	0.00090 (mg/L)	16.31214	26.45
3/3/2022 15:05:53	Cont Calib Blank	Cr (267.716 nm)	22.70	0.00038 (mg/L)	37.39722	5.24
3/3/2022 15:05:53	Cont Calib Blank	Cu (327.395 nm)	13.38	0.00416 (mg/L)	142.55784	11.09
3/3/2022 15:05:53	Cont Calib Blank	Fe (238.204 nm)	3.91	-0.05254 u (mg/L)	4110.20657	1.73
3/3/2022 15:05:53	Cont Calib Blank	K (766.491 nm)	> 100.00	0.01166 u (mg/L)	-176.15344	17.95
3/3/2022 15:05:53	Cont Calib Blank	Mg (279.800 nm)	> 100.00	0.00123 (mg/L)	19.61692	15.13
3/3/2022 15:05:53	Cont Calib Blank	Mn (257.610 nm)	13.43	0.00009 (mg/L)	380.76264	0.63
3/3/2022 15:05:53	Cont Calib Blank	Mo (204.598 nm)	17.34	0.00569 (mg/L)	26.33020	12.85
3/3/2022 15:05:53	Cont Calib Blank	Na (589.592 nm)	1.62	0.04940 (mg/L)	1250.80183	0.48
3/3/2022 15:05:53	Cont Calib Blank	Ni (221.648 nm)	> 100.00	0.00058 u (mg/L)	3.09902	34.84
3/3/2022 15:05:53	Cont Calib Blank	P (213.618 nm)	7.58	0.00313 (mg/L)	5.04693	4.50
3/3/2022 15:05:53	Cont Calib Blank	Pb (220.353 nm)	26.94	0.00132 (mg/L)	9.62767	8.30
3/3/2022 15:05:53	Cont Calib Blank	S (181.972 nm)	65.07	-0.02002 u (mg/L)	1.42577	58.62
3/3/2022 15:05:53	Cont Calib Blank	Sb (217.582 nm)	68.55	0.00368 (mg/L)	7.36859	27.06
3/3/2022 15:05:53	Cont Calib Blank	Se (196.026 nm)	76.34	0.00453 (mg/L)	7.53150	34.14
3/3/2022 15:05:53	Cont Calib Blank	Sn (189.925 nm)	87.02	0.00115 (mg/L)	3.98280	17.67
3/3/2022 15:05:53	Cont Calib Blank	Sr (407.771 nm)	7.00	0.00020 (mg/L)	160.61850	7.00
3/3/2022 15:05:53	Cont Calib Blank	Ti (337.280 nm)	54.06	0.00019 (mg/L)	36.38895	9.17
3/3/2022 15:05:53	Cont Calib Blank	Tl (351.923 nm)	11.84	0.01443 (mg/L)	15.33060	11.84
3/3/2022 15:05:53	Cont Calib Blank	V (311.837 nm)	74.99	0.00016 (mg/L)	16.06815	36.56
3/3/2022 15:05:53	Cont Calib Blank	Zn (206.200 nm)	11.10	-0.00386 u (mg/L)	6.54612	11.46
3/3/2022 15:08:42	2202W74-013CDL	Ag (328.068 nm)	0.35	0.01930 (mg/L)	809.69363	0.34
3/3/2022 15:08:42	2202W74-013CDL	Al (308.215 nm)	0.43	1.89337 (mg/L)	8862.17407	0.41
3/3/2022 15:08:42	2202W74-013CDL	As (193.696 nm)	3.28	0.18715 (mg/L)	98.38747	3.12
3/3/2022 15:08:42	2202W74-013CDL	B (249.772 nm)	0.38	0.19171 (mg/L)	5950.08140	0.38
3/3/2022 15:08:42	2202W74-013CDL	Ba (413.064 nm)	0.68	0.20430 (mg/L)	2599.35316	0.66
3/3/2022 15:08:42	2202W74-013CDL	Be (313.042 nm)	0.92	0.19589 (mg/L)	437748.58031	0.92
3/3/2022 15:08:42	2202W74-013CDL	Ca (373.690 nm)	0.31	2.50068 (mg/L)	16952.14035	0.30
3/3/2022 15:08:42	2202W74-013CDL	Cd (228.802 nm)	0.55	0.19378 (mg/L)	5377.88613	0.55
3/3/2022 15:08:42	2202W74-013CDL	Co (230.786 nm)	0.36	0.20477 (mg/L)	2005.04060	0.36
3/3/2022 15:08:42	2202W74-013CDL	Cr (267.716 nm)	0.58	0.19459 (mg/L)	4438.26681	0.57
3/3/2022 15:08:42	2202W74-013CDL	Cu (327.395 nm)	0.36	0.18950 (mg/L)	5401.68574	0.36
3/3/2022 15:08:42	2202W74-013CDL	Fe (238.204 nm)	0.48	1.93268 (mg/L)	72852.59192	0.44
3/3/2022 15:08:42	2202W74-013CDL	K (766.491 nm)	0.41	2.39042 (mg/L)	3117.77810	0.43
3/3/2022 15:08:42	2202W74-013CDL	Mg (279.800 nm)	0.31	2.42882 (mg/L)	4246.43446	0.30
3/3/2022 15:08:42	2202W74-013CDL	Mn (257.610 nm)	0.39	0.29438 (mg/L)	55878.10764	0.39
3/3/2022 15:08:42	2202W74-013CDL	Mo (204.598 nm)	2.59	0.20438 (mg/L)	708.07904	2.56
3/3/2022 15:08:42	2202W74-013CDL	Na (589.592 nm)	0.16	2.26395 (mg/L)	17751.95907	0.15
3/3/2022 15:08:42	2202W74-013CDL	Ni (221.648 nm)	0.48	0.19732 (mg/L)	305.78305	0.48
3/3/2022 15:08:42	2202W74-013CDL	P (213.618 nm)	0.68	0.18679 (mg/L)	181.21665	0.67
3/3/2022 15:08:42	2202W74-013CDL	Pb (220.353 nm)	2.86	0.19440 (mg/L)	443.18965	2.82
3/3/2022 15:08:42	2202W74-013CDL	S (181.972 nm)	3.66	0.55217 (mg/L)	38.13813	3.40
3/3/2022 15:08:42	2202W74-013CDL	Sb (217.582 nm)	0.69	0.19107 (mg/L)	155.34929	0.67

220303A.esws

Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 15:08:42	2202W74-013CDL	Se (196.026 nm)	2.22	0.19608 (mg/L)	149.83901	2.16
3/3/2022 15:08:42	2202W74-013CDL	Sn (189.925 nm)	0.61	0.19377 (mg/L)	139.14811	0.60
3/3/2022 15:08:42	2202W74-013CDL	Sr (407.771 nm)	0.50	0.20613 (mg/L)	167481.86523	0.50
3/3/2022 15:08:42	2202W74-013CDL	Ti (337.280 nm)	0.42	0.19000 (mg/L)	6145.88365	0.42
3/3/2022 15:08:42	2202W74-013CDL	Tl (351.923 nm)	0.70	0.19829 (mg/L)	210.70596	0.70
3/3/2022 15:08:42	2202W74-013CDL	V (311.837 nm)	0.39	0.19113 (mg/L)	9550.91386	0.39
3/3/2022 15:08:42	2202W74-013CDL	Zn (206.200 nm)	0.75	0.19313 (mg/L)	350.82237	0.72
3/3/2022 15:11:32	2202W74-013CPDS	Ag (328.068 nm)	0.39	0.10135 (mg/L)	4215.56848	0.39
3/3/2022 15:11:32	2202W74-013CPDS	Al (308.215 nm)	0.29	10.09107 (mg/L)	45393.70653	0.28
3/3/2022 15:11:32	2202W74-013CPDS	As (193.696 nm)	0.64	1.01055 (mg/L)	510.62661	0.64
3/3/2022 15:11:32	2202W74-013CPDS	B (249.772 nm)	0.36	5.04553 (mg/L)	153616.09327	0.36
3/3/2022 15:11:32	2202W74-013CPDS	Ba (413.064 nm)	0.28	1.04557 (mg/L)	12990.74966	0.28
3/3/2022 15:11:32	2202W74-013CPDS	Be (313.042 nm)	0.28	1.02941 (mg/L)	2299318.66123	0.28
3/3/2022 15:11:32	2202W74-013CPDS	Ca (373.690 nm)	0.20	11.65484 (mg/L)	78113.80797	0.20
3/3/2022 15:11:32	2202W74-013CPDS	Cd (228.802 nm)	0.25	1.02509 (mg/L)	28377.01093	0.25
3/3/2022 15:11:32	2202W74-013CPDS	Co (230.786 nm)	0.25	1.03981 (mg/L)	10150.54684	0.25
3/3/2022 15:11:32	2202W74-013CPDS	Cr (267.716 nm)	0.31	1.02530 (mg/L)	23261.99107	0.31
3/3/2022 15:11:32	2202W74-013CPDS	Cu (327.395 nm)	0.24	0.99669 (mg/L)	28306.31666	0.24
3/3/2022 15:11:32	2202W74-013CPDS	Fe (238.204 nm)	0.37	10.33184 (mg/L)	363690.77702	0.37
3/3/2022 15:11:32	2202W74-013CPDS	K (766.491 nm)	0.16	11.59604 (mg/L)	15865.04678	0.17
3/3/2022 15:11:32	2202W74-013CPDS	Mg (279.800 nm)	0.11	11.48827 (mg/L)	20020.41842	0.11
3/3/2022 15:11:32	2202W74-013CPDS	Mn (257.610 nm)	0.19	1.27414 (mg/L)	240646.59244	0.19
3/3/2022 15:11:32	2202W74-013CPDS	Mo (204.598 nm)	1.07	1.06993 (mg/L)	3677.95551	1.07
3/3/2022 15:11:32	2202W74-013CPDS	Na (589.592 nm)	0.06	11.09013 (mg/L)	83517.82697	0.06
3/3/2022 15:11:32	2202W74-013CPDS	Ni (221.648 nm)	0.20	1.02363 (mg/L)	1577.11814	0.20
3/3/2022 15:11:32	2202W74-013CPDS	P (213.618 nm)	0.17	11.27436 (mg/L)	10816.57744	0.17
3/3/2022 15:11:32	2202W74-013CPDS	Pb (220.353 nm)	0.39	1.02355 (mg/L)	2305.05847	0.39
3/3/2022 15:11:32	2202W74-013CPDS	S (181.972 nm)	0.59	6.25288 (mg/L)	403.90303	0.59
3/3/2022 15:11:32	2202W74-013CPDS	Sb (217.582 nm)	0.61	1.01941 (mg/L)	809.48624	0.60
3/3/2022 15:11:32	2202W74-013CPDS	Se (196.026 nm)	0.57	1.04874 (mg/L)	783.29403	0.57
3/3/2022 15:11:32	2202W74-013CPDS	Sn (189.925 nm)	0.91	1.05369 (mg/L)	742.56971	0.91
3/3/2022 15:11:32	2202W74-013CPDS	Sr (407.771 nm)	0.35	5.17651 (mg/L)	4205908.19771	0.35
3/3/2022 15:11:32	2202W74-013CPDS	Ti (337.280 nm)	0.32	1.00990 (mg/L)	32536.18184	0.32
3/3/2022 15:11:32	2202W74-013CPDS	Tl (351.923 nm)	0.36	1.03746 (mg/L)	1102.43955	0.36
3/3/2022 15:11:32	2202W74-013CPDS	V (311.837 nm)	0.29	1.02115 (mg/L)	50992.38526	0.29
3/3/2022 15:11:32	2202W74-013CPDS	Zn (206.200 nm)	0.25	1.03806 (mg/L)	1827.47522	0.25
3/3/2022 15:14:21	2202M07-001D	Ag (328.068 nm)	99.30	-0.00012 u (mg/L)	3.34269	> 100.00
3/3/2022 15:14:21	2202M07-001D	Al (308.215 nm)	7.43	0.02052 (mg/L)	516.14115	1.32
3/3/2022 15:14:21	2202M07-001D	As (193.696 nm)	13.30	0.00451 (mg/L)	6.95254	4.32
3/3/2022 15:14:21	2202M07-001D	B (249.772 nm)	4.26	0.05569 (mg/L)	1811.90198	3.98
3/3/2022 15:14:21	2202M07-001D	Ba (413.064 nm)	5.78	0.00869 (mg/L)	183.10844	3.39
3/3/2022 15:14:21	2202M07-001D	Be (313.042 nm)	3.82	0.00047 (mg/L)	1307.60328	3.08
3/3/2022 15:14:21	2202M07-001D	Ca (373.690 nm)	0.27	5.19412 (mg/L)	34947.79214	0.27
3/3/2022 15:14:21	2202M07-001D	Cd (228.802 nm)	9.53	0.00076 (mg/L)	37.78085	5.27
3/3/2022 15:14:21	2202M07-001D	Co (230.786 nm)	19.67	0.00108 (mg/L)	18.14115	11.45
3/3/2022 15:14:21	2202M07-001D	Cr (267.716 nm)	4.56	0.00082 (mg/L)	47.25406	1.78
3/3/2022 15:14:21	2202M07-001D	Cu (327.395 nm)	9.92	0.00455 (mg/L)	153.57937	8.34
3/3/2022 15:14:21	2202M07-001D	Fe (238.204 nm)	5.51	0.01296 (mg/L)	6378.19143	0.39

220303A.esws

Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 15:14:21	2202M07-001D	K (766.491 nm)	1.32	1.36801 (mg/L)	1702.01979	1.47
3/3/2022 15:14:21	2202M07-001D	Mg (279.800 nm)	0.34	0.53969 (mg/L)	957.16028	0.33
3/3/2022 15:14:21	2202M07-001D	Mn (257.610 nm)	0.31	0.05495 (mg/L)	10725.47852	0.30
3/3/2022 15:14:21	2202M07-001D	Mo (204.598 nm)	1.57	0.04450 (mg/L)	159.51860	1.50
3/3/2022 15:14:21	2202M07-001D	Na (589.592 nm)	0.28	2.70030 (mg/L)	21003.26854	0.27
3/3/2022 15:14:21	2202M07-001D	Ni (221.648 nm)	4.69	0.05042 (mg/L)	79.77714	4.56
3/3/2022 15:14:21	2202M07-001D	P (213.618 nm)	0.98	0.47103 (mg/L)	453.86728	0.97
3/3/2022 15:14:21	2202M07-001D	Pb (220.353 nm)	> 100.00	0.00059 u (mg/L)	7.98824	21.61
3/3/2022 15:14:21	2202M07-001D	S (181.972 nm)	2.20	1.43319 (mg/L)	94.66520	2.14
3/3/2022 15:14:21	2202M07-001D	Sb (217.582 nm)	25.25	0.01291 (mg/L)	14.65311	17.57
3/3/2022 15:14:21	2202M07-001D	Se (196.026 nm)	58.08	0.00400 (mg/L)	7.13811	24.20
3/3/2022 15:14:21	2202M07-001D	Sn (189.925 nm)	97.17	0.00196 (mg/L)	4.54803	29.35
3/3/2022 15:14:21	2202M07-001D	Sr (407.771 nm)	0.26	0.00964 (mg/L)	7836.20795	0.26
3/3/2022 15:14:21	2202M07-001D	Ti (337.280 nm)	17.88	0.00071 (mg/L)	53.04257	7.70
3/3/2022 15:14:21	2202M07-001D	Tl (351.923 nm)	9.88	0.01375 (mg/L)	14.61159	9.88
3/3/2022 15:14:21	2202M07-001D	V (311.837 nm)	0.60	0.03029 (mg/L)	1520.52214	0.60
3/3/2022 15:14:21	2202M07-001D	Zn (206.200 nm)	0.72	0.89853 (mg/L)	1583.62497	0.71
3/3/2022 15:17:11	2202M07-002D	Ag (328.068 nm)	61.34	-0.00021 u (mg/L)	-0.06099	> 100.00
3/3/2022 15:17:11	2202M07-002D	Al (308.215 nm)	1.58	0.10177 (mg/L)	878.22034	0.81
3/3/2022 15:17:11	2202M07-002D	As (193.696 nm)	> 100.00	-0.00106 u (mg/L)	4.16044	77.24
3/3/2022 15:17:11	2202M07-002D	B (249.772 nm)	0.15	0.09322 (mg/L)	2953.72656	0.14
3/3/2022 15:17:11	2202M07-002D	Ba (413.064 nm)	1.87	0.02212 (mg/L)	349.00595	1.47
3/3/2022 15:17:11	2202M07-002D	Be (313.042 nm)	3.37	0.00025 (mg/L)	813.41574	2.33
3/3/2022 15:17:11	2202M07-002D	Ca (373.690 nm)	0.09	44.52513 (mg/L)	297729.78690	0.09
3/3/2022 15:17:11	2202M07-002D	Cd (228.802 nm)	25.76	0.00047 (mg/L)	29.84376	11.19
3/3/2022 15:17:11	2202M07-002D	Co (230.786 nm)	28.42	0.00125 (mg/L)	19.74218	17.51
3/3/2022 15:17:11	2202M07-002D	Cr (267.716 nm)	> 100.00	-0.00006 u (mg/L)	27.31582	15.84
3/3/2022 15:17:11	2202M07-002D	Cu (327.395 nm)	2.71	0.00252 (mg/L)	95.96651	2.02
3/3/2022 15:17:11	2202M07-002D	Fe (238.204 nm)	1.10	-0.09998 u (mg/L)	2467.27656	1.54
3/3/2022 15:17:11	2202M07-002D	K (766.491 nm)	0.15	3.21118 (mg/L)	4254.29759	0.15
3/3/2022 15:17:11	2202M07-002D	Mg (279.800 nm)	0.33	2.55950 (mg/L)	4473.97145	0.33
3/3/2022 15:17:11	2202M07-002D	Mn (257.610 nm)	0.40	0.01634 (mg/L)	3445.22414	0.36
3/3/2022 15:17:11	2202M07-002D	Mo (204.598 nm)	14.69	0.00862 (mg/L)	36.40559	11.94
3/3/2022 15:17:11	2202M07-002D	Na (589.592 nm)	0.20	8.77426 (mg/L)	66261.73783	0.20
3/3/2022 15:17:11	2202M07-002D	Ni (221.648 nm)	> 100.00	0.00084 u (mg/L)	3.49612	74.37
3/3/2022 15:17:11	2202M07-002D	P (213.618 nm)	1.21	0.08387 (mg/L)	82.50068	1.18
3/3/2022 15:17:11	2202M07-002D	Pb (220.353 nm)	7.70	-0.00129 u (mg/L)	3.75842	5.95
3/3/2022 15:17:11	2202M07-002D	S (181.972 nm)	1.38	4.89890 (mg/L)	317.02973	1.37
3/3/2022 15:17:11	2202M07-002D	Sb (217.582 nm)	52.53	0.00397 (mg/L)	7.59662	21.69
3/3/2022 15:17:11	2202M07-002D	Se (196.026 nm)	> 100.00	0.00250 u (mg/L)	6.01952	47.84
3/3/2022 15:17:11	2202M07-002D	Sn (189.925 nm)	28.99	0.00145 (mg/L)	4.19206	7.04
3/3/2022 15:17:11	2202M07-002D	Sr (407.771 nm)	0.37	0.10697 (mg/L)	86911.69870	0.37
3/3/2022 15:17:11	2202M07-002D	Ti (337.280 nm)	> 100.00	-0.00006 u (mg/L)	28.26110	25.99
3/3/2022 15:17:11	2202M07-002D	Tl (351.923 nm)	29.06	0.00829 (mg/L)	8.80678	29.06
3/3/2022 15:17:11	2202M07-002D	V (311.837 nm)	34.25	0.00095 (mg/L)	55.63345	29.18
3/3/2022 15:17:11	2202M07-002D	Zn (206.200 nm)	0.86	0.35141 (mg/L)	627.44603	0.84
3/3/2022 15:20:02	MB-331933	Ag (328.068 nm)	94.55	-0.00009 u (mg/L)	4.84271	71.41
3/3/2022 15:20:02	MB-331933	Al (308.215 nm)	5.62	0.03159 (mg/L)	565.47867	1.40

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 15:20:02	MB-331933	As (193.696 nm)	> 100.00	0.00205 u (mg/L)	5.72069	22.64
3/3/2022 15:20:02	MB-331933	B (249.772 nm)	3.23	0.01451 (mg/L)	559.04105	2.55
3/3/2022 15:20:02	MB-331933	Ba (413.064 nm)	16.86	0.00302 (mg/L)	113.06114	5.56
3/3/2022 15:20:02	MB-331933	Be (313.042 nm)	0.32	0.00022 (mg/L)	750.20575	0.22
3/3/2022 15:20:02	MB-331933	Ca (373.690 nm)	1.85	0.08849 (mg/L)	835.64386	1.31
3/3/2022 15:20:02	MB-331933	Cd (228.802 nm)	65.26	0.00012 (mg/L)	20.24258	10.84
3/3/2022 15:20:02	MB-331933	Co (230.786 nm)	81.83	0.00044 (mg/L)	11.86397	29.57
3/3/2022 15:20:02	MB-331933	Cr (267.716 nm)	18.07	0.00044 (mg/L)	38.77740	4.66
3/3/2022 15:20:02	MB-331933	Cu (327.395 nm)	19.39	0.00226 (mg/L)	88.48965	14.05
3/3/2022 15:20:02	MB-331933	Fe (238.204 nm)	1.01	-0.06735 u (mg/L)	3597.34124	0.66
3/3/2022 15:20:02	MB-331933	K (766.491 nm)	45.38	0.04856 (mg/L)	-125.06202	24.40
3/3/2022 15:20:02	MB-331933	Mg (279.800 nm)	2.72	0.01292 (mg/L)	39.96850	1.53
3/3/2022 15:20:02	MB-331933	Mn (257.610 nm)	22.02	0.00027 (mg/L)	413.51599	2.69
3/3/2022 15:20:02	MB-331933	Mo (204.598 nm)	86.70	0.00148 (mg/L)	11.88821	36.96
3/3/2022 15:20:02	MB-331933	Na (589.592 nm)	0.65	16.07110 (mg/L)	120632.23127	0.65
3/3/2022 15:20:02	MB-331933	Ni (221.648 nm)	> 100.00	-0.00026 u (mg/L)	1.79894	43.88
3/3/2022 15:20:02	MB-331933	P (213.618 nm)	> 100.00	0.00165 u (mg/L)	3.63112	60.99
3/3/2022 15:20:02	MB-331933	Pb (220.353 nm)	> 100.00	0.00044 u (mg/L)	7.64277	41.60
3/3/2022 15:20:02	MB-331933	S (181.972 nm)	26.79	-0.02524 u (mg/L)	1.09058	39.78
3/3/2022 15:20:02	MB-331933	Sb (217.582 nm)	> 100.00	0.00066 u (mg/L)	4.98037	36.63
3/3/2022 15:20:02	MB-331933	Se (196.026 nm)	> 100.00	-0.00046 u (mg/L)	3.82244	81.13
3/3/2022 15:20:02	MB-331933	Sn (189.925 nm)	> 100.00	0.00180 u (mg/L)	4.43659	46.41
3/3/2022 15:20:02	MB-331933	Sr (407.771 nm)	12.96	0.00030 (mg/L)	243.15761	12.96
3/3/2022 15:20:02	MB-331933	Ti (337.280 nm)	> 100.00	-0.00006 u (mg/L)	28.30433	20.22
3/3/2022 15:20:02	MB-331933	Tl (351.923 nm)	44.48	0.01520 (mg/L)	16.15331	44.48
3/3/2022 15:20:02	MB-331933	V (311.837 nm)	29.94	0.00009 (mg/L)	12.57925	10.34
3/3/2022 15:20:02	MB-331933	Zn (206.200 nm)	14.90	-0.00139 u (mg/L)	10.87120	3.33
3/3/2022 15:22:52	LCS-331933	Ag (328.068 nm)	0.43	0.10224 (mg/L)	4252.43179	0.42
3/3/2022 15:22:52	LCS-331933	Al (308.215 nm)	0.54	10.26285 (mg/L)	46159.21425	0.53
3/3/2022 15:22:52	LCS-331933	As (193.696 nm)	1.06	1.00749 (mg/L)	509.09235	1.05
3/3/2022 15:22:52	LCS-331933	B (249.772 nm)	0.52	1.01721 (mg/L)	31063.95039	0.52
3/3/2022 15:22:52	LCS-331933	Ba (413.064 nm)	0.61	1.03251 (mg/L)	12829.40513	0.61
3/3/2022 15:22:52	LCS-331933	Be (313.042 nm)	1.04	1.02246 (mg/L)	2283797.08109	1.04
3/3/2022 15:22:52	LCS-331933	Ca (373.690 nm)	0.53	10.42041 (mg/L)	69866.21019	0.52
3/3/2022 15:22:52	LCS-331933	Cd (228.802 nm)	0.58	1.02870 (mg/L)	28476.87636	0.58
3/3/2022 15:22:52	LCS-331933	Co (230.786 nm)	0.60	1.03671 (mg/L)	10120.30039	0.60
3/3/2022 15:22:52	LCS-331933	Cr (267.716 nm)	0.67	1.03218 (mg/L)	23417.99365	0.67
3/3/2022 15:22:52	LCS-331933	Cu (327.395 nm)	0.70	1.03166 (mg/L)	29298.61483	0.70
3/3/2022 15:22:52	LCS-331933	Fe (238.204 nm)	0.63	10.34259 (mg/L)	364062.92978	0.62
3/3/2022 15:22:52	LCS-331933	K (766.491 nm)	0.32	10.39779 (mg/L)	14205.79704	0.32
3/3/2022 15:22:52	LCS-331933	Mg (279.800 nm)	0.46	10.24447 (mg/L)	17854.76291	0.46
3/3/2022 15:22:52	LCS-331933	Mn (257.610 nm)	0.53	1.03243 (mg/L)	195063.96262	0.53
3/3/2022 15:22:52	LCS-331933	Mo (204.598 nm)	1.28	1.07466 (mg/L)	3694.19638	1.28
3/3/2022 15:22:52	LCS-331933	Na (589.592 nm)	0.48	27.27871 (mg/L)	204142.74525	0.48
3/3/2022 15:22:52	LCS-331933	Ni (221.648 nm)	0.54	1.03365 (mg/L)	1592.53470	0.54
3/3/2022 15:22:52	LCS-331933	P (213.618 nm)	0.58	1.04608 (mg/L)	1005.46696	0.58
3/3/2022 15:22:52	LCS-331933	Pb (220.353 nm)	0.68	1.03558 (mg/L)	2332.07734	0.67
3/3/2022 15:22:52	LCS-331933	S (181.972 nm)	4.52	1.00595 (mg/L)	67.25344	4.34

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 15:22:52	LCS-331933	Sb (217.582 nm)	0.38	1.00717 (mg/L)	799.81695	0.38
3/3/2022 15:22:52	LCS-331933	Se (196.026 nm)	0.67	1.00880 (mg/L)	753.62468	0.66
3/3/2022 15:22:52	LCS-331933	Sn (189.925 nm)	0.91	1.02368 (mg/L)	721.51012	0.91
3/3/2022 15:22:52	LCS-331933	Sr (407.771 nm)	1.07	1.09282 (mg/L)	887912.17923	1.07
3/3/2022 15:22:52	LCS-331933	Ti (337.280 nm)	0.43	1.01048 (mg/L)	32554.78174	0.43
3/3/2022 15:22:52	LCS-331933	Tl (351.923 nm)	0.81	1.03886 (mg/L)	1103.92288	0.81
3/3/2022 15:22:52	LCS-331933	V (311.837 nm)	0.57	1.03269 (mg/L)	51568.57741	0.57
3/3/2022 15:22:52	LCS-331933	Zn (206.200 nm)	0.40	1.02226 (mg/L)	1799.86094	0.40
3/3/2022 15:25:43	2202M07-006B	Ag (328.068 nm)	46.20	-0.00009 u (mg/L)	4.70317	37.30
3/3/2022 15:25:43	2202M07-006B	Al (308.215 nm)	6.23	0.03771 (mg/L)	592.74545	1.77
3/3/2022 15:25:43	2202M07-006B	As (193.696 nm)	> 100.00	-0.00220 u (mg/L)	3.58856	47.87
3/3/2022 15:25:43	2202M07-006B	B (249.772 nm)	2.71	0.02150 (mg/L)	771.77414	2.29
3/3/2022 15:25:43	2202M07-006B	Ba (413.064 nm)	5.57	0.01344 (mg/L)	241.78872	3.82
3/3/2022 15:25:43	2202M07-006B	Be (313.042 nm)	5.33	0.00033 (mg/L)	991.06707	3.98
3/3/2022 15:25:43	2202M07-006B	Ca (373.690 nm)	0.30	94.83282 (mg/L)	633850.18278	0.30
3/3/2022 15:25:43	2202M07-006B	Cd (228.802 nm)	6.81	0.00039 (mg/L)	27.75178	2.67
3/3/2022 15:25:43	2202M07-006B	Co (230.786 nm)	2.92	0.00187 (mg/L)	25.81693	2.07
3/3/2022 15:25:43	2202M07-006B	Cr (267.716 nm)	64.62	0.00024 (mg/L)	34.16535	10.21
3/3/2022 15:25:43	2202M07-006B	Cu (327.395 nm)	6.86	0.00475 (mg/L)	159.20170	5.81
3/3/2022 15:25:43	2202M07-006B	Fe (238.204 nm)	2.19	-0.08759 u (mg/L)	2896.44697	2.30
3/3/2022 15:25:43	2202M07-006B	K (766.491 nm)	2.97	0.40788 (mg/L)	372.48987	4.51
3/3/2022 15:25:43	2202M07-006B	Mg (279.800 nm)	0.29	1.05315 (mg/L)	1851.18503	0.29
3/3/2022 15:25:43	2202M07-006B	Mn (257.610 nm)	0.28	0.03473 (mg/L)	6912.56394	0.26
3/3/2022 15:25:43	2202M07-006B	Mo (204.598 nm)	2.06	0.04508 (mg/L)	161.49477	1.98
3/3/2022 15:25:43	2202M07-006B	Na (589.592 nm)	0.27	195.40703 (mg/L)	1456906.28937	0.27
3/3/2022 15:25:43	2202M07-006B	Ni (221.648 nm)	0.16	0.07752 (mg/L)	121.46531	0.16
3/3/2022 15:25:43	2202M07-006B	P (213.618 nm)	0.37	2.62343 (mg/L)	2518.47810	0.37
3/3/2022 15:25:43	2202M07-006B	Pb (220.353 nm)	> 100.00	0.00037 u (mg/L)	7.49779	41.17
3/3/2022 15:25:43	2202M07-006B	S (181.972 nm)	2.50	1.13322 (mg/L)	75.41930	2.41
3/3/2022 15:25:43	2202M07-006B	Sb (217.582 nm)	> 100.00	0.00396 (mg/L)	7.58634	50.98
3/3/2022 15:25:43	2202M07-006B	Se (196.026 nm)	37.27	0.00636 (mg/L)	8.88477	19.81
3/3/2022 15:25:43	2202M07-006B	Sn (189.925 nm)	51.16	0.00430 (mg/L)	6.19046	24.93
3/3/2022 15:25:43	2202M07-006B	Sr (407.771 nm)	1.28	0.07812 (mg/L)	63473.93796	1.28
3/3/2022 15:25:43	2202M07-006B	Ti (337.280 nm)	25.84	0.00052 (mg/L)	47.09739	9.26
3/3/2022 15:25:43	2202M07-006B	Tl (351.923 nm)	50.77	0.01592 (mg/L)	16.92154	50.77
3/3/2022 15:25:43	2202M07-006B	V (311.837 nm)	3.38	0.00207 (mg/L)	111.61622	3.13
3/3/2022 15:25:43	2202M07-006B	Zn (206.200 nm)	0.36	0.33537 (mg/L)	599.42237	0.35
3/3/2022 15:28:35	2202M07-006BMS	Ag (328.068 nm)	0.33	0.10101 (mg/L)	4201.46186	0.33
3/3/2022 15:28:35	2202M07-006BMS	Al (308.215 nm)	0.56	10.60628 (mg/L)	47689.63814	0.56
3/3/2022 15:28:35	2202M07-006BMS	As (193.696 nm)	1.50	1.01478 (mg/L)	512.74362	1.48
3/3/2022 15:28:35	2202M07-006BMS	B (249.772 nm)	0.47	0.99923 (mg/L)	30516.85105	0.47
3/3/2022 15:28:35	2202M07-006BMS	Ba (413.064 nm)	0.45	1.00218 (mg/L)	12454.81920	0.45
3/3/2022 15:28:35	2202M07-006BMS	Be (313.042 nm)	0.54	1.00930 (mg/L)	2254401.58912	0.54
3/3/2022 15:28:35	2202M07-006BMS	Ca (373.690 nm)	0.49	104.04661 o (mg/L)	695410.19018	0.49
3/3/2022 15:28:35	2202M07-006BMS	Cd (228.802 nm)	0.49	1.02045 (mg/L)	28248.50257	0.49
3/3/2022 15:28:35	2202M07-006BMS	Co (230.786 nm)	0.58	1.00026 (mg/L)	9764.73200	0.58
3/3/2022 15:28:35	2202M07-006BMS	Cr (267.716 nm)	0.55	1.00610 (mg/L)	22826.93041	0.55
3/3/2022 15:28:35	2202M07-006BMS	Cu (327.395 nm)	1.00	1.03831 (mg/L)	29487.44680	1.00

220303A.esws

Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 15:28:35	2202M07-006BMS	Fe (238.204 nm)	0.61	10.03373 (mg/L)	353368.24357	0.60
3/3/2022 15:28:35	2202M07-006BMS	K (766.491 nm)	0.23	11.69857 (mg/L)	16007.03187	0.23
3/3/2022 15:28:35	2202M07-006BMS	Mg (279.800 nm)	0.49	10.92225 (mg/L)	19034.87386	0.49
3/3/2022 15:28:35	2202M07-006BMS	Mn (257.610 nm)	0.54	1.03702 (mg/L)	195928.90756	0.54
3/3/2022 15:28:35	2202M07-006BMS	Mo (204.598 nm)	1.43	1.10146 (mg/L)	3786.16270	1.42
3/3/2022 15:28:35	2202M07-006BMS	Na (589.592 nm)	0.44	204.20731 o (mg/L)	1522479.21966	0.44
3/3/2022 15:28:35	2202M07-006BMS	Ni (221.648 nm)	0.37	1.08522 (mg/L)	1671.87736	0.37
3/3/2022 15:28:35	2202M07-006BMS	P (213.618 nm)	0.35	3.74784 (mg/L)	3597.03018	0.35
3/3/2022 15:28:35	2202M07-006BMS	Pb (220.353 nm)	0.32	0.99382 (mg/L)	2238.30149	0.32
3/3/2022 15:28:35	2202M07-006BMS	S (181.972 nm)	0.94	2.14214 (mg/L)	140.15295	0.93
3/3/2022 15:28:35	2202M07-006BMS	Sb (217.582 nm)	0.54	0.99408 (mg/L)	789.48320	0.54
3/3/2022 15:28:35	2202M07-006BMS	Se (196.026 nm)	1.23	1.03293 (mg/L)	771.54774	1.23
3/3/2022 15:28:35	2202M07-006BMS	Sn (189.925 nm)	0.59	1.00515 (mg/L)	708.50211	0.59
3/3/2022 15:28:35	2202M07-006BMS	Sr (407.771 nm)	0.10	1.18235 (mg/L)	960656.09232	0.10
3/3/2022 15:28:35	2202M07-006BMS	Ti (337.280 nm)	0.35	0.98577 (mg/L)	31759.65297	0.35
3/3/2022 15:28:35	2202M07-006BMS	Tl (351.923 nm)	1.46	1.05128 (mg/L)	1117.12828	1.46
3/3/2022 15:28:35	2202M07-006BMS	V (311.837 nm)	0.45	1.02833 (mg/L)	51350.80922	0.45
3/3/2022 15:28:35	2202M07-006BMS	Zn (206.200 nm)	0.49	1.31707 (mg/L)	2315.09988	0.48
3/3/2022 15:31:25	2202M07-006BMSD	Ag (328.068 nm)	0.89	0.09820 (mg/L)	4084.76738	0.89
3/3/2022 15:31:25	2202M07-006BMSD	Al (308.215 nm)	0.82	10.33267 (mg/L)	46470.36389	0.81
3/3/2022 15:31:25	2202M07-006BMSD	As (193.696 nm)	1.15	0.98516 (mg/L)	497.91269	1.14
3/3/2022 15:31:25	2202M07-006BMSD	B (249.772 nm)	0.63	0.99250 (mg/L)	30312.05696	0.63
3/3/2022 15:31:25	2202M07-006BMSD	Ba (413.064 nm)	0.42	0.97170 (mg/L)	12078.29126	0.42
3/3/2022 15:31:25	2202M07-006BMSD	Be (313.042 nm)	0.87	0.98348 (mg/L)	2196743.99067	0.87
3/3/2022 15:31:25	2202M07-006BMSD	Ca (373.690 nm)	0.63	117.35107 o (mg/L)	784301.21143	0.63
3/3/2022 15:31:25	2202M07-006BMSD	Cd (228.802 nm)	0.59	0.99201 (mg/L)	27461.75818	0.59
3/3/2022 15:31:25	2202M07-006BMSD	Co (230.786 nm)	0.60	0.97041 (mg/L)	9473.53882	0.60
3/3/2022 15:31:25	2202M07-006BMSD	Cr (267.716 nm)	0.77	0.97524 (mg/L)	22127.57875	0.77
3/3/2022 15:31:25	2202M07-006BMSD	Cu (327.395 nm)	0.56	1.01390 (mg/L)	28794.69922	0.55
3/3/2022 15:31:25	2202M07-006BMSD	Fe (238.204 nm)	0.70	9.72555 (mg/L)	342696.70945	0.69
3/3/2022 15:31:25	2202M07-006BMSD	K (766.491 nm)	0.26	11.54902 (mg/L)	15799.93830	0.26
3/3/2022 15:31:25	2202M07-006BMSD	Mg (279.800 nm)	0.54	10.76324 (mg/L)	18758.02247	0.54
3/3/2022 15:31:25	2202M07-006BMSD	Mn (257.610 nm)	0.62	1.01139 (mg/L)	191094.83172	0.62
3/3/2022 15:31:25	2202M07-006BMSD	Mo (204.598 nm)	1.31	1.09798 (mg/L)	3774.19031	1.31
3/3/2022 15:31:25	2202M07-006BMSD	Na (589.592 nm)	0.39	230.98778 o (mg/L)	1722026.74549	0.39
3/3/2022 15:31:25	2202M07-006BMSD	Ni (221.648 nm)	0.53	1.06619 (mg/L)	1642.59445	0.53
3/3/2022 15:31:25	2202M07-006BMSD	P (213.618 nm)	0.40	4.12806 (mg/L)	3961.74670	0.40
3/3/2022 15:31:25	2202M07-006BMSD	Pb (220.353 nm)	1.06	0.96230 (mg/L)	2167.52328	1.05
3/3/2022 15:31:25	2202M07-006BMSD	S (181.972 nm)	0.51	2.31774 (mg/L)	151.41965	0.50
3/3/2022 15:31:25	2202M07-006BMSD	Sb (217.582 nm)	0.39	0.98560 (mg/L)	782.78079	0.39
3/3/2022 15:31:25	2202M07-006BMSD	Se (196.026 nm)	1.20	1.01115 (mg/L)	755.36574	1.19
3/3/2022 15:31:25	2202M07-006BMSD	Sn (189.925 nm)	0.46	1.00374 (mg/L)	707.51392	0.46
3/3/2022 15:31:25	2202M07-006BMSD	Sr (407.771 nm)	0.73	1.17504 (mg/L)	954720.20089	0.73
3/3/2022 15:31:25	2202M07-006BMSD	Ti (337.280 nm)	0.76	0.97542 (mg/L)	31426.39230	0.76
3/3/2022 15:31:25	2202M07-006BMSD	Tl (351.923 nm)	0.26	1.02428 (mg/L)	1088.43379	0.26
3/3/2022 15:31:25	2202M07-006BMSD	V (311.837 nm)	0.66	0.99777 (mg/L)	49824.91133	0.66
3/3/2022 15:31:25	2202M07-006BMSD	Zn (206.200 nm)	0.61	1.32742 (mg/L)	2333.17905	0.61
3/3/2022 15:34:14	2202M07-006BDL	Ag (328.068 nm)	1.06	0.02043 (mg/L)	856.36393	1.05

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 15:34:14	2202M07-006BDL	Al (308.215 nm)	0.33	2.08120 (mg/L)	9699.19483	0.31
3/3/2022 15:34:14	2202M07-006BDL	As (193.696 nm)	1.47	0.20865 (mg/L)	109.15333	1.41
3/3/2022 15:34:14	2202M07-006BDL	B (249.772 nm)	0.19	0.20390 (mg/L)	6320.98039	0.19
3/3/2022 15:34:14	2202M07-006BDL	Ba (413.064 nm)	0.38	0.20705 (mg/L)	2633.24688	0.37
3/3/2022 15:34:14	2202M07-006BDL	Be (313.042 nm)	0.63	0.20957 (mg/L)	468306.19034	0.63
3/3/2022 15:34:14	2202M07-006BDL	Ca (373.690 nm)	0.24	20.82332 (mg/L)	139371.09029	0.24
3/3/2022 15:34:14	2202M07-006BDL	Cd (228.802 nm)	0.68	0.20633 (mg/L)	5725.05464	0.68
3/3/2022 15:34:14	2202M07-006BDL	Co (230.786 nm)	0.38	0.20826 (mg/L)	2039.06598	0.38
3/3/2022 15:34:14	2202M07-006BDL	Cr (267.716 nm)	0.28	0.20677 (mg/L)	4714.18983	0.28
3/3/2022 15:34:14	2202M07-006BDL	Cu (327.395 nm)	0.52	0.21004 (mg/L)	5984.49082	0.52
3/3/2022 15:34:14	2202M07-006BDL	Fe (238.204 nm)	0.45	2.02995 (mg/L)	76220.46225	0.41
3/3/2022 15:34:14	2202M07-006BDL	K (766.491 nm)	1.23	2.20379 (mg/L)	2859.34023	1.31
3/3/2022 15:34:14	2202M07-006BDL	Mg (279.800 nm)	0.07	2.25353 (mg/L)	3941.24156	0.07
3/3/2022 15:34:14	2202M07-006BDL	Mn (257.610 nm)	0.31	0.21315 (mg/L)	40559.56657	0.31
3/3/2022 15:34:14	2202M07-006BDL	Mo (204.598 nm)	0.78	0.22509 (mg/L)	779.13654	0.77
3/3/2022 15:34:14	2202M07-006BDL	Na (589.592 nm)	0.22	41.20377 (mg/L)	307901.67593	0.22
3/3/2022 15:34:14	2202M07-006BDL	Ni (221.648 nm)	0.69	0.22616 (mg/L)	350.15839	0.68
3/3/2022 15:34:14	2202M07-006BDL	P (213.618 nm)	0.44	0.74958 (mg/L)	721.05417	0.44
3/3/2022 15:34:14	2202M07-006BDL	Pb (220.353 nm)	1.69	0.20645 (mg/L)	470.25756	1.66
3/3/2022 15:34:14	2202M07-006BDL	S (181.972 nm)	6.64	0.39749 (mg/L)	28.21367	6.00
3/3/2022 15:34:14	2202M07-006BDL	Sb (217.582 nm)	1.25	0.20271 (mg/L)	164.54144	1.21
3/3/2022 15:34:14	2202M07-006BDL	Se (196.026 nm)	1.98	0.21481 (mg/L)	163.75016	1.93
3/3/2022 15:34:14	2202M07-006BDL	Sn (189.925 nm)	0.59	0.20981 (mg/L)	150.40238	0.58
3/3/2022 15:34:14	2202M07-006BDL	Sr (407.771 nm)	0.23	0.22859 (mg/L)	185726.81250	0.23
3/3/2022 15:34:14	2202M07-006BDL	Ti (337.280 nm)	0.36	0.19911 (mg/L)	6438.92033	0.36
3/3/2022 15:34:14	2202M07-006BDL	Tl (351.923 nm)	2.16	0.21754 (mg/L)	231.16608	2.16
3/3/2022 15:34:14	2202M07-006BDL	V (311.837 nm)	0.44	0.20546 (mg/L)	10266.60108	0.44
3/3/2022 15:34:14	2202M07-006BDL	Zn (206.200 nm)	0.98	0.27582 (mg/L)	495.33229	0.95
3/3/2022 15:37:03	Cont Calib Verif	Ag (328.068 nm)	0.69	0.09940 (mg/L)	4134.37193	0.69
3/3/2022 15:37:03	Cont Calib Verif	Al (308.215 nm)	0.64	9.87932 (mg/L)	44450.11236	0.64
3/3/2022 15:37:03	Cont Calib Verif	As (193.696 nm)	0.46	0.99070 (mg/L)	500.68746	0.45
3/3/2022 15:37:03	Cont Calib Verif	B (249.772 nm)	0.66	0.98514 (mg/L)	30088.29318	0.65
3/3/2022 15:37:03	Cont Calib Verif	Ba (413.064 nm)	0.56	1.00484 (mg/L)	12487.61139	0.55
3/3/2022 15:37:03	Cont Calib Verif	Be (313.042 nm)	1.03	1.00350 (mg/L)	2241434.76495	1.03
3/3/2022 15:37:03	Cont Calib Verif	Ca (373.690 nm)	0.52	10.03584 (mg/L)	67296.78948	0.52
3/3/2022 15:37:03	Cont Calib Verif	Cd (228.802 nm)	0.64	1.00039 (mg/L)	27693.46397	0.64
3/3/2022 15:37:03	Cont Calib Verif	Co (230.786 nm)	0.45	1.00833 (mg/L)	9843.43831	0.45
3/3/2022 15:37:03	Cont Calib Verif	Cr (267.716 nm)	0.76	1.01033 (mg/L)	22922.84537	0.76
3/3/2022 15:37:03	Cont Calib Verif	Cu (327.395 nm)	0.79	0.99633 (mg/L)	28296.01170	0.79
3/3/2022 15:37:03	Cont Calib Verif	Fe (238.204 nm)	0.65	10.11508 (mg/L)	356184.98230	0.64
3/3/2022 15:37:03	Cont Calib Verif	K (766.491 nm)	0.49	9.90581 (mg/L)	13524.54273	0.50
3/3/2022 15:37:03	Cont Calib Verif	Mg (279.800 nm)	0.52	9.99109 (mg/L)	17413.58702	0.52
3/3/2022 15:37:03	Cont Calib Verif	Mn (257.610 nm)	0.57	1.00841 (mg/L)	190533.87272	0.57
3/3/2022 15:37:03	Cont Calib Verif	Mo (204.598 nm)	1.07	1.06961 (mg/L)	3676.87935	1.07
3/3/2022 15:37:03	Cont Calib Verif	Na (589.592 nm)	0.30	10.14101 (mg/L)	76445.77601	0.29
3/3/2022 15:37:03	Cont Calib Verif	Ni (221.648 nm)	0.50	1.00892 (mg/L)	1554.48380	0.50
3/3/2022 15:37:03	Cont Calib Verif	P (213.618 nm)	0.36	1.01324 (mg/L)	973.96100	0.36
3/3/2022 15:37:03	Cont Calib Verif	Pb (220.353 nm)	0.78	1.01016 (mg/L)	2274.98798	0.77

220303A.esws

Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 15:37:03	Cont Calib Verif	S (181.972 nm)	2.47	1.04186 (mg/L)	69.55737	2.37
3/3/2022 15:37:03	Cont Calib Verif	Sb (217.582 nm)	0.73	1.00133 (mg/L)	795.20696	0.72
3/3/2022 15:37:03	Cont Calib Verif	Se (196.026 nm)	1.39	0.99142 (mg/L)	740.70914	1.38
3/3/2022 15:37:03	Cont Calib Verif	Sn (189.925 nm)	1.02	1.02441 (mg/L)	722.01910	1.02
3/3/2022 15:37:03	Cont Calib Verif	Sr (407.771 nm)	0.74	1.07166 (mg/L)	870722.63175	0.74
3/3/2022 15:37:03	Cont Calib Verif	Ti (337.280 nm)	0.68	1.00826 (mg/L)	32483.38773	0.67
3/3/2022 15:37:03	Cont Calib Verif	Tl (351.923 nm)	1.19	1.01849 (mg/L)	1082.28323	1.19
3/3/2022 15:37:03	Cont Calib Verif	V (311.837 nm)	0.70	1.00381 (mg/L)	50126.68858	0.70
3/3/2022 15:37:03	Cont Calib Verif	Zn (206.200 nm)	1.02	0.99976 (mg/L)	1760.53671	1.02
3/3/2022 15:39:52	Cont Calib Blank	Ag (328.068 nm)	> 100.00	0.00001 u (mg/L)	8.90152	40.74
3/3/2022 15:39:52	Cont Calib Blank	Al (308.215 nm)	5.23	0.02162 (mg/L)	521.04090	0.97
3/3/2022 15:39:52	Cont Calib Blank	As (193.696 nm)	> 100.00	0.00164 u (mg/L)	5.51412	53.82
3/3/2022 15:39:52	Cont Calib Blank	B (249.772 nm)	18.83	0.00422 (mg/L)	246.12874	9.83
3/3/2022 15:39:52	Cont Calib Blank	Ba (413.064 nm)	> 100.00	0.00001 u (mg/L)	75.90714	6.43
3/3/2022 15:39:52	Cont Calib Blank	Be (313.042 nm)	4.82	0.00040 (mg/L)	1147.95301	3.76
3/3/2022 15:39:52	Cont Calib Blank	Ca (373.690 nm)	13.22	-0.00924 u (mg/L)	182.66012	4.47
3/3/2022 15:39:52	Cont Calib Blank	Cd (228.802 nm)	66.96	0.00023 (mg/L)	23.37672	18.61
3/3/2022 15:39:52	Cont Calib Blank	Co (230.786 nm)	28.74	0.00092 (mg/L)	16.55719	15.59
3/3/2022 15:39:52	Cont Calib Blank	Cr (267.716 nm)	70.61	0.00026 (mg/L)	34.64504	11.98
3/3/2022 15:39:52	Cont Calib Blank	Cu (327.395 nm)	16.31	0.00267 (mg/L)	100.04909	12.34
3/3/2022 15:39:52	Cont Calib Blank	Fe (238.204 nm)	0.22	-0.06501 u (mg/L)	3678.27093	0.14
3/3/2022 15:39:52	Cont Calib Blank	K (766.491 nm)	10.59	0.05822 (mg/L)	-111.69102	7.64
3/3/2022 15:39:52	Cont Calib Blank	Mg (279.800 nm)	77.21	0.00220 (mg/L)	21.30042	13.88
3/3/2022 15:39:52	Cont Calib Blank	Mn (257.610 nm)	94.23	0.00004 (mg/L)	370.47174	1.91
3/3/2022 15:39:52	Cont Calib Blank	Mo (204.598 nm)	43.55	0.00313 (mg/L)	17.55581	26.63
3/3/2022 15:39:52	Cont Calib Blank	Na (589.592 nm)	6.52	0.10879 (mg/L)	1693.34363	3.12
3/3/2022 15:39:52	Cont Calib Blank	Ni (221.648 nm)	66.50	0.00138 (mg/L)	4.31995	32.62
3/3/2022 15:39:52	Cont Calib Blank	P (213.618 nm)	> 100.00	0.00171 (mg/L)	3.68653	65.88
3/3/2022 15:39:52	Cont Calib Blank	Pb (220.353 nm)	> 100.00	0.00134 u (mg/L)	9.67829	35.17
3/3/2022 15:39:52	Cont Calib Blank	S (181.972 nm)	95.37	-0.01405 u (mg/L)	1.80883	47.52
3/3/2022 15:39:52	Cont Calib Blank	Sb (217.582 nm)	> 100.00	0.00477 u (mg/L)	8.22758	48.45
3/3/2022 15:39:52	Cont Calib Blank	Se (196.026 nm)	44.37	0.00463 (mg/L)	7.60184	20.07
3/3/2022 15:39:52	Cont Calib Blank	Sn (189.925 nm)	55.94	0.00278 (mg/L)	5.12479	21.29
3/3/2022 15:39:52	Cont Calib Blank	Sr (407.771 nm)	7.20	0.00020 (mg/L)	160.08005	7.20
3/3/2022 15:39:52	Cont Calib Blank	Ti (337.280 nm)	> 100.00	0.00003 u (mg/L)	31.04294	17.85
3/3/2022 15:39:52	Cont Calib Blank	Tl (351.923 nm)	15.35	0.01170 (mg/L)	12.42882	15.35
3/3/2022 15:39:52	Cont Calib Blank	V (311.837 nm)	87.63	0.00013 (mg/L)	14.76637	38.77
3/3/2022 15:39:52	Cont Calib Blank	Zn (206.200 nm)	28.42	-0.00398 u (mg/L)	6.33924	31.21
3/3/2022 15:42:41	2202M07-006BPDS	Ag (328.068 nm)	0.70	0.09712 (mg/L)	4039.60227	0.69
3/3/2022 15:42:41	2202M07-006BPDS	Al (308.215 nm)	0.83	10.11252 (mg/L)	45489.28793	0.82
3/3/2022 15:42:41	2202M07-006BPDS	As (193.696 nm)	0.62	0.98988 (mg/L)	500.27479	0.62
3/3/2022 15:42:41	2202M07-006BPDS	B (249.772 nm)	0.83	4.86121 (mg/L)	148008.44138	0.83
3/3/2022 15:42:41	2202M07-006BPDS	Ba (413.064 nm)	0.67	0.97994 (mg/L)	12180.10980	0.66
3/3/2022 15:42:41	2202M07-006BPDS	Be (313.042 nm)	1.05	0.98537 (mg/L)	2200954.82468	1.05
3/3/2022 15:42:41	2202M07-006BPDS	Ca (373.690 nm)	0.69	57.59721 (mg/L)	385068.15991	0.68
3/3/2022 15:42:41	2202M07-006BPDS	Cd (228.802 nm)	0.79	0.98763 (mg/L)	27340.61807	0.79
3/3/2022 15:42:41	2202M07-006BPDS	Co (230.786 nm)	0.74	0.97682 (mg/L)	9536.13914	0.74
3/3/2022 15:42:41	2202M07-006BPDS	Cr (267.716 nm)	0.74	0.98511 (mg/L)	22351.21325	0.74

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 15:42:41	2202M07-006BPDS	Cu (327.395 nm)	0.78	0.99011 (mg/L)	28119.59706	0.78
3/3/2022 15:42:41	2202M07-006BPDS	Fe (238.204 nm)	0.84	9.85320 (mg/L)	347116.80987	0.83
3/3/2022 15:42:41	2202M07-006BPDS	K (766.491 nm)	0.47	10.70891 (mg/L)	14636.61162	0.47
3/3/2022 15:42:41	2202M07-006BPDS	Mg (279.800 nm)	0.72	10.24243 (mg/L)	17851.20951	0.72
3/3/2022 15:42:41	2202M07-006BPDS	Mn (257.610 nm)	0.77	0.99908 (mg/L)	188772.84011	0.77
3/3/2022 15:42:41	2202M07-006BPDS	Mo (204.598 nm)	1.48	1.06510 (mg/L)	3661.39969	1.48
3/3/2022 15:42:41	2202M07-006BPDS	Na (589.592 nm)	0.46	109.11379 (mg/L)	813915.13418	0.46
3/3/2022 15:42:41	2202M07-006BPDS	Ni (221.648 nm)	0.74	1.01454 (mg/L)	1563.12233	0.74
3/3/2022 15:42:41	2202M07-006BPDS	P (213.618 nm)	0.69	12.32011 (mg/L)	11819.67134	0.69
3/3/2022 15:42:41	2202M07-006BPDS	Pb (220.353 nm)	1.03	0.97097 (mg/L)	2186.99169	1.03
3/3/2022 15:42:41	2202M07-006BPDS	S (181.972 nm)	0.78	5.69624 (mg/L)	368.18832	0.77
3/3/2022 15:42:41	2202M07-006BPDS	Sb (217.582 nm)	0.67	0.99090 (mg/L)	786.96889	0.67
3/3/2022 15:42:41	2202M07-006BPDS	Se (196.026 nm)	0.73	0.98335 (mg/L)	734.71822	0.72
3/3/2022 15:42:41	2202M07-006BPDS	Sn (189.925 nm)	1.22	1.01629 (mg/L)	716.32438	1.21
3/3/2022 15:42:41	2202M07-006BPDS	Sr (407.771 nm)	1.14	5.17881 (mg/L)	4207776.75211	1.14
3/3/2022 15:42:41	2202M07-006BPDS	Ti (337.280 nm)	0.70	0.97646 (mg/L)	31459.84786	0.70
3/3/2022 15:42:41	2202M07-006BPDS	Tl (351.923 nm)	1.34	1.01513 (mg/L)	1078.70984	1.34
3/3/2022 15:42:41	2202M07-006BPDS	V (311.837 nm)	0.83	0.99465 (mg/L)	49669.44057	0.83
3/3/2022 15:42:41	2202M07-006BPDS	Zn (206.200 nm)	1.41	1.12762 (mg/L)	1983.99141	1.40
3/3/2022 15:45:31	2203033-019A	Ag (328.068 nm)	> 100.00	-0.00009 u (mg/L)	4.58028	> 100.00
3/3/2022 15:45:31	2203033-019A	Al (308.215 nm)	2.58	0.04790 (mg/L)	638.13592	0.86
3/3/2022 15:45:31	2203033-019A	As (193.696 nm)	> 100.00	0.00041 u (mg/L)	4.89879	62.83
3/3/2022 15:45:31	2203033-019A	B (249.772 nm)	3.30	0.09438 (mg/L)	2989.11026	3.17
3/3/2022 15:45:31	2203033-019A	Ba (413.064 nm)	0.65	0.14455 (mg/L)	1861.30477	0.62
3/3/2022 15:45:31	2203033-019A	Be (313.042 nm)	5.92	0.00030 (mg/L)	923.43034	4.30
3/3/2022 15:45:31	2203033-019A	Ca (373.690 nm)	0.28	95.72709 (mg/L)	639825.09420	0.28
3/3/2022 15:45:31	2203033-019A	Cd (228.802 nm)	1.15	0.01371 (mg/L)	396.25048	1.10
3/3/2022 15:45:31	2203033-019A	Co (230.786 nm)	2.28	0.02142 (mg/L)	216.56312	2.20
3/3/2022 15:45:31	2203033-019A	Cr (267.716 nm)	39.29	0.00043 (mg/L)	38.48724	9.92
3/3/2022 15:45:31	2203033-019A	Cu (327.395 nm)	23.76	0.00335 (mg/L)	119.42202	18.91
3/3/2022 15:45:31	2203033-019A	Fe (238.204 nm)	0.37	6.99584 (mg/L)	248174.73084	0.37
3/3/2022 15:45:31	2203033-019A	K (766.491 nm)	0.85	0.85842 (mg/L)	996.37458	1.01
3/3/2022 15:45:31	2203033-019A	Mg (279.800 nm)	0.27	4.34081 (mg/L)	7575.52533	0.27
3/3/2022 15:45:31	2203033-019A	Mn (257.610 nm)	0.44	2.03359 (mg/L)	383866.81736	0.44
3/3/2022 15:45:31	2203033-019A	Mo (204.598 nm)	14.47	0.00547 (mg/L)	25.58365	10.61
3/3/2022 15:45:31	2203033-019A	Na (589.592 nm)	0.22	225.53205 o (mg/L)	1681374.87216	0.22
3/3/2022 15:45:31	2203033-019A	Ni (221.648 nm)	0.59	0.20583 (mg/L)	318.88878	0.59
3/3/2022 15:45:31	2203033-019A	P (213.618 nm)	21.35	0.01419 (mg/L)	15.65998	18.56
3/3/2022 15:45:31	2203033-019A	Pb (220.353 nm)	48.25	0.00350 (mg/L)	14.52603	26.12
3/3/2022 15:45:31	2203033-019A	S (181.972 nm)	0.71	2.05054 (mg/L)	134.27544	0.69
3/3/2022 15:45:31	2203033-019A	Sb (217.582 nm)	53.08	0.00523 (mg/L)	8.58828	25.52
3/3/2022 15:45:31	2203033-019A	Se (196.026 nm)	33.60	0.01279 (mg/L)	13.66483	23.36
3/3/2022 15:45:31	2203033-019A	Sn (189.925 nm)	41.08	0.00438 (mg/L)	6.24841	20.21
3/3/2022 15:45:31	2203033-019A	Sr (407.771 nm)	0.36	0.27569 (mg/L)	224001.29140	0.36
3/3/2022 15:45:31	2203033-019A	Ti (337.280 nm)	26.96	0.00044 (mg/L)	44.51966	8.66
3/3/2022 15:45:31	2203033-019A	Tl (351.923 nm)	26.69	0.02302 (mg/L)	24.45951	26.69
3/3/2022 15:45:31	2203033-019A	V (311.837 nm)	27.97	0.00079 (mg/L)	47.69883	23.14
3/3/2022 15:45:31	2203033-019A	Zn (206.200 nm)	0.52	18.10954 (mg/L)	31662.67601	0.52

220303A.esws

Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 15:48:20	2203033-019ADUP	Ag (328.068 nm)	7.65	0.00013 (mg/L)	13.96520	2.99
3/3/2022 15:48:20	2203033-019ADUP	Al (308.215 nm)	0.45	0.05968 (mg/L)	690.65274	0.17
3/3/2022 15:48:20	2203033-019ADUP	As (193.696 nm)	67.55	-0.00365 u (mg/L)	2.86461	43.10
3/3/2022 15:48:20	2203033-019ADUP	B (249.772 nm)	0.33	0.07581 (mg/L)	2423.92563	0.32
3/3/2022 15:48:20	2203033-019ADUP	Ba (413.064 nm)	0.84	0.15033 (mg/L)	1932.62912	0.81
3/3/2022 15:48:20	2203033-019ADUP	Be (313.042 nm)	4.34	0.00025 (mg/L)	812.82030	2.99
3/3/2022 15:48:20	2203033-019ADUP	Ca (373.690 nm)	0.36	87.58392 (mg/L)	585418.13932	0.36
3/3/2022 15:48:20	2203033-019ADUP	Cd (228.802 nm)	1.39	0.01893 (mg/L)	540.53289	1.35
3/3/2022 15:48:20	2203033-019ADUP	Co (230.786 nm)	3.44	0.01887 (mg/L)	191.64686	3.30
3/3/2022 15:48:20	2203033-019ADUP	Cr (267.716 nm)	44.12	0.00050 (mg/L)	40.04387	12.43
3/3/2022 15:48:20	2203033-019ADUP	Cu (327.395 nm)	17.14	0.00260 (mg/L)	98.08573	12.88
3/3/2022 15:48:20	2203033-019ADUP	Fe (238.204 nm)	0.44	5.44534 (mg/L)	194485.50229	0.42
3/3/2022 15:48:20	2203033-019ADUP	K (766.491 nm)	1.68	0.84456 (mg/L)	977.18196	2.01
3/3/2022 15:48:20	2203033-019ADUP	Mg (279.800 nm)	0.40	4.04032 (mg/L)	7052.31645	0.40
3/3/2022 15:48:20	2203033-019ADUP	Mn (257.610 nm)	0.34	1.71568 (mg/L)	323913.95002	0.34
3/3/2022 15:48:20	2203033-019ADUP	Mo (204.598 nm)	9.05	0.00316 (mg/L)	17.65885	5.56
3/3/2022 15:48:20	2203033-019ADUP	Na (589.592 nm)	0.23	208.86626 o (mg/L)	1557194.14976	0.23
3/3/2022 15:48:20	2203033-019ADUP	Ni (221.648 nm)	0.69	0.17364 (mg/L)	269.36228	0.69
3/3/2022 15:48:20	2203033-019ADUP	P (213.618 nm)	5.85	0.01755 (mg/L)	18.88121	5.22
3/3/2022 15:48:20	2203033-019ADUP	Pb (220.353 nm)	14.18	0.01049 (mg/L)	30.21649	11.05
3/3/2022 15:48:20	2203033-019ADUP	S (181.972 nm)	1.36	1.54778 (mg/L)	102.01746	1.32
3/3/2022 15:48:20	2203033-019ADUP	Sb (217.582 nm)	> 100.00	-0.00016 u (mg/L)	4.33147	55.94
3/3/2022 15:48:20	2203033-019ADUP	Se (196.026 nm)	50.26	0.00682 (mg/L)	9.23325	27.60
3/3/2022 15:48:20	2203033-019ADUP	Sn (189.925 nm)	50.37	0.00334 (mg/L)	5.51909	21.40
3/3/2022 15:48:20	2203033-019ADUP	Sr (407.771 nm)	0.37	0.24616 (mg/L)	200002.21784	0.37
3/3/2022 15:48:20	2203033-019ADUP	Ti (337.280 nm)	20.93	0.00078 (mg/L)	55.38365	9.51
3/3/2022 15:48:20	2203033-019ADUP	Tl (351.923 nm)	63.71	0.00823 (mg/L)	8.74215	63.71
3/3/2022 15:48:20	2203033-019ADUP	V (311.837 nm)	30.59	0.00054 (mg/L)	35.41306	23.48
3/3/2022 15:48:20	2203033-019ADUP	Zn (206.200 nm)	1.23	17.52633 (mg/L)	30643.40771	1.23
3/3/2022 15:51:10	2203033-020A	Ag (328.068 nm)	> 100.00	-0.00006 u (mg/L)	6.13578	44.26
3/3/2022 15:51:10	2203033-020A	Al (308.215 nm)	4.08	0.07265 (mg/L)	748.43285	1.76
3/3/2022 15:51:10	2203033-020A	As (193.696 nm)	> 100.00	0.00262 u (mg/L)	6.00573	66.64
3/3/2022 15:51:10	2203033-020A	B (249.772 nm)	0.48	0.09055 (mg/L)	2872.44084	0.46
3/3/2022 15:51:10	2203033-020A	Ba (413.064 nm)	0.51	0.14845 (mg/L)	1909.47739	0.49
3/3/2022 15:51:10	2203033-020A	Be (313.042 nm)	0.70	0.00036 (mg/L)	1052.28681	0.53
3/3/2022 15:51:10	2203033-020A	Ca (373.690 nm)	0.56	93.77956 (mg/L)	626813.07373	0.56
3/3/2022 15:51:10	2203033-020A	Cd (228.802 nm)	0.87	0.01678 (mg/L)	481.13489	0.84
3/3/2022 15:51:10	2203033-020A	Co (230.786 nm)	0.98	0.01913 (mg/L)	194.21504	0.94
3/3/2022 15:51:10	2203033-020A	Cr (267.716 nm)	7.83	0.00065 (mg/L)	43.53879	2.66
3/3/2022 15:51:10	2203033-020A	Cu (327.395 nm)	6.35	0.00418 (mg/L)	143.06545	5.27
3/3/2022 15:51:10	2203033-020A	Fe (238.204 nm)	0.63	4.18467 (mg/L)	150832.42604	0.60
3/3/2022 15:51:10	2203033-020A	K (766.491 nm)	1.88	1.23547 (mg/L)	1518.48635	2.12
3/3/2022 15:51:10	2203033-020A	Mg (279.800 nm)	0.49	4.22040 (mg/L)	7365.86485	0.49
3/3/2022 15:51:10	2203033-020A	Mn (257.610 nm)	0.65	1.71075 (mg/L)	322983.86004	0.65
3/3/2022 15:51:10	2203033-020A	Mo (204.598 nm)	22.43	0.00379 (mg/L)	19.82621	14.71
3/3/2022 15:51:10	2203033-020A	Na (589.592 nm)	0.45	217.22881 o (mg/L)	1619505.45090	0.45
3/3/2022 15:51:10	2203033-020A	Ni (221.648 nm)	0.54	0.23255 (mg/L)	359.99673	0.54
3/3/2022 15:51:10	2203033-020A	P (213.618 nm)	39.39	0.01277 (mg/L)	14.30112	33.74

220303A.esws

Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 15:51:10	2203033-020A	Pb (220.353 nm)	18.27	0.01107 (mg/L)	31.51523	14.41
3/3/2022 15:51:10	2203033-020A	S (181.972 nm)	1.41	1.81951 (mg/L)	119.45217	1.38
3/3/2022 15:51:10	2203033-020A	Sb (217.582 nm)	> 100.00	0.00203 u (mg/L)	6.06702	44.95
3/3/2022 15:51:10	2203033-020A	Se (196.026 nm)	44.33	0.00128 (mg/L)	5.11359	8.24
3/3/2022 15:51:10	2203033-020A	Sn (189.925 nm)	61.53	0.00330 (mg/L)	5.48940	25.95
3/3/2022 15:51:10	2203033-020A	Sr (407.771 nm)	0.65	0.25956 (mg/L)	210889.92839	0.65
3/3/2022 15:51:10	2203033-020A	Ti (337.280 nm)	5.87	0.00143 (mg/L)	76.20975	3.54
3/3/2022 15:51:10	2203033-020A	Tl (351.923 nm)	> 100.00	0.00445 u (mg/L)	4.73117	> 100.00
3/3/2022 15:51:10	2203033-020A	V (311.837 nm)	14.25	0.00076 (mg/L)	46.40759	11.72
3/3/2022 15:51:10	2203033-020A	Zn (206.200 nm)	1.65	18.52114 (mg/L)	32382.00189	1.64
3/3/2022 15:53:59	2203028-001A	Ag (328.068 nm)	> 100.00	0.00007 u (mg/L)	11.37616	52.13
3/3/2022 15:53:59	2203028-001A	Al (308.215 nm)	4.99	0.02704 (mg/L)	545.20751	1.10
3/3/2022 15:53:59	2203028-001A	As (193.696 nm)	> 100.00	-0.00060 u (mg/L)	4.39294	24.63
3/3/2022 15:53:59	2203028-001A	B (249.772 nm)	0.64	0.08728 (mg/L)	2772.82653	0.61
3/3/2022 15:53:59	2203028-001A	Ba (413.064 nm)	2.08	0.03732 (mg/L)	536.79762	1.79
3/3/2022 15:53:59	2203028-001A	Be (313.042 nm)	5.40	0.00023 (mg/L)	759.89308	3.61
3/3/2022 15:53:59	2203028-001A	Ca (373.690 nm)	0.71	227.64418 o (mg/L)	1521201.70722	0.71
3/3/2022 15:53:59	2203028-001A	Cd (228.802 nm)	8.50	0.00060 (mg/L)	33.43427	4.21
3/3/2022 15:53:59	2203028-001A	Co (230.786 nm)	13.98	0.00179 (mg/L)	25.06694	9.75
3/3/2022 15:53:59	2203028-001A	Cr (267.716 nm)	99.22	0.00018 (mg/L)	32.93214	12.55
3/3/2022 15:53:59	2203028-001A	Cu (327.395 nm)	5.67	0.00376 (mg/L)	130.99418	4.61
3/3/2022 15:53:59	2203028-001A	Fe (238.204 nm)	1.42	-0.09056 u (mg/L)	2793.56778	1.59
3/3/2022 15:53:59	2203028-001A	K (766.491 nm)	1.97	0.65917 (mg/L)	720.45933	2.50
3/3/2022 15:53:59	2203028-001A	Mg (279.800 nm)	0.58	10.05840 (mg/L)	17530.77226	0.58
3/3/2022 15:53:59	2203028-001A	Mn (257.610 nm)	0.52	0.04079 (mg/L)	8055.41067	0.49
3/3/2022 15:53:59	2203028-001A	Mo (204.598 nm)	4.08	0.05898 (mg/L)	209.20012	3.95
3/3/2022 15:53:59	2203028-001A	Na (589.592 nm)	0.38	221.88472 o (mg/L)	1654197.71926	0.38
3/3/2022 15:53:59	2203028-001A	Ni (221.648 nm)	10.70	0.00536 (mg/L)	10.45364	8.45
3/3/2022 15:53:59	2203028-001A	P (213.618 nm)	3.87	0.05585 (mg/L)	55.62254	3.73
3/3/2022 15:53:59	2203028-001A	Pb (220.353 nm)	> 100.00	-0.00069 u (mg/L)	5.11414	38.56
3/3/2022 15:53:59	2203028-001A	S (181.972 nm)	0.39	89.79025 o (mg/L)	5763.77083	0.39
3/3/2022 15:53:59	2203028-001A	Sb (217.582 nm)	> 100.00	0.00419 u (mg/L)	7.77235	56.43
3/3/2022 15:53:59	2203028-001A	Se (196.026 nm)	39.18	0.00587 (mg/L)	8.52097	20.04
3/3/2022 15:53:59	2203028-001A	Sn (189.925 nm)	65.91	0.00416 (mg/L)	6.09589	31.59
3/3/2022 15:53:59	2203028-001A	Sr (407.771 nm)	1.85	1.35990 (mg/L)	1104917.19050	1.85
3/3/2022 15:53:59	2203028-001A	Ti (337.280 nm)	3.34	0.00197 (mg/L)	93.70371	2.26
3/3/2022 15:53:59	2203028-001A	Tl (351.923 nm)	14.56	0.02156 (mg/L)	22.91312	14.56
3/3/2022 15:53:59	2203028-001A	V (311.837 nm)	12.80	0.00112 (mg/L)	64.29043	11.16
3/3/2022 15:53:59	2203028-001A	Zn (206.200 nm)	2.96	0.06505 (mg/L)	126.99346	2.65
3/3/2022 15:59:25	2203035-001A/10x	Ag (328.068 nm)	> 100.00	0.00001 u (mg/L)	8.74992	36.66
3/3/2022 15:59:25	2203035-001A/10x	Al (308.215 nm)	2.25	0.07416 (mg/L)	755.15625	0.99
3/3/2022 15:59:25	2203035-001A/10x	As (193.696 nm)	> 100.00	-0.00026 u (mg/L)	4.56244	64.44
3/3/2022 15:59:25	2203035-001A/10x	B (249.772 nm)	0.16	0.01243 (mg/L)	495.97326	0.12
3/3/2022 15:59:25	2203035-001A/10x	Ba (413.064 nm)	37.29	0.00311 (mg/L)	114.17251	12.53
3/3/2022 15:59:25	2203035-001A/10x	Be (313.042 nm)	1.68	0.00020 (mg/L)	706.15827	1.08
3/3/2022 15:59:25	2203035-001A/10x	Ca (373.690 nm)	0.59	0.63888 (mg/L)	4512.95153	0.56
3/3/2022 15:59:25	2203035-001A/10x	Cd (228.802 nm)	> 100.00	-0.00001 u (mg/L)	16.59523	19.76
3/3/2022 15:59:25	2203035-001A/10x	Co (230.786 nm)	16.48	0.00113 (mg/L)	18.57261	9.76

220303A.esws

Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 15:59:25	2203035-001A/10x	Cr (267.716 nm)	33.38	0.00037 (mg/L)	37.18826	7.56
3/3/2022 15:59:25	2203035-001A/10x	Cu (327.395 nm)	11.15	0.00186 (mg/L)	77.14494	7.63
3/3/2022 15:59:25	2203035-001A/10x	Fe (238.204 nm)	8.28	-0.01554 u (mg/L)	5391.23660	0.83
3/3/2022 15:59:25	2203035-001A/10x	K (766.491 nm)	1.48	1.02106 (mg/L)	1221.57841	1.71
3/3/2022 15:59:25	2203035-001A/10x	Mg (279.800 nm)	0.57	0.15928 (mg/L)	294.80427	0.53
3/3/2022 15:59:25	2203035-001A/10x	Mn (257.610 nm)	0.51	0.01197 (mg/L)	2619.92758	0.44
3/3/2022 15:59:25	2203035-001A/10x	Mo (204.598 nm)	98.20	0.00045 (mg/L)	8.36207	18.11
3/3/2022 15:59:25	2203035-001A/10x	Na (589.592 nm)	0.29	36.32037 (mg/L)	271514.25986	0.28
3/3/2022 15:59:25	2203035-001A/10x	Ni (221.648 nm)	69.80	0.00083 (mg/L)	3.48286	25.68
3/3/2022 15:59:25	2203035-001A/10x	P (213.618 nm)	1.45	0.12535 (mg/L)	122.28772	1.43
3/3/2022 15:59:25	2203035-001A/10x	Pb (220.353 nm)	> 100.00	-0.00036 u (mg/L)	5.85086	48.96
3/3/2022 15:59:25	2203035-001A/10x	S (181.972 nm)	0.46	15.92367 (mg/L)	1024.39372	0.46
3/3/2022 15:59:25	2203035-001A/10x	Sb (217.582 nm)	50.63	0.00340 (mg/L)	7.14455	19.02
3/3/2022 15:59:25	2203035-001A/10x	Se (196.026 nm)	> 100.00	0.00316 (mg/L)	6.50893	40.16
3/3/2022 15:59:25	2203035-001A/10x	Sn (189.925 nm)	38.09	0.00177 (mg/L)	4.41541	10.71
3/3/2022 15:59:25	2203035-001A/10x	Sr (407.771 nm)	0.80	0.00338 (mg/L)	2742.24705	0.80
3/3/2022 15:59:25	2203035-001A/10x	Ti (337.280 nm)	> 100.00	0.00001 u (mg/L)	30.69138	7.62
3/3/2022 15:59:25	2203035-001A/10x	Tl (351.923 nm)	45.03	0.01003 (mg/L)	10.65819	45.03
3/3/2022 15:59:25	2203035-001A/10x	V (311.837 nm)	96.63	0.00021 (mg/L)	18.79785	54.31
3/3/2022 15:59:25	2203035-001A/10x	Zn (206.200 nm)	19.64	0.00542 (mg/L)	22.77097	8.17
3/3/2022 16:02:15	2203035-001AMS/10x	Ag (328.068 nm)	0.63	0.00965 (mg/L)	409.03834	0.62
3/3/2022 16:02:15	2203035-001AMS/10x	Al (308.215 nm)	0.42	1.05945 (mg/L)	5145.92590	0.38
3/3/2022 16:02:15	2203035-001AMS/10x	As (193.696 nm)	2.93	0.09889 (mg/L)	54.20158	2.68
3/3/2022 16:02:15	2203035-001AMS/10x	B (249.772 nm)	0.65	0.10919 (mg/L)	3439.50146	0.63
3/3/2022 16:02:15	2203035-001AMS/10x	Ba (413.064 nm)	0.40	0.10348 (mg/L)	1353.98652	0.37
3/3/2022 16:02:15	2203035-001AMS/10x	Be (313.042 nm)	0.28	0.10068 (mg/L)	225098.19063	0.28
3/3/2022 16:02:15	2203035-001AMS/10x	Ca (373.690 nm)	0.18	1.61833 (mg/L)	11056.94465	0.18
3/3/2022 16:02:15	2203035-001AMS/10x	Cd (228.802 nm)	0.71	0.10002 (mg/L)	2784.12089	0.71
3/3/2022 16:02:15	2203035-001AMS/10x	Co (230.786 nm)	0.54	0.10302 (mg/L)	1012.54582	0.54
3/3/2022 16:02:15	2203035-001AMS/10x	Cr (267.716 nm)	0.41	0.10044 (mg/L)	2304.66891	0.40
3/3/2022 16:02:15	2203035-001AMS/10x	Cu (327.395 nm)	0.78	0.10355 (mg/L)	2962.81848	0.77
3/3/2022 16:02:15	2203035-001AMS/10x	Fe (238.204 nm)	0.64	0.97069 (mg/L)	39541.72191	0.54
3/3/2022 16:02:15	2203035-001AMS/10x	K (766.491 nm)	0.29	1.97642 (mg/L)	2544.50113	0.31
3/3/2022 16:02:15	2203035-001AMS/10x	Mg (279.800 nm)	0.29	1.14981 (mg/L)	2019.48081	0.29
3/3/2022 16:02:15	2203035-001AMS/10x	Mn (257.610 nm)	0.44	0.11249 (mg/L)	21577.74705	0.44
3/3/2022 16:02:15	2203035-001AMS/10x	Mo (204.598 nm)	2.89	0.10459 (mg/L)	365.69619	2.84
3/3/2022 16:02:15	2203035-001AMS/10x	Na (589.592 nm)	0.51	36.46328 (mg/L)	272579.13736	0.51
3/3/2022 16:02:15	2203035-001AMS/10x	Ni (221.648 nm)	1.40	0.10177 (mg/L)	158.77763	1.38
3/3/2022 16:02:15	2203035-001AMS/10x	P (213.618 nm)	0.07	0.23305 (mg/L)	225.59245	0.07
3/3/2022 16:02:15	2203035-001AMS/10x	Pb (220.353 nm)	2.04	0.09942 (mg/L)	229.90955	1.99
3/3/2022 16:02:15	2203035-001AMS/10x	S (181.972 nm)	0.58	15.78922 (mg/L)	1015.76735	0.58
3/3/2022 16:02:15	2203035-001AMS/10x	Sb (217.582 nm)	1.83	0.09486 (mg/L)	79.36775	1.73
3/3/2022 16:02:15	2203035-001AMS/10x	Se (196.026 nm)	1.28	0.09928 (mg/L)	77.91868	1.21
3/3/2022 16:02:15	2203035-001AMS/10x	Sn (189.925 nm)	2.21	0.10593 (mg/L)	77.50737	2.12
3/3/2022 16:02:15	2203035-001AMS/10x	Sr (407.771 nm)	0.24	0.10940 (mg/L)	88890.85223	0.24
3/3/2022 16:02:15	2203035-001AMS/10x	Ti (337.280 nm)	0.39	0.09803 (mg/L)	3185.70503	0.39
3/3/2022 16:02:15	2203035-001AMS/10x	Tl (351.923 nm)	6.61	0.09462 (mg/L)	100.54356	6.61
3/3/2022 16:02:15	2203035-001AMS/10x	V (311.837 nm)	0.56	0.09840 (mg/L)	4921.39078	0.56

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 16:02:15	2203035-001AMS/10x	Zn (206.200 nm)	1.14	0.10693 (mg/L)	200.17817	1.07
3/3/2022 16:05:05	2203035-001AMSD/10x	Ag (328.068 nm)	1.55	0.01024 (mg/L)	433.39252	1.52
3/3/2022 16:05:05	2203035-001AMSD/10x	Al (308.215 nm)	0.68	1.09090 (mg/L)	5286.10051	0.63
3/3/2022 16:05:05	2203035-001AMSD/10x	As (193.696 nm)	3.50	0.10356 (mg/L)	56.53842	3.21
3/3/2022 16:05:05	2203035-001AMSD/10x	B (249.772 nm)	0.80	0.11389 (mg/L)	3582.39174	0.77
3/3/2022 16:05:05	2203035-001AMSD/10x	Ba (413.064 nm)	1.04	0.10682 (mg/L)	1395.28959	0.98
3/3/2022 16:05:05	2203035-001AMSD/10x	Be (313.042 nm)	0.94	0.10385 (mg/L)	232188.47680	0.94
3/3/2022 16:05:05	2203035-001AMSD/10x	Ca (373.690 nm)	0.61	1.66448 (mg/L)	11365.27189	0.60
3/3/2022 16:05:05	2203035-001AMSD/10x	Cd (228.802 nm)	1.06	0.10303 (mg/L)	2867.27278	1.06
3/3/2022 16:05:05	2203035-001AMSD/10x	Co (230.786 nm)	0.86	0.10593 (mg/L)	1040.87068	0.85
3/3/2022 16:05:05	2203035-001AMSD/10x	Cr (267.716 nm)	0.62	0.10326 (mg/L)	2368.63136	0.61
3/3/2022 16:05:05	2203035-001AMSD/10x	Cu (327.395 nm)	0.85	0.10593 (mg/L)	3030.13565	0.85
3/3/2022 16:05:05	2203035-001AMSD/10x	Fe (238.204 nm)	0.69	1.01820 (mg/L)	41186.83040	0.59
3/3/2022 16:05:05	2203035-001AMSD/10x	K (766.491 nm)	0.51	2.07935 (mg/L)	2687.02417	0.55
3/3/2022 16:05:05	2203035-001AMSD/10x	Mg (279.800 nm)	0.74	1.18791 (mg/L)	2085.80963	0.74
3/3/2022 16:05:05	2203035-001AMSD/10x	Mn (257.610 nm)	0.57	0.11618 (mg/L)	22272.29989	0.56
3/3/2022 16:05:05	2203035-001AMSD/10x	Mo (204.598 nm)	1.90	0.10823 (mg/L)	378.17734	1.87
3/3/2022 16:05:05	2203035-001AMSD/10x	Na (589.592 nm)	0.51	38.14486 (mg/L)	285108.96321	0.51
3/3/2022 16:05:05	2203035-001AMSD/10x	Ni (221.648 nm)	1.36	0.09356 (mg/L)	146.14951	1.34
3/3/2022 16:05:05	2203035-001AMSD/10x	P (213.618 nm)	1.30	0.24184 (mg/L)	234.02402	1.29
3/3/2022 16:05:05	2203035-001AMSD/10x	Pb (220.353 nm)	0.94	0.10360 (mg/L)	239.29004	0.91
3/3/2022 16:05:05	2203035-001AMSD/10x	S (181.972 nm)	0.49	16.64516 (mg/L)	1070.68573	0.49
3/3/2022 16:05:05	2203035-001AMSD/10x	Sb (217.582 nm)	1.93	0.10152 (mg/L)	84.62792	1.83
3/3/2022 16:05:05	2203035-001AMSD/10x	Se (196.026 nm)	1.32	0.10284 (mg/L)	80.56575	1.25
3/3/2022 16:05:05	2203035-001AMSD/10x	Sn (189.925 nm)	5.81	0.11343 (mg/L)	82.76671	5.59
3/3/2022 16:05:05	2203035-001AMSD/10x	Sr (407.771 nm)	0.89	0.11626 (mg/L)	94465.20829	0.89
3/3/2022 16:05:05	2203035-001AMSD/10x	Ti (337.280 nm)	0.67	0.10245 (mg/L)	3327.87723	0.67
3/3/2022 16:05:05	2203035-001AMSD/10x	Tl (351.923 nm)	10.66	0.11015 (mg/L)	117.05355	10.66
3/3/2022 16:05:05	2203035-001AMSD/10x	V (311.837 nm)	0.75	0.10126 (mg/L)	5063.80493	0.74
3/3/2022 16:05:05	2203035-001AMSD/10x	Zn (206.200 nm)	1.07	0.10976 (mg/L)	205.11595	1.00
3/3/2022 16:07:57	2203035-001ADL/50x	Ag (328.068 nm)	11.09	0.00191 (mg/L)	87.89280	10.02
3/3/2022 16:07:57	2203035-001ADL/50x	Al (308.215 nm)	0.23	0.22278 (mg/L)	1417.48508	0.16
3/3/2022 16:07:57	2203035-001ADL/50x	As (193.696 nm)	16.18	0.01632 (mg/L)	12.86498	10.28
3/3/2022 16:07:57	2203035-001ADL/50x	B (249.772 nm)	0.04	0.02508 (mg/L)	880.77333	0.04
3/3/2022 16:07:57	2203035-001ADL/50x	Ba (413.064 nm)	1.24	0.02105 (mg/L)	335.85303	0.96
3/3/2022 16:07:57	2203035-001ADL/50x	Be (313.042 nm)	0.50	0.02002 (mg/L)	44969.89401	0.50
3/3/2022 16:07:57	2203035-001ADL/50x	Ca (373.690 nm)	0.50	0.31434 (mg/L)	2344.58547	0.45
3/3/2022 16:07:57	2203035-001ADL/50x	Cd (228.802 nm)	1.05	0.01976 (mg/L)	563.51170	1.02
3/3/2022 16:07:57	2203035-001ADL/50x	Co (230.786 nm)	0.90	0.02105 (mg/L)	212.87821	0.87
3/3/2022 16:07:57	2203035-001ADL/50x	Cr (267.716 nm)	1.11	0.02025 (mg/L)	487.60961	1.04
3/3/2022 16:07:57	2203035-001ADL/50x	Cu (327.395 nm)	1.30	0.02004 (mg/L)	593.09579	1.25
3/3/2022 16:07:57	2203035-001ADL/50x	Fe (238.204 nm)	1.37	0.13834 (mg/L)	10719.84161	0.61
3/3/2022 16:07:57	2203035-001ADL/50x	K (766.491 nm)	2.21	0.39829 (mg/L)	359.21293	3.39
3/3/2022 16:07:57	2203035-001ADL/50x	Mg (279.800 nm)	1.03	0.23209 (mg/L)	421.58118	0.99
3/3/2022 16:07:57	2203035-001ADL/50x	Mn (257.610 nm)	0.39	0.02245 (mg/L)	4595.83628	0.36
3/3/2022 16:07:57	2203035-001ADL/50x	Mo (204.598 nm)	2.75	0.02188 (mg/L)	81.88014	2.52
3/3/2022 16:07:57	2203035-001ADL/50x	Na (589.592 nm)	0.39	7.10016 (mg/L)	53787.65623	0.38
3/3/2022 16:07:57	2203035-001ADL/50x	Ni (221.648 nm)	5.24	0.02000 (mg/L)	32.97099	4.89

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 16:07:57	2203035-001ADL/50x	P (213.618 nm)	7.89	0.04365 (mg/L)	43.92235	7.52
3/3/2022 16:07:57	2203035-001ADL/50x	Pb (220.353 nm)	2.99	0.01894 (mg/L)	49.18485	2.59
3/3/2022 16:07:57	2203035-001ADL/50x	S (181.972 nm)	0.42	3.06350 (mg/L)	199.26818	0.42
3/3/2022 16:07:57	2203035-001ADL/50x	Sb (217.582 nm)	10.85	0.01789 (mg/L)	18.58509	8.25
3/3/2022 16:07:57	2203035-001ADL/50x	Se (196.026 nm)	29.00	0.02046 (mg/L)	19.36656	22.77
3/3/2022 16:07:57	2203035-001ADL/50x	Sn (189.925 nm)	10.17	0.02266 (mg/L)	19.07464	8.48
3/3/2022 16:07:57	2203035-001ADL/50x	Sr (407.771 nm)	1.57	0.02137 (mg/L)	17364.36250	1.57
3/3/2022 16:07:57	2203035-001ADL/50x	Ti (337.280 nm)	0.84	0.01902 (mg/L)	642.53508	0.80
3/3/2022 16:07:57	2203035-001ADL/50x	Tl (351.923 nm)	25.52	0.02605 (mg/L)	27.68406	25.52
3/3/2022 16:07:57	2203035-001ADL/50x	V (311.837 nm)	0.97	0.01904 (mg/L)	959.04063	0.96
3/3/2022 16:07:57	2203035-001ADL/50x	Zn (206.200 nm)	4.97	0.01876 (mg/L)	46.09463	3.54
3/3/2022 16:10:48	2203035-001APDS/20x	Ag (328.068 nm)	0.56	0.09782 (mg/L)	4068.96317	0.56
3/3/2022 16:10:48	2203035-001APDS/20x	Al (308.215 nm)	0.69	9.84774 (mg/L)	44309.37837	0.68
3/3/2022 16:10:48	2203035-001APDS/20x	As (193.696 nm)	0.84	0.97423 (mg/L)	492.44242	0.83
3/3/2022 16:10:48	2203035-001APDS/20x	B (249.772 nm)	0.69	4.84865 (mg/L)	147626.35550	0.69
3/3/2022 16:10:48	2203035-001APDS/20x	Ba (413.064 nm)	0.61	0.98595 (mg/L)	12254.37624	0.61
3/3/2022 16:10:48	2203035-001APDS/20x	Be (313.042 nm)	0.97	0.98817 (mg/L)	2207205.58294	0.97
3/3/2022 16:10:48	2203035-001APDS/20x	Ca (373.690 nm)	0.55	10.20413 (mg/L)	68421.12903	0.55
3/3/2022 16:10:48	2203035-001APDS/20x	Cd (228.802 nm)	0.71	0.98780 (mg/L)	27345.21474	0.71
3/3/2022 16:10:48	2203035-001APDS/20x	Co (230.786 nm)	0.50	0.99509 (mg/L)	9714.27510	0.50
3/3/2022 16:10:48	2203035-001APDS/20x	Cr (267.716 nm)	0.70	0.99003 (mg/L)	22462.78812	0.70
3/3/2022 16:10:48	2203035-001APDS/20x	Cu (327.395 nm)	0.78	0.97884 (mg/L)	27799.92451	0.78
3/3/2022 16:10:48	2203035-001APDS/20x	Fe (238.204 nm)	0.67	9.96632 (mg/L)	351033.81830	0.66
3/3/2022 16:10:48	2203035-001APDS/20x	K (766.491 nm)	0.27	10.43692 (mg/L)	14259.98429	0.27
3/3/2022 16:10:48	2203035-001APDS/20x	Mg (279.800 nm)	0.44	9.89814 (mg/L)	17251.74402	0.44
3/3/2022 16:10:48	2203035-001APDS/20x	Mn (257.610 nm)	0.61	0.99944 (mg/L)	188841.06548	0.61
3/3/2022 16:10:48	2203035-001APDS/20x	Mo (204.598 nm)	1.52	1.02904 (mg/L)	3537.67117	1.52
3/3/2022 16:10:48	2203035-001APDS/20x	Na (589.592 nm)	0.48	28.19292 (mg/L)	210954.72364	0.47
3/3/2022 16:10:48	2203035-001APDS/20x	Ni (221.648 nm)	0.53	0.98885 (mg/L)	1523.60982	0.53
3/3/2022 16:10:48	2203035-001APDS/20x	P (213.618 nm)	0.51	10.90136 (mg/L)	10458.78787	0.51
3/3/2022 16:10:48	2203035-001APDS/20x	Pb (220.353 nm)	0.69	0.98943 (mg/L)	2228.43570	0.69
3/3/2022 16:10:48	2203035-001APDS/20x	S (181.972 nm)	0.35	12.92196 (mg/L)	831.80015	0.34
3/3/2022 16:10:48	2203035-001APDS/20x	Sb (217.582 nm)	0.56	0.98152 (mg/L)	779.56152	0.55
3/3/2022 16:10:48	2203035-001APDS/20x	Se (196.026 nm)	0.59	0.96878 (mg/L)	723.89024	0.58
3/3/2022 16:10:48	2203035-001APDS/20x	Sn (189.925 nm)	0.44	1.00753 (mg/L)	710.17597	0.44
3/3/2022 16:10:48	2203035-001APDS/20x	Sr (407.771 nm)	0.60	5.07914 (mg/L)	4126795.04603	0.60
3/3/2022 16:10:48	2203035-001APDS/20x	Ti (337.280 nm)	0.61	0.97799 (mg/L)	31509.22897	0.61
3/3/2022 16:10:48	2203035-001APDS/20x	Tl (351.923 nm)	1.36	0.99129 (mg/L)	1053.37390	1.36
3/3/2022 16:10:48	2203035-001APDS/20x	V (311.837 nm)	0.62	0.98830 (mg/L)	49351.97230	0.62
3/3/2022 16:10:48	2203035-001APDS/20x	Zn (206.200 nm)	0.72	0.99015 (mg/L)	1743.74706	0.71
3/3/2022 16:13:39	Cont Calib Verif	Ag (328.068 nm)	0.40	0.10048 (mg/L)	4179.30076	0.40
3/3/2022 16:13:39	Cont Calib Verif	Al (308.215 nm)	0.67	9.97853 (mg/L)	44892.22209	0.67
3/3/2022 16:13:39	Cont Calib Verif	As (193.696 nm)	0.84	0.99514 (mg/L)	502.90879	0.83
3/3/2022 16:13:39	Cont Calib Verif	B (249.772 nm)	0.32	1.00499 (mg/L)	30692.19860	0.31
3/3/2022 16:13:39	Cont Calib Verif	Ba (413.064 nm)	0.65	1.01398 (mg/L)	12600.55280	0.64
3/3/2022 16:13:39	Cont Calib Verif	Be (313.042 nm)	0.95	1.01404 (mg/L)	2264984.29727	0.95
3/3/2022 16:13:39	Cont Calib Verif	Ca (373.690 nm)	0.67	10.13791 (mg/L)	67978.72879	0.67
3/3/2022 16:13:39	Cont Calib Verif	Cd (228.802 nm)	0.63	1.01001 (mg/L)	27959.73495	0.63

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 16:13:39	Cont Calib Verif	Co (230.786 nm)	0.64	1.01708 (mg/L)	9928.84280	0.64
3/3/2022 16:13:39	Cont Calib Verif	Cr (267.716 nm)	0.69	1.02112 (mg/L)	23167.23100	0.68
3/3/2022 16:13:39	Cont Calib Verif	Cu (327.395 nm)	0.69	1.00730 (mg/L)	28607.36272	0.69
3/3/2022 16:13:39	Cont Calib Verif	Fe (238.204 nm)	0.74	10.19917 (mg/L)	359096.94093	0.73
3/3/2022 16:13:39	Cont Calib Verif	K (766.491 nm)	0.32	10.01832 (mg/L)	13680.33808	0.32
3/3/2022 16:13:39	Cont Calib Verif	Mg (279.800 nm)	0.44	10.06578 (mg/L)	17543.63080	0.44
3/3/2022 16:13:39	Cont Calib Verif	Mn (257.610 nm)	0.69	1.01932 (mg/L)	192590.46700	0.69
3/3/2022 16:13:39	Cont Calib Verif	Mo (204.598 nm)	1.02	1.08630 (mg/L)	3734.12384	1.02
3/3/2022 16:13:39	Cont Calib Verif	Na (589.592 nm)	0.37	10.14599 (mg/L)	76482.85895	0.37
3/3/2022 16:13:39	Cont Calib Verif	Ni (221.648 nm)	0.30	1.01698 (mg/L)	1566.88849	0.30
3/3/2022 16:13:39	Cont Calib Verif	P (213.618 nm)	0.57	1.13055 Q (mg/L)	1086.48970 Q	0.57
3/3/2022 16:13:39	Cont Calib Verif	Pb (220.353 nm)	0.42	1.02051 (mg/L)	2298.22875	0.42
3/3/2022 16:13:39	Cont Calib Verif	S (181.972 nm)	2.23	1.05809 (mg/L)	70.59843	2.14
3/3/2022 16:13:39	Cont Calib Verif	Sb (217.582 nm)	0.62	1.01072 (mg/L)	802.62132	0.61
3/3/2022 16:13:39	Cont Calib Verif	Se (196.026 nm)	1.03	0.99694 (mg/L)	744.81065	1.03
3/3/2022 16:13:39	Cont Calib Verif	Sn (189.925 nm)	0.88	1.03118 (mg/L)	726.77208	0.88
3/3/2022 16:13:39	Cont Calib Verif	Sr (407.771 nm)	1.64	1.10266 Q (mg/L)	895909.53110 Q	1.64
3/3/2022 16:13:39	Cont Calib Verif	Ti (337.280 nm)	0.74	1.01694 (mg/L)	32762.96978	0.74
3/3/2022 16:13:39	Cont Calib Verif	Tl (351.923 nm)	1.56	1.01603 (mg/L)	1079.67100	1.56
3/3/2022 16:13:39	Cont Calib Verif	V (311.837 nm)	0.71	1.01398 (mg/L)	50634.33214	0.71
3/3/2022 16:13:39	Cont Calib Verif	Zn (206.200 nm)	0.55	1.00752 (mg/L)	1774.10482	0.55
3/3/2022 16:16:28	Cont Calib Blank	Ag (328.068 nm)	> 100.00	-0.00006 u (mg/L)	6.16506	67.59
3/3/2022 16:16:28	Cont Calib Blank	Al (308.215 nm)	2.29	0.03518 (mg/L)	581.48221	0.62
3/3/2022 16:16:28	Cont Calib Blank	As (193.696 nm)	> 100.00	0.00428 u (mg/L)	6.83295	33.52
3/3/2022 16:16:28	Cont Calib Blank	B (249.772 nm)	15.26	0.00620 (mg/L)	306.27677	9.40
3/3/2022 16:16:28	Cont Calib Blank	Ba (413.064 nm)	24.25	0.00115 (mg/L)	89.98548	3.82
3/3/2022 16:16:28	Cont Calib Blank	Be (313.042 nm)	6.51	0.00031 (mg/L)	942.52664	4.77
3/3/2022 16:16:28	Cont Calib Blank	Ca (373.690 nm)	5.22	-0.00923 u (mg/L)	182.74513	1.76
3/3/2022 16:16:28	Cont Calib Blank	Cd (228.802 nm)	85.93	0.00012 (mg/L)	20.07923	13.68
3/3/2022 16:16:28	Cont Calib Blank	Co (230.786 nm)	32.61	0.00094 (mg/L)	16.74504	17.85
3/3/2022 16:16:28	Cont Calib Blank	Cr (267.716 nm)	71.98	0.00017 (mg/L)	32.62178	8.51
3/3/2022 16:16:28	Cont Calib Blank	Cu (327.395 nm)	30.87	0.00213 (mg/L)	84.88934	22.00
3/3/2022 16:16:28	Cont Calib Blank	Fe (238.204 nm)	1.61	-0.07395 u (mg/L)	3368.59647	1.22
3/3/2022 16:16:28	Cont Calib Blank	K (766.491 nm)	> 100.00	0.01045 (mg/L)	-177.82974	10.10
3/3/2022 16:16:28	Cont Calib Blank	Mg (279.800 nm)	44.78	0.00212 (mg/L)	21.16880	7.82
3/3/2022 16:16:28	Cont Calib Blank	Mn (257.610 nm)	94.33	-0.00005 u (mg/L)	352.76404	2.73
3/3/2022 16:16:28	Cont Calib Blank	Mo (204.598 nm)	26.52	0.00374 (mg/L)	19.64612	17.31
3/3/2022 16:16:28	Cont Calib Blank	Na (589.592 nm)	4.00	0.07922 (mg/L)	1472.97440	1.60
3/3/2022 16:16:28	Cont Calib Blank	Ni (221.648 nm)	> 100.00	0.00080 u (mg/L)	3.43114	52.42
3/3/2022 16:16:28	Cont Calib Blank	P (213.618 nm)	> 100.00	0.00034 u (mg/L)	2.37561	88.86
3/3/2022 16:16:28	Cont Calib Blank	Pb (220.353 nm)	> 100.00	0.00058 u (mg/L)	7.96809	22.70
3/3/2022 16:16:28	Cont Calib Blank	S (181.972 nm)	> 100.00	-0.00525 u (mg/L)	2.37351	63.13
3/3/2022 16:16:28	Cont Calib Blank	Sb (217.582 nm)	51.86	0.00481 (mg/L)	8.25667	23.85
3/3/2022 16:16:28	Cont Calib Blank	Se (196.026 nm)	34.13	0.00725 (mg/L)	9.54653	19.24
3/3/2022 16:16:28	Cont Calib Blank	Sn (189.925 nm)	59.50	0.00355 (mg/L)	5.66575	26.17
3/3/2022 16:16:28	Cont Calib Blank	Sr (407.771 nm)	10.11	0.00021 (mg/L)	170.47927	10.11
3/3/2022 16:16:28	Cont Calib Blank	Ti (337.280 nm)	> 100.00	-0.00019 u (mg/L)	24.25258	38.29
3/3/2022 16:16:28	Cont Calib Blank	Tl (351.923 nm)	19.70	0.01153 (mg/L)	12.25258	19.70

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 16:16:28	Cont Calib Blank	V (311.837 nm)	> 100.00	0.00007 u (mg/L)	11.55618	46.91
3/3/2022 16:16:28	Cont Calib Blank	Zn (206.200 nm)	19.72	-0.00456 u (mg/L)	5.33063	29.48
3/3/2022 16:19:17	2203132-001A/10x	Ag (328.068 nm)	> 100.00	-0.00011 u (mg/L)	3.92581	> 100.00
3/3/2022 16:19:17	2203132-001A/10x	Al (308.215 nm)	0.54	2.76733 (mg/L)	12756.79426	0.52
3/3/2022 16:19:17	2203132-001A/10x	As (193.696 nm)	91.66	0.00272 (mg/L)	6.05639	20.64
3/3/2022 16:19:17	2203132-001A/10x	B (249.772 nm)	0.77	0.02090 (mg/L)	753.51945	0.65
3/3/2022 16:19:17	2203132-001A/10x	Ba (413.064 nm)	> 100.00	0.00048 u (mg/L)	81.67168	11.49
3/3/2022 16:19:17	2203132-001A/10x	Be (313.042 nm)	1.64	0.00026 (mg/L)	840.54254	1.15
3/3/2022 16:19:17	2203132-001A/10x	Ca (373.690 nm)	1.25	0.03976 (mg/L)	510.05281	0.65
3/3/2022 16:19:17	2203132-001A/10x	Cd (228.802 nm)	23.57	0.00014 (mg/L)	20.72463	4.37
3/3/2022 16:19:17	2203132-001A/10x	Co (230.786 nm)	29.41	0.00090 (mg/L)	16.38091	15.81
3/3/2022 16:19:17	2203132-001A/10x	Cr (267.716 nm)	37.28	0.00034 (mg/L)	36.54290	7.93
3/3/2022 16:19:17	2203132-001A/10x	Cu (327.395 nm)	9.03	0.00160 (mg/L)	69.88574	5.88
3/3/2022 16:19:17	2203132-001A/10x	Fe (238.204 nm)	0.32	0.07213 (mg/L)	8426.93150	0.09
3/3/2022 16:19:17	2203132-001A/10x	K (766.491 nm)	0.34	25.36640 (mg/L)	34933.24273	0.34
3/3/2022 16:19:17	2203132-001A/10x	Mg (279.800 nm)	0.69	0.14109 (mg/L)	263.12695	0.64
3/3/2022 16:19:17	2203132-001A/10x	Mn (257.610 nm)	0.51	0.13145 (mg/L)	25151.97525	0.50
3/3/2022 16:19:17	2203132-001A/10x	Mo (204.598 nm)	2.78	0.00644 (mg/L)	28.91819	2.12
3/3/2022 16:19:17	2203132-001A/10x	Na (589.592 nm)	0.35	33.70359 (mg/L)	252016.01779	0.35
3/3/2022 16:19:17	2203132-001A/10x	Ni (221.648 nm)	50.55	0.00128 (mg/L)	4.17670	23.91
3/3/2022 16:19:17	2203132-001A/10x	P (213.618 nm)	5.48	0.03932 (mg/L)	39.76562	5.20
3/3/2022 16:19:17	2203132-001A/10x	Pb (220.353 nm)	> 100.00	-0.00059 u (mg/L)	5.34496	48.26
3/3/2022 16:19:17	2203132-001A/10x	S (181.972 nm)	0.51	32.23872 (mg/L)	2071.18885	0.51
3/3/2022 16:19:17	2203132-001A/10x	Sb (217.582 nm)	> 100.00	0.00214 u (mg/L)	6.15172	43.39
3/3/2022 16:19:17	2203132-001A/10x	Se (196.026 nm)	> 100.00	-0.00036 u (mg/L)	3.89514	11.53
3/3/2022 16:19:17	2203132-001A/10x	Sn (189.925 nm)	> 100.00	0.00128 u (mg/L)	4.06890	36.27
3/3/2022 16:19:17	2203132-001A/10x	Sr (407.771 nm)	3.25	0.00077 (mg/L)	623.53035	3.25
3/3/2022 16:19:17	2203132-001A/10x	Ti (337.280 nm)	> 100.00	-0.00006 u (mg/L)	28.20656	24.49
3/3/2022 16:19:17	2203132-001A/10x	Tl (351.923 nm)	23.42	0.01204 (mg/L)	12.79128	23.42
3/3/2022 16:19:17	2203132-001A/10x	V (311.837 nm)	> 100.00	0.00006 u (mg/L)	11.14971	35.32
3/3/2022 16:19:17	2203132-001A/10x	Zn (206.200 nm)	11.73	0.00362 (mg/L)	19.62333	3.78
3/3/2022 16:22:07	2203132-001AMS/10x	Ag (328.068 nm)	1.87	0.00996 (mg/L)	421.71704	1.83
3/3/2022 16:22:07	2203132-001AMS/10x	Al (308.215 nm)	0.47	3.80618 (mg/L)	17386.23443	0.46
3/3/2022 16:22:07	2203132-001AMS/10x	As (193.696 nm)	0.55	0.09561 (mg/L)	52.55813	0.50
3/3/2022 16:22:07	2203132-001AMS/10x	B (249.772 nm)	0.24	0.11793 (mg/L)	3705.31115	0.23
3/3/2022 16:22:07	2203132-001AMS/10x	Ba (413.064 nm)	0.98	0.10148 (mg/L)	1329.32614	0.93
3/3/2022 16:22:07	2203132-001AMS/10x	Be (313.042 nm)	0.27	0.09991 (mg/L)	223381.48872	0.27
3/3/2022 16:22:07	2203132-001AMS/10x	Ca (373.690 nm)	0.45	1.04224 (mg/L)	7207.87297	0.44
3/3/2022 16:22:07	2203132-001AMS/10x	Cd (228.802 nm)	0.88	0.10025 (mg/L)	2790.33231	0.87
3/3/2022 16:22:07	2203132-001AMS/10x	Co (230.786 nm)	0.81	0.10320 (mg/L)	1014.22492	0.80
3/3/2022 16:22:07	2203132-001AMS/10x	Cr (267.716 nm)	0.49	0.10048 (mg/L)	2305.61421	0.48
3/3/2022 16:22:07	2203132-001AMS/10x	Cu (327.395 nm)	1.26	0.10246 (mg/L)	2931.82799	1.25
3/3/2022 16:22:07	2203132-001AMS/10x	Fe (238.204 nm)	0.55	1.10011 (mg/L)	44023.10550	0.48
3/3/2022 16:22:07	2203132-001AMS/10x	K (766.491 nm)	0.19	26.71451 (mg/L)	36800.01087	0.19
3/3/2022 16:22:07	2203132-001AMS/10x	Mg (279.800 nm)	0.50	1.13853 (mg/L)	1999.83501	0.49
3/3/2022 16:22:07	2203132-001AMS/10x	Mn (257.610 nm)	0.43	0.23368 (mg/L)	44431.32992	0.42
3/3/2022 16:22:07	2203132-001AMS/10x	Mo (204.598 nm)	1.98	0.11193 (mg/L)	390.88212	1.95
3/3/2022 16:22:07	2203132-001AMS/10x	Na (589.592 nm)	0.21	35.19813 (mg/L)	263152.22727	0.20

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 19:52:48	2203182-003C	Mg (279.800 nm)	0.14	1.75531 (mg/L)	3073.75243	0.14
3/3/2022 19:52:48	2203182-003C	Mn (257.610 nm)	0.14	2.08953 (mg/L)	394414.85746	0.14
3/3/2022 19:52:48	2203182-003C	Mo (204.598 nm)	> 100.00	0.00013 u (mg/L)	7.25293	12.83
3/3/2022 19:52:48	2203182-003C	Na (589.592 nm)	0.47	3.88282 (mg/L)	29814.51803	0.45
3/3/2022 19:52:48	2203182-003C	Ni (221.648 nm)	> 100.00	0.00207 u (mg/L)	5.38188	71.12
3/3/2022 19:52:48	2203182-003C	P (213.618 nm)	1.28	0.04164 (mg/L)	41.98704	1.22
3/3/2022 19:52:48	2203182-003C	Pb (220.353 nm)	43.64	0.00115 (mg/L)	9.24894	12.21
3/3/2022 19:52:48	2203182-003C	S (181.972 nm)	0.47	3.21827 (mg/L)	209.19870	0.46
3/3/2022 19:52:48	2203182-003C	Sb (217.582 nm)	> 100.00	0.00309 u (mg/L)	6.89917	42.60
3/3/2022 19:52:48	2203182-003C	Se (196.026 nm)	96.01	0.00444 (mg/L)	7.46561	42.47
3/3/2022 19:52:48	2203182-003C	Sn (189.925 nm)	> 100.00	0.00109 u (mg/L)	3.93686	31.56
3/3/2022 19:52:48	2203182-003C	Sr (407.771 nm)	1.19	0.02224 (mg/L)	18069.43071	1.19
3/3/2022 19:52:48	2203182-003C	Ti (337.280 nm)	23.84	-0.00023 u (mg/L)	22.75327	7.82
3/3/2022 19:52:48	2203182-003C	Tl (351.923 nm)	45.11	0.00553 (mg/L)	5.87934	45.11
3/3/2022 19:52:48	2203182-003C	V (311.837 nm)	> 100.00	0.00013 u (mg/L)	14.83602	69.82
3/3/2022 19:52:48	2203182-003C	Zn (206.200 nm)	11.35	0.00548 (mg/L)	22.88126	4.75
3/3/2022 19:55:38	Cont Calib Verif	Ag (328.068 nm)	0.40	0.09587 (mg/L)	3987.91106	0.40
3/3/2022 19:55:38	Cont Calib Verif	Al (308.215 nm)	0.62	9.56030 (mg/L)	43028.41645	0.61
3/3/2022 19:55:38	Cont Calib Verif	As (193.696 nm)	1.17	0.94548 (mg/L)	478.04709	1.15
3/3/2022 19:55:38	Cont Calib Verif	B (249.772 nm)	0.71	0.94025 (mg/L)	28722.69908	0.70
3/3/2022 19:55:38	Cont Calib Verif	Ba (413.064 nm)	0.60	0.97168 (mg/L)	12078.12417	0.60
3/3/2022 19:55:38	Cont Calib Verif	Be (313.042 nm)	0.58	0.96352 (mg/L)	2152156.97799	0.58
3/3/2022 19:55:38	Cont Calib Verif	Ca (373.690 nm)	0.55	9.67145 (mg/L)	64862.16902	0.55
3/3/2022 19:55:38	Cont Calib Verif	Cd (228.802 nm)	0.68	0.96242 (mg/L)	26643.08548	0.68
3/3/2022 19:55:38	Cont Calib Verif	Co (230.786 nm)	0.64	0.96993 (mg/L)	9468.86556	0.64
3/3/2022 19:55:38	Cont Calib Verif	Cr (267.716 nm)	0.75	0.96648 (mg/L)	21929.04385	0.75
3/3/2022 19:55:38	Cont Calib Verif	Cu (327.395 nm)	0.83	0.96109 (mg/L)	27296.10959	0.83
3/3/2022 19:55:38	Cont Calib Verif	Fe (238.204 nm)	0.69	9.88311 (mg/L)	348152.73273	0.68
3/3/2022 19:55:38	Cont Calib Verif	K (766.491 nm)	0.14	9.60275 (mg/L)	13104.89016	0.14
3/3/2022 19:55:38	Cont Calib Verif	Mg (279.800 nm)	0.52	9.61171 (mg/L)	16753.02421	0.52
3/3/2022 19:55:38	Cont Calib Verif	Mn (257.610 nm)	0.56	0.96659 (mg/L)	182646.98275	0.56
3/3/2022 19:55:38	Cont Calib Verif	Mo (204.598 nm)	1.34	1.02513 (mg/L)	3524.24925	1.34
3/3/2022 19:55:38	Cont Calib Verif	Na (589.592 nm)	0.28	9.87759 (mg/L)	74482.95089	0.28
3/3/2022 19:55:38	Cont Calib Verif	Ni (221.648 nm)	0.38	0.97328 (mg/L)	1499.63986	0.38
3/3/2022 19:55:38	Cont Calib Verif	P (213.618 nm)	0.70	1.00338 (mg/L)	964.50737	0.70
3/3/2022 19:55:38	Cont Calib Verif	Pb (220.353 nm)	0.78	0.97524 (mg/L)	2196.57160	0.78
3/3/2022 19:55:38	Cont Calib Verif	S (181.972 nm)	0.17	1.06815 (mg/L)	71.24404	0.17
3/3/2022 19:55:38	Cont Calib Verif	Sb (217.582 nm)	0.64	0.96946 (mg/L)	770.03401	0.63
3/3/2022 19:55:38	Cont Calib Verif	Se (196.026 nm)	0.79	0.96025 (mg/L)	717.55590	0.79
3/3/2022 19:55:38	Cont Calib Verif	Sn (189.925 nm)	1.01	0.98009 (mg/L)	690.91838	1.01
3/3/2022 19:55:38	Cont Calib Verif	Sr (407.771 nm)	0.89	1.00915 (mg/L)	819933.71928	0.89
3/3/2022 19:55:38	Cont Calib Verif	Ti (337.280 nm)	0.54	0.97845 (mg/L)	31524.02533	0.54
3/3/2022 19:55:38	Cont Calib Verif	Tl (351.923 nm)	0.95	0.96644 (mg/L)	1026.96820	0.95
3/3/2022 19:55:38	Cont Calib Verif	V (311.837 nm)	0.70	0.97048 (mg/L)	48462.53225	0.70
3/3/2022 19:55:38	Cont Calib Verif	Zn (206.200 nm)	0.94	0.96781 (mg/L)	1704.70727	0.93
3/3/2022 19:58:27	Cont Calib Blank	Ag (328.068 nm)	25.97	-0.00018 u (mg/L)	0.94022	> 100.00
3/3/2022 19:58:27	Cont Calib Blank	Al (308.215 nm)	2.41	0.04658 (mg/L)	632.28310	0.79
3/3/2022 19:58:27	Cont Calib Blank	As (193.696 nm)	> 100.00	0.00205 u (mg/L)	5.72091	38.02

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 19:58:27	Cont Calib Blank	B (249.772 nm)	26.24	0.00296 (mg/L)	207.80251	11.38
3/3/2022 19:58:27	Cont Calib Blank	Ba (413.064 nm)	87.19	0.00068 (mg/L)	84.20925	8.71
3/3/2022 19:58:27	Cont Calib Blank	Be (313.042 nm)	2.63	0.00042 (mg/L)	1182.31572	2.07
3/3/2022 19:58:27	Cont Calib Blank	Ca (373.690 nm)	20.64	0.00336 (mg/L)	266.83545	1.74
3/3/2022 19:58:27	Cont Calib Blank	Cd (228.802 nm)	> 100.00	0.00005 u (mg/L)	18.39582	20.37
3/3/2022 19:58:27	Cont Calib Blank	Co (230.786 nm)	16.15	0.00059 (mg/L)	13.32745	6.97
3/3/2022 19:58:27	Cont Calib Blank	Cr (267.716 nm)	70.71	-0.00017 u (mg/L)	24.90208	10.97
3/3/2022 19:58:27	Cont Calib Blank	Cu (327.395 nm)	19.49	0.00216 (mg/L)	85.78384	13.95
3/3/2022 19:58:27	Cont Calib Blank	Fe (238.204 nm)	2.88	0.07908 (mg/L)	8667.81140	0.91
3/3/2022 19:58:27	Cont Calib Blank	K (766.491 nm)	14.86	0.09635 (mg/L)	-58.89087	33.67
3/3/2022 19:58:27	Cont Calib Blank	Mg (279.800 nm)	53.11	-0.00109 u (mg/L)	15.56901	6.49
3/3/2022 19:58:27	Cont Calib Blank	Mn (257.610 nm)	6.03	0.00088 (mg/L)	529.03964	1.89
3/3/2022 19:58:27	Cont Calib Blank	Mo (204.598 nm)	26.79	0.00255 (mg/L)	15.56659	15.05
3/3/2022 19:58:27	Cont Calib Blank	Na (589.592 nm)	2.99	0.15475 (mg/L)	2035.76857	1.70
3/3/2022 19:58:27	Cont Calib Blank	Ni (221.648 nm)	> 100.00	-0.00017 u (mg/L)	1.93413	30.88
3/3/2022 19:58:27	Cont Calib Blank	P (213.618 nm)	14.30	0.02589 (mg/L)	26.88813	13.21
3/3/2022 19:58:27	Cont Calib Blank	Pb (220.353 nm)	45.38	0.00080 (mg/L)	8.46771	9.68
3/3/2022 19:58:27	Cont Calib Blank	S (181.972 nm)	44.93	0.05688 Z (mg/L)	6.35983 Z	25.78
3/3/2022 19:58:27	Cont Calib Blank	Sb (217.582 nm)	> 100.00	0.00154 u (mg/L)	5.67323	37.09
3/3/2022 19:58:27	Cont Calib Blank	Se (196.026 nm)	44.65	0.00649 (mg/L)	8.98419	23.96
3/3/2022 19:58:27	Cont Calib Blank	Sn (189.925 nm)	> 100.00	0.00148 u (mg/L)	4.21514	46.83
3/3/2022 19:58:27	Cont Calib Blank	Sr (407.771 nm)	12.57	0.00021 (mg/L)	173.39239	12.57
3/3/2022 19:58:27	Cont Calib Blank	Ti (337.280 nm)	7.86	0.00021 (mg/L)	37.01965	1.44
3/3/2022 19:58:27	Cont Calib Blank	Tl (351.923 nm)	26.49	0.01597 (mg/L)	16.96580	26.49
3/3/2022 19:58:27	Cont Calib Blank	V (311.837 nm)	> 100.00	0.00007 u (mg/L)	11.85432	45.29
3/3/2022 19:58:27	Cont Calib Blank	Zn (206.200 nm)	15.72	-0.00314 u (mg/L)	7.81500	11.03
3/3/2022 20:01:17	2203182-004C	Ag (328.068 nm)	> 100.00	-0.00001 u (mg/L)	8.06426	64.16
3/3/2022 20:01:17	2203182-004C	Al (308.215 nm)	16.76	0.86740 (mg/L)	4290.09669	15.10
3/3/2022 20:01:17	2203182-004C	As (193.696 nm)	> 100.00	-0.00304 u (mg/L)	3.17242	60.60
3/3/2022 20:01:17	2203182-004C	B (249.772 nm)	1.90	0.00872 (mg/L)	382.81024	1.32
3/3/2022 20:01:17	2203182-004C	Ba (413.064 nm)	7.27	0.01052 (mg/L)	205.73108	4.59
3/3/2022 20:01:17	2203182-004C	Be (313.042 nm)	0.92	0.00059 (mg/L)	1572.70622	0.77
3/3/2022 20:01:17	2203182-004C	Ca (373.690 nm)	0.70	2.17543 (mg/L)	14779.09136	0.69
3/3/2022 20:01:17	2203182-004C	Cd (228.802 nm)	91.45	0.00029 (mg/L)	25.01061	29.73
3/3/2022 20:01:17	2203182-004C	Co (230.786 nm)	13.40	0.00389 (mg/L)	45.53343	11.17
3/3/2022 20:01:17	2203182-004C	Cr (267.716 nm)	42.72	0.00032 (mg/L)	35.98117	8.57
3/3/2022 20:01:17	2203182-004C	Cu (327.395 nm)	35.89	0.00055 (mg/L)	40.10555	14.07
3/3/2022 20:01:17	2203182-004C	Fe (238.204 nm)	6.65	1.44261 (mg/L)	55882.88327	5.94
3/3/2022 20:01:17	2203182-004C	K (766.491 nm)	2.48	0.39219 (mg/L)	350.76870	3.84
3/3/2022 20:01:17	2203182-004C	Mg (279.800 nm)	0.29	0.83860 (mg/L)	1477.60376	0.29
3/3/2022 20:01:17	2203182-004C	Mn (257.610 nm)	0.72	0.01664 (mg/L)	3500.78315	0.65
3/3/2022 20:01:17	2203182-004C	Mo (204.598 nm)	67.76	0.00131 (mg/L)	11.30494	26.88
3/3/2022 20:01:17	2203182-004C	Na (589.592 nm)	0.31	1.91407 (mg/L)	15144.89334	0.29
3/3/2022 20:01:17	2203182-004C	Ni (221.648 nm)	25.86	-0.33848 u (mg/L)	-518.57185	25.97
3/3/2022 20:01:17	2203182-004C	P (213.618 nm)	15.75	0.03943 (mg/L)	39.86904	14.94
3/3/2022 20:01:17	2203182-004C	Pb (220.353 nm)	41.12	0.00137 (mg/L)	9.73020	12.97
3/3/2022 20:01:17	2203182-004C	S (181.972 nm)	4.25	0.43811 (mg/L)	30.81957	3.87
3/3/2022 20:01:17	2203182-004C	Sb (217.582 nm)	35.57	-0.00562 u (mg/L)	0.02109	> 100.00

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 20:01:17	2203182-004C	Se (196.026 nm)	> 100.00	0.00276 u (mg/L)	6.21111	34.29
3/3/2022 20:01:17	2203182-004C	Sn (189.925 nm)	> 100.00	0.00190 u (mg/L)	4.50613	35.00
3/3/2022 20:01:17	2203182-004C	Sr (407.771 nm)	6.05	0.00895 (mg/L)	7270.14131	6.05
3/3/2022 20:01:17	2203182-004C	Ti (337.280 nm)	30.05	0.05918 (mg/L)	1935.09410	29.58
3/3/2022 20:01:17	2203182-004C	Tl (351.923 nm)	46.40	0.01216 (mg/L)	12.92309	46.40
3/3/2022 20:01:17	2203182-004C	V (311.837 nm)	22.94	0.00124 (mg/L)	70.33201	20.26
3/3/2022 20:01:17	2203182-004C	Zn (206.200 nm)	15.11	0.00423 (mg/L)	20.69800	5.40
3/3/2022 20:04:08	2202L57-026A	Ag (328.068 nm)	> 100.00	0.00002 u (mg/L)	9.15467	35.49
3/3/2022 20:04:08	2202L57-026A	Al (308.215 nm)	0.98	2.72072 (mg/L)	12549.07896	0.95
3/3/2022 20:04:08	2202L57-026A	As (193.696 nm)	0.73	0.42564 (mg/L)	217.78716	0.72
3/3/2022 20:04:08	2202L57-026A	B (249.772 nm)	0.72	0.00805 (mg/L)	362.59052	0.48
3/3/2022 20:04:08	2202L57-026A	Ba (413.064 nm)	2.72	0.01998 (mg/L)	322.60795	2.08
3/3/2022 20:04:08	2202L57-026A	Be (313.042 nm)	0.72	0.00024 (mg/L)	783.18517	0.49
3/3/2022 20:04:08	2202L57-026A	Ca (373.690 nm)	0.99	3.60122 (mg/L)	24305.17455	0.98
3/3/2022 20:04:08	2202L57-026A	Cd (228.802 nm)	4.69	0.00272 (mg/L)	92.10678	3.83
3/3/2022 20:04:08	2202L57-026A	Co (230.786 nm)	4.30	0.00127 (mg/L)	20.00215	2.67
3/3/2022 20:04:08	2202L57-026A	Cr (267.716 nm)	1.70	0.02582 (mg/L)	613.87184	1.62
3/3/2022 20:04:08	2202L57-026A	Cu (327.395 nm)	1.19	0.70737 (mg/L)	20096.62770	1.19
3/3/2022 20:04:08	2202L57-026A	Fe (238.204 nm)	0.95	0.62866 (mg/L)	27698.05925	0.75
3/3/2022 20:04:08	2202L57-026A	K (766.491 nm)	1.77	0.51321 (mg/L)	518.34464	2.43
3/3/2022 20:04:08	2202L57-026A	Mg (279.800 nm)	1.30	0.55906 (mg/L)	990.88818	1.27
3/3/2022 20:04:08	2202L57-026A	Mn (257.610 nm)	1.18	0.08302 (mg/L)	16019.21113	1.16
3/3/2022 20:04:08	2202L57-026A	Mo (204.598 nm)	82.59	0.00144 (mg/L)	11.76846	34.73
3/3/2022 20:04:08	2202L57-026A	Na (589.592 nm)	0.88	199.96601 o (mg/L)	1490876.31134	0.88
3/3/2022 20:04:08	2202L57-026A	Ni (221.648 nm)	46.43	0.00131 (mg/L)	4.22017	22.21
3/3/2022 20:04:08	2202L57-026A	P (213.618 nm)	8.49	0.06132 (mg/L)	60.86984	8.21
3/3/2022 20:04:08	2202L57-026A	Pb (220.353 nm)	> 100.00	0.00168 (mg/L)	10.44110	55.03
3/3/2022 20:04:08	2202L57-026A	S (181.972 nm)	13.60	0.20142 (mg/L)	15.63352	11.24
3/3/2022 20:04:08	2202L57-026A	Sb (217.582 nm)	7.67	0.01943 (mg/L)	19.80301	5.94
3/3/2022 20:04:08	2202L57-026A	Se (196.026 nm)	> 100.00	0.00257 u (mg/L)	6.07293	46.55
3/3/2022 20:04:08	2202L57-026A	Sn (189.925 nm)	15.06	0.00202 (mg/L)	4.59248	4.65
3/3/2022 20:04:08	2202L57-026A	Sr (407.771 nm)	1.00	0.01553 (mg/L)	12619.37567	1.00
3/3/2022 20:04:08	2202L57-026A	Ti (337.280 nm)	1.19	0.04773 (mg/L)	1566.38374	1.17
3/3/2022 20:04:08	2202L57-026A	Tl (351.923 nm)	51.07	0.01386 (mg/L)	14.72838	51.07
3/3/2022 20:04:08	2202L57-026A	V (311.837 nm)	6.01	0.00137 (mg/L)	76.42527	5.37
3/3/2022 20:04:08	2202L57-026A	Zn (206.200 nm)	5.07	0.01199 (mg/L)	34.25054	3.10
3/3/2022 20:06:59	2202U65-001B	Ag (328.068 nm)	> 100.00	-0.00005 u (mg/L)	6.32916	78.32
3/3/2022 20:06:59	2202U65-001B	Al (308.215 nm)	5.74	0.02612 (mg/L)	541.10175	1.24
3/3/2022 20:06:59	2202U65-001B	As (193.696 nm)	28.91	0.00479 (mg/L)	7.08798	9.77
3/3/2022 20:06:59	2202U65-001B	B (249.772 nm)	0.98	0.00799 (mg/L)	360.61299	0.66
3/3/2022 20:06:59	2202U65-001B	Ba (413.064 nm)	4.35	0.01068 (mg/L)	207.69757	2.76
3/3/2022 20:06:59	2202U65-001B	Be (313.042 nm)	2.15	0.00036 (mg/L)	1064.41846	1.64
3/3/2022 20:06:59	2202U65-001B	Ca (373.690 nm)	0.43	0.14284 (mg/L)	1198.71238	0.34
3/3/2022 20:06:59	2202U65-001B	Cd (228.802 nm)	> 100.00	0.00006 u (mg/L)	18.62164	23.25
3/3/2022 20:06:59	2202U65-001B	Co (230.786 nm)	27.57	0.00093 (mg/L)	16.69720	15.06
3/3/2022 20:06:59	2202U65-001B	Cr (267.716 nm)	58.28	0.00028 (mg/L)	35.19710	10.65
3/3/2022 20:06:59	2202U65-001B	Cu (327.395 nm)	1.48	0.01355 (mg/L)	408.82610	1.40
3/3/2022 20:06:59	2202U65-001B	Fe (238.204 nm)	2.19	0.03853 (mg/L)	7263.43886	0.40

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 20:06:59	2202U65-001B	K (766.491 nm)	3.41	0.21790 (mg/L)	109.43254	9.42
3/3/2022 20:06:59	2202U65-001B	Mg (279.800 nm)	7.91	0.01911 (mg/L)	50.74925	5.19
3/3/2022 20:06:59	2202U65-001B	Mn (257.610 nm)	5.59	0.00103 (mg/L)	557.14039	1.95
3/3/2022 20:06:59	2202U65-001B	Mo (204.598 nm)	74.39	0.00069 (mg/L)	9.19697	19.23
3/3/2022 20:06:59	2202U65-001B	Na (589.592 nm)	0.63	226.82489 o (mg/L)	1691008.10574	0.63
3/3/2022 20:06:59	2202U65-001B	Ni (221.648 nm)	22.97	0.00229 (mg/L)	5.72485	14.14
3/3/2022 20:06:59	2202U65-001B	P (213.618 nm)	15.57	0.03010 (mg/L)	30.91696	14.53
3/3/2022 20:06:59	2202U65-001B	Pb (220.353 nm)	68.66	0.00137 (mg/L)	9.73026	21.65
3/3/2022 20:06:59	2202U65-001B	S (181.972 nm)	25.03	0.04687 (mg/L)	5.71743	13.16
3/3/2022 20:06:59	2202U65-001B	Sb (217.582 nm)	> 100.00	-0.00083 u (mg/L)	3.80839	43.39
3/3/2022 20:06:59	2202U65-001B	Se (196.026 nm)	> 100.00	0.00092 u (mg/L)	4.84404	26.12
3/3/2022 20:06:59	2202U65-001B	Sn (189.925 nm)	> 100.00	-0.00182 u (mg/L)	1.89806	90.80
3/3/2022 20:06:59	2202U65-001B	Sr (407.771 nm)	6.61	0.00043 (mg/L)	346.53262	6.61
3/3/2022 20:06:59	2202U65-001B	Ti (337.280 nm)	> 100.00	0.00006 u (mg/L)	32.04401	14.79
3/3/2022 20:06:59	2202U65-001B	Tl (351.923 nm)	29.07	0.01514 (mg/L)	16.08423	29.07
3/3/2022 20:06:59	2202U65-001B	V (311.837 nm)	27.45	0.00019 (mg/L)	17.60476	14.61
3/3/2022 20:06:59	2202U65-001B	Zn (206.200 nm)	44.99	-0.00034 u (mg/L)	12.70942	2.09
3/3/2022 20:09:51	2202U66-001B	Ag (328.068 nm)	> 100.00	0.00006 u (mg/L)	10.87096	46.17
3/3/2022 20:09:51	2202U66-001B	Al (308.215 nm)	6.98	0.02952 (mg/L)	556.26186	1.65
3/3/2022 20:09:51	2202U66-001B	As (193.696 nm)	> 100.00	0.00376 u (mg/L)	6.57461	40.72
3/3/2022 20:09:51	2202U66-001B	B (249.772 nm)	0.57	0.02328 (mg/L)	825.76461	0.49
3/3/2022 20:09:51	2202U66-001B	Ba (413.064 nm)	14.77	0.00222 (mg/L)	103.23625	3.92
3/3/2022 20:09:51	2202U66-001B	Be (313.042 nm)	1.14	0.00016 (mg/L)	599.99296	0.66
3/3/2022 20:09:51	2202U66-001B	Ca (373.690 nm)	0.13	1.67706 (mg/L)	11449.28903	0.13
3/3/2022 20:09:51	2202U66-001B	Cd (228.802 nm)	47.01	0.00018 (mg/L)	21.73434	10.50
3/3/2022 20:09:51	2202U66-001B	Co (230.786 nm)	> 100.00	0.00050 u (mg/L)	12.46033	49.69
3/3/2022 20:09:51	2202U66-001B	Cr (267.716 nm)	19.51	0.00040 (mg/L)	37.74986	4.64
3/3/2022 20:09:51	2202U66-001B	Cu (327.395 nm)	21.87	0.00077 (mg/L)	46.16012	10.32
3/3/2022 20:09:51	2202U66-001B	Fe (238.204 nm)	13.09	0.01893 (mg/L)	6584.81486	1.30
3/3/2022 20:09:51	2202U66-001B	K (766.491 nm)	1.02	2.07283 (mg/L)	2677.99307	1.10
3/3/2022 20:09:51	2202U66-001B	Mg (279.800 nm)	0.14	1.20349 (mg/L)	2112.93643	0.14
3/3/2022 20:09:51	2202U66-001B	Mn (257.610 nm)	1.35	0.00208 (mg/L)	755.65117	0.70
3/3/2022 20:09:51	2202U66-001B	Mo (204.598 nm)	18.07	0.00453 (mg/L)	22.36904	12.56
3/3/2022 20:09:51	2202U66-001B	Na (589.592 nm)	0.19	229.78093 o (mg/L)	1713034.24507	0.19
3/3/2022 20:09:51	2202U66-001B	Ni (221.648 nm)	18.90	0.00839 (mg/L)	15.10827	16.15
3/3/2022 20:09:51	2202U66-001B	P (213.618 nm)	0.58	2.33573 (mg/L)	2242.51687	0.58
3/3/2022 20:09:51	2202U66-001B	Pb (220.353 nm)	> 100.00	0.00056 u (mg/L)	7.92311	23.24
3/3/2022 20:09:51	2202U66-001B	S (181.972 nm)	0.22	13.49452 (mg/L)	868.53636	0.22
3/3/2022 20:09:51	2202U66-001B	Sb (217.582 nm)	59.73	0.00415 (mg/L)	7.73443	25.29
3/3/2022 20:09:51	2202U66-001B	Se (196.026 nm)	4.64	0.02199 (mg/L)	20.49823	3.69
3/3/2022 20:09:51	2202U66-001B	Sn (189.925 nm)	79.20	0.00580 (mg/L)	7.24581	44.51
3/3/2022 20:09:51	2202U66-001B	Sr (407.771 nm)	0.82	0.00854 (mg/L)	6937.41681	0.82
3/3/2022 20:09:51	2202U66-001B	Ti (337.280 nm)	> 100.00	-0.00006 u (mg/L)	28.22869	18.03
3/3/2022 20:09:51	2202U66-001B	Tl (351.923 nm)	40.12	0.01157 (mg/L)	12.29040	40.12
3/3/2022 20:09:51	2202U66-001B	V (311.837 nm)	> 100.00	0.00003 u (mg/L)	9.78283	20.46
3/3/2022 20:09:51	2202U66-001B	Zn (206.200 nm)	30.39	0.00153 (mg/L)	15.96930	5.08
3/3/2022 20:12:42	2203067-001A	Ag (328.068 nm)	> 100.00	-0.00007 u (mg/L)	5.57156	> 100.00
3/3/2022 20:12:42	2203067-001A	Al (308.215 nm)	0.80	0.18159 (mg/L)	1233.90107	0.53

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 20:12:42	2203067-001A	As (193.696 nm)	> 100.00	0.00122 u (mg/L)	5.30157	14.03
3/3/2022 20:12:42	2203067-001A	B (249.772 nm)	2.60	0.01146 (mg/L)	466.25617	1.94
3/3/2022 20:12:42	2203067-001A	Ba (413.064 nm)	0.51	0.22870 (mg/L)	2900.69199	0.50
3/3/2022 20:12:42	2203067-001A	Be (313.042 nm)	2.63	0.00037 (mg/L)	1073.96309	2.01
3/3/2022 20:12:42	2203067-001A	Ca (373.690 nm)	0.41	10.31446 (mg/L)	69158.33215	0.41
3/3/2022 20:12:42	2203067-001A	Cd (228.802 nm)	5.74	0.00054 (mg/L)	31.85522	2.70
3/3/2022 20:12:42	2203067-001A	Co (230.786 nm)	12.60	0.00166 (mg/L)	23.80975	8.59
3/3/2022 20:12:42	2203067-001A	Cr (267.716 nm)	81.69	0.00006 (mg/L)	30.11917	3.67
3/3/2022 20:12:42	2203067-001A	Cu (327.395 nm)	1.81	0.00324 (mg/L)	116.26508	1.43
3/3/2022 20:12:42	2203067-001A	Fe (238.204 nm)	2.64	0.07348 (mg/L)	8473.78635	0.79
3/3/2022 20:12:42	2203067-001A	K (766.491 nm)	1.58	1.30464 (mg/L)	1614.26558	1.77
3/3/2022 20:12:42	2203067-001A	Mg (279.800 nm)	0.30	0.95765 (mg/L)	1684.90398	0.30
3/3/2022 20:12:42	2203067-001A	Mn (257.610 nm)	0.59	0.04276 (mg/L)	8426.72353	0.56
3/3/2022 20:12:42	2203067-001A	Mo (204.598 nm)	> 100.00	0.00020 u (mg/L)	7.49341	14.04
3/3/2022 20:12:42	2203067-001A	Na (589.592 nm)	0.32	210.63784 o (mg/L)	1570394.61836	0.32
3/3/2022 20:12:42	2203067-001A	Ni (221.648 nm)	> 100.00	0.00055 (mg/L)	3.04065	41.30
3/3/2022 20:12:42	2203067-001A	P (213.618 nm)	1.92	0.03138 (mg/L)	32.15164	1.80
3/3/2022 20:12:42	2203067-001A	Pb (220.353 nm)	4.25	0.01524 (mg/L)	40.87617	3.56
3/3/2022 20:12:42	2203067-001A	S (181.972 nm)	1.22	0.54523 (mg/L)	37.69302	1.13
3/3/2022 20:12:42	2203067-001A	Sb (217.582 nm)	> 100.00	0.00020 u (mg/L)	4.61541	17.59
3/3/2022 20:12:42	2203067-001A	Se (196.026 nm)	22.06	0.00391 (mg/L)	7.07140	9.07
3/3/2022 20:12:42	2203067-001A	Sn (189.925 nm)	83.16	0.00218 (mg/L)	4.70139	27.02
3/3/2022 20:12:42	2203067-001A	Sr (407.771 nm)	0.39	0.05783 (mg/L)	46983.29107	0.39
3/3/2022 20:12:42	2203067-001A	Ti (337.280 nm)	10.25	0.00292 (mg/L)	124.28584	7.75
3/3/2022 20:12:42	2203067-001A	Tl (351.923 nm)	21.53	0.01448 (mg/L)	15.38456	21.53
3/3/2022 20:12:42	2203067-001A	V (311.837 nm)	14.31	0.00031 (mg/L)	23.47388	9.29
3/3/2022 20:12:42	2203067-001A	Zn (206.200 nm)	0.76	0.09150 (mg/L)	173.21426	0.70
3/3/2022 20:15:33	2202U67-001A	Ag (328.068 nm)	20.28	0.00205 (mg/L)	93.52395	18.44
3/3/2022 20:15:33	2202U67-001A	Al (308.215 nm)	0.53	0.15452 (mg/L)	1113.27813	0.33
3/3/2022 20:15:33	2202U67-001A	As (193.696 nm)	75.82	0.01230 (mg/L)	10.84867	43.03
3/3/2022 20:15:33	2202U67-001A	B (249.772 nm)	0.43	120.47681 o (mg/L)	3665341.02727	0.43
3/3/2022 20:15:33	2202U67-001A	Ba (413.064 nm)	2.12	0.04498 (mg/L)	631.43318	1.86
3/3/2022 20:15:33	2202U67-001A	Be (313.042 nm)	1.51	0.00046 (mg/L)	1280.31400	1.21
3/3/2022 20:15:33	2202U67-001A	Ca (373.690 nm)	0.45	11.42672 (mg/L)	76589.61081	0.45
3/3/2022 20:15:33	2202U67-001A	Cd (228.802 nm)	16.81	-0.00114 u (mg/L)	-14.74465	36.06
3/3/2022 20:15:33	2202U67-001A	Co (230.786 nm)	0.61	0.18518 (mg/L)	1813.96794	0.61
3/3/2022 20:15:33	2202U67-001A	Cr (267.716 nm)	0.61	0.24425 (mg/L)	5563.43160	0.61
3/3/2022 20:15:33	2202U67-001A	Cu (327.395 nm)	10.13	0.00644 (mg/L)	207.16268	8.94
3/3/2022 20:15:33	2202U67-001A	Fe (238.204 nm)	0.36	5.60614 (mg/L)	200053.71204	0.35
3/3/2022 20:15:33	2202U67-001A	K (766.491 nm)	0.84	18.10917 (mg/L)	24883.96242	0.84
3/3/2022 20:15:33	2202U67-001A	Mg (279.800 nm)	0.42	0.80273 (mg/L)	1415.15602	0.41
3/3/2022 20:15:33	2202U67-001A	Mn (257.610 nm)	0.43	0.05611 (mg/L)	10944.54867	0.42
3/3/2022 20:15:33	2202U67-001A	Mo (204.598 nm)	8.84	0.00366 (mg/L)	19.39319	5.73
3/3/2022 20:15:33	2202U67-001A	Na (589.592 nm)	N/A	#### (mg/L)	####	N/A
3/3/2022 20:15:33	2202U67-001A	Ni (221.648 nm)	0.40	505.71071 o (mg/L)	778066.50590	0.40
3/3/2022 20:15:33	2202U67-001A	P (213.618 nm)	0.60	3584.20369 o (mg/L)	3438020.72856	0.60
3/3/2022 20:15:33	2202U67-001A	Pb (220.353 nm)	10.60	0.02593 (mg/L)	64.88437	9.51
3/3/2022 20:15:33	2202U67-001A	S (181.972 nm)	0.16	1503.38276 o (mg/L)	96461.72919	0.16

220303A.esws

Instrument used: MY15120005

Instrument Name: OES-1
Methods: 200.7 and 6010D

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 20:15:33	2202U67-001A	Sb (217.582 nm)	3.55	0.34265 (mg/L)	275.05275	3.49
3/3/2022 20:15:33	2202U67-001A	Se (196.026 nm)	22.25	0.02073 (mg/L)	19.56540	17.51
3/3/2022 20:15:33	2202U67-001A	Sn (189.925 nm)	2.49	0.01831 (mg/L)	16.02413	1.99
3/3/2022 20:15:33	2202U67-001A	Sr (407.771 nm)	0.68	0.09136 (mg/L)	74231.09973	0.68
3/3/2022 20:15:33	2202U67-001A	Ti (337.280 nm)	1.65	0.01267 (mg/L)	438.11833	1.54
3/3/2022 20:15:33	2202U67-001A	Tl (351.923 nm)	7.76	0.07048 (mg/L)	74.89216	7.76
3/3/2022 20:15:33	2202U67-001A	V (311.837 nm)	57.00	-0.00011 u (mg/L)	2.52511	> 100.00
3/3/2022 20:15:33	2202U67-001A	Zn (206.200 nm)	0.49	0.81933 (mg/L)	1445.21712	0.49
3/3/2022 20:18:24	2202U68-001A	Ag (328.068 nm)	23.87	0.00248 (mg/L)	111.23880	22.04
3/3/2022 20:18:24	2202U68-001A	Al (308.215 nm)	0.43	0.12965 (mg/L)	1002.47551	0.25
3/3/2022 20:18:24	2202U68-001A	As (193.696 nm)	58.69	0.01002 (mg/L)	9.70673	30.32
3/3/2022 20:18:24	2202U68-001A	B (249.772 nm)	0.58	134.82659 o (mg/L)	4101899.41469	0.58
3/3/2022 20:18:24	2202U68-001A	Ba (413.064 nm)	2.28	0.03132 (mg/L)	462.69351	1.91
3/3/2022 20:18:24	2202U68-001A	Be (313.042 nm)	1.42	0.00035 (mg/L)	1025.99029	1.07
3/3/2022 20:18:24	2202U68-001A	Ca (373.690 nm)	0.61	9.00144 (mg/L)	60385.63562	0.60
3/3/2022 20:18:24	2202U68-001A	Cd (228.802 nm)	21.61	-0.00300 u (mg/L)	-66.03682	27.14
3/3/2022 20:18:24	2202U68-001A	Co (230.786 nm)	0.95	0.21174 (mg/L)	2073.05638	0.94
3/3/2022 20:18:24	2202U68-001A	Cr (267.716 nm)	0.55	0.29755 (mg/L)	6771.26271	0.55
3/3/2022 20:18:24	2202U68-001A	Cu (327.395 nm)	2.04	0.01951 (mg/L)	577.96362	1.96
3/3/2022 20:18:24	2202U68-001A	Fe (238.204 nm)	0.53	5.06992 (mg/L)	181485.98087	0.51
3/3/2022 20:18:24	2202U68-001A	K (766.491 nm)	0.08	31.62075 (mg/L)	43593.82130	0.08
3/3/2022 20:18:24	2202U68-001A	Mg (279.800 nm)	0.40	0.39202 (mg/L)	700.05095	0.39
3/3/2022 20:18:24	2202U68-001A	Mn (257.610 nm)	0.40	0.07352 (mg/L)	14227.71870	0.39
3/3/2022 20:18:24	2202U68-001A	Mo (204.598 nm)	8.38	0.00517 (mg/L)	24.55894	6.06
3/3/2022 20:18:24	2202U68-001A	Na (589.592 nm)	N/A	#### (mg/L)	####	N/A
3/3/2022 20:18:24	2202U68-001A	Ni (221.648 nm)	0.86	465.84052 o (mg/L)	716723.97499	0.86
3/3/2022 20:18:24	2202U68-001A	P (213.618 nm)	0.32	3757.94611 o (mg/L)	3604676.90674	0.32
3/3/2022 20:18:24	2202U68-001A	Pb (220.353 nm)	0.98	0.01940 (mg/L)	50.22547	0.85
3/3/2022 20:18:24	2202U68-001A	S (181.972 nm)	0.12	1580.42006 o (mg/L)	101404.54364	0.12
3/3/2022 20:18:24	2202U68-001A	Sb (217.582 nm)	1.24	0.27512 (mg/L)	221.72228	1.22
3/3/2022 20:18:24	2202U68-001A	Se (196.026 nm)	18.00	0.02792 (mg/L)	24.90705	14.99
3/3/2022 20:18:24	2202U68-001A	Sn (189.925 nm)	10.14	0.00866 (mg/L)	9.25050	6.66
3/3/2022 20:18:24	2202U68-001A	Sr (407.771 nm)	1.49	0.04138 (mg/L)	33617.72103	1.49
3/3/2022 20:18:24	2202U68-001A	Ti (337.280 nm)	1.51	0.01589 (mg/L)	541.52878	1.42
3/3/2022 20:18:24	2202U68-001A	Tl (351.923 nm)	7.27	0.05915 (mg/L)	62.85373	7.27
3/3/2022 20:18:24	2202U68-001A	V (311.837 nm)	32.61	-0.00026 u (mg/L)	-4.55472	91.56
3/3/2022 20:18:24	2202U68-001A	Zn (206.200 nm)	1.35	0.39372 (mg/L)	701.38256	1.33
3/3/2022 20:21:16	2202U69-001A	Ag (328.068 nm)	5.50	0.00276 (mg/L)	122.86187	5.12
3/3/2022 20:21:16	2202U69-001A	Al (308.215 nm)	1.32	0.10825 (mg/L)	907.10288	0.70
3/3/2022 20:21:16	2202U69-001A	As (193.696 nm)	75.08	0.01254 (mg/L)	10.97263	42.97
3/3/2022 20:21:16	2202U69-001A	B (249.772 nm)	0.56	142.70583 o (mg/L)	4341606.47222	0.56
3/3/2022 20:21:16	2202U69-001A	Ba (413.064 nm)	2.42	0.02824 (mg/L)	424.65052	1.99
3/3/2022 20:21:16	2202U69-001A	Be (313.042 nm)	0.60	0.00058 (mg/L)	1546.84818	0.50
3/3/2022 20:21:16	2202U69-001A	Ca (373.690 nm)	0.53	12.91800 (mg/L)	86553.34857	0.53
3/3/2022 20:21:16	2202U69-001A	Cd (228.802 nm)	32.18	-0.00090 u (mg/L)	-8.00324	> 100.00
3/3/2022 20:21:16	2202U69-001A	Co (230.786 nm)	0.96	0.12044 (mg/L)	1182.45094	0.96
3/3/2022 20:21:16	2202U69-001A	Cr (267.716 nm)	0.51	0.30253 (mg/L)	6884.02106	0.51
3/3/2022 20:21:16	2202U69-001A	Cu (327.395 nm)	4.46	0.01460 (mg/L)	438.73513	4.21

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 20:21:16	2202U69-001A	Fe (238.204 nm)	0.59	5.01439 (mg/L)	179563.12170	0.57
3/3/2022 20:21:16	2202U69-001A	K (766.491 nm)	0.55	22.51759 (mg/L)	30988.42149	0.55
3/3/2022 20:21:16	2202U69-001A	Mg (279.800 nm)	0.58	0.54992 (mg/L)	974.96913	0.57
3/3/2022 20:21:16	2202U69-001A	Mn (257.610 nm)	0.45	0.08580 (mg/L)	16542.87182	0.44
3/3/2022 20:21:16	2202U69-001A	Mo (204.598 nm)	4.55	0.00300 (mg/L)	17.12307	2.74
3/3/2022 20:21:16	2202U69-001A	Na (589.592 nm)	N/A	#### (mg/L)	####	N/A
3/3/2022 20:21:16	2202U69-001A	Ni (221.648 nm)	1.51	391.39318 o (mg/L)	602182.57097	1.51
3/3/2022 20:21:16	2202U69-001A	P (213.618 nm)	0.33	3919.71123 o (mg/L)	3759844.29334	0.33
3/3/2022 20:21:16	2202U69-001A	Pb (220.353 nm)	0.65	0.01149 (mg/L)	32.46760	0.51
3/3/2022 20:21:16	2202U69-001A	S (181.972 nm)	0.23	1701.06807 o (mg/L)	109145.47920	0.23
3/3/2022 20:21:16	2202U69-001A	Sb (217.582 nm)	1.49	0.22153 (mg/L)	179.39918	1.45
3/3/2022 20:21:16	2202U69-001A	Se (196.026 nm)	31.41	0.02063 (mg/L)	19.49356	24.70
3/3/2022 20:21:16	2202U69-001A	Sn (189.925 nm)	2.21	0.01308 (mg/L)	12.35187	1.64
3/3/2022 20:21:16	2202U69-001A	Sr (407.771 nm)	0.64	0.07018 (mg/L)	57018.44814	0.64
3/3/2022 20:21:16	2202U69-001A	Ti (337.280 nm)	1.64	0.01211 (mg/L)	420.10563	1.52
3/3/2022 20:21:16	2202U69-001A	Tl (351.923 nm)	24.94	0.05820 (mg/L)	61.84269	24.94
3/3/2022 20:21:16	2202U69-001A	V (311.837 nm)	5.23	-0.00123 u (mg/L)	-53.08507	6.05
3/3/2022 20:21:16	2202U69-001A	Zn (206.200 nm)	0.78	0.50556 (mg/L)	896.84513	0.77
3/3/2022 20:24:07	2202V46-001B	Ag (328.068 nm)	6.70	0.00069 (mg/L)	37.07472	5.16
3/3/2022 20:24:07	2202V46-001B	Al (308.215 nm)	1.07	1.68267 (mg/L)	7923.18718	1.01
3/3/2022 20:24:07	2202V46-001B	As (193.696 nm)	> 100.00	-0.00017 u (mg/L)	4.60606	72.68
3/3/2022 20:24:07	2202V46-001B	B (249.772 nm)	19.12	0.45721 (mg/L)	14027.14581	18.96
3/3/2022 20:24:07	2202V46-001B	Ba (413.064 nm)	1.17	0.41905 (mg/L)	5251.94613	1.15
3/3/2022 20:24:07	2202V46-001B	Be (313.042 nm)	0.87	0.00021 (mg/L)	715.36131	0.56
3/3/2022 20:24:07	2202V46-001B	Ca (373.690 nm)	0.98	4.75498 (mg/L)	32013.82070	0.97
3/3/2022 20:24:07	2202V46-001B	Cd (228.802 nm)	24.73	-0.00040 u (mg/L)	5.79974	47.25
3/3/2022 20:24:07	2202V46-001B	Co (230.786 nm)	1.38	11.11890 (mg/L)	108468.41959	1.38
3/3/2022 20:24:07	2202V46-001B	Cr (267.716 nm)	0.88	0.00712 (mg/L)	190.13553	0.75
3/3/2022 20:24:07	2202V46-001B	Cu (327.395 nm)	1.11	0.81924 (mg/L)	23270.99212	1.11
3/3/2022 20:24:07	2202V46-001B	Fe (238.204 nm)	7.86	0.33601 (mg/L)	17564.34324	5.21
3/3/2022 20:24:07	2202V46-001B	K (766.491 nm)	0.52	3.68955 (mg/L)	4916.71285	0.54
3/3/2022 20:24:07	2202V46-001B	Mg (279.800 nm)	0.88	3.14455 (mg/L)	5492.64258	0.88
3/3/2022 20:24:07	2202V46-001B	Mn (257.610 nm)	1.03	7.35780 (mg/L)	1387927.67882	1.03
3/3/2022 20:24:07	2202V46-001B	Mo (204.598 nm)	79.10	0.00046 (mg/L)	8.41186	14.97
3/3/2022 20:24:07	2202V46-001B	Na (589.592 nm)	0.31	240.13034 o (mg/L)	1790150.14516	0.31
3/3/2022 20:24:07	2202V46-001B	Ni (221.648 nm)	1.02	14.18240 (mg/L)	21822.61526	1.02
3/3/2022 20:24:07	2202V46-001B	P (213.618 nm)	39.05	23.16888 (mg/L)	22225.96640	39.05
3/3/2022 20:24:07	2202V46-001B	Pb (220.353 nm)	2.97	0.05314 (mg/L)	125.99503	2.82
3/3/2022 20:24:07	2202V46-001B	S (181.972 nm)	9.16	0.15381 (mg/L)	12.57888	7.19
3/3/2022 20:24:07	2202V46-001B	Sb (217.582 nm)	1.44	0.16083 (mg/L)	131.46551	1.39
3/3/2022 20:24:07	2202V46-001B	Se (196.026 nm)	21.95	0.00755 (mg/L)	9.77566	12.60
3/3/2022 20:24:07	2202V46-001B	Sn (189.925 nm)	42.00	0.00353 (mg/L)	5.65032	18.41
3/3/2022 20:24:07	2202V46-001B	Sr (407.771 nm)	1.00	0.08941 (mg/L)	72643.78170	1.00
3/3/2022 20:24:07	2202V46-001B	Ti (337.280 nm)	> 100.00	0.00002 u (mg/L)	30.93920	11.81
3/3/2022 20:24:07	2202V46-001B	Tl (351.923 nm)	56.23	0.00519 (mg/L)	5.51627	56.23
3/3/2022 20:24:07	2202V46-001B	V (311.837 nm)	> 100.00	0.00004 u (mg/L)	10.07675	28.30
3/3/2022 20:24:07	2202V46-001B	Zn (206.200 nm)	1.03	0.50173 (mg/L)	890.15434	1.01
3/3/2022 20:26:58	2202W76-001A	Ag (328.068 nm)	42.72	-0.00003 u (mg/L)	7.17598	7.88

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 20:26:58	2202W76-001A	Al (308.215 nm)	2.79	0.07436 (mg/L)	756.07199	1.22
3/3/2022 20:26:58	2202W76-001A	As (193.696 nm)	55.35	0.00523 (mg/L)	7.30853	19.81
3/3/2022 20:26:58	2202W76-001A	B (249.772 nm)	6.95	0.20741 (mg/L)	6427.76637	6.82
3/3/2022 20:26:58	2202W76-001A	Ba (413.064 nm)	0.75	0.59942 (mg/L)	7479.88746	0.74
3/3/2022 20:26:58	2202W76-001A	Be (313.042 nm)	1.25	-0.00017 u (mg/L)	-129.75631	3.68
3/3/2022 20:26:58	2202W76-001A	Ca (373.690 nm)	0.76	1.22023 (mg/L)	8397.08226	0.74
3/3/2022 20:26:58	2202W76-001A	Cd (228.802 nm)	6.36	0.00087 (mg/L)	41.08446	3.75
3/3/2022 20:26:58	2202W76-001A	Co (230.786 nm)	15.10	0.00199 (mg/L)	27.02319	10.86
3/3/2022 20:26:58	2202W76-001A	Cr (267.716 nm)	6.33	0.00317 (mg/L)	100.65805	4.52
3/3/2022 20:26:58	2202W76-001A	Cu (327.395 nm)	0.58	0.46100 (mg/L)	13105.62490	0.58
3/3/2022 20:26:58	2202W76-001A	Fe (238.204 nm)	0.81	4.82475 (mg/L)	172996.39900	0.78
3/3/2022 20:26:58	2202W76-001A	K (766.491 nm)	2.18	0.75013 (mg/L)	846.42258	2.68
3/3/2022 20:26:58	2202W76-001A	Mg (279.800 nm)	2.01	0.15746 (mg/L)	291.64426	1.89
3/3/2022 20:26:58	2202W76-001A	Mn (257.610 nm)	0.58	0.05966 (mg/L)	11614.20182	0.56
3/3/2022 20:26:58	2202W76-001A	Mo (204.598 nm)	> 100.00	0.00020 u (mg/L)	7.51373	56.73
3/3/2022 20:26:58	2202W76-001A	Na (589.592 nm)	0.49	217.73888 o (mg/L)	1623306.11807	0.49
3/3/2022 20:26:58	2202W76-001A	Ni (221.648 nm)	3.32	0.02396 (mg/L)	39.05966	3.13
3/3/2022 20:26:58	2202W76-001A	P (213.618 nm)	11.21	6.53881 (mg/L)	6274.16806	11.21
3/3/2022 20:26:58	2202W76-001A	Pb (220.353 nm)	9.74	0.01984 (mg/L)	51.22172	8.48
3/3/2022 20:26:58	2202W76-001A	S (181.972 nm)	10.64	0.23174 (mg/L)	17.57886	9.00
3/3/2022 20:26:58	2202W76-001A	Sb (217.582 nm)	> 100.00	0.00080 u (mg/L)	5.09062	75.35
3/3/2022 20:26:58	2202W76-001A	Se (196.026 nm)	> 100.00	0.00246 u (mg/L)	5.98843	36.47
3/3/2022 20:26:58	2202W76-001A	Sn (189.925 nm)	> 100.00	0.00153 u (mg/L)	4.24516	49.36
3/3/2022 20:26:58	2202W76-001A	Sr (407.771 nm)	0.65	0.01596 (mg/L)	12965.94259	0.65
3/3/2022 20:26:58	2202W76-001A	Ti (337.280 nm)	4.27	0.01065 (mg/L)	372.92987	3.92
3/3/2022 20:26:58	2202W76-001A	Tl (351.923 nm)	49.77	0.01207 (mg/L)	12.82991	49.77
3/3/2022 20:26:58	2202W76-001A	V (311.837 nm)	56.13	0.00022 (mg/L)	19.25708	32.13
3/3/2022 20:26:58	2202W76-001A	Zn (206.200 nm)	1.61	44.96593 (mg/L)	78598.58215	1.61
3/3/2022 20:29:49	Cont Calib Verif	Ag (328.068 nm)	0.11	0.09978 (mg/L)	4150.36756	0.11
3/3/2022 20:29:49	Cont Calib Verif	Al (308.215 nm)	0.34	9.96353 (mg/L)	44825.35908	0.34
3/3/2022 20:29:49	Cont Calib Verif	As (193.696 nm)	1.32	0.99694 (mg/L)	503.81275	1.30
3/3/2022 20:29:49	Cont Calib Verif	B (249.772 nm)	0.18	1.12702 Q (mg/L)	34404.61567 Q	0.18
3/3/2022 20:29:49	Cont Calib Verif	Ba (413.064 nm)	0.19	1.01133 (mg/L)	12567.81500	0.19
3/3/2022 20:29:49	Cont Calib Verif	Be (313.042 nm)	0.81	1.00657 (mg/L)	2248307.55001	0.81
3/3/2022 20:29:49	Cont Calib Verif	Ca (373.690 nm)	0.30	10.01210 (mg/L)	67138.17769	0.30
3/3/2022 20:29:49	Cont Calib Verif	Cd (228.802 nm)	0.38	0.99907 (mg/L)	27657.17499	0.38
3/3/2022 20:29:49	Cont Calib Verif	Co (230.786 nm)	0.30	1.00847 (mg/L)	9844.88029	0.30
3/3/2022 20:29:49	Cont Calib Verif	Cr (267.716 nm)	0.45	1.00267 (mg/L)	22749.09901	0.45
3/3/2022 20:29:49	Cont Calib Verif	Cu (327.395 nm)	0.54	0.99591 (mg/L)	28284.23505	0.54
3/3/2022 20:29:49	Cont Calib Verif	Fe (238.204 nm)	0.37	10.11281 (mg/L)	356106.55956	0.36
3/3/2022 20:29:49	Cont Calib Verif	K (766.491 nm)	0.39	10.33019 (mg/L)	14112.19575	0.40
3/3/2022 20:29:49	Cont Calib Verif	Mg (279.800 nm)	0.33	10.01059 (mg/L)	17447.53194	0.33
3/3/2022 20:29:49	Cont Calib Verif	Mn (257.610 nm)	0.34	1.00638 (mg/L)	190149.66233	0.34
3/3/2022 20:29:49	Cont Calib Verif	Mo (204.598 nm)	1.28	1.06590 (mg/L)	3664.12883	1.28
3/3/2022 20:29:49	Cont Calib Verif	Na (589.592 nm)	1.45	12.81234 Q (mg/L)	96350.45125 Q	1.44
3/3/2022 20:29:49	Cont Calib Verif	Ni (221.648 nm)	0.72	1.02278 (mg/L)	1575.80900	0.72
3/3/2022 20:29:49	Cont Calib Verif	P (213.618 nm)	4.45	5.34881 Q (mg/L)	5132.70041 Q	4.45
3/3/2022 20:29:49	Cont Calib Verif	Pb (220.353 nm)	0.44	1.00972 (mg/L)	2274.01375	0.43

Date Time	Label	Element Label (nm)	%RSD	Unadjusted Conc	Intensity	%RSD
3/3/2022 20:29:49	Cont Calib Verif	S (181.972 nm)	2.84	1.07140 (mg/L)	71.45248	2.73
3/3/2022 20:29:49	Cont Calib Verif	Sb (217.582 nm)	0.85	1.01373 (mg/L)	804.99652	0.84
3/3/2022 20:29:49	Cont Calib Verif	Se (196.026 nm)	0.27	1.01059 (mg/L)	754.95287	0.27
3/3/2022 20:29:49	Cont Calib Verif	Sn (189.925 nm)	0.36	1.02583 (mg/L)	723.01932	0.36
3/3/2022 20:29:49	Cont Calib Verif	Sr (407.771 nm)	1.53	0.99909 (mg/L)	811759.43645	1.53
3/3/2022 20:29:49	Cont Calib Verif	Ti (337.280 nm)	0.39	1.01563 (mg/L)	32720.84905	0.39
3/3/2022 20:29:49	Cont Calib Verif	Tl (351.923 nm)	0.79	0.98650 (mg/L)	1048.28405	0.79
3/3/2022 20:29:49	Cont Calib Verif	V (311.837 nm)	0.27	1.00773 (mg/L)	50322.06916	0.27
3/3/2022 20:29:49	Cont Calib Verif	Zn (206.200 nm)	0.46	1.01474 (mg/L)	1786.72347	0.46
3/3/2022 20:32:38	Cont Calib Blank	Ag (328.068 nm)	97.95	0.00022 (mg/L)	17.78921	51.15
3/3/2022 20:32:38	Cont Calib Blank	Al (308.215 nm)	7.46	0.01483 (mg/L)	490.79693	1.00
3/3/2022 20:32:38	Cont Calib Blank	As (193.696 nm)	> 100.00	0.00186 (mg/L)	5.62495	16.97
3/3/2022 20:32:38	Cont Calib Blank	B (249.772 nm)	3.75	0.10354 Z (mg/L)	3267.70796 Z	3.61
3/3/2022 20:32:38	Cont Calib Blank	Ba (413.064 nm)	23.11	0.00116 (mg/L)	90.15472	3.68
3/3/2022 20:32:38	Cont Calib Blank	Be (313.042 nm)	5.94	0.00014 (mg/L)	560.23348	3.27
3/3/2022 20:32:38	Cont Calib Blank	Ca (373.690 nm)	58.36	-0.00205 u (mg/L)	230.66960	3.47
3/3/2022 20:32:38	Cont Calib Blank	Cd (228.802 nm)	73.55	0.00020 (mg/L)	22.48790	18.34
3/3/2022 20:32:38	Cont Calib Blank	Co (230.786 nm)	85.45	0.00035 (mg/L)	10.98533	26.51
3/3/2022 20:32:38	Cont Calib Blank	Cr (267.716 nm)	40.04	0.00041 (mg/L)	38.02883	9.75
3/3/2022 20:32:38	Cont Calib Blank	Cu (327.395 nm)	27.31	0.00185 (mg/L)	76.98813	18.66
3/3/2022 20:32:38	Cont Calib Blank	Fe (238.204 nm)	4.39	-0.03062 u (mg/L)	4868.96977	0.96
3/3/2022 20:32:38	Cont Calib Blank	K (766.491 nm)	3.97	0.40917 (mg/L)	374.28185	6.01
3/3/2022 20:32:38	Cont Calib Blank	Mg (279.800 nm)	47.24	-0.00062 u (mg/L)	16.39940	3.09
3/3/2022 20:32:38	Cont Calib Blank	Mn (257.610 nm)	3.79	0.00644 (mg/L)	1578.10712	2.92
3/3/2022 20:32:38	Cont Calib Blank	Mo (204.598 nm)	51.04	0.00409 (mg/L)	20.86583	34.36
3/3/2022 20:32:38	Cont Calib Blank	Na (589.592 nm)	3.09	1.82483 Z (mg/L)	14479.95280 Z	2.90
3/3/2022 20:32:38	Cont Calib Blank	Ni (221.648 nm)	17.09	0.00446 (mg/L)	9.05992	12.94
3/3/2022 20:32:38	Cont Calib Blank	P (213.618 nm)	5.56	3.27823 Z (mg/L)	3146.56952 Z	5.56
3/3/2022 20:32:38	Cont Calib Blank	Pb (220.353 nm)	> 100.00	0.00055 u (mg/L)	7.90436	43.83
3/3/2022 20:32:38	Cont Calib Blank	S (181.972 nm)	69.37	0.02289 (mg/L)	4.17885	24.38
3/3/2022 20:32:38	Cont Calib Blank	Sb (217.582 nm)	18.95	0.00694 (mg/L)	9.94251	10.45
3/3/2022 20:32:38	Cont Calib Blank	Se (196.026 nm)	> 100.00	0.00098 u (mg/L)	4.88910	58.15
3/3/2022 20:32:38	Cont Calib Blank	Sn (189.925 nm)	> 100.00	-0.00164 u (mg/L)	2.02566	> 100.00
3/3/2022 20:32:38	Cont Calib Blank	Sr (407.771 nm)	12.06	0.00019 (mg/L)	154.05583	12.06
3/3/2022 20:32:38	Cont Calib Blank	Ti (337.280 nm)	> 100.00	-0.00009 u (mg/L)	27.32254	11.83
3/3/2022 20:32:38	Cont Calib Blank	Tl (351.923 nm)	50.65	0.00562 (mg/L)	5.97588	50.65
3/3/2022 20:32:38	Cont Calib Blank	V (311.837 nm)	48.20	0.00020 (mg/L)	18.01737	26.17
3/3/2022 20:32:38	Cont Calib Blank	Zn (206.200 nm)	> 100.00	-0.00065 u (mg/L)	12.17059	13.87
3/3/2022 20:35:28	2203068-001A	Ag (328.068 nm)	59.79	-0.00020 u (mg/L)	0.31564	> 100.00
3/3/2022 20:35:28	2203068-001A	Al (308.215 nm)	0.10	0.21260 (mg/L)	1372.11929	0.07
3/3/2022 20:35:28	2203068-001A	As (193.696 nm)	98.65	0.00318 (mg/L)	6.28408	24.99
3/3/2022 20:35:28	2203068-001A	B (249.772 nm)	1.25	0.09750 (mg/L)	3083.85864	1.20
3/3/2022 20:35:28	2203068-001A	Ba (413.064 nm)	0.89	0.17301 (mg/L)	2212.79878	0.86
3/3/2022 20:35:28	2203068-001A	Be (313.042 nm)	0.80	0.00037 (mg/L)	1084.27893	0.62
3/3/2022 20:35:28	2203068-001A	Ca (373.690 nm)	0.63	9.86063 (mg/L)	66126.16116	0.63
3/3/2022 20:35:28	2203068-001A	Cd (228.802 nm)	23.22	0.00024 (mg/L)	23.47848	6.52
3/3/2022 20:35:28	2203068-001A	Co (230.786 nm)	21.12	0.00111 (mg/L)	18.38323	12.42
3/3/2022 20:35:28	2203068-001A	Cr (267.716 nm)	13.04	0.00067 (mg/L)	43.95046	4.50

Injection Log

Directory: C:\MS-9\New\Raw Data\S220302

Line	Vial	FileName	Multiplier	SampleName		Misc Info	Injected
1	1	S22030203.D	1.	DFTPP		TUNE DFTPP_4	2 Mar 2022 09:43
2	2	S22030204.D	1.	BNA60		CCV 8270_TCL4.2_W	2 Mar 2022 10:09
3	4	S22030205.D	1.	EX10	989-49/	ICAL 8270_TCL4.2_W	2 Mar 2022 10:37
4	5	S22030210.D	1.	EX10	989-34	ICAL 8270_TCL4.2_W	2 Mar 2022 11:03
5	5	S22030211.D	1.	EX10	989-34	ICAL 8270_TCL4.2_W	2 Mar 2022 11:30
6	6	S22030212.D	1.	EX20	989-34	ICAL 8270_TCL4.2_W	2 Mar 2022 17:33
7	7	S22030213.D	1.	EX40	989-34	ICAL 8270_TCL4.2_W	2 Mar 2022 17:59
8	8	S22030214.D	1.	EX60	989-34	ICAL 8270_TCL4.2_W	2 Mar 2022 18:25
9	9	S22030215.D	1.	EX80	989-34/	ICAL 8270_TCL4.2_W	2 Mar 2022 18:50
10	10	S22030216.D	1.	EX120	989-34/	ICAL 8270_TCL4.2_W	2 Mar 2022 19:16
11	11	S22030217.D	1.	EX160	989-34	ICAL 8270_TCL4.2_W	2 Mar 2022 19:41
12	12	S22030220.D	1.	2202V06-009B		SAMP 8270_TCL4.2_W	2 Mar 2022 11:57
13	13	S22030221.D	1.	2202V06-010B		SAMP 8270_TCL4.2_W	2 Mar 2022 12:24
14	14	S22030222.D	1.	2202V06-011B		SAMP 8270_TCL4.2_W	2 Mar 2022 12:50
15	15	S22030223.D	1.	2202V06-012B		SAMP 8270_TCL4.2_W	2 Mar 2022 15:25
16	16	S22030224.D	1.	2202V06-013B		SAMP 8270_TCL4.2_W	2 Mar 2022 15:51
17	17	S22030225.D	1.	2202V06-014B		SAMP 8270_TCL4.2_W	2 Mar 2022 16:16
18	18	S22030226.D	1.	2202V06-015B		SAMP 8270_TCL4.2_W	2 Mar 2022 16:42
19	19	S22030227.D	1.	2202V06-016B		SAMP 8270_TCL4.2_W	2 Mar 2022 17:07
20	20	S22030228.D	1.	MB-331786		MBLK 1311_B	2 Mar 2022 13:16
21	21	S22030229.D	1.	LCS-331786		LCS 1311_B	2 Mar 2022 13:41
22	22	S22030230.D	1.	2202T19-001C		SAMP 1311_B	2 Mar 2022 14:08
23	23	S22030231.D	1.	2202W70-001B		SAMP 1311_B	2 Mar 2022 14:33
24	24	S22030232.D	1.	2202W70-001BMS		MS 1311_B	2 Mar 2022 14:59

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030204.D
Acq On : 2 Mar 2022 10:09 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 02 12:22:59 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	114	0.00
2		Pyridine	60.000	61.184	-2.0	113	0.00
3	T	2-Picoline	60.000	62.905	-4.8	116	0.00
4	T	Methyl methanesulfonate	60.000	60.608	-1.0	115	0.00
5	S	2-Fluorophenol	60.000	61.970	-3.3	114	0.00
6	T	Ethyl methanesulfonate	60.000	61.007	-1.7	118	0.00
7	P	Benzaldehyde	60.000	59.965	0.1	110	0.00
8	T	Aniline	60.000	61.281	-2.1	114	0.00
9	S	Phenol-d5	60.000	61.704	-2.8	116	0.00
10	P	Phenol	60.000	63.447	-5.7	119	0.00
11	P	Bis(2-chloroethyl)ether	60.000	61.769	-2.9	119	0.00
12	P	2-Chlorophenol	60.000	62.009	-3.3	115	0.00
13	T	1,3-Dichlorobenzene	60.000	61.257	-2.1	117	0.00
14	CCC	1,4-Dichlorobenzene	60.000	59.909	0.2	113	0.00
15	T	1,2-Dichlorobenzene	60.000	61.835	-3.1	116	0.00
16	T	Benzyl alcohol	60.000	59.972	0.0	112	0.00
17	T	Bis(2-chloroisopropyl)ether	60.000	60.739	-1.2	112	0.00
18	P	2-Methylphenol	60.000	61.820	-3.0	114	0.01
19	T	3,4-Methylphenol	120.000	119.404	0.5	115	0.00
20	PC	N-Nitrosodi-n-propylamine	60.000	62.006	-3.3	117	0.00
21	T	N-Nitrosodimethylamine	60.000	61.215	-2.0	116	0.00
22	T	Hexachloroethane	60.000	61.271	-2.1	115	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	115	0.00
24	S	Nitrobenzene-d5	60.000	61.556	-2.6	119	0.00
25	P	Acetophenone	120.000	119.562	0.4	116	0.00
26	P	Nitrobenzene	60.000	63.058	-5.1	118	0.00
27	T	N-Nitrosopiperidine	60.000	61.934	-3.2	116	0.00
28	P	Isophorone	60.000	61.434	-2.4	116	0.00
29	P	2-Nitrophenol	60.000	68.251	-13.8	125	0.00
30	P	2,4-Dimethylphenol	60.000	61.670	-2.8	116	0.00
31	P	Bis(2-chloroethoxy)methane	60.000	61.136	-1.9	116	0.00
32	P	2,4-Dichlorophenol	60.000	60.456	-0.8	112	0.00
33	T	1,2,4-Trichlorobenzene	60.000	61.288	-2.1	116	0.00
34	P	Naphthalene	60.000	60.472	-0.8	114	0.00
35	T	Benzoic acid	60.000	33.414	44.3#	45	-0.01
36	T	2,6-Dichlorophenol	60.000	60.027	-0.0	113	0.00
37	P	4-Chloroaniline	60.000	61.304	-2.2	116	0.00
38	P	Hexachlorobutadiene	60.000	60.177	-0.3	113	0.00
39	T	a,a-Dimethylphenethylamine	60.000	59.446	0.9	110	0.07
40	P	Caprolactam	60.000	62.559	-4.3	119	0.03
41	P	4-Chloro-3-methylphenol	60.000	62.052	-3.4	116	0.00
42	T	N-Nitrosodi-n-butylamine	60.000	55.412	7.6	115	0.00
43	P	2-Methylnaphthalene	60.000	60.971	-1.6	116	0.00
44	T	1-Methylnaphthalene	60.000	61.313	-2.2	115	0.00
45	I	Acenaphthene-d10	40.000	40.000	0.0	117	0.00
46	T	1,2,4,5-Tetrachlorobenzene	60.000	59.067	1.6	113	0.00
47	P	Hexachlorocyclopentadiene	60.000	60.359	-0.6	115	0.00
48	P	2,4,6-Trichlorophenol	60.000	63.967	-6.6	118	0.00
49	P	2,4,5-Trichlorophenol	60.000	62.015	-3.4	117	0.00
50	S	2-Fluorobiphenyl	60.000	58.412	2.6	113	0.00
51		Biphenyl	60.000	58.877	1.9	115	0.00

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030204.D
Acq On : 2 Mar 2022 10:09 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 02 12:22:59 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	P	2-Chloronaphthalene	60.000	58.504	2.5	116	0.00
53	T	1-Chloronaphthalene	60.000	59.080	1.5	114	0.00
54	P	2-Nitroaniline	60.000	62.592	-4.3	119	0.00
55	P	3-Nitroaniline	60.000	62.089	-3.5	117	0.00
56	T	Pentachlorobenzene	60.000	59.734	0.4	116	0.00
57	T	4-Nitroaniline	60.000	59.801	0.3	115	0.00
58	T	2-Naphthylamine	60.000	59.484	0.9	114	0.00
59	T	1-Naphthylamine	60.000	59.460	0.9	113	0.00
60	P	Dimethyl phthalate	60.000	60.374	-0.6	118	0.00
61	P	Acenaphthylene	60.000	60.677	-1.1	116	0.00
62	P	2,6-Dinitrotoluene	60.000	61.126	-1.9	116	0.00
63	P	Acenaphthene	60.000	58.997	1.7	113	0.00
64	P	2,4-Dinitrophenol	60.000	52.321	12.8	110	0.01
65	P	Dibenzofuran	60.000	59.177	1.4	115	0.00
66	P	4-Nitrophenol	60.000	65.801	-9.7	114	0.01
67	P	2,4-Dinitrotoluene	60.000	62.731	-4.6	117	0.00
68	T	2,3,4,6-Tetrachlorophenol	60.000	61.925	-3.2	118	0.00
69	P	Diethyl phthalate	60.000	59.765	0.4	113	0.00
70	P	Fluorene	60.000	59.850	0.2	114	0.00
71	P	4-Chlorophenyl phenyl ether	60.000	59.368	1.1	113	0.00
72	S	2,4,6-Tribromophenol	60.000	61.088	-1.8	119	0.00
73	I	Phenanthrene-d10	40.000	40.000	0.0	114	0.00
74	P	4,6-Dinitro-2-methylphenol	60.000	55.454	7.6	108	0.00
75	T	Azobenzene	60.000	61.424	-2.4	116	0.00
76	T	1,2-Diphenylhydrazine	60.000	60.837	-1.4	113	0.00
77	CCC	Diphenylamine	60.000	61.810	-3.0	114	0.00
78	P	N-Nitrosodiphenylamine	60.000	60.676	-1.1	116	0.00
79	P	4-Bromophenyl phenyl ether	60.000	62.451	-4.1	121	0.00
80	T	Phenacetin	60.000	64.726	-7.9	118	0.00
81	P	Hexachlorobenzene	60.000	60.652	-1.1	115	0.00
82	P	Atrazine	60.000	64.051	-6.8	118	0.00
83	T	4-Aminobiphenyl	60.000	62.009	-3.3	117	0.00
84	P	Pentachlorophenol	60.000	54.959	8.4	113	0.00
85	T	Pentachloronitrobenzene	60.000	63.340	-5.6	115	0.00
86	T	Pronamide	60.000	62.557	-4.3	118	0.00
87	P	Phenanthrene	60.000	61.397	-2.3	116	0.00
88	P	Anthracene	60.000	61.088	-1.8	115	0.00
89	P	Carbazole	60.000	61.612	-2.7	117	0.00
90	P	Di-n-butyl phthalate	60.000	61.592	-2.7	116	0.00
91	P	Fluoranthene	60.000	61.364	-2.3	118	0.00
92	I	Chrysene-d12	40.000	40.000	0.0	114	0.00
93	P	Pyrene	60.000	60.834	-1.4	115	0.00
94	S	4-Terphenyl-d14	60.000	61.404	-2.3	115	0.00
95	T	Benzidine	60.000	64.986	-8.3	120	0.00
96	T	p-Dimethylaminoazobenzene	60.000	65.185	-8.6	115	0.00
97	P	Butyl benzyl phthalate	60.000	65.873	-9.8	122	0.00
98	P	Benz(a)anthracene	60.000	61.973	-3.3	116	0.00
99	P	3,3'-Dichlorobenzidine	60.000	62.648	-4.4	115	0.00
100	P	Chrysene	60.000	60.256	-0.4	113	0.00
101	P	Bis(2-ethylhexyl)phthalate	60.000	67.170	-12.0	119	0.00
102	P	Di-n-octyl phthalate	60.000	68.853	-14.8	123	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030204.D
Acq On : 2 Mar 2022 10:09 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 02 12:22:59 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	60.000	60.641	-1.1	117	0.00
104	I	Perylene-d12	40.000	40.000	0.0	115	0.00
105	P	Benzo[b]fluoranthene	60.000	62.661	-4.4	120	0.00
106	P	Benzo[k]fluoranthene	60.000	62.124	-3.5	116	0.00
107	P	Benzo[a]pyrene	60.000	61.151	-1.9	118	0.00
108	T	Dibenz(a,j)acridine	60.000	64.882	-8.1	123	0.00
109		Indeno[1,2,3-cd]pyrene	60.000	62.773	-4.6	120	0.01
110	P	Dibenz(a,h)anthracene	60.000	63.133	-5.2	117	0.00
111	P	Benzo[g,h,i]perylene	60.000	61.502	-2.5	115	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030204.D
Acq On : 2 Mar 2022 10:09 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 02 12:22:59 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	114	0.00
2		Pyridine	1.535	1.565	-2.0	113	0.00
3	T	2-Picoline	1.554	1.629	-4.8	116	0.00
4	T	Methyl methanesulfonate	0.774	0.781	-0.9	115	0.00
5	S	2-Fluorophenol	1.264	1.305	-3.2	114	0.00
6	T	Ethyl methanesulfonate	1.084	1.102	-1.7	118	0.00
7	P	Benzaldehyde	1.014	1.014	0.0	110	0.00
8	T	Aniline	0.902	0.921	-2.1	114	0.00
9	S	Phenol-d5	1.628	1.675	-2.9	116	0.00
10	P	Phenol	1.712	1.811	-5.8	119	0.00
11	P	Bis(2-chloroethyl)ether	1.352	1.392	-3.0	119	0.00
12	P	2-Chlorophenol	1.310	1.354	-3.4	115	0.00
13	T	1,3-Dichlorobenzene	1.469	1.500	-2.1	117	0.00
14	CCC	1,4-Dichlorobenzene	1.466	1.463	0.2	113	0.00
15	T	1,2-Dichlorobenzene	1.387	1.430	-3.1	116	0.00
16	T	Benzyl alcohol	0.863	0.862	0.1	112	0.00
17	T	Bis(2-chloroisopropyl)ether	2.000	2.025	-1.2	112	0.00
18	P	2-Methylphenol	1.032	1.063	-3.0	114	0.01
19	T	3,4-Methylphenol	1.406	1.399	0.5	115	0.00
20	PC	N-Nitrosodi-n-propylamine	0.963	0.996	-3.4	117	0.00
21	T	N-Nitrosodimethylamine	0.781	0.797	-2.0	116	0.00
22	T	Hexachloroethane	0.567	0.579	-2.1	115	0.00
23	I	Naphthalene-d8	1.000	1.000	0.0	115	0.00
24	S	Nitrobenzene-d5	0.347	0.356	-2.6	119	0.00
25	P	Acetophenone	0.458	0.457	0.2	116	0.00
26	P	Nitrobenzene	0.156	0.164	-5.1	118	0.00
27	T	N-Nitrosopiperidine	0.159	0.165	-3.8	116	0.00
28	P	Isophorone	0.655	0.670	-2.3	116	0.00
29	P	2-Nitrophenol	0.140	0.160	-14.3	125	0.00
30	P	2,4-Dimethylphenol	0.281	0.289	-2.8	116	0.00
31	P	Bis(2-chloroethoxy)methane	0.398	0.406	-2.0	116	0.00
32	P	2,4-Dichlorophenol	0.245	0.247	-0.8	112	0.00
33	T	1,2,4-Trichlorobenzene	0.290	0.296	-2.1	116	0.00
34	P	Naphthalene	0.964	0.971	-0.7	114	0.00
35	T	Benzoic acid	0.142	0.053	62.7#	45#	-0.01
36	T	2,6-Dichlorophenol	0.239	0.239	0.0	113	0.00
37	P	4-Chloroaniline	0.396	0.404	-2.0	116	0.00
38	P	Hexachlorobutadiene	0.152	0.152	0.0	113	0.00
39	T	a,a-Dimethylphenethylamine	0.975	0.966	0.9	110	0.07
40	P	Caprolactam	0.102	0.106	-3.9	119	0.03
41	P	4-Chloro-3-methylphenol	0.269	0.278	-3.3	116	0.00
42	T	N-Nitrosodi-n-butylamine	0.251	0.232	7.6	115	0.00
43	P	2-Methylnaphthalene	0.554	0.563	-1.6	116	0.00
44	T	1-Methylnaphthalene	0.543	0.555	-2.2	115	0.00
45	I	Acenaphthene-d10	1.000	1.000	0.0	117	0.00
46	T	1,2,4,5-Tetrachlorobenzene	0.513	0.505	1.6	113	0.00
47	P	Hexachlorocyclopentadiene	0.281	0.283	-0.7	115	0.00
48	P	2,4,6-Trichlorophenol	0.297	0.317	-6.7	118	0.00
49	P	2,4,5-Trichlorophenol	0.338	0.349	-3.3	117	0.00
50	S	2-Fluorobiphenyl	1.228	1.195	2.7	113	0.00
51		Biphenyl	1.418	1.392	1.8	115	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030204.D
Acq On : 2 Mar 2022 10:09 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 02 12:22:59 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	P	2-Chloronaphthalene	1.094	1.067	2.5	116	0.00
53	T	1-Chloronaphthalene	0.973	0.958	1.5	114	0.00
54	P	2-Nitroaniline	0.362	0.377	-4.1	119	0.00
55	P	3-Nitroaniline	0.321	0.332	-3.4	117	0.00
56	T	Pentachlorobenzene	0.436	0.434	0.5	116	0.00
57	T	4-Nitroaniline	0.329	0.328	0.3	115	0.00
58	T	2-Naphthylamine	1.162	1.152	0.9	114	0.00
59	T	1-Naphthylamine	1.199	1.189	0.8	113	0.00
60	P	Dimethyl phthalate	1.200	1.207	-0.6	118	0.00
61	P	Acenaphthylene	1.648	1.666	-1.1	116	0.00
62	P	2,6-Dinitrotoluene	0.252	0.257	-2.0	116	0.00
63	P	Acenaphthene	1.016	0.999	1.7	113	0.00
64	P	2,4-Dinitrophenol	0.072	0.061	15.3	110	0.01
65	P	Dibenzofuran	1.500	1.480	1.3	115	0.00
66	P	4-Nitrophenol	0.160	0.175	-9.4	114	0.01
67	P	2,4-Dinitrotoluene	0.332	0.347	-4.5	117	0.00
68	T	2,3,4,6-Tetrachlorophenol	0.212	0.218	-2.8	118	0.00
69	P	Diethyl phthalate	1.235	1.230	0.4	113	0.00
70	P	Fluorene	1.248	1.245	0.2	114	0.00
71	P	4-Chlorophenyl phenyl ether	0.562	0.556	1.1	113	0.00
72	S	2,4,6-Tribromophenol	0.116	0.122	-5.2	119	0.00
73	I	Phenanthrene-d10	1.000	1.000	0.0	114	0.00
74	P	4,6-Dinitro-2-methylphenol	0.065	0.060	7.7	108	0.00
75	T	Azobenzene	0.680	0.696	-2.4	116	0.00
76	T	1,2-Diphenylhydrazine	0.159	0.162	-1.9	113	0.00
77	CCC	Diphenylamine	0.106	0.109	-2.8	114	0.00
78	P	N-Nitrosodiphenylamine	0.535	0.541	-1.1	116	0.00
79	P	4-Bromophenyl phenyl ether	0.187	0.194	-3.7	121	0.00
80	T	Phenacetin	0.348	0.375	-7.8	118	0.00
81	P	Hexachlorobenzene	0.178	0.180	-1.1	115	0.00
82	P	Atrazine	0.182	0.194	-6.6	118	0.00
83	T	4-Aminobiphenyl	0.726	0.750	-3.3	117	0.00
84	P	Pentachlorophenol	0.083	0.083	0.0	113	0.00
85	T	Pentachloronitrobenzene	0.074	0.079	-6.8	115	0.00
86	T	Pronamide	0.212	0.221	-4.2	118	0.00
87	P	Phenanthrene	1.034	1.058	-2.3	116	0.00
88	P	Anthracene	1.036	1.055	-1.8	115	0.00
89	P	Carbazole	0.931	0.956	-2.7	117	0.00
90	P	Di-n-butyl phthalate	1.191	1.222	-2.6	116	0.00
91	P	Fluoranthene	1.090	1.115	-2.3	118	0.00
92	I	Chrysene-d12	1.000	1.000	0.0	114	0.00
93	P	Pyrene	1.258	1.276	-1.4	115	0.00
94	S	4-Terphenyl-d14	0.910	0.931	-2.3	115	0.00
95	T	Benzidine	0.650	0.704	-8.3	120	0.00
96	T	p-Dimethylaminoazobenzene	0.242	0.263	-8.7	115	0.00
97	P	Butyl benzyl phthalate	0.571	0.627	-9.8	122	0.00
98	P	Benz(a)anthracene	1.132	1.169	-3.3	116	0.00
99	P	3,3'-Dichlorobenzidine	0.400	0.418	-4.5	115	0.00
100	P	Chrysene	1.105	1.110	-0.5	113	0.00
101	P	Bis(2-ethylhexyl)phthalate	0.744	0.833	-12.0	119	0.00
102	P	Di-n-octyl phthalate	1.244	1.427	-14.7	123	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030204.D
Acq On : 2 Mar 2022 10:09 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 02 12:22:59 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	0.358	0.385	-7.5	117	0.00
104	I	Perylene-d12	1.000	1.000	0.0	115	0.00
105	P	Benzo[b]fluoranthene	1.127	1.177	-4.4	120	0.00
106	P	Benzo[k]fluoranthene	1.078	1.116	-3.5	116	0.00
107	P	Benzo[a]pyrene	0.969	0.987	-1.9	118	0.00
108	T	Dibenz(a,j)acridine	0.756	0.818	-8.2	123	0.00
109		Indeno[1,2,3-cd]pyrene	1.189	1.244	-4.6	120	0.01
110	P	Dibenz(a,h)anthracene	0.960	1.010	-5.2	117	0.00
111	P	Benzo[g,h,i]perylene	0.987	1.011	-2.4	115	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

GC/MS QA-QC Check Report

Tune File : C:\MS-9\New\Raw Data\S220302\S22030204.D
Tune Time : 2 Mar 2022 10:09 am

Daily Calibration File : C:\MS-9\New\Raw Data\S220302\S22030204.D

(2FP)	(PHL)	(NBZ)	(FBP)	(DCB)	(NPT)	(ANT)
				61964	249262	133404

(TPH)	(PHN)	(CRY)	(PRY)
	241606	209049	201453

File	Sample	Surrogate Recovery %				Internal Standard Responses		
S22030220.D								
	2202V06-00	45	28	86	77	48819	194667	96747
		84	97			178896	147987	140861
S22030221.D								
	2202V06-01	37	25	81	75	50239	202124	103242
		78	98			186509	153865	149783
S22030222.D								
	2202V06-01	42	24	83	75	51124	195245	98843
		74	80			175642	149600	140749
S22030223.D								
	2202V06-01	59	40	90	84	45890	182444	90463
		89	106			171270	139556	132794
S22030224.D								
	2202V06-01	51	32	99	89	47158	187041	95498
		84	103			170621	141345	145809
S22030225.D								
	2202V06-01	43	28	95	88	52080	201013	104958
		96	98			192068	159670	147359
S22030226.D								
	2202V06-01	53	34	98	78	50354	202447	105220
		94	109			187450	156170	147931
S22030227.D								
	2202V06-01	67	50	92	68	46562	183435	94404
		91	110			172429	139072	139873
S22030228.D								
	MB-331786	95	89	111	105	43922	170843	86160
		94	120			158011	123751	118277
S22030229.D								
	LCS-331786	81	80	96	93	51227	201291	105558
		87	108			184920	152358	143965
S22030230.D								
	2202T19-00	45	48	87	78	55867	222091	115792
		50	89			209632	169339	161470
S22030231.D								
	2202W70-00	58	56	87	85	48971	192510	97717
		57	88			180177	146128	138058
S22030232.D								
	2202W70-00	67	63	93	93	52164	200402	100368
		69	96			183866	151859	140394

(fails) - fails 12hr time check * - fails criteria

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030204.D
Acq On : 2 Mar 2022 10:09 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 02 12:22:59 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.220	152	61964	40.00	ng		0.00
23) Naphthalene-d8	...	5.824	136	249262	40.00	ng		0.00
45) Acenaphthene-d10	...	7.876	164	133404	40.00	ng		0.00
73) Phenanthrene-d10	...	9.533	188	241606	40.00	ng		0.00
92) Chrysene-d12	...	12.465	240	209049	40.00	ng		0.00
104) Perylene-d12	...	13.924	264	201453	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.668	112	121337	61.97	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 61.97%					
9) Phenol-d5	...	3.814	99	155648	61.70	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 61.70%					
24) Nitrobenzene-d5	...	4.944	82	132978	61.56	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 123.12%#					
50) 2-Fluorobiphenyl	...	7.146	172	239139	58.41	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 116.82%#					
72) 2,4,6-Tribromophenol	...	8.770	330	24394	61.09	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 61.09%					
94) 4-Terphenyl-d14	...	11.344	244	292004	61.40	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 122.80%					
Target Compounds								Qvalue
2) Pyridine	...	1.405	79	145441	61.18	ng		96
3) 2-Picoline	...	2.046	93	151406	62.91	ng		98
4) Methyl methanesulfonate	...	2.483	80	72631	60.61	ng		96
6) Ethyl methanesulfonate	...	3.281	79	102415	61.01	ng		96
7) Benzaldehyde	...	3.644	105	94225	59.97	ng		95
8) Aniline	...	3.797	66	85593	61.28	ng		91
10) Phenol	...	3.831	94	168296	63.45	ng		99
11) Bis(2-chloroethyl)ether	...	3.914	93	129416	61.77	ng		96
12) 2-Chlorophenol	...	3.945	128	125840	62.01	ng		96
13) 1,3-Dichlorobenzene	...	4.141	146	139382	61.26	ng		97
14) 1,4-Dichlorobenzene	...	4.240	146	136013	59.91	ng		99
15) 1,2-Dichlorobenzene	...	4.436	146	132874	61.84	ng		99
16) Benzyl alcohol	...	4.441	108	80149	59.97	ng	#	74
17) Bis(2-chloroisopropyl)ether	...	4.643	45	188183	60.74	ng		91
18) 2-Methylphenol	...	4.632	107	98793	61.82	ng		93
19) 3,4-Methylphenol	...	4.842	107	260004	119.40	ng		96
20) N-Nitrosodi-n-propylamine	...	4.802	70	92532	62.01	ng		96
21) N-Nitrosodimethylamine	...	1.387	42	74047	61.21	ng		87
22) Hexachloroethane	...	4.864	117	53783	61.27	ng		99
25) Acetophenone	...	4.768	105	341395	119.56	ng		95
26) Nitrobenzene	...	4.969	123	61408	63.06	ng	#	86
27) N-Nitrosopiperidine	...	5.157	114	61541	61.93	ng		86
28) Isophorone	...	5.287	82	250611	61.43	ng		98
29) 2-Nitrophenol	...	5.375	139	59689	68.25	ng		95
30) 2,4-Dimethylphenol	...	5.497	122	107872	61.67	ng		98
31) Bis(2-chloroethoxy)methane	...	5.605	93	151725	61.14	ng		99
32) 2,4-Dichlorophenol	...	5.685	162	92279	60.46	ng		98
33) 1,2,4-Trichlorobenzene	...	5.773	180	110856	61.29	ng		98
34) Naphthalene	...	5.849	128	363155	60.47	ng		99
35) Benzoic acid	...	5.622	105	19881	33.41	ng		88
36) 2,6-Dichlorophenol	...	5.960	162	89394	60.03	ng		94
37) 4-Chloroaniline	...	5.957	127	151116	61.30	ng		97
38) Hexachlorobutadiene	...	6.048	225	56912	60.18	ng		97
39) a,a-Dimethylphenethylamine	...	5.798	58	361075	59.45	ng		75
40) Caprolactam	...	6.383	113	39663	62.56	ng	#	65

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030204.D
Acq On : 2 Mar 2022 10:09 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 02 12:22:59 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.593	107	104022	62.05	ng		96
42) N-Nitrosodi-n-butylamine	6.403	84	86665	55.41	ng		92
43) 2-Methylnaphthalene	6.689	141	210583	60.97	ng		99
44) 1-Methylnaphthalene	6.800	141	207610	61.31	ng		100
46) 1,2,4,5-Tetrachlorobenzene	6.891	216	101120	59.07	ng		99
47) Hexachlorocyclopentadiene	6.897	237	56623	60.36	ng		98
48) 2,4,6-Trichlorophenol	7.044	196	63409	63.97	ng		98
49) 2,4,5-Trichlorophenol	7.084	196	69861	62.02	ng		98
51) Biphenyl	7.248	154	278532	58.88	ng		99
52) 2-Chloronaphthalene	7.246	162	213527	58.50	ng		97
53) 1-Chloronaphthalene	7.268	162	191751	59.08	ng		97
54) 2-Nitroaniline	7.390	65	75481	62.59	ng		92
55) 3-Nitroaniline	7.864	138	66505	62.09	ng		93
56) Pentachlorobenzene	8.074	250	86871	59.73	ng		96
57) 4-Nitroaniline	8.554	138	65576	59.80	ng	#	82
58) 2-Naphthylamine	8.205	143	230586	59.48	ng		99
59) 1-Naphthylamine	8.299	143	237842	59.46	ng		99
60) Dimethyl phthalate	7.643	163	241567	60.37	ng		100
61) Acenaphthylene	7.711	152	333453	60.68	ng		99
62) 2,6-Dinitrotoluene	7.686	165	51337	61.13	ng	#	79
63) Acenaphthene	7.915	154	199956	59.00	ng		100
64) 2,4-Dinitrophenol	7.984	184	12285	52.32	ng		83
65) Dibenzofuran	8.114	168	296076	59.18	ng		68
66) 4-Nitrophenol	8.111	109	35066	65.80	ng	#	1
67) 2,4-Dinitrotoluene	8.137	165	69468	62.73	ng		88
68) 2,3,4,6-Tetrachlorophenol	8.276	232	43714	61.93	ng		97
69) Diethyl phthalate	8.452	149	246224	59.77	ng		98
70) Fluorene	8.497	166	249150	59.85	ng		97
71) 4-Chlorophenyl phenyl ether	8.529	204	111347	59.37	ng		98
74) 4,6-Dinitro-2-methylphenol	8.588	198	21798	55.45	ng		83
75) Azobenzene	8.704	77	252398	61.42	ng		95
76) 1,2-Diphenylhydrazine	8.704	182	58593	60.84	ng	#	84
77) Diphenylamine	8.670	170	39620	61.81	ng		96
78) N-Nitrosodiphenylamine	8.670	168	195971	60.68	ng		99
79) 4-Bromophenyl phenyl ether	9.071	248	70461	62.45	ng		98
80) Phenacetin	9.054	108	135888	64.73	ng		98
81) Hexachlorobenzene	9.116	284	65165	60.65	ng		98
82) Atrazine	9.306	200	70273	64.05	ng		98
83) 4-Aminobiphenyl	9.360	169	271920	62.01	ng		99
84) Pentachlorophenol	9.349	266	29901	54.96	ng		98
85) Pentachloronitrobenzene	9.363	237	28482	63.34	ng		95
86) Pronamide	9.476	173	79973	62.56	ng		94
87) Phenanthrene	9.559	178	383296	61.40	ng		99
88) Anthracene	9.616	178	382190	61.09	ng		100
89) Carbazole	9.817	167	346529	61.61	ng		99
90) Di-n-butyl phthalate	10.283	149	442937	61.59	ng		99
91) Fluoranthene	10.879	202	404185	61.36	ng		100
93) Pyrene	11.120	202	400041	60.83	ng		100
95) Benzidine	11.066	184	220728	64.99	ng		100
96) p-Dimethylaminoazobenzene	11.509	225	82420	65.19	ng	#	88
97) Butyl benzyl phthalate	11.929	149	196459	65.87	ng		94
98) Benz(a)anthracene	12.457	228	366612	61.97	ng		99
99) 3,3'-Dichlorobenzidine	12.465	252	131109	62.65	ng		99
100) Chrysene	12.494	228	347917	60.26	ng		100
101) Bis(2-ethylhexyl)phthalate	12.604	149	261154	67.17	ng		96
102) Di-n-octyl phthalate	13.283	149	447550	68.85	ng		95
103) 3-Methylcholanthrene	14.202	268	120881	60.64	ng		97

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030204.D
Acq On : 2 Mar 2022 10:09 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 02 12:22:59 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

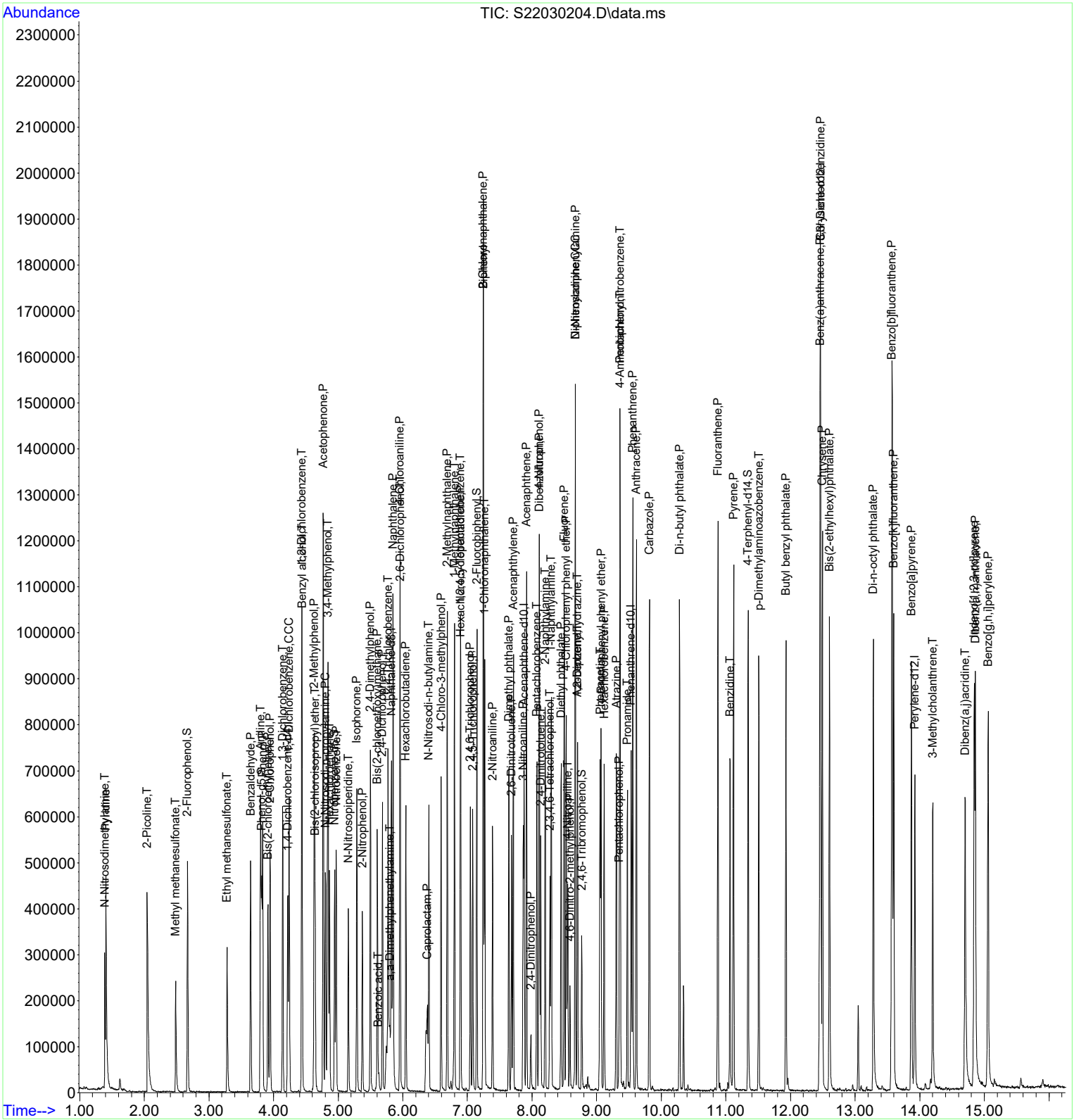
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene	13.569	252	355541	62.66	ng		97
106) Benzo[k]fluoranthene	13.598	252	337155	62.12	ng		98
107) Benzo[a]pyrene	13.870	252	298324	61.15	ng		98
108) Dibenz(a,j)acridine	14.705	279	247114	64.88	ng		99
109) Indeno[1,2,3-cd]pyrene	14.844	276	375867	62.77	ng	#	90
110) Dibenz(a,h)anthracene	14.863	278	305215	63.13	ng		99
111) Benzo[g,h,i]perylene	15.059	276	305588	61.50	ng		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030204.D
Acq On : 2 Mar 2022 10:09 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 02 12:22:59 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030228.D
Acq On : 2 Mar 2022 1:16 pm
Operator : YH
Sample : MB-331786
Misc : MBLK 1311_B
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 02 14:01:24 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.217	152	43922	40.00	ng	0.00
23) Naphthalene-d8	...	5.824	136	170843	40.00	ng	0.00
45) Acenaphthene-d10	...	7.876	164	86160	40.00	ng	0.00
73) Phenanthrene-d10	...	9.531	188	158011	40.00	ng	0.00
92) Chrysene-d12	...	12.463	240	123751	40.00	ng	0.00
104) Perylene-d12	...	13.921	264	118277	40.00	ng	0.00
System Monitoring Compounds							
5) 2-Fluorophenol	...	2.668	112	131576	94.80	ng	0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 94.80%				
9) Phenol-d5	...	3.812	99	158700	88.76	ng	0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 88.76%				
24) Nitrobenzene-d5	...	4.941	82	82276	55.57	ng	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 111.14%				
50) 2-Fluorobiphenyl	...	7.144	172	139215	52.65	ng	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 105.30%				
72) 2,4,6-Tribromophenol	...	8.767	330	24845	93.67	ng	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 93.67%				
94) 4-Terphenyl-d14	...	11.347	244	169417	60.18	ng	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 120.36%				

Target Compounds					Qvalue
2) Pyridine	...	0.000	79	0	N.D.
3) 2-Picoline	...	0.000	93	0	N.D.
4) Methyl methanesulfonate	...	0.000	80	0	N.D. d
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.
7) Benzaldehyde	...	0.000	105	0	N.D.
8) Aniline	...	0.000	66	0	N.D. d
10) Phenol	...	0.000	94	0	N.D.
11) Bis(2-chloroethyl)ether	...	0.000	93	0	N.D.
12) 2-Chlorophenol	...	0.000	128	0	N.D.
13) 1,3-Dichlorobenzene	...	0.000	146	0	N.D.
14) 1,4-Dichlorobenzene	...	0.000	146	0	N.D.
15) 1,2-Dichlorobenzene	...	0.000	146	0	N.D.
16) Benzyl alcohol	...	0.000	108	0	N.D.
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0	N.D.
18) 2-Methylphenol	...	0.000	107	0	N.D.
19) 3,4-Methylphenol	...	0.000	107	0	N.D.
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D. d
22) Hexachloroethane	...	0.000	117	0	N.D.
25) Acetophenone	...	0.000	105	0	N.D.
26) Nitrobenzene	...	0.000	123	0	N.D.
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.
28) Isophorone	...	0.000	82	0	N.D.
29) 2-Nitrophenol	...	0.000	139	0	N.D.
30) 2,4-Dimethylphenol	...	0.000	122	0	N.D.
31) Bis(2-chloroethoxy)methane	...	0.000	93	0	N.D.
32) 2,4-Dichlorophenol	...	0.000	162	0	N.D.
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.
34) Naphthalene	...	0.000	128	0	N.D.
35) Benzoic acid	...	0.000	105	0	N.D.
36) 2,6-Dichlorophenol	...	0.000	162	0	N.D.
37) 4-Chloroaniline	...	0.000	127	0	N.D.
38) Hexachlorobutadiene	...	0.000	225	0	N.D.
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D.
40) Caprolactam	...	0.000	113	0	N.D.

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030228.D
Acq On : 2 Mar 2022 1:16 pm
Operator : YH
Sample : MB-331786
Misc : MBLK 1311_B
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 02 14:01:24 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 4-Chloro-3-methylphenol	...	0.000	107	0		N.D.
42) N-Nitrosodi-n-butylamine	...	0.000	84	0		N.D.
43) 2-Methylnaphthalene	...	0.000	141	0		N.D.
44) 1-Methylnaphthalene	...	0.000	141	0		N.D.
46) 1,2,4,5-Tetrachlorobenzene	...	0.000	216	0		N.D.
47) Hexachlorocyclopentadiene	...	0.000	237	0		N.D.
48) 2,4,6-Trichlorophenol	...	0.000	196	0		N.D.
49) 2,4,5-Trichlorophenol	...	0.000	196	0		N.D.
51) Biphenyl	...	0.000	154	0		N.D.
52) 2-Chloronaphthalene	...	0.000	162	0		N.D.
53) 1-Chloronaphthalene	...	0.000	162	0		N.D.
54) 2-Nitroaniline	...	0.000	65	0		N.D.
55) 3-Nitroaniline	...	0.000	138	0		N.D.
56) Pentachlorobenzene	...	0.000	250	0		N.D.
57) 4-Nitroaniline	...	0.000	138	0		N.D.
58) 2-Naphthylamine	...	0.000	143	0		N.D.
59) 1-Naphthylamine	...	0.000	143	0		N.D.
60) Dimethyl phthalate	...	0.000	163	0		N.D.
61) Acenaphthylene	...	0.000	152	0		N.D.
62) 2,6-Dinitrotoluene	...	0.000	165	0		N.D.
63) Acenaphthene	...	0.000	154	0		N.D.
64) 2,4-Dinitrophenol	...	0.000	184	0		N.D.
65) Dibenzofuran	...	0.000	168	0		N.D.
66) 4-Nitrophenol	...	0.000	109	0		N.D.
67) 2,4-Dinitrotoluene	...	0.000	165	0		N.D.
68) 2,3,4,6-Tetrachlorophenol	...	0.000	232	0		N.D.
69) Diethyl phthalate	...	0.000	149	0		N.D.
70) Fluorene	...	0.000	166	0		N.D.
71) 4-Chlorophenyl phenyl ether	...	0.000	204	0		N.D.
74) 4,6-Dinitro-2-methylphenol	...	0.000	198	0		N.D.
75) Azobenzene	...	0.000	77	0		N.D.
76) 1,2-Diphenylhydrazine	...	0.000	182	0		N.D.
77) Diphenylamine	...	0.000	170	0		N.D.
78) N-Nitrosodiphenylamine	...	0.000	168	0		N.D.
79) 4-Bromophenyl phenyl ether	...	0.000	248	0		N.D.
80) Phenacetin	...	0.000	108	0		N.D.
81) Hexachlorobenzene	...	0.000	284	0		N.D.
82) Atrazine	...	0.000	200	0		N.D.
83) 4-Aminobiphenyl	...	0.000	169	0		N.D.
84) Pentachlorophenol	...	0.000	266	0		N.D.
85) Pentachloronitrobenzene	...	0.000	237	0		N.D.
86) Pronamide	...	0.000	173	0		N.D.
87) Phenanthrene	...	0.000	178	0		N.D.
88) Anthracene	...	0.000	178	0		N.D.
89) Carbazole	...	0.000	167	0		N.D.
90) Di-n-butyl phthalate	...	0.000	149	0		N.D.
91) Fluoranthene	...	0.000	202	0		N.D.
93) Pyrene	...	0.000	202	0		N.D.
95) Benzidine	...	0.000	184	0		N.D.
96) p-Dimethylaminoazobenzene	...	0.000	225	0		N.D.
97) Butyl benzyl phthalate	...	0.000	149	0		N.D.
98) Benz(a)anthracene	...	0.000	228	0		N.D.
99) 3,3'-Dichlorobenzidine	...	0.000	252	0		N.D.
100) Chrysene	...	0.000	228	0		N.D.
101) Bis(2-ethylhexyl)phthalate	...	0.000	149	0		N.D.
102) Di-n-octyl phthalate	...	0.000	149	0		N.D.
103) 3-Methylcholanthrene	...	0.000	268	0		N.D.

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030228.D
Acq On : 2 Mar 2022 1:16 pm
Operator : YH
Sample : MB-331786
Misc : MBLK 1311_B
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 02 14:01:24 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

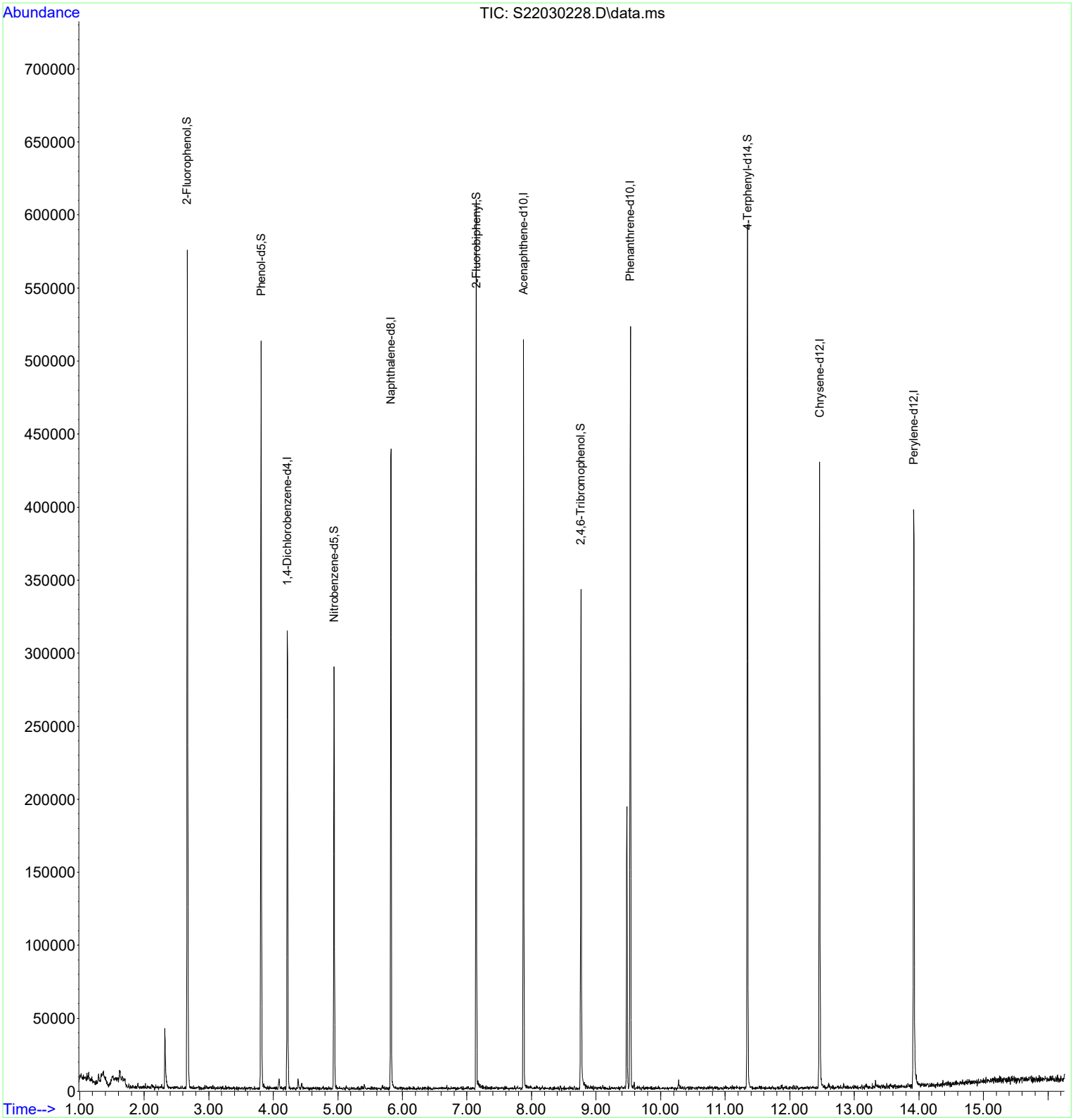
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) Benzo[b]fluoranthene	...	0.000	252	0		N.D.
106) Benzo[k]fluoranthene	...	0.000	252	0		N.D.
107) Benzo[a]pyrene	...	0.000	252	0		N.D.
108) Dibenz(a,j)acridine	...	0.000	279	0		N.D.
109) Indeno[1,2,3-cd]pyrene	...	0.000	276	0		N.D.
110) Dibenz(a,h)anthracene	...	0.000	278	0		N.D.
111) Benzo[g,h,i]perylene	...	0.000	276	0		N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030228.D
Acq On : 2 Mar 2022 1:16 pm
Operator : YH
Sample : MB-331786
Misc : MBLK 1311_B
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 02 14:01:24 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030229.D
Acq On : 2 Mar 2022 1:41 pm
Operator : YH
Sample : LCS-331786
Misc : LCS 1311_B
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 02 14:03:57 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.220	152	51227	40.00	ng		0.00
23) Naphthalene-d8	...	5.824	136	201291	40.00	ng		0.00
45) Acenaphthene-d10	...	7.876	164	105558	40.00	ng		0.00
73) Phenanthrene-d10	...	9.531	188	184920	40.00	ng		0.00
92) Chrysene-d12	...	12.463	240	152358	40.00	ng		0.00
104) Perylene-d12	...	13.924	264	143965	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.668	112	131891	81.48	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 81.48%					
9) Phenol-d5	...	3.812	99	166748	79.96	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 79.96%					
24) Nitrobenzene-d5	...	4.944	82	83374	47.79	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 95.58%					
50) 2-Fluorobiphenyl	...	7.144	172	150247	46.38	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 92.76%					
72) 2,4,6-Tribromophenol	...	8.767	330	28156	87.00	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 87.00%					
94) 4-Terphenyl-d14	...	11.344	244	186642	53.85	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 107.70%					
Target Compounds					Qvalue			
2) Pyridine	...	1.408	79	109951	55.95	ng		98
3) 2-Picoline	...	0.000	93	0	N.D.			
4) Methyl methanesulfonate	...	0.000	80	0	N.D.	d		
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.			
7) Benzaldehyde	...	0.000	105	0	N.D.			
8) Aniline	...	0.000	66	0	N.D.	d		
10) Phenol	...	0.000	94	0	N.D.			
11) Bis(2-chloroethyl)ether	...	0.000	93	0	N.D.			
12) 2-Chlorophenol	...	0.000	128	0	N.D.			
13) 1,3-Dichlorobenzene	...	0.000	146	0	N.D.	d		
14) 1,4-Dichlorobenzene	...	4.240	146	171667	91.46	ng		98
15) 1,2-Dichlorobenzene	...	0.000	146	0	N.D.	d		
16) Benzyl alcohol	...	0.000	108	0	N.D.	d		
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0	N.D.			
18) 2-Methylphenol	...	4.623	107	120053	90.87	ng	#	87
19) 3,4-Methylphenol	...	4.839	107	309643	172.00	ng		97
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.			
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D.			
22) Hexachloroethane	...	4.865	117	62700	86.40	ng		97
25) Acetophenone	...	0.000	105	0	N.D.	d		
26) Nitrobenzene	...	4.970	123	76032	96.68	ng	#	85
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.			
28) Isophorone	...	0.000	82	0	N.D.			
29) 2-Nitrophenol	...	0.000	139	0	N.D.			
30) 2,4-Dimethylphenol	...	0.000	122	0	N.D.			
31) Bis(2-chloroethoxy)methane	...	0.000	93	0	N.D.	d		
32) 2,4-Dichlorophenol	...	0.000	162	0	N.D.			
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.			
34) Naphthalene	...	0.000	128	0	N.D.	d		
35) Benzoic acid	...	0.000	105	0	N.D.			
36) 2,6-Dichlorophenol	...	0.000	162	0	N.D.			
37) 4-Chloroaniline	...	0.000	127	0	N.D.			
38) Hexachlorobutadiene	...	6.048	225	70231	91.96	ng		97
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D.			
40) Caprolactam	...	0.000	113	0	N.D.			

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030229.D
Acq On : 2 Mar 2022 1:41 pm
Operator : YH
Sample : LCS-331786
Misc : LCS 1311_B
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 02 14:03:57 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	...	0.000	107	0	N.D. d		
42) N-Nitrosodi-n-butylamine	...	0.000	84	0	N.D. d		
43) 2-Methylnaphthalene	...	0.000	141	0	N.D.		
44) 1-Methylnaphthalene	...	0.000	141	0	N.D.		
46) 1,2,4,5-Tetrachlorobenzene	...	0.000	216	0	N.D.		
47) Hexachlorocyclopentadiene	...	0.000	237	0	N.D.		
48) 2,4,6-Trichlorophenol	...	7.041	196	76698	97.78 ng		100
49) 2,4,5-Trichlorophenol	...	7.075	196	83637	93.83 ng		96
51) Biphenyl	...	0.000	154	0	N.D.		
52) 2-Chloronaphthalene	...	0.000	162	0	N.D. d		
53) 1-Chloronaphthalene	...	0.000	162	0	N.D. d		
54) 2-Nitroaniline	...	0.000	65	0	N.D. d		
55) 3-Nitroaniline	...	0.000	138	0	N.D.		
56) Pentachlorobenzene	...	0.000	250	0	N.D. d		
57) 4-Nitroaniline	...	0.000	138	0	N.D.		
58) 2-Naphthylamine	...	0.000	143	0	N.D.		
59) 1-Naphthylamine	...	0.000	143	0	N.D.		
60) Dimethyl phthalate	...	0.000	163	0	N.D.		
61) Acenaphthylene	...	0.000	152	0	N.D. d		
62) 2,6-Dinitrotoluene	...	0.000	165	0	N.D.		
63) Acenaphthene	...	0.000	154	0	N.D. d		
64) 2,4-Dinitrophenol	...	0.000	184	0	N.D.		
65) Dibenzofuran	...	0.000	168	0	N.D.		
66) 4-Nitrophenol	...	0.000	109	0	N.D.		
67) 2,4-Dinitrotoluene	...	8.134	165	80237	91.57 ng		87
68) 2,3,4,6-Tetrachlorophenol	...	0.000	232	0	N.D.		
69) Diethyl phthalate	...	8.441	149	4555	1.40 ng	#	86
70) Fluorene	...	8.497	166	5220	1.58 ng	#	94
71) 4-Chlorophenyl phenyl ether	...	0.000	204	0	N.D.		
74) 4,6-Dinitro-2-methylphenol	...	0.000	198	0	N.D.		
75) Azobenzene	...	8.702	77	6437	2.05 ng		94
76) 1,2-Diphenylhydrazine	...	0.000	182	0	N.D. d		
77) Diphenylamine	...	0.000	170	0	N.D. d		
78) N-Nitrosodiphenylamine	...	0.000	168	0	N.D. d		
79) 4-Bromophenyl phenyl ether	...	0.000	248	0	N.D.		
80) Phenacetin	...	0.000	108	0	N.D. d		
81) Hexachlorobenzene	...	9.119	284	81354	98.93 ng		99
82) Atrazine	...	0.000	200	0	N.D. d		
83) 4-Aminobiphenyl	...	0.000	169	0	N.D. d		
84) Pentachlorophenol	...	9.346	266	35117	79.34 ng		98
85) Pentachloronitrobenzene	...	0.000	237	0	N.D. d		
86) Pronamide	...	0.000	173	0	N.D. d		
87) Phenanthrene	...	0.000	178	0	N.D. d		
88) Anthracene	...	0.000	178	0	N.D. d		
89) Carbazole	...	0.000	167	0	N.D. d		
90) Di-n-butyl phthalate	...	0.000	149	0	N.D.		
91) Fluoranthene	...	0.000	202	0	N.D. d		
93) Pyrene	...	0.000	202	0	N.D. d		
95) Benzidine	...	0.000	184	0	N.D.		
96) p-Dimethylaminoazobenzene	...	0.000	225	0	N.D.		
97) Butyl benzyl phthalate	...	0.000	149	0	N.D.		
98) Benz(a)anthracene	...	0.000	228	0	N.D. d		
99) 3,3'-Dichlorobenzidine	...	0.000	252	0	N.D.		
100) Chrysene	...	0.000	228	0	N.D. d		
101) Bis(2-ethylhexyl)phthalate	...	0.000	149	0	N.D.		
102) Di-n-octyl phthalate	...	0.000	149	0	N.D. d		
103) 3-Methylcholanthrene	...	0.000	268	0	N.D.		

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030229.D
Acq On : 2 Mar 2022 1:41 pm
Operator : YH
Sample : LCS-331786
Misc : LCS 1311_B
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 02 14:03:57 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

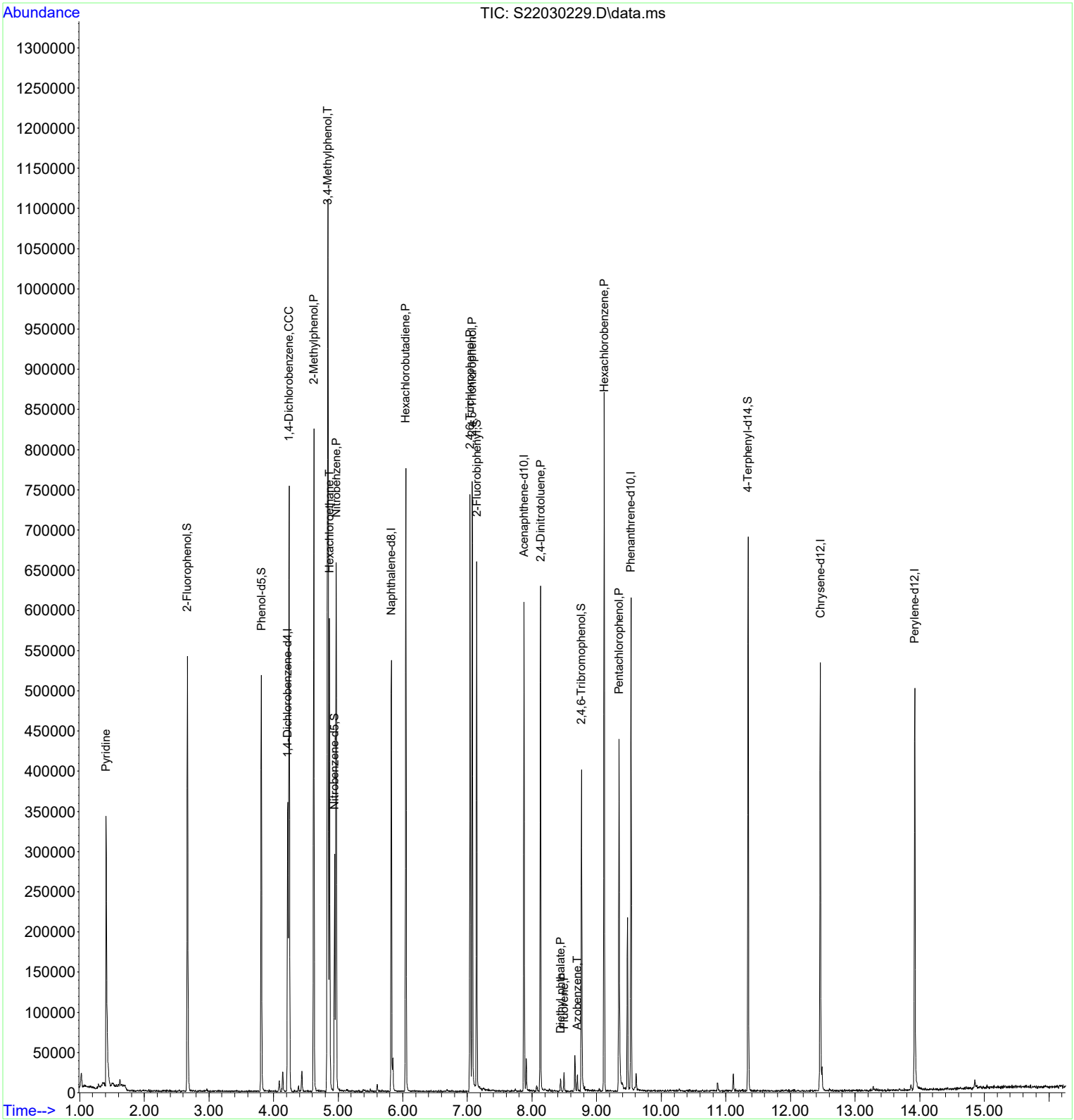
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) Benzo[b]fluoranthene	...	0.000	252	0		N.D. d
106) Benzo[k]fluoranthene	...	0.000	252	0		N.D. d
107) Benzo[a]pyrene	...	0.000	252	0		N.D. d
108) Dibenz(a,j)acridine	...	0.000	279	0		N.D.
109) Indeno[1,2,3-cd]pyrene	...	0.000	276	0		N.D.
110) Dibenz(a,h)anthracene	...	0.000	278	0		N.D. d
111) Benzo[g,h,i]perylene	...	0.000	276	0		N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030229.D
Acq On : 2 Mar 2022 1:41 pm
Operator : YH
Sample : LCS-331786
Misc : LCS 1311_B
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 02 14:03:57 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030231.D
Acq On : 2 Mar 2022 2:33 pm
Operator : YH
Sample : 2202W70-001B
Misc : SAMP 1311_B
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 02 15:16:49 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.220	152	48971	40.00	ng	0.00
23) Naphthalene-d8	...	5.821	136	192510	40.00	ng	0.00
45) Acenaphthene-d10	...	7.876	164	97717	40.00	ng	0.00
73) Phenanthrene-d10	...	9.531	188	180177	40.00	ng	0.00
92) Chrysene-d12	...	12.462	240	146128	40.00	ng	0.00
104) Perylene-d12	...	13.921	264	138058	40.00	ng	0.00
System Monitoring Compounds							
5) 2-Fluorophenol	...	2.671	112	90052	58.19	ng	0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 58.19%				
9) Phenol-d5	...	3.811	99	111027	55.69	ng	0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 55.69%				
24) Nitrobenzene-d5	...	4.941	82	72239	43.30	ng	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 86.60%				
50) 2-Fluorobiphenyl	...	7.144	172	127074	42.37	ng	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 84.74%				
72) 2,4,6-Tribromophenol	...	8.764	330	16629	57.17	ng	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 57.17%				
94) 4-Terphenyl-d14	...	11.344	244	146377	44.03	ng	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 88.06%				

Target Compounds					Qvalue
2) Pyridine	...	0.000	79	0	N.D.
3) 2-Picoline	...	0.000	93	0	N.D.
4) Methyl methanesulfonate	...	0.000	80	0	N.D.
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.
7) Benzaldehyde	...	0.000	105	0	N.D.
8) Aniline	...	0.000	66	0	N.D. d
10) Phenol	...	0.000	94	0	N.D.
11) Bis(2-chloroethyl)ether	...	0.000	93	0	N.D.
12) 2-Chlorophenol	...	0.000	128	0	N.D.
13) 1,3-Dichlorobenzene	...	0.000	146	0	N.D.
14) 1,4-Dichlorobenzene	...	0.000	146	0	N.D.
15) 1,2-Dichlorobenzene	...	0.000	146	0	N.D.
16) Benzyl alcohol	...	0.000	108	0	N.D.
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0	N.D.
18) 2-Methylphenol	...	0.000	107	0	N.D.
19) 3,4-Methylphenol	...	0.000	107	0	N.D.
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D.
22) Hexachloroethane	...	0.000	117	0	N.D.
25) Acetophenone	...	0.000	105	0	N.D.
26) Nitrobenzene	...	0.000	123	0	N.D.
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.
28) Isophorone	...	0.000	82	0	N.D.
29) 2-Nitrophenol	...	0.000	139	0	N.D.
30) 2,4-Dimethylphenol	...	0.000	122	0	N.D.
31) Bis(2-chloroethoxy)methane	...	0.000	93	0	N.D.
32) 2,4-Dichlorophenol	...	0.000	162	0	N.D.
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.
34) Naphthalene	...	0.000	128	0	N.D.
35) Benzoic acid	...	0.000	105	0	N.D.
36) 2,6-Dichlorophenol	...	0.000	162	0	N.D.
37) 4-Chloroaniline	...	0.000	127	0	N.D.
38) Hexachlorobutadiene	...	0.000	225	0	N.D.
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D.
40) Caprolactam	...	0.000	113	0	N.D.

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030231.D
Acq On : 2 Mar 2022 2:33 pm
Operator : YH
Sample : 2202W70-001B
Misc : SAMP 1311_B
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 02 15:16:49 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 4-Chloro-3-methylphenol	...	0.000	107	0		N.D.
42) N-Nitrosodi-n-butylamine	...	0.000	84	0		N.D.
43) 2-Methylnaphthalene	...	0.000	141	0		N.D.
44) 1-Methylnaphthalene	...	0.000	141	0		N.D.
46) 1,2,4,5-Tetrachlorobenzene	...	0.000	216	0		N.D.
47) Hexachlorocyclopentadiene	...	0.000	237	0		N.D.
48) 2,4,6-Trichlorophenol	...	0.000	196	0		N.D.
49) 2,4,5-Trichlorophenol	...	0.000	196	0		N.D.
51) Biphenyl	...	0.000	154	0		N.D.
52) 2-Chloronaphthalene	...	0.000	162	0		N.D.
53) 1-Chloronaphthalene	...	0.000	162	0		N.D.
54) 2-Nitroaniline	...	0.000	65	0		N.D.
55) 3-Nitroaniline	...	0.000	138	0		N.D.
56) Pentachlorobenzene	...	0.000	250	0		N.D.
57) 4-Nitroaniline	...	0.000	138	0		N.D.
58) 2-Naphthylamine	...	0.000	143	0		N.D.
59) 1-Naphthylamine	...	0.000	143	0		N.D.
60) Dimethyl phthalate	...	0.000	163	0		N.D.
61) Acenaphthylene	...	0.000	152	0		N.D.
62) 2,6-Dinitrotoluene	...	0.000	165	0		N.D.
63) Acenaphthene	...	0.000	154	0		N.D.
64) 2,4-Dinitrophenol	...	0.000	184	0		N.D.
65) Dibenzofuran	...	0.000	168	0		N.D.
66) 4-Nitrophenol	...	0.000	109	0		N.D.
67) 2,4-Dinitrotoluene	...	0.000	165	0		N.D.
68) 2,3,4,6-Tetrachlorophenol	...	0.000	232	0		N.D.
69) Diethyl phthalate	...	0.000	149	0		N.D.
70) Fluorene	...	0.000	166	0		N.D.
71) 4-Chlorophenyl phenyl ether	...	0.000	204	0		N.D.
74) 4,6-Dinitro-2-methylphenol	...	0.000	198	0		N.D.
75) Azobenzene	...	0.000	77	0		N.D.
76) 1,2-Diphenylhydrazine	...	0.000	182	0		N.D.
77) Diphenylamine	...	0.000	170	0		N.D.
78) N-Nitrosodiphenylamine	...	0.000	168	0		N.D.
79) 4-Bromophenyl phenyl ether	...	0.000	248	0		N.D.
80) Phenacetin	...	0.000	108	0		N.D.
81) Hexachlorobenzene	...	0.000	284	0		N.D.
82) Atrazine	...	0.000	200	0		N.D.
83) 4-Aminobiphenyl	...	0.000	169	0		N.D.
84) Pentachlorophenol	...	0.000	266	0		N.D.
85) Pentachloronitrobenzene	...	0.000	237	0		N.D.
86) Pronamide	...	0.000	173	0		N.D.
87) Phenanthrene	...	0.000	178	0		N.D.
88) Anthracene	...	0.000	178	0		N.D.
89) Carbazole	...	0.000	167	0		N.D.
90) Di-n-butyl phthalate	...	0.000	149	0		N.D.
91) Fluoranthene	...	0.000	202	0		N.D.
93) Pyrene	...	0.000	202	0		N.D.
95) Benzidine	...	0.000	184	0		N.D.
96) p-Dimethylaminoazobenzene	...	0.000	225	0		N.D.
97) Butyl benzyl phthalate	...	0.000	149	0		N.D.
98) Benz(a)anthracene	...	0.000	228	0		N.D.
99) 3,3'-Dichlorobenzidine	...	0.000	252	0		N.D.
100) Chrysene	...	0.000	228	0		N.D.
101) Bis(2-ethylhexyl)phthalate	...	0.000	149	0		N.D.
102) Di-n-octyl phthalate	...	0.000	149	0		N.D.
103) 3-Methylcholanthrene	...	0.000	268	0		N.D.

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030231.D
Acq On : 2 Mar 2022 2:33 pm
Operator : YH
Sample : 2202W70-001B
Misc : SAMP 1311_B
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 02 15:16:49 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

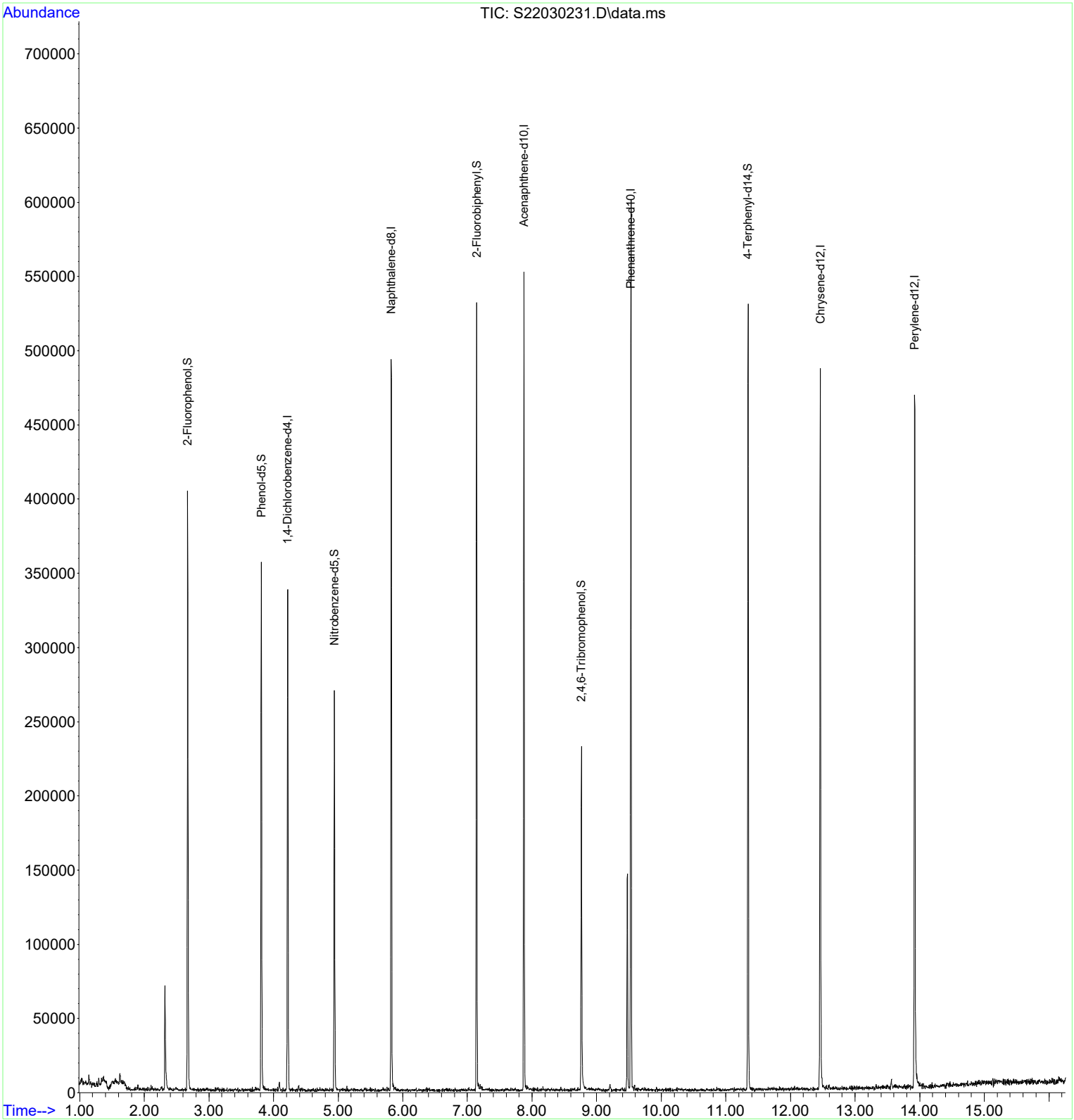
Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
105) Benzo[b]fluoranthene		...	0.000	252	0		N.D.
106) Benzo[k]fluoranthene		...	0.000	252	0		N.D.
107) Benzo[a]pyrene		...	0.000	252	0		N.D.
108) Dibenz(a,j)acridine		...	0.000	279	0		N.D.
109) Indeno[1,2,3-cd]pyrene		...	0.000	276	0		N.D.
110) Dibenz(a,h)anthracene		...	0.000	278	0		N.D.
111) Benzo[g,h,i]perylene		...	0.000	276	0		N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030231.D
Acq On : 2 Mar 2022 2:33 pm
Operator : YH
Sample : 2202W70-001B
Misc : SAMP 1311_B
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 02 15:16:49 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030232.D
Acq On : 2 Mar 2022 2:59 pm
Operator : YH
Sample : 2202W70-001BMS
Misc : MS 1311_B
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 02 15:18:25 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.220	152	52164	40.00	ng		0.00
23) Naphthalene-d8	...	5.824	136	200402	40.00	ng		0.00
45) Acenaphthene-d10	...	7.876	164	100368	40.00	ng		0.00
73) Phenanthrene-d10	...	9.531	188	183866	40.00	ng		0.00
92) Chrysene-d12	...	12.462	240	151859	40.00	ng		0.00
104) Perylene-d12	...	13.924	264	140394	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.670	112	110379	66.96	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 66.96%					
9) Phenol-d5	...	3.811	99	133708	62.96	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 62.96%					
24) Nitrobenzene-d5	...	4.944	82	80434	46.31	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 92.62%					
50) 2-Fluorobiphenyl	...	7.144	172	143767	46.67	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 93.34%					
72) 2,4,6-Tribromophenol	...	8.767	330	20963	69.12	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 69.12%					
94) 4-Terphenyl-d14	...	11.344	244	165116	47.80	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 95.60%					
Target Compounds					Qvalue			
2) Pyridine	...	1.405	79	172880	86.39	ng		97
3) 2-Picoline	...	0.000	93	0	N.D.			
4) Methyl methanesulfonate	...	0.000	80	0	N.D.	d		
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.			
7) Benzaldehyde	...	0.000	105	0	N.D.			
8) Aniline	...	0.000	66	0	N.D.	d		
10) Phenol	...	0.000	94	0	N.D.			
11) Bis(2-chloroethyl)ether	...	0.000	93	0	N.D.			
12) 2-Chlorophenol	...	0.000	128	0	N.D.			
13) 1,3-Dichlorobenzene	...	0.000	146	0	N.D.	d		
14) 1,4-Dichlorobenzene	...	4.243	146	175113	91.62	ng		98
15) 1,2-Dichlorobenzene	...	0.000	146	0	N.D.	d		
16) Benzyl alcohol	...	0.000	108	0	N.D.	d		
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0	N.D.			
18) 2-Methylphenol	...	4.623	107	109396	81.31	ng	#	87
19) 3,4-Methylphenol	...	4.842	107	271811	148.28	ng		98
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.	d		
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D.	d		
22) Hexachloroethane	...	4.864	117	66218	89.61	ng		98
25) Acetophenone	...	0.000	105	0	N.D.	d		
26) Nitrobenzene	...	4.969	123	76615	97.85	ng	#	87
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.			
28) Isophorone	...	0.000	82	0	N.D.			
29) 2-Nitrophenol	...	0.000	139	0	N.D.			
30) 2,4-Dimethylphenol	...	0.000	122	0	N.D.			
31) Bis(2-chloroethoxy)methane	...	0.000	93	0	N.D.			
32) 2,4-Dichlorophenol	...	0.000	162	0	N.D.			
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.			
34) Naphthalene	...	0.000	128	0	N.D.			
35) Benzoic acid	...	0.000	105	0	N.D.			
36) 2,6-Dichlorophenol	...	0.000	162	0	N.D.			
37) 4-Chloroaniline	...	0.000	127	0	N.D.			
38) Hexachlorobutadiene	...	6.048	225	71032	93.42	ng		98
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D.			
40) Caprolactam	...	0.000	113	0	N.D.			

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030232.D
Acq On : 2 Mar 2022 2:59 pm
Operator : YH
Sample : 2202W70-001BMS
Misc : MS 1311_B
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 02 15:18:25 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 4-Chloro-3-methylphenol	...	0.000	107	0	N.D. d	
42) N-Nitrosodi-n-butylamine	...	0.000	84	0	N.D. d	
43) 2-Methylnaphthalene	...	0.000	141	0	N.D.	
44) 1-Methylnaphthalene	...	0.000	141	0	N.D.	
46) 1,2,4,5-Tetrachlorobenzene	...	0.000	216	0	N.D.	
47) Hexachlorocyclopentadiene	...	0.000	237	0	N.D.	
48) 2,4,6-Trichlorophenol	...	7.041	196	59266	79.47 ng	98
49) 2,4,5-Trichlorophenol	...	7.075	196	65173	76.90 ng	98
51) Biphenyl	...	0.000	154	0	N.D.	
52) 2-Chloronaphthalene	...	0.000	162	0	N.D. d	
53) 1-Chloronaphthalene	...	0.000	162	0	N.D. d	
54) 2-Nitroaniline	...	0.000	65	0	N.D.	
55) 3-Nitroaniline	...	0.000	138	0	N.D.	
56) Pentachlorobenzene	...	0.000	250	0	N.D.	
57) 4-Nitroaniline	...	0.000	138	0	N.D.	
58) 2-Naphthylamine	...	0.000	143	0	N.D.	
59) 1-Naphthylamine	...	0.000	143	0	N.D.	
60) Dimethyl phthalate	...	0.000	163	0	N.D.	
61) Acenaphthylene	...	0.000	152	0	N.D. d	
62) 2,6-Dinitrotoluene	...	0.000	165	0	N.D.	
63) Acenaphthene	...	0.000	154	0	N.D.	
64) 2,4-Dinitrophenol	...	0.000	184	0	N.D.	
65) Dibenzofuran	...	0.000	168	0	N.D.	
66) 4-Nitrophenol	...	0.000	109	0	N.D.	
67) 2,4-Dinitrotoluene	...	8.131	165	71519	85.84 ng	88
68) 2,3,4,6-Tetrachlorophenol	...	0.000	232	0	N.D.	
69) Diethyl phthalate	...	0.000	149	0	N.D. d	
70) Fluorene	...	0.000	166	0	N.D.	
71) 4-Chlorophenyl phenyl ether	...	0.000	204	0	N.D.	
74) 4,6-Dinitro-2-methylphenol	...	0.000	198	0	N.D.	
75) Azobenzene	...	0.000	77	0	N.D.	
76) 1,2-Diphenylhydrazine	...	0.000	182	0	N.D.	
77) Diphenylamine	...	0.000	170	0	N.D.	
78) N-Nitrosodiphenylamine	...	0.000	168	0	N.D.	
79) 4-Bromophenyl phenyl ether	...	0.000	248	0	N.D.	
80) Phenacetin	...	0.000	108	0	N.D. d	
81) Hexachlorobenzene	...	9.116	284	77030	94.21 ng	99
82) Atrazine	...	0.000	200	0	N.D. d	
83) 4-Aminobiphenyl	...	0.000	169	0	N.D. d	
84) Pentachlorophenol	...	9.346	266	24639	58.74 ng	96
85) Pentachloronitrobenzene	...	0.000	237	0	N.D. d	
86) Pronamide	...	0.000	173	0	N.D.	
87) Phenanthrene	...	0.000	178	0	N.D.	
88) Anthracene	...	0.000	178	0	N.D.	
89) Carbazole	...	0.000	167	0	N.D. d	
90) Di-n-butyl phthalate	...	0.000	149	0	N.D.	
91) Fluoranthene	...	0.000	202	0	N.D.	
93) Pyrene	...	0.000	202	0	N.D.	
95) Benzidine	...	0.000	184	0	N.D.	
96) p-Dimethylaminoazobenzene	...	0.000	225	0	N.D.	
97) Butyl benzyl phthalate	...	0.000	149	0	N.D.	
98) Benz(a)anthracene	...	0.000	228	0	N.D.	
99) 3,3'-Dichlorobenzidine	...	0.000	252	0	N.D.	
100) Chrysene	...	0.000	228	0	N.D.	
101) Bis(2-ethylhexyl)phthalate	...	0.000	149	0	N.D.	
102) Di-n-octyl phthalate	...	0.000	149	0	N.D.	
103) 3-Methylcholanthrene	...	0.000	268	0	N.D.	

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030232.D
Acq On : 2 Mar 2022 2:59 pm
Operator : YH
Sample : 2202W70-001BMS
Misc : MS 1311_B
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 02 15:18:25 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

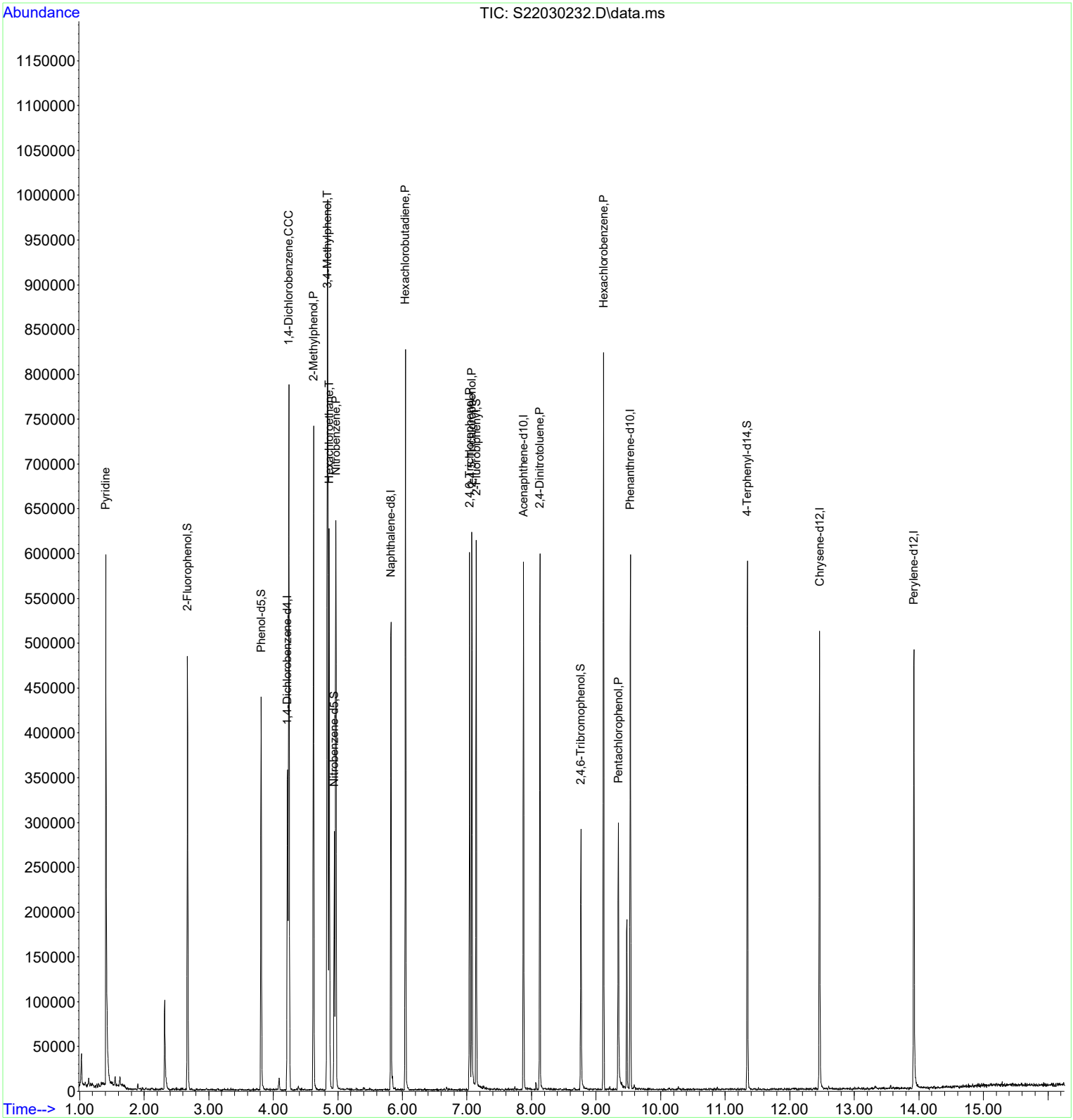
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) Benzo[b]fluoranthene	...	0.000	252	0		N.D.
106) Benzo[k]fluoranthene	...	0.000	252	0		N.D.
107) Benzo[a]pyrene	...	0.000	252	0		N.D.
108) Dibenz(a,j)acridine	...	0.000	279	0		N.D.
109) Indeno[1,2,3-cd]pyrene	...	0.000	276	0		N.D.
110) Dibenz(a,h)anthracene	...	0.000	278	0		N.D.
111) Benzo[g,h,i]perylene	...	0.000	276	0		N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220302\
Data File : S22030232.D
Acq On : 2 Mar 2022 2:59 pm
Operator : YH
Sample : 2202W70-001BMS
Misc : MS 1311_B
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 02 15:18:25 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration



Injection Log

Directory: C:\MS-9\New\Raw Data\S220303

Line	Vial	FileName	Multiplier	SampleName			Misc Info	Injected
1	1	S22030301.D	1.	DFTPP			TUNE DFTPP_4	3 Mar 2022 08:31
2	2	S22030302.D	1.	BNA60			CCV 8270_TCL4.2_W	3 Mar 2022 08:57
3	3	S22030303.D	1.	EX80	989-29		ICV 8270C_W	3 Mar 2022 10:04
4	4	S22030304.D	1.	EX40	989-34		ICAL 8270_TCL4.2_W	3 Mar 2022 10:30
5	2	S22030305.D	1.	BNA60			CCV 8270_TCL4.2_W	3 Mar 2022 16:10
6	25	S22030310.D	1.	2202W74-007C			SAMP 8270_TCL4.2_W	3 Mar 2022 10:57
7	26	S22030311.D	1.	2202W74-008C			SAMP 8270_TCL4.2_W	3 Mar 2022 11:23
8	27	S22030312.D	1.	2202W74-009C			SAMP 8270_TCL4.2_W	3 Mar 2022 11:50
9	28	S22030313.D	1.	2202W74-010C			SAMP 8270_TCL4.2_W	3 Mar 2022 14:02
10	29	S22030314.D	1.	2202W74-012C			SAMP 8270_TCL4.2_W	3 Mar 2022 14:29
11	30	S22030315.D	1.	2202T47-004B		10X	SAMP 8270C_W	3 Mar 2022 12:15
12	31	S22030316.D	1.	2202T73-007B			SAMP 8270_TCL4.2_S	3 Mar 2022 12:42
13	32	S22030317.D	1.	MB-331903			MBLK 8270_TCL4.2_S	3 Mar 2022 13:08
14	33	S22030318.D	1.	LCS-331903			LCS 8270_TCL4.2_S	3 Mar 2022 13:35
15	34	S22030319.D	1.	2203091-004B			SAMP 8270_TCL4.2_S	3 Mar 2022 14:55
16	35	S22030320.D	1.	2203091-004BMS			MS 8270_TCL4.2_S	3 Mar 2022 15:20
17	36	S22030321.D	1.	2203091-004BMSD			MSD 8270_TCL4.2_S	3 Mar 2022 15:45
18	37	S22030322.D	1.	2202T48-006B			SAMP 1311_B	3 Mar 2022 16:35
19	38	S22030323.D	1.	2202V46-001B			SAMP1311_B	3 Mar 2022 17:01
20	39	S22030324.D	1.	2202V22-001B			SAMP1311_B	3 Mar 2022 17:26
21	40	S22030325.D	1.	2202U66-001B			SAMP1311_B	3 Mar 2022 17:52
22	41	S22030326.D	1.	2202U65-001B			SAMP1311_B	3 Mar 2022 18:17
23	42	S22030327.D	1.	2202U60-001B			SAMP1311_B	3 Mar 2022 18:42
24	43	S22030328.D	1.	2203091-001B			SAMP 8270_TCL4.2_S	3 Mar 2022 19:08
25	44	S22030329.D	1.	2203091-002B			SAMP 8270_TCL4.2_S	3 Mar 2022 19:35
26	45	S22030330.D	1.	2203091-003B			SAMP 8270_TCL4.2_S	3 Mar 2022 20:01
27	46	S22030331.D	1.	2203091-005B			SAMP 8270_TCL4.2_S	3 Mar 2022 20:27
28	47	S22030332.D	1.	2203091-006B			SAMP 8270_TCL4.2_S	3 Mar 2022 20:53
29	48	S22030333.D	1.	2201K81-001B			SAMP 8270C_S	3 Mar 2022 21:19
30	49	S22030334.D	1.	2201K81-006B			SAMP 8270C_S	3 Mar 2022 21:46
31	50	S22030335.D	1.	2201K81-011B			SAMP 8270C_S	3 Mar 2022 22:12

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S220303\
Data File : S22030302.D
Acq On : 3 Mar 2022 8:57 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 08 10:48:46 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	121	0.00
2		Pyridine	60.000	60.184	-0.3	117	0.00
3	T	2-Picoline	60.000	61.568	-2.6	119	0.00
4	T	Methyl methanesulfonate	60.000	61.056	-1.8	122	0.00
5	S	2-Fluorophenol	60.000	59.350	1.1	116	0.00
6	T	Ethyl methanesulfonate	60.000	60.547	-0.9	123	0.00
7	P	Benzaldehyde	60.000	58.324	2.8	113	0.00
8	T	Aniline	60.000	60.434	-0.7	118	0.00
9	S	Phenol-d5	60.000	61.043	-1.7	121	0.00
10	P	Phenol	60.000	61.932	-3.2	122	0.00
11	P	Bis(2-chloroethyl)ether	60.000	59.629	0.6	121	0.00
12	P	2-Chlorophenol	60.000	60.231	-0.4	118	0.00
13	T	1,3-Dichlorobenzene	60.000	60.805	-1.3	122	0.00
14	CCC	1,4-Dichlorobenzene	60.000	60.353	-0.6	120	0.00
15	T	1,2-Dichlorobenzene	60.000	61.253	-2.1	121	0.00
16	T	Benzyl alcohol	60.000	58.335	2.8	115	0.00
17	T	Bis(2-chloroisopropyl)ether	60.000	60.009	-0.0	117	0.00
18	P	2-Methylphenol	60.000	60.811	-1.4	119	0.00
19	T	3,4-Methylphenol	120.000	118.231	1.5	120	0.00
20	PC	N-Nitrosodi-n-propylamine	60.000	61.712	-2.9	122	0.00
21	T	N-Nitrosodimethylamine	60.000	61.207	-2.0	122	0.00
22	T	Hexachloroethane	60.000	59.901	0.2	118	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	122	0.00
24	S	Nitrobenzene-d5	60.000	60.500	-0.8	123	0.00
25	P	Acetophenone	120.000	118.783	1.0	121	0.00
26	P	Nitrobenzene	60.000	60.465	-0.8	120	0.00
27	T	N-Nitrosopiperidine	60.000	60.539	-0.9	120	0.00
28	P	Isophorone	60.000	60.794	-1.3	121	0.00
29	P	2-Nitrophenol	60.000	64.027	-6.7	124	0.00
30	P	2,4-Dimethylphenol	60.000	59.826	0.3	119	0.00
31	P	Bis(2-chloroethoxy)methane	60.000	61.009	-1.7	122	0.00
32	P	2,4-Dichlorophenol	60.000	61.923	-3.2	121	0.00
33	T	1,2,4-Trichlorobenzene	60.000	60.941	-1.6	122	0.00
34	P	Naphthalene	60.000	59.745	0.4	119	0.00
35	T	Benzoic acid	60.000	31.252	47.9#	40	-0.01
36	T	2,6-Dichlorophenol	60.000	60.404	-0.7	120	0.00
37	P	4-Chloroaniline	60.000	60.212	-0.4	120	0.00
38	P	Hexachlorobutadiene	60.000	60.056	-0.1	119	0.00
39	T	a,a-Dimethylphenethylamine	60.000	59.845	0.3	117	0.07
40	P	Caprolactam	60.000	63.203	-5.3	127	0.03
41	P	4-Chloro-3-methylphenol	60.000	60.996	-1.7	120	0.00
42	T	N-Nitrosodi-n-butylamine	60.000	71.975	-20.0	157	0.00
43	P	2-Methylnaphthalene	60.000	59.917	0.1	121	0.00
44	T	1-Methylnaphthalene	60.000	61.491	-2.5	121	0.00
45	I	Acenaphthene-d10	40.000	40.000	0.0	121	0.00
46	T	1,2,4,5-Tetrachlorobenzene	60.000	59.245	1.3	117	0.00
47	P	Hexachlorocyclopentadiene	60.000	60.474	-0.8	119	0.00
48	P	2,4,6-Trichlorophenol	60.000	60.682	-1.1	115	0.00
49	P	2,4,5-Trichlorophenol	60.000	62.282	-3.8	121	0.00
50	S	2-Fluorobiphenyl	60.000	60.481	-0.8	121	0.00
51		Biphenyl	60.000	60.707	-1.2	122	0.00

Data Path : C:\MS-9\New\Raw Data\S220303\
Data File : S22030302.D
Acq On : 3 Mar 2022 8:57 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 08 10:48:46 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	P	2-Chloronaphthalene	60.000	59.977	0.0	122	0.00
53	T	1-Chloronaphthalene	60.000	61.743	-2.9	123	0.00
54	P	2-Nitroaniline	60.000	62.484	-4.1	122	0.00
55	P	3-Nitroaniline	60.000	62.483	-4.1	122	0.00
56	T	Pentachlorobenzene	60.000	62.126	-3.5	124	0.00
57	T	4-Nitroaniline	60.000	61.851	-3.1	122	0.00
58	T	2-Naphthylamine	60.000	61.152	-1.9	120	0.00
59	T	1-Naphthylamine	60.000	61.016	-1.7	120	0.00
60	P	Dimethyl phthalate	60.000	60.678	-1.1	122	0.00
61	P	Acenaphthylene	60.000	61.372	-2.3	121	0.00
62	P	2,6-Dinitrotoluene	60.000	61.643	-2.7	121	0.00
63	P	Acenaphthene	60.000	61.279	-2.1	121	0.00
64	P	2,4-Dinitrophenol	60.000	50.690	15.5	109	0.00
65	P	Dibenzofuran	60.000	61.046	-1.7	123	0.00
66	P	4-Nitrophenol	60.000	63.807	-6.3	114	0.01
67	P	2,4-Dinitrotoluene	60.000	64.104	-6.8	124	0.00
68	T	2,3,4,6-Tetrachlorophenol	60.000	62.014	-3.4	122	0.00
69	P	Diethyl phthalate	60.000	61.900	-3.2	121	0.00
70	P	Fluorene	60.000	62.188	-3.6	122	0.00
71	P	4-Chlorophenyl phenyl ether	60.000	61.307	-2.2	121	0.00
72	S	2,4,6-Tribromophenol	60.000	59.926	0.1	120	0.00
73	I	Phenanthrene-d10	40.000	40.000	0.0	120	0.00
74	P	4,6-Dinitro-2-methylphenol	60.000	52.371	12.7	105	0.00
75	T	Azobenzene	60.000	61.001	-1.7	121	0.00
76	T	1,2-Diphenylhydrazine	60.000	60.331	-0.6	118	0.00
77	CCC	Diphenylamine	60.000	62.307	-3.8	121	0.00
78	P	N-Nitrosodiphenylamine	60.000	60.810	-1.4	122	0.00
79	P	4-Bromophenyl phenyl ether	60.000	61.403	-2.3	126	0.00
80	T	Phenacetin	60.000	63.558	-5.9	122	0.00
81	P	Hexachlorobenzene	60.000	59.821	0.3	120	0.00
82	P	Atrazine	60.000	61.488	-2.5	119	0.00
83	T	4-Aminobiphenyl	60.000	61.296	-2.2	122	0.00
84	P	Pentachlorophenol	60.000	54.926	8.5	119	0.00
85	T	Pentachloronitrobenzene	60.000	63.842	-6.4	123	0.00
86	T	Pronamide	60.000	61.812	-3.0	123	0.00
87	P	Phenanthrene	60.000	61.101	-1.8	122	0.00
88	P	Anthracene	60.000	61.365	-2.3	122	0.00
89	P	Carbazole	60.000	61.352	-2.3	123	0.00
90	P	Di-n-butyl phthalate	60.000	62.220	-3.7	124	0.00
91	P	Fluoranthene	60.000	62.146	-3.6	126	0.00
92	I	Chrysene-d12	40.000	40.000	0.0	120	0.00
93	P	Pyrene	60.000	61.787	-3.0	122	0.00
94	S	4-Terphenyl-d14	60.000	62.655	-4.4	124	0.00
95	T	Benzidine	60.000	62.266	-3.8	121	0.00
96	T	p-Dimethylaminoazobenzene	60.000	63.179	-5.3	117	0.00
97	P	Butyl benzyl phthalate	60.000	64.547	-7.6	126	0.00
98	P	Benz(a)anthracene	60.000	61.443	-2.4	121	0.00
99	P	3,3'-Dichlorobenzidine	60.000	60.805	-1.3	117	0.00
100	P	Chrysene	60.000	60.528	-0.9	120	0.00
101	P	Bis(2-ethylhexyl)phthalate	60.000	66.785	-11.3	124	0.00
102	P	Di-n-octyl phthalate	60.000	67.586	-12.6	127	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S220303\
Data File : S22030302.D
Acq On : 3 Mar 2022 8:57 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 08 10:48:46 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	60.000	60.094	-0.2	121	0.00
104	I	Perylene-d12	40.000	40.000	0.0	121	0.00
105	P	Benzo[b]fluoranthene	60.000	61.999	-3.3	124	0.00
106	P	Benzo[k]fluoranthene	60.000	59.370	1.1	117	0.00
107	P	Benzo[a]pyrene	60.000	60.658	-1.1	122	0.00
108	T	Dibenz(a,j)acridine	60.000	64.193	-7.0	127	0.00
109		Indeno[1,2,3-cd]pyrene	60.000	60.910	-1.5	122	0.01
110	P	Dibenz(a,h)anthracene	60.000	60.305	-0.5	118	0.00
111	P	Benzo[g,h,i]perylene	60.000	60.573	-1.0	119	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S220303\
Data File : S22030302.D
Acq On : 3 Mar 2022 8:57 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 08 10:48:46 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	121	0.00
2		Pyridine	1.535	1.539	-0.3	117	0.00
3	T	2-Picoline	1.554	1.594	-2.6	119	0.00
4	T	Methyl methanesulfonate	0.774	0.787	-1.7	122	0.00
5	S	2-Fluorophenol	1.264	1.250	1.1	116	0.00
6	T	Ethyl methanesulfonate	1.084	1.094	-0.9	123	0.00
7	P	Benzaldehyde	1.014	0.986	2.8	113	0.00
8	T	Aniline	0.902	0.908	-0.7	118	0.00
9	S	Phenol-d5	1.628	1.657	-1.8	121	0.00
10	P	Phenol	1.712	1.767	-3.2	122	0.00
11	P	Bis(2-chloroethyl)ether	1.352	1.344	0.6	121	0.00
12	P	2-Chlorophenol	1.310	1.315	-0.4	118	0.00
13	T	1,3-Dichlorobenzene	1.469	1.489	-1.4	122	0.00
14	CCC	1,4-Dichlorobenzene	1.466	1.474	-0.5	120	0.00
15	T	1,2-Dichlorobenzene	1.387	1.416	-2.1	121	0.00
16	T	Benzyl alcohol	0.863	0.839	2.8	115	0.00
17	T	Bis(2-chloroisopropyl)ether	2.000	2.000	0.0	117	0.00
18	P	2-Methylphenol	1.032	1.046	-1.4	119	0.00
19	T	3,4-Methylphenol	1.406	1.385	1.5	120	0.00
20	PC	N-Nitrosodi-n-propylamine	0.963	0.991	-2.9	122	0.00
21	T	N-Nitrosodimethylamine	0.781	0.797	-2.0	122	0.00
22	T	Hexachloroethane	0.567	0.566	0.2	118	0.00
23	I	Naphthalene-d8	1.000	1.000	0.0	122	0.00
24	S	Nitrobenzene-d5	0.347	0.350	-0.9	123	0.00
25	P	Acetophenone	0.458	0.454	0.9	121	0.00
26	P	Nitrobenzene	0.156	0.157	-0.6	120	0.00
27	T	N-Nitrosopiperidine	0.159	0.161	-1.3	120	0.00
28	P	Isophorone	0.655	0.663	-1.2	121	0.00
29	P	2-Nitrophenol	0.140	0.150	-7.1	124	0.00
30	P	2,4-Dimethylphenol	0.281	0.280	0.4	119	0.00
31	P	Bis(2-chloroethoxy)methane	0.398	0.405	-1.8	122	0.00
32	P	2,4-Dichlorophenol	0.245	0.253	-3.3	121	0.00
33	T	1,2,4-Trichlorobenzene	0.290	0.295	-1.7	122	0.00
34	P	Naphthalene	0.964	0.960	0.4	119	0.00
35	T	Benzoic acid	0.142	0.045	68.3#	40#	-0.01
36	T	2,6-Dichlorophenol	0.239	0.241	-0.8	120	0.00
37	P	4-Chloroaniline	0.396	0.397	-0.3	120	0.00
38	P	Hexachlorobutadiene	0.152	0.152	0.0	119	0.00
39	T	a,a-Dimethylphenethylamine	0.975	0.972	0.3	117	0.07
40	P	Caprolactam	0.102	0.107	-4.9	127	0.03
41	P	4-Chloro-3-methylphenol	0.269	0.273	-1.5	120	0.00
42	T	N-Nitrosodi-n-butylamine	0.251	0.301	-19.9	157#	0.00
43	P	2-Methylnaphthalene	0.554	0.553	0.2	121	0.00
44	T	1-Methylnaphthalene	0.543	0.557	-2.6	121	0.00
45	I	Acenaphthene-d10	1.000	1.000	0.0	121	0.00
46	T	1,2,4,5-Tetrachlorobenzene	0.513	0.507	1.2	117	0.00
47	P	Hexachlorocyclopentadiene	0.281	0.284	-1.1	119	0.00
48	P	2,4,6-Trichlorophenol	0.297	0.301	-1.3	115	0.00
49	P	2,4,5-Trichlorophenol	0.338	0.351	-3.8	121	0.00
50	S	2-Fluorobiphenyl	1.228	1.237	-0.7	121	0.00
51		Biphenyl	1.418	1.435	-1.2	122	0.00

Data Path : C:\MS-9\New\Raw Data\S220303\
Data File : S22030302.D
Acq On : 3 Mar 2022 8:57 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 08 10:48:46 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	P	2-Chloronaphthalene	1.094	1.094	0.0	122	0.00
53	T	1-Chloronaphthalene	0.973	1.001	-2.9	123	0.00
54	P	2-Nitroaniline	0.362	0.377	-4.1	122	0.00
55	P	3-Nitroaniline	0.321	0.334	-4.0	122	0.00
56	T	Pentachlorobenzene	0.436	0.452	-3.7	124	0.00
57	T	4-Nitroaniline	0.329	0.339	-3.0	122	0.00
58	T	2-Naphthylamine	1.162	1.185	-2.0	120	0.00
59	T	1-Naphthylamine	1.199	1.220	-1.8	120	0.00
60	P	Dimethyl phthalate	1.200	1.213	-1.1	122	0.00
61	P	Acenaphthylene	1.648	1.685	-2.2	121	0.00
62	P	2,6-Dinitrotoluene	0.252	0.259	-2.8	121	0.00
63	P	Acenaphthene	1.016	1.038	-2.2	121	0.00
64	P	2,4-Dinitrophenol	0.072	0.059	18.1	109	0.00
65	P	Dibenzofuran	1.500	1.526	-1.7	123	0.00
66	P	4-Nitrophenol	0.160	0.170	-6.3	114	0.01
67	P	2,4-Dinitrotoluene	0.332	0.355	-6.9	124	0.00
68	T	2,3,4,6-Tetrachlorophenol	0.212	0.219	-3.3	122	0.00
69	P	Diethyl phthalate	1.235	1.274	-3.2	121	0.00
70	P	Fluorene	1.248	1.294	-3.7	122	0.00
71	P	4-Chlorophenyl phenyl ether	0.562	0.575	-2.3	121	0.00
72	S	2,4,6-Tribromophenol	0.116	0.119	-2.6	120	0.00
73	I	Phenanthrene-d10	1.000	1.000	0.0	120	0.00
74	P	4,6-Dinitro-2-methylphenol	0.065	0.056	13.8	105	0.00
75	T	Azobenzene	0.680	0.692	-1.8	121	0.00
76	T	1,2-Diphenylhydrazine	0.159	0.160	-0.6	118	0.00
77	CCC	Diphenylamine	0.106	0.110	-3.8	121	0.00
78	P	N-Nitrosodiphenylamine	0.535	0.542	-1.3	122	0.00
79	P	4-Bromophenyl phenyl ether	0.187	0.191	-2.1	126	0.00
80	T	Phenacetin	0.348	0.368	-5.7	122	0.00
81	P	Hexachlorobenzene	0.178	0.177	0.6	120	0.00
82	P	Atrazine	0.182	0.186	-2.2	119	0.00
83	T	4-Aminobiphenyl	0.726	0.742	-2.2	122	0.00
84	P	Pentachlorophenol	0.083	0.082	1.2	119	0.00
85	T	Pentachloronitrobenzene	0.074	0.079	-6.8	123	0.00
86	T	Pronamide	0.212	0.218	-2.8	123	0.00
87	P	Phenanthrene	1.034	1.053	-1.8	122	0.00
88	P	Anthracene	1.036	1.059	-2.2	122	0.00
89	P	Carbazole	0.931	0.952	-2.3	123	0.00
90	P	Di-n-butyl phthalate	1.191	1.235	-3.7	124	0.00
91	P	Fluoranthene	1.090	1.129	-3.6	126	0.00
92	I	Chrysene-d12	1.000	1.000	0.0	120	0.00
93	P	Pyrene	1.258	1.296	-3.0	122	0.00
94	S	4-Terphenyl-d14	0.910	0.950	-4.4	124	0.00
95	T	Benzidine	0.650	0.674	-3.7	121	0.00
96	T	p-Dimethylaminoazobenzene	0.242	0.255	-5.4	117	0.00
97	P	Butyl benzyl phthalate	0.571	0.614	-7.5	126	0.00
98	P	Benz(a)anthracene	1.132	1.159	-2.4	121	0.00
99	P	3,3'-Dichlorobenzidine	0.400	0.406	-1.5	117	0.00
100	P	Chrysene	1.105	1.115	-0.9	120	0.00
101	P	Bis(2-ethylhexyl)phthalate	0.744	0.828	-11.3	124	0.00
102	P	Di-n-octyl phthalate	1.244	1.401	-12.6	127	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S220303\
Data File : S22030302.D
Acq On : 3 Mar 2022 8:57 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 08 10:48:46 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	0.358	0.382	-6.7	121	0.00
104	I	Perylene-d12	1.000	1.000	0.0	121	0.00
105	P	Benzo[b]fluoranthene	1.127	1.164	-3.3	124	0.00
106	P	Benzo[k]fluoranthene	1.078	1.066	1.1	117	0.00
107	P	Benzo[a]pyrene	0.969	0.979	-1.0	122	0.00
108	T	Dibenz(a,j)acridine	0.756	0.809	-7.0	127	0.00
109		Indeno[1,2,3-cd]pyrene	1.189	1.207	-1.5	122	0.01
110	P	Dibenz(a,h)anthracene	0.960	0.965	-0.5	118	0.00
111	P	Benzo[g,h,i]perylene	0.987	0.996	-0.9	119	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

GC/MS QA-QC Check Report

Tune File : C:\MS-9\New\Raw Data\S220303\S22030302.D
Tune Time : 3 Mar 2022 8:57 am

Daily Calibration File : C:\MS-9\New\Raw Data\S220303\S22030302.D

(2FP)	(PHL)	(NBZ)	(FBP)	(DCB)	(NPT)	(ANT)
				65274	263174	137543

(TPH)	(PHN)	(CRY)	(PRY)
	254988	219681	211357

File	Sample	Surrogate Recovery %				Internal Standard Responses		
S22030310.D								
	2202W74-00	76	78	79	83	46037	189034	94492
		69	87			171422	145838	136949
S22030311.D								
	2202W74-00	73	78	76	81	53427	218301	109099
		76	86			199750	167215	167061
S22030312.D								
	2202W74-00	72	77	83	85	53952	212510	109608
		85	98			200482	163151	157001
S22030313.D								
	2202W74-01	74	77	81	82	67656	269168	135752
		82	89			244107	199325	187702
S22030314.D								
	2202W74-01	58	61	63	64	45598	187228	95180
		67	74			169968	137914	131825
S22030315.D								
	2202T47-00	7*	5*	11*	10*	59913	235430	128247
		15	11*			236522	187337	175089
S22030316.D								
	2202T73-00	73	74	75	79	54431	220736	110978
		81	87			201215	161808	153516
S22030317.D								
	MB-331903	85	86	88	88	55327	221418	113647
		89	100			205472	165336	152835
S22030318.D								
	LCS-331903	92	96	101	99	50039	196139	105531
		101	115			190951	152792	138646
S22030319.D								
	2203091-00	69	73	72	74	55819	229784	116939
		78	90			210226	168078	151747
S22030320.D								
	2203091-00	69	73	72	74	50658	206813	106043
		77	87			193813	152354	140491
S22030321.D								
	2203091-00	64	67	69	69	51136	205519	106601
		71	80			188388	153929	139756
S22030322.D								
	2202T48-00	85	83	88	84	64897	261780	129889
		98	109			237053	188629	172554
S22030323.D								
	2202V46-00	91	88	95	86	57739	233735	118757
		100	111			213252	171364	155985

S22030324.D								
	2202V22-00	88	90	95	75	56560	229602	118363
		103	105			218800	173161	161980
S22030325.D								
	2202U66-00	69	70	70	60	76625	318790	172723
		55	73			880827*	282089	254428
S22030326.D								
	2202U65-00	80	83	93	82	60766	241979	126443
		39	108			230509	188946	174044
S22030327.D								
	2202U60-00	62	63	64	60	56331	222561	115396
		72	70			206686	177394	172723
S22030328.D								
	2203091-00	66	68	72	72	53589	217788	111132
		76	83			198854	164893	151625
S22030329.D								
	2203091-00	75	77	84	83	48657	193907	98996
		86	97			183270	151022	139032
S22030330.D								
	2203091-00	83	85	89	91	51259	205149	103289
		93	103			189560	155857	144106
S22030331.D								
	2203091-00	81	83	86	85	52592	214361	111136
		91	93			203388	169604	158218
S22030332.D								
	2203091-00	80	80	85	82	52176	209670	109673
		84	92			198899	162701	147541
S22030333.D								
(fails)	2201K81-00	77	82	83	84	53672	216869	111601
		87	95			201484	168614	153779
S22030334.D								
(fails)	2201K81-00	75	82	85	87	56529	226390	115936
		91	92			214296	183671	166852
S22030335.D								
(fails)	2201K81-01	95	103	103	102	50256	203399	108028
		103	113			195261	163393	150536

(fails) - fails 12hr time check * - fails criteria

Created: Tue Mar 08 10:51:17 2022 MS-9

Quantitation Report (Not Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220303\
Data File : S22030302.D
Acq On : 3 Mar 2022 8:57 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 03 10:49:49 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.217	152	65274	40.00	ng		0.00
23) Naphthalene-d8	...	5.824	136	263174	40.00	ng		0.00
45) Acenaphthene-d10	...	7.876	164	137543	40.00	ng		0.00
73) Phenanthrene-d10	...	9.533	188	254988	40.00	ng		0.00
92) Chrysene-d12	...	12.465	240	219681	40.00	ng		0.00
104) Perylene-d12	...	13.924	264	211357	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.668	112	122415	59.35	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 59.35%					
9) Phenol-d5	...	3.812	99	162205	61.04	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 61.04%					
24) Nitrobenzene-d5	...	4.944	82	137993	60.50	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 121.00%#					
50) 2-Fluorobiphenyl	...	7.144	172	255293	60.48	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 120.96%#					
72) 2,4,6-Tribromophenol	...	8.767	330	24633	59.93	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 59.93%					
94) 4-Terphenyl-d14	...	11.344	244	313106	62.65	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 125.30%					
Target Compounds								Qvalue
2) Pyridine	...	1.399	79	150707	60.18	ng		97
3) 2-Picoline	...	2.040	93	156102	61.57	ng		99
4) Methyl methanesulfonate	...	2.480	80	77076	61.06	ng		97
6) Ethyl methanesulfonate	...	3.278	79	107073	60.55	ng		95
7) Benzaldehyde	...	3.641	105	96542	58.32	ng		95
8) Aniline	...	3.795	66	88918	60.43	ng	#	88
10) Phenol	...	3.829	94	173052	61.93	ng		99
11) Bis(2-chloroethyl)ether	...	3.911	93	131606	59.63	ng		93
12) 2-Chlorophenol	...	3.942	128	128762	60.23	ng		93
13) 1,3-Dichlorobenzene	...	4.141	146	145746	60.81	ng		98
14) 1,4-Dichlorobenzene	...	4.240	146	144339	60.35	ng		97
15) 1,2-Dichlorobenzene	...	4.433	146	138653	61.25	ng		99
16) Benzyl alcohol	...	4.439	108	82126	58.34	ng	#	77
17) Bis(2-chloroisopropyl)ether	...	4.640	45	195852	60.01	ng		89
18) 2-Methylphenol	...	4.629	107	102372	60.81	ng		95
19) 3,4-Methylphenol	...	4.842	107	271202	118.23	ng		97
20) N-Nitrosodi-n-propylamine	...	4.802	70	97012	61.71	ng		96
21) N-Nitrosodimethylamine	...	1.382	42	77993	61.21	ng		86
22) Hexachloroethane	...	4.862	117	55389	59.90	ng		99
25) Acetophenone	...	4.768	105	358101	118.78	ng		97
26) Nitrobenzene	...	4.967	123	62170	60.47	ng	#	82
27) N-Nitrosopiperidine	...	5.154	114	63512	60.54	ng	#	86
28) Isophorone	...	5.285	82	261845	60.79	ng		98
29) 2-Nitrophenol	...	5.373	139	59120	64.03	ng		93
30) 2,4-Dimethylphenol	...	5.497	122	110487	59.83	ng		99
31) Bis(2-chloroethoxy)methane	...	5.605	93	159859	61.01	ng		99
32) 2,4-Dichlorophenol	...	5.685	162	99794	61.92	ng		97
33) 1,2,4-Trichlorobenzene	...	5.773	180	116381	60.94	ng		99
34) Naphthalene	...	5.847	128	378817	59.75	ng		99
35) Benzoic acid	...	5.622	105	11903	27.03	ng		97
36) 2,6-Dichlorophenol	...	5.960	162	94976	60.40	ng		98
37) 4-Chloroaniline	...	5.954	127	156706	60.21	ng		97
38) Hexachlorobutadiene	...	6.045	225	59967	60.06	ng		99
39) a,a-Dimethylphenethylamine	...	5.747	58	99629	15.54	ng		79
40) Caprolactam	...	6.383	113	42308	63.20	ng	#	64

Data Path : C:\MS-9\New\Raw Data\S220303\
Data File : S22030302.D
Acq On : 3 Mar 2022 8:57 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 03 10:49:49 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.593	107	107958	61.00	ng		96
42) N-Nitrosodi-n-butylamine	6.403	84	118852	71.98	ng		87
43) 2-Methylnaphthalene	6.687	141	218493	59.92	ng		99
44) 1-Methylnaphthalene	6.797	141	219832	61.49	ng		98
46) 1,2,4,5-Tetrachlorobenzene	6.891	216	104571	59.24	ng		98
47) Hexachlorocyclopentadiene	6.897	237	58491	60.47	ng		98
48) 2,4,6-Trichlorophenol	7.044	196	62019	60.68	ng		96
49) 2,4,5-Trichlorophenol	7.081	196	72339	62.28	ng		97
51) Biphenyl	7.246	154	296100	60.71	ng		98
52) 2-Chloronaphthalene	7.243	162	225693	59.98	ng		98
53) 1-Chloronaphthalene	7.266	162	206612	61.74	ng		97
54) 2-Nitroaniline	7.391	65	77689	62.48	ng		92
55) 3-Nitroaniline	7.865	138	69003	62.48	ng		92
56) Pentachlorobenzene	8.072	250	93153	62.13	ng		96
57) 4-Nitroaniline	8.554	138	69929	61.85	ng		90
58) 2-Naphthylamine	8.202	143	244404	61.15	ng		98
59) 1-Naphthylamine	8.296	143	251642	61.02	ng		99
60) Dimethyl phthalate	7.640	163	250315	60.68	ng		99
61) Acenaphthylene	7.708	152	347738	61.37	ng		100
62) 2,6-Dinitrotoluene	7.683	165	53377	61.64	ng	#	78
63) Acenaphthene	7.913	154	214135	61.28	ng		99
64) 2,4-Dinitrophenol	7.981	184	12095	50.69	ng		78
65) Dibenzofuran	8.111	168	314906	61.05	ng		70
66) 4-Nitrophenol	8.109	109	35058	63.81	ng	#	1
67) 2,4-Dinitrotoluene	8.134	165	73191	64.10	ng		89
68) 2,3,4,6-Tetrachlorophenol	8.276	232	45135	62.01	ng		97
69) Diethyl phthalate	8.449	149	262930	61.90	ng		99
70) Fluorene	8.497	166	266916	62.19	ng		98
71) 4-Chlorophenyl phenyl ether	8.529	204	118550	61.31	ng		99
74) 4,6-Dinitro-2-methylphenol	8.585	198	21249	52.37	ng		84
75) Azobenzene	8.702	77	264543	61.00	ng		94
76) 1,2-Diphenylhydrazine	8.702	182	61324	60.33	ng	#	84
77) Diphenylamine	8.668	170	42151	62.31	ng		99
78) N-Nitrosodiphenylamine	8.671	168	207282	60.81	ng		98
79) 4-Bromophenyl phenyl ether	9.068	248	73116	61.40	ng		99
80) Phenacetin	9.054	108	140826	63.56	ng		99
81) Hexachlorobenzene	9.116	284	67832	59.82	ng		98
82) Atrazine	9.306	200	71198	61.49	ng		96
83) 4-Aminobiphenyl	9.360	169	283680	61.30	ng		99
84) Pentachlorophenol	9.352	266	31534	54.93	ng		96
85) Pentachloronitrobenzene	9.366	237	30298	63.84	ng		94
86) Pronamide	9.477	173	83397	61.81	ng		93
87) Phenanthrene	9.559	178	402576	61.10	ng		99
88) Anthracene	9.616	178	405187	61.37	ng		99
89) Carbazole	9.814	167	364179	61.35	ng		97
90) Di-n-butyl phthalate	10.283	149	472233	62.22	ng		99
91) Fluoranthene	10.876	202	432013	62.15	ng		100
93) Pyrene	11.120	202	426972	61.79	ng		100
95) Benzidine	11.063	184	222245	62.27	ng		99
96) p-Dimethylaminoazobenzene	11.509	225	83946	63.18	ng	#	89
97) Butyl benzyl phthalate	11.929	149	202295	64.55	ng		93
98) Benz(a)anthracene	12.454	228	381958	61.44	ng		99
99) 3,3'-Dichlorobenzidine	12.463	252	133723	60.80	ng		99
100) Chrysene	12.494	228	367257	60.53	ng		99
101) Bis(2-ethylhexyl)phthalate	12.602	149	272863	66.78	ng		95
102) Di-n-octyl phthalate	13.283	149	461662	67.59	ng		97
103) 3-Methylcholanthrene	14.202	268	125764	60.09	ng		94

Data Path : C:\MS-9\New\Raw Data\S220303\
Data File : S22030302.D
Acq On : 3 Mar 2022 8:57 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 03 10:49:49 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

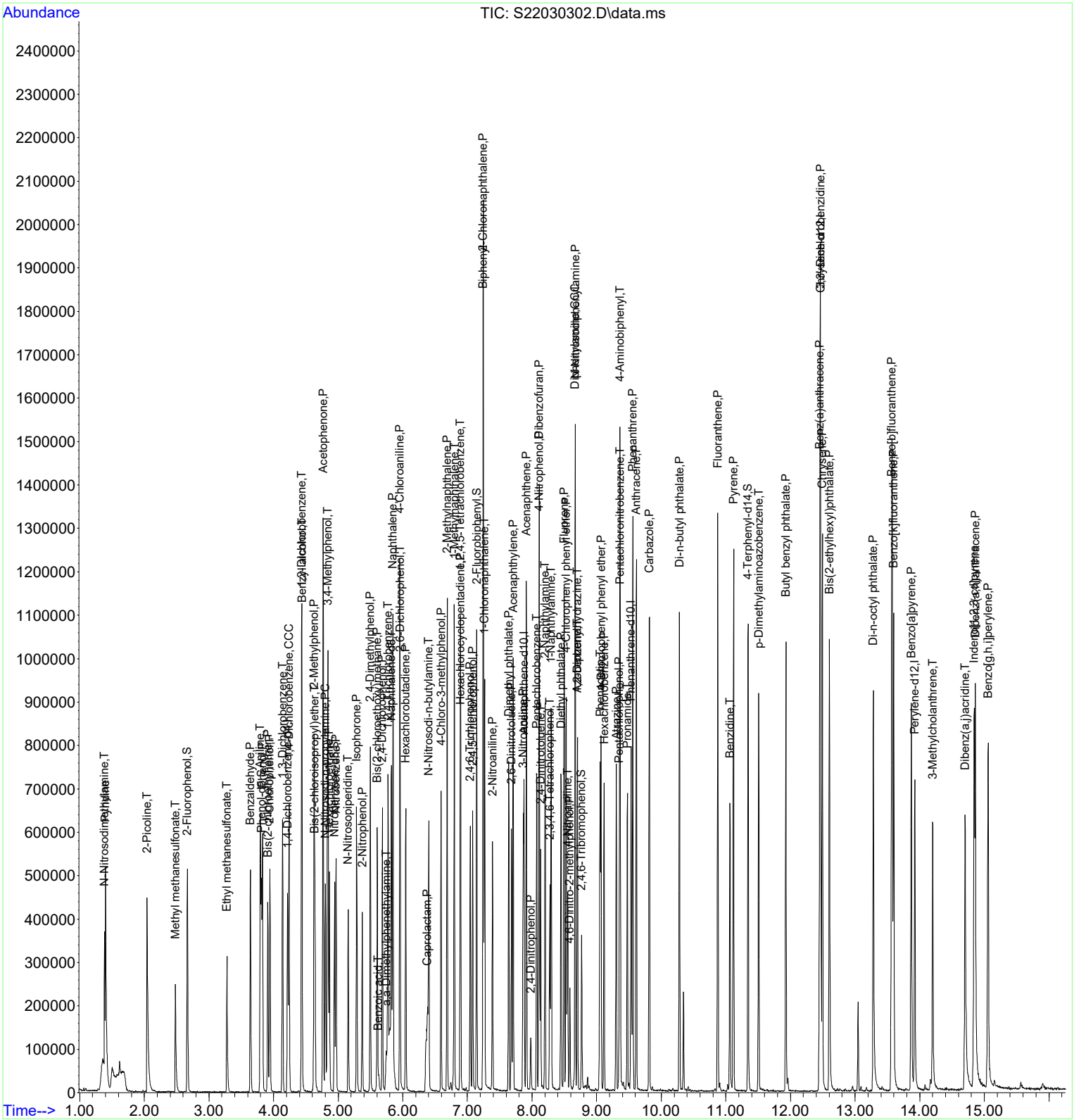
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene ...	13.567	252	369077	62.00	ng		98
106) Benzo[k]fluoranthene ...	13.598	252	338051	59.37	ng		98
107) Benzo[a]pyrene ...	13.870	252	310467	60.66	ng		97
108) Dibenz(a,j)acridine ...	14.702	279	256510	64.19	ng		100
109) Indeno[1,2,3-cd]pyrene ...	14.844	276	382646	60.91	ng	#	91
110) Dibenz(a,h)anthracene ...	14.861	278	305874	60.30	ng		98
111) Benzo[g,h,i]perylene ...	15.060	276	315771	60.57	ng		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220303\
Data File : S22030302.D
Acq On : 3 Mar 2022 8:57 am
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 03 10:49:49 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220303\
Data File : S22030323.D
Acq On : 3 Mar 2022 5:01 pm
Operator : YH
Sample : 2202V46-001B
Misc : SAMP 1311_B
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Mar 04 10:16:55 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.220	152	57739	40.00	ng		0.00
23) Naphthalene-d8	...	5.824	136	233735	40.00	ng		0.00
45) Acenaphthene-d10	...	7.879	164	118757	40.00	ng		0.00
73) Phenanthrene-d10	...	9.533	188	213252	40.00	ng		0.00
92) Chrysene-d12	...	12.465	240	171364	40.00	ng		0.00
104) Perylene-d12	...	13.924	264	155985	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.671	112	165166	90.53	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 90.53%					
9) Phenol-d5	...	3.814	99	206794	87.98	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 87.98%					
24) Nitrobenzene-d5	...	4.944	82	95910	47.35	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 94.70%					
50) 2-Fluorobiphenyl	...	7.144	172	156663	42.99	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 85.98%					
72) 2,4,6-Tribromophenol	...	8.767	330	36761	100.22	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 100.22%					
94) 4-Terphenyl-d14	...	11.347	244	216794	55.61	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 111.22%					
Target Compounds					Qvalue			
2) Pyridine	...	0.000	79	0	N.D.			
3) 2-Picoline	...	0.000	93	0	N.D.			
4) Methyl methanesulfonate	...	0.000	80	0	N.D. d			
6) Ethyl methanesulfonate	...	0.000	79	0	N.D.			
7) Benzaldehyde	...	0.000	105	0	N.D. d			
8) Aniline	...	0.000	66	0	N.D. d			
10) Phenol	...	3.831	94	52342	21.18	ng		83
11) Bis(2-chloroethyl)ether	...	0.000	93	0	N.D.			
12) 2-Chlorophenol	...	0.000	128	0	N.D.			
13) 1,3-Dichlorobenzene	...	0.000	146	0	N.D.			
14) 1,4-Dichlorobenzene	...	0.000	146	0	N.D.			
15) 1,2-Dichlorobenzene	...	0.000	146	0	N.D.			
16) Benzyl alcohol	...	0.000	108	0	N.D. d			
17) Bis(2-chloroisopropyl)ether	...	0.000	45	0	N.D. d			
18) 2-Methylphenol	...	0.000	107	0	N.D. d			
19) 3,4-Methylphenol	...	4.830	107	3209	1.58	ng	#	77
20) N-Nitrosodi-n-propylamine	...	0.000	70	0	N.D.			
21) N-Nitrosodimethylamine	...	0.000	42	0	N.D. d			
22) Hexachloroethane	...	0.000	117	0	N.D.			
25) Acetophenone	...	4.765	105	3379	1.26	ng	#	80
26) Nitrobenzene	...	0.000	123	0	N.D.			
27) N-Nitrosopiperidine	...	0.000	114	0	N.D.			
28) Isophorone	...	0.000	82	0	N.D.			
29) 2-Nitrophenol	...	0.000	139	0	N.D.			
30) 2,4-Dimethylphenol	...	0.000	122	0	N.D. d			
31) Bis(2-chloroethoxy)methane	...	0.000	93	0	N.D.			
32) 2,4-Dichlorophenol	...	0.000	162	0	N.D.			
33) 1,2,4-Trichlorobenzene	...	0.000	180	0	N.D.			
34) Naphthalene	...	0.000	128	0	N.D. d			
35) Benzoic acid	...	0.000	105	0	N.D. d			
36) 2,6-Dichlorophenol	...	0.000	162	0	N.D.			
37) 4-Chloroaniline	...	0.000	127	0	N.D.			
38) Hexachlorobutadiene	...	0.000	225	0	N.D.			
39) a,a-Dimethylphenethylamine	...	0.000	58	0	N.D. d			
40) Caprolactam	...	0.000	113	0	N.D.			

Data Path : C:\MS-9\New\Raw Data\S220303\
Data File : S22030323.D
Acq On : 3 Mar 2022 5:01 pm
Operator : YH
Sample : 2202V46-001B
Misc : SAMP 1311_B
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Mar 04 10:16:55 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 4-Chloro-3-methylphenol	...	0.000	107	0		N.D. d
42) N-Nitrosodi-n-butylamine	...	0.000	84	0		N.D.
43) 2-Methylnaphthalene	...	0.000	141	0		N.D. d
44) 1-Methylnaphthalene	...	0.000	141	0		N.D. d
46) 1,2,4,5-Tetrachlorobenzene	...	0.000	216	0		N.D.
47) Hexachlorocyclopentadiene	...	0.000	237	0		N.D.
48) 2,4,6-Trichlorophenol	...	0.000	196	0		N.D.
49) 2,4,5-Trichlorophenol	...	0.000	196	0		N.D.
51) Biphenyl	...	0.000	154	0		N.D. d
52) 2-Chloronaphthalene	...	0.000	162	0		N.D.
53) 1-Chloronaphthalene	...	0.000	162	0		N.D.
54) 2-Nitroaniline	...	0.000	65	0		N.D. d
55) 3-Nitroaniline	...	0.000	138	0		N.D.
56) Pentachlorobenzene	...	0.000	250	0		N.D.
57) 4-Nitroaniline	...	0.000	138	0		N.D.
58) 2-Naphthylamine	...	0.000	143	0		N.D.
59) 1-Naphthylamine	...	0.000	143	0		N.D.
60) Dimethyl phthalate	...	0.000	163	0		N.D.
61) Acenaphthylene	...	0.000	152	0		N.D.
62) 2,6-Dinitrotoluene	...	0.000	165	0		N.D.
63) Acenaphthene	...	0.000	154	0		N.D. d
64) 2,4-Dinitrophenol	...	0.000	184	0		N.D.
65) Dibenzofuran	...	0.000	168	0		N.D.
66) 4-Nitrophenol	...	0.000	109	0		N.D.
67) 2,4-Dinitrotoluene	...	0.000	165	0		N.D.
68) 2,3,4,6-Tetrachlorophenol	...	0.000	232	0		N.D.
69) Diethyl phthalate	...	0.000	149	0		N.D.
70) Fluorene	...	0.000	166	0		N.D.
71) 4-Chlorophenyl phenyl ether	...	0.000	204	0		N.D.
74) 4,6-Dinitro-2-methylphenol	...	0.000	198	0		N.D.
75) Azobenzene	...	0.000	77	0		N.D.
76) 1,2-Diphenylhydrazine	...	0.000	182	0		N.D.
77) Diphenylamine	...	0.000	170	0		N.D.
78) N-Nitrosodiphenylamine	...	0.000	168	0		N.D.
79) 4-Bromophenyl phenyl ether	...	0.000	248	0		N.D.
80) Phenacetin	...	0.000	108	0		N.D.
81) Hexachlorobenzene	...	0.000	284	0		N.D.
82) Atrazine	...	0.000	200	0		N.D.
83) 4-Aminobiphenyl	...	0.000	169	0		N.D.
84) Pentachlorophenol	...	0.000	266	0		N.D.
85) Pentachloronitrobenzene	...	0.000	237	0		N.D.
86) Pronamide	...	0.000	173	0		N.D.
87) Phenanthrene	...	0.000	178	0		N.D. d
88) Anthracene	...	0.000	178	0		N.D. d
89) Carbazole	...	0.000	167	0		N.D.
90) Di-n-butyl phthalate	...	0.000	149	0		N.D. d
91) Fluoranthene	...	0.000	202	0		N.D.
93) Pyrene	...	0.000	202	0		N.D.
95) Benzidine	...	0.000	184	0		N.D.
96) p-Dimethylaminoazobenzene	...	0.000	225	0		N.D.
97) Butyl benzyl phthalate	...	0.000	149	0		N.D.
98) Benz(a)anthracene	...	0.000	228	0		N.D. d
99) 3,3'-Dichlorobenzidine	...	0.000	252	0		N.D.
100) Chrysene	...	0.000	228	0		N.D. d
101) Bis(2-ethylhexyl)phthalate	...	0.000	149	0		N.D. d
102) Di-n-octyl phthalate	...	0.000	149	0		N.D.
103) 3-Methylcholanthrene	...	0.000	268	0		N.D.

Data Path : C:\MS-9\New\Raw Data\S220303\
Data File : S22030323.D
Acq On : 3 Mar 2022 5:01 pm
Operator : YH
Sample : 2202V46-001B
Misc : SAMP 1311_B
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Mar 04 10:16:55 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

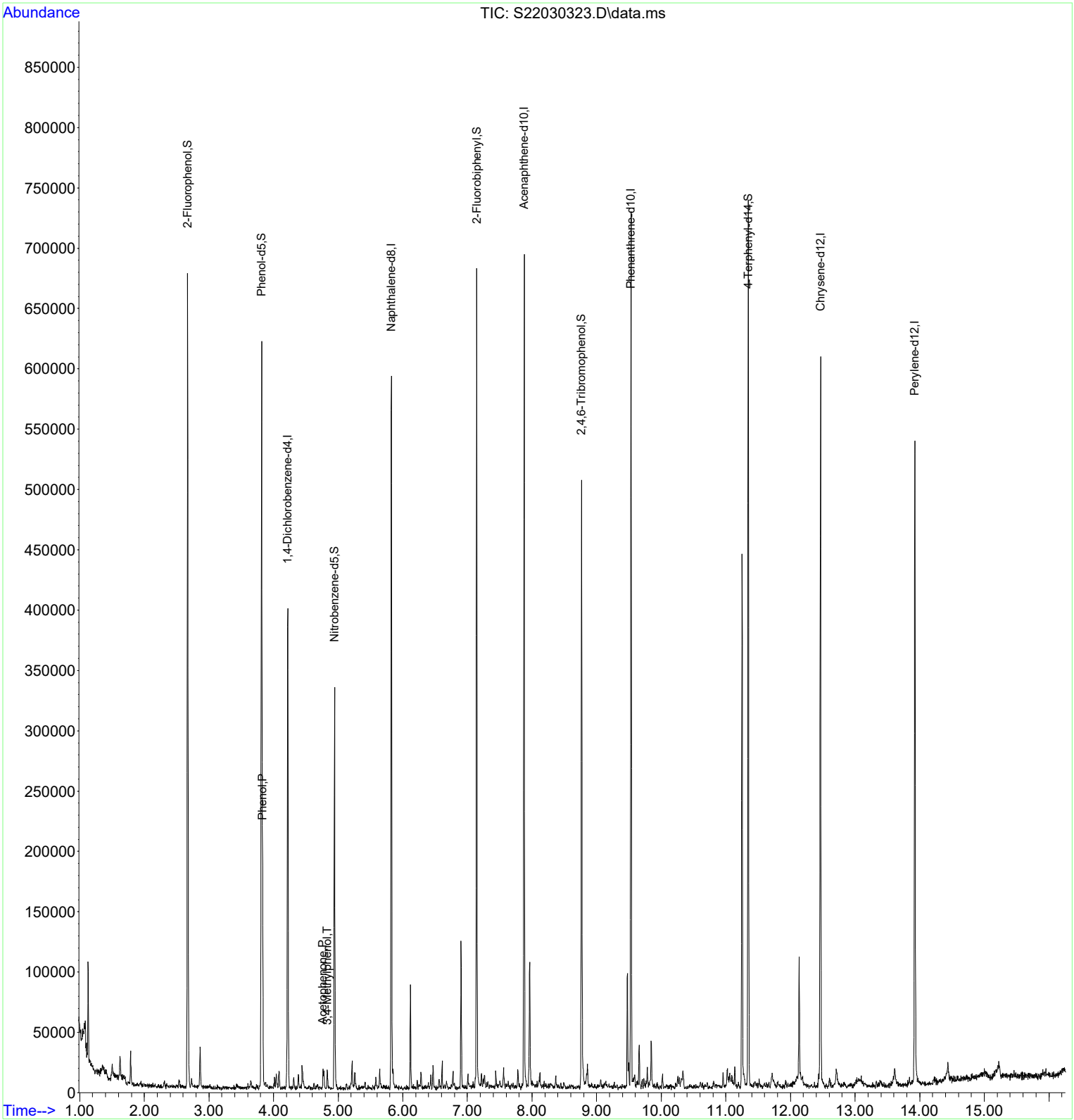
Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
105) Benzo[b]fluoranthene	...		0.000	252	0		N.D.
106) Benzo[k]fluoranthene	...		0.000	252	0		N.D.
107) Benzo[a]pyrene	...		0.000	252	0		N.D.
108) Dibenz(a,j)acridine	...		0.000	279	0		N.D.
109) Indeno[1,2,3-cd]pyrene	...		0.000	276	0		N.D.
110) Dibenz(a,h)anthracene	...		0.000	278	0		N.D.
111) Benzo[g,h,i]perylene	...		0.000	276	0		N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220303\
Data File : S22030323.D
Acq On : 3 Mar 2022 5:01 pm
Operator : YH
Sample : 2202V46-001B
Misc : SAMP 1311_B
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Mar 04 10:16:55 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration



Injection Log

Directory: C:\MS-9\New\Raw Data\S220228

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	S22022801.D	1.	DFTPP	TUNE DFTPP_4	28 Feb 2022 12:20
2	2	S22022802.D	1.	TEST989-59	ICAL 8270_TCL4.2_W	28 Feb 2022 12:47
3	3	S22022803.D	1.	BNA989-12	ICAL 8270_TCL4.2_W	28 Feb 2022 13:14
4	1	S22022804.D	1.	DFTPP	TUNE DFTPP_4	28 Feb 2022 15:27
5	2	S22022805.D	1.	TEST989-59	ICAL 8270_TCL4.2_W	28 Feb 2022 15:52
6	1	S22022806.D	1.	DFTPP	TUNE DFTPP_4	28 Feb 2022 16:21
7	1	S22022807.D	1.	DFTPP	TUNE DFTPP_4	28 Feb 2022 16:47
8	2	S22022810.D	1.	BNA 5 989-59/	ICAL 8270_TCL4.2_W	28 Feb 2022 17:13
9	3	S22022811.D	1.	BNA 10 989-59/	ICAL 8270_TCL4.2_W	28 Feb 2022 17:39
10	4	S22022812.D	1.	BNA20 989-59/	ICAL 8270_TCL4.2_W	28 Feb 2022 18:05
11	5	S22022813.D	1.	BNA 40 989-59/	ICAL 8270_TCL4.2_W	28 Feb 2022 18:30
12	6	S22022814.D	1.	BNA 60 989-59/	ICAL 8270_TCL4.2_W	28 Feb 2022 18:56
13	7	S22022815.D	1.	BNA 80 989-59/	ICAL 8270_TCL4.2_W	28 Feb 2022 19:22
14	8	S22022816.D	1.	BNA 120 989-59/	ICAL 8270_TCL4.2_W	28 Feb 2022 19:49
15	9	S22022817.D	1.	BNA 160 989-59/	ICAL 8270_TCL4.2_W	28 Feb 2022 20:15

Calibration Status Report MS-9

Method Path : C:\MS-9\New\Calculation Methods\
Method File : B022822.M
Title : MS-9 BNA CURVE 8270E/625
Last Update : Tue Mar 01 11:30:07 2022
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	160	160	40	C:\MS-9\New\Raw Data\S220228\S22022817.D
2	60	60	40	C:\MS-9\New\Raw Data\S220228\S22022814.D
3	40	40	40	C:\MS-9\New\Raw Data\S220228\S22022813.D
4	120	120	40	C:\MS-9\New\Raw Data\S220228\S22022816.D
5	80	80	40	C:\MS-9\New\Raw Data\S220228\S22022815.D
6	10	10	40	C:\MS-9\New\Raw Data\S220228\S22022811.D
7	20	20	40	C:\MS-9\New\Raw Data\S220228\S22022812.D
8	5	-1	40	C:\MS-9\New\Raw Data\S220228\S22022810.D

#	ID	Update Time	Quant Time	Acquisition Time
1	160	Mar 01 11:29 2022	Mar 01 11:27 2022	28 Feb 2022 8:15 pm
2	60	Mar 01 11:20 2022	Mar 01 11:18 2022	28 Feb 2022 6:56 pm
3	40	Mar 01 11:30 2022	Mar 01 11:15 2022	28 Feb 2022 6:30 pm
4	120	Mar 01 11:23 2022	Mar 01 09:58 2022	28 Feb 2022 7:49 pm
5	80	Mar 01 11:23 2022	Mar 01 11:21 2022	28 Feb 2022 7:22 pm
6	10	Mar 01 11:10 2022	Mar 01 11:08 2022	28 Feb 2022 5:39 pm
7	20	Mar 01 11:14 2022	Mar 01 11:13 2022	28 Feb 2022 6:05 pm
8	5	Mar 01 10:07 2022	Mar 01 08:50 2022	28 Feb 2022 5:13 pm

B022822.M Tue Mar 01 11:31:24 2022

Area Percent Report

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022807.D
Acq On : 28 Feb 2022 4:47 pm
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 30000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MS-9\New\Calculation Methods\DFTPP.M
Title :

Signal : TIC: S22022807.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	9.343	2934	2945	2968	rBV	488150	406254	42.42%	14.751%
2	9.973	3154	3167	3174	rBV	788541	569328	59.45%	20.673%
3	11.066	3541	3552	3572	rBV	1116771	957602	100.00%	34.771%
4	11.997	3868	3880	3889	rBV	1090632	820810	85.72%	29.804%

Sum of corrected areas: 2753994

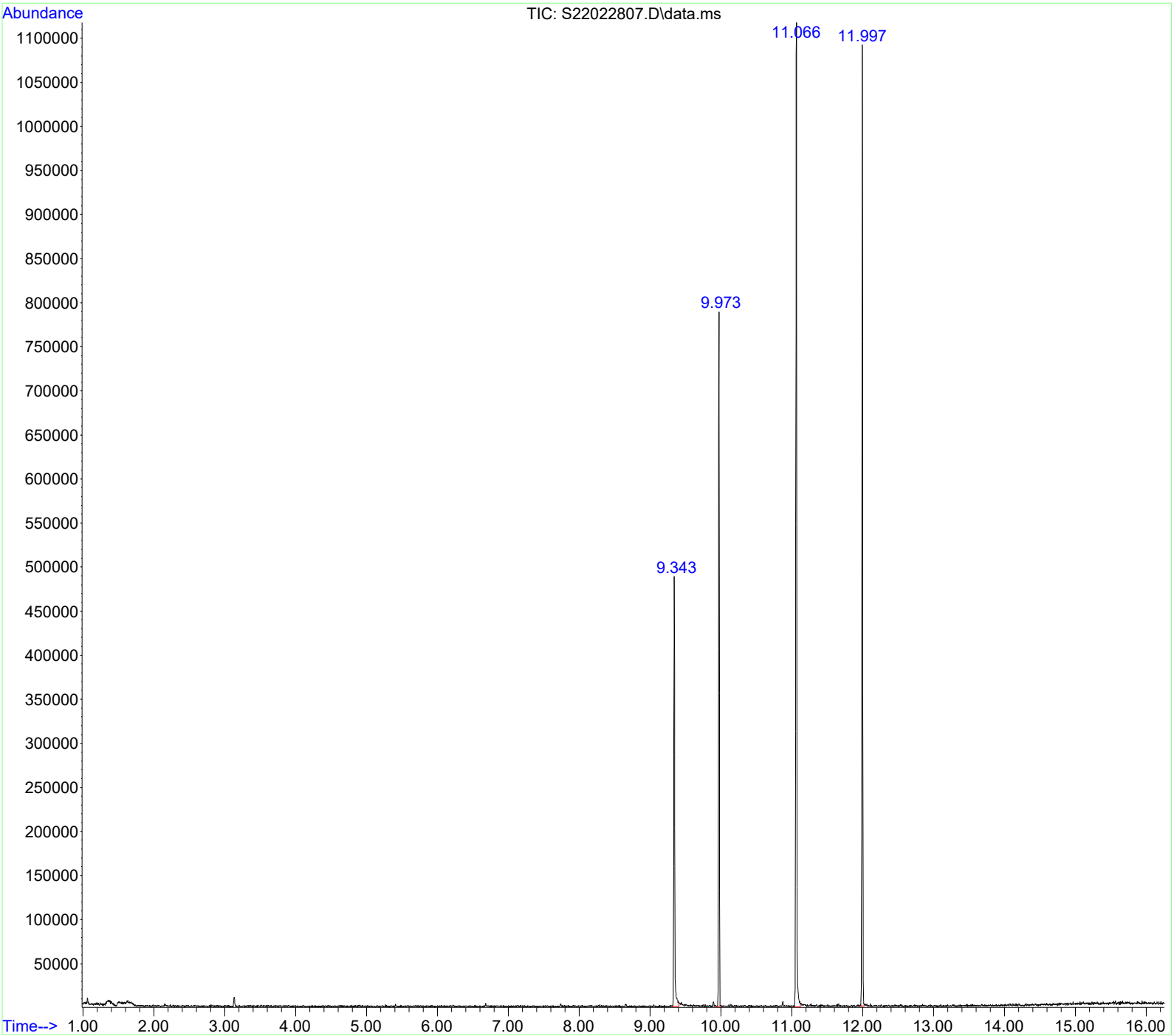
Area Percent Report

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022807.D
Acq On : 28 Feb 2022 4:47 pm
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 30000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MS-9\New\Calculation Methods\DFTPP.M
Title :



Library Search Report

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022807.D
Acq On : 28 Feb 2022 4:47 pm
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: C:\Database\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex minus start of peak
Integration Events: RTE Integrator - RTEINT.P

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	9.343	14.75	C:\Database\NIST14.L			
			Phenol, pentachloro-	125064	000087-86-5	99
			Phenol, pentachloro-	125062	000087-86-5	98
			Phenol, pentachloro-	125061	000087-86-5	96
2	9.973	20.67	C:\Database\NIST14.L			
			Bis(pentafluorophenyl)phenyl phosphine	254406	005074-71-5	99
			Bis(pentafluorophenyl)phenyl phosphine	254407	005074-71-5	99
			6,10-Methano-9H-cyclooct[b]indol-9-one, 5,6,7,8,10,11-hexahydro-2-methoxy-	116288	1000337-05-8	14
3	11.066	34.77	C:\Database\NIST14.L			
			Benzidine	51192	000092-87-5	97
			Benzidine	51188	000092-87-5	96
			Benzidine	51190	000092-87-5	95
4	11.997	29.80	C:\Database\NIST14.L			
			Mitotane	176317	000053-19-0	97
			p,p'-DDT	206681	000050-29-3	95
			1,1-Dichloro-2,2-bis(p-chlorophenyl)ethane	176322	000072-54-8	94

Library Search Report

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022807.D
Acq On : 28 Feb 2022 4:47 pm
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: C:\Database\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex minus start of peak
Integration Events: RTE Integrator - RTEINT.P

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	9.343	14.75	C:\Database\NIST14.L			
			Phenol, pentachloro-	125064	000087-86-5	99
			Phenol, pentachloro-	125062	000087-86-5	98
			Phenol, pentachloro-	125061	000087-86-5	96
2	9.973	20.67	C:\Database\NIST14.L			
			Bis(pentafluorophenyl)phenyl phosphine	254406	005074-71-5	99
			Bis(pentafluorophenyl)phenyl phosphine	254407	005074-71-5	99
			6,10-Methano-9H-cyclooct[b]indol-9-one, 5,6,7,8,10,11-hexahydro-2-methoxy-	116288	1000337-05-8	14
3	11.066	34.77	C:\Database\NIST14.L			
			Benzidine	51192	000092-87-5	97
			Benzidine	51188	000092-87-5	96
			Benzidine	51190	000092-87-5	95
4	11.997	29.80	C:\Database\NIST14.L			
			Mitotane	176317	000053-19-0	97
			p,p'-DDT	206681	000050-29-3	95
			1,1-Dichloro-2,2-bis(p-chlorophenyl)ethane	176322	000072-54-8	94

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022807.D
Acq On : 28 Feb 2022 4:47 pm
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MS-9\New\Calculation Methods\DFTPP.M
Title :
Last Update : Mon Oct 15 09:26:34 1990

AutoFind: Scans 3166, 3167, 3168; Background Corrected with Scan 3158

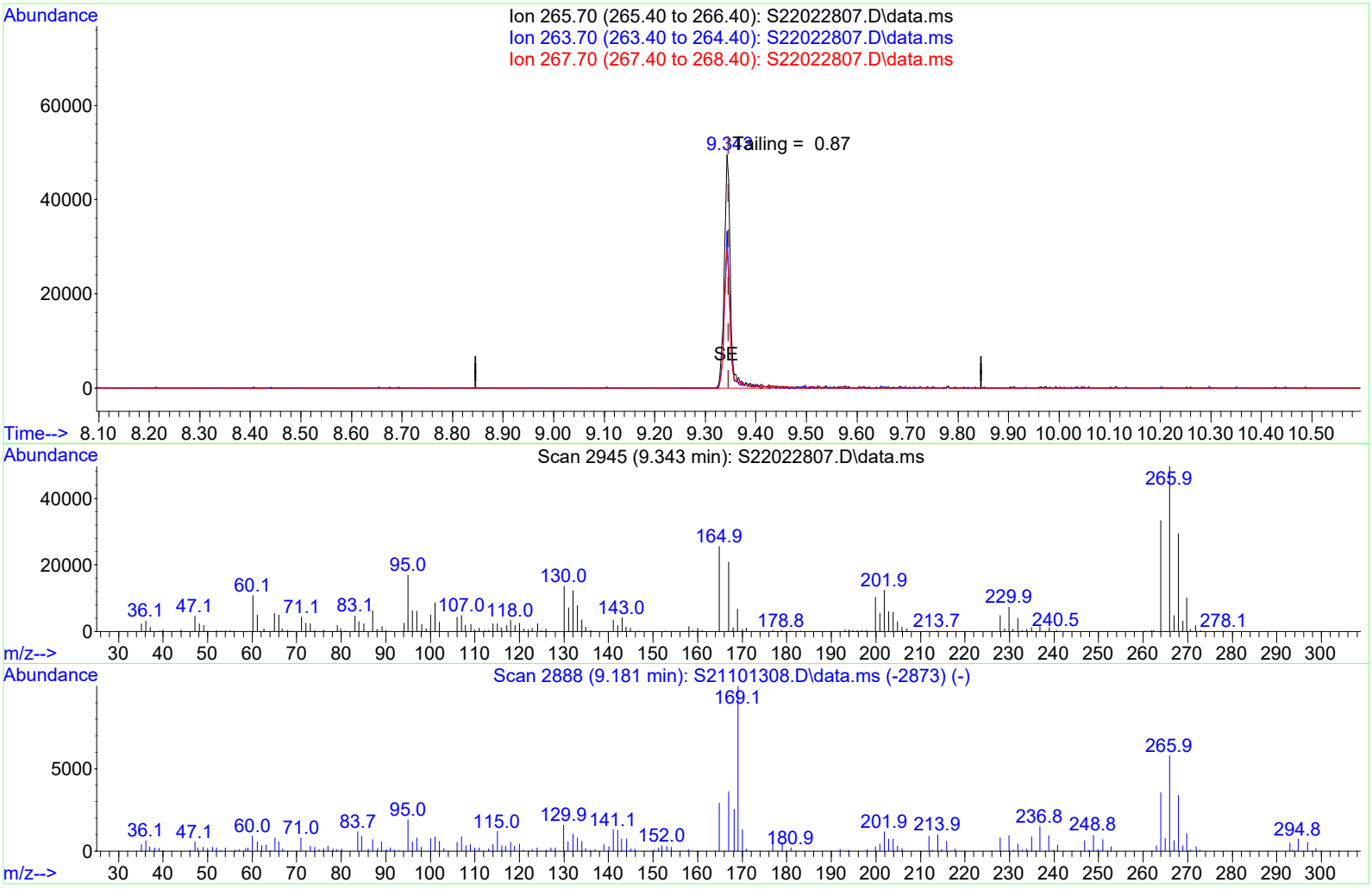
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	57.5	41368	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	50.2	36112	PASS
70	69	0.00	2	0.8	276	PASS
127	198	40	60	57.7	41459	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	71912	PASS
199	198	5	9	6.5	4677	PASS
275	198	10	30	23.5	16909	PASS
365	198	1	100	3.2	2298	PASS
441	443	0.01	100	82.3	8760	PASS
442	198	40	100	69.9	50264	PASS
443	442	17	23	21.2	10643	PASS

DFTPP.M Tue Mar 08 11:06:40 2022

Quantitation Report (Qedit)

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022807.D
Acq On : 28 Feb 2022 4:47 pm
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 08 11:07:09 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration



TIC: S22022807.D\data.ms

(84) Pentachlorophenol (P)

9.343min (-0.003) 0.00 ng

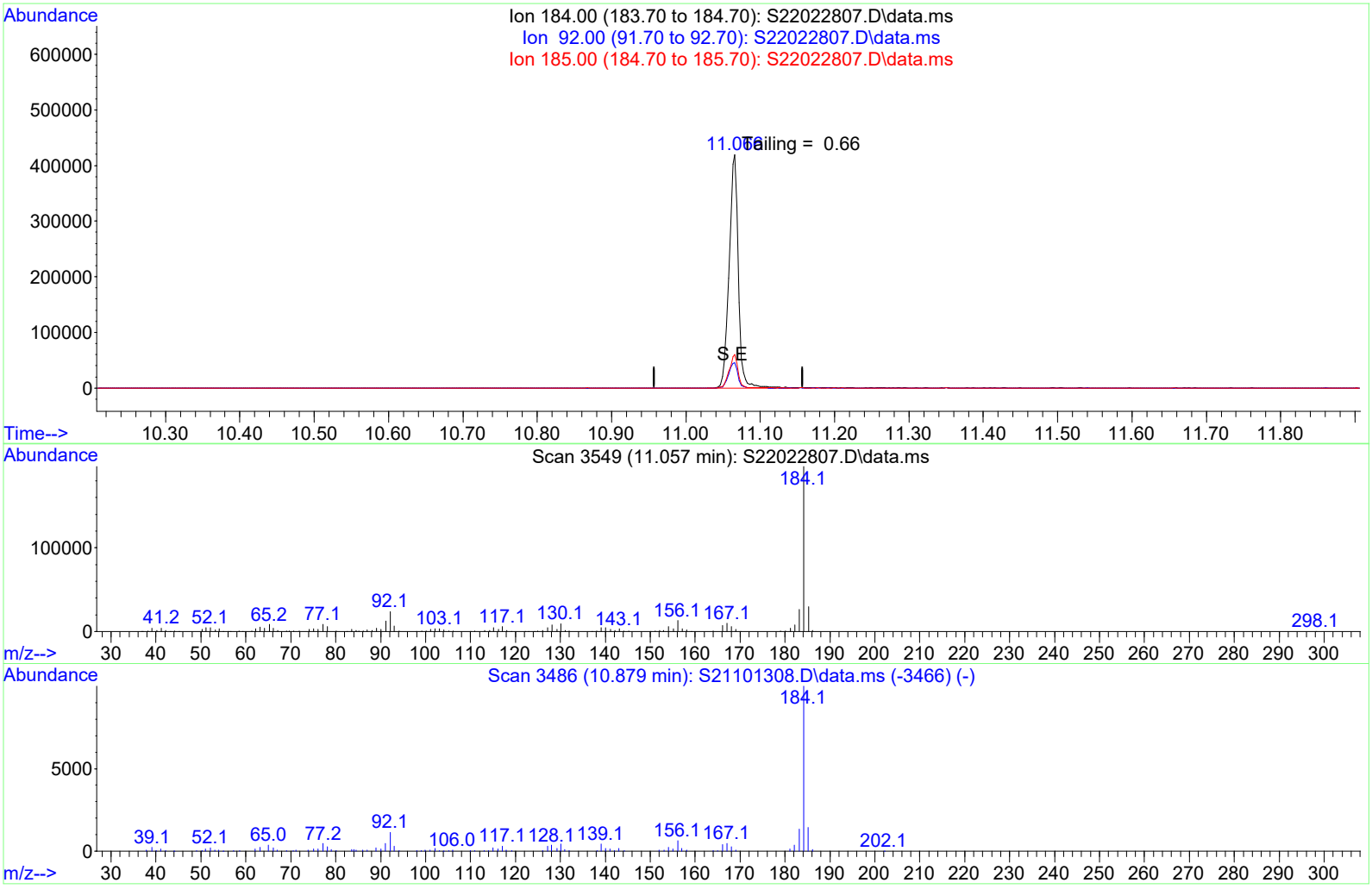
response 40704

Ion	Exp%	Act%
265.70	100.00	100.00
263.70	63.20	59.41
267.70	62.20	58.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022807.D
Acq On : 28 Feb 2022 4:47 pm
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 08 11:07:09 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration



TIC: S22022807.D\data.ms

(95) Benzidine (T)

11.057min (-11.057) 0.00 ng

response 0

Ion	Exp%	Act%
184.00	100.00	0.00
92.00	10.50	0.00
185.00	14.30	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022811.D
Acq On : 28 Feb 2022 5:39 pm
Operator : YH
Sample : BNA 10 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 01 11:08:35 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:07:28 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	100	0.00
2		Pyridine	10.000	8.776	12.2	100	0.00
3	T	2-Picoline	10.000	8.975	10.3	100	0.00
4	T	Methyl methanesulfonate	10.000	9.456	5.4	100	0.00
5	S	2-Fluorophenol	10.000	8.962	10.4	100	0.00
6	T	Ethyl methanesulfonate	10.000	9.474	5.3	100	0.00
7	P	Benzaldehyde	10.000	9.469	5.3	100	0.00
8	T	Aniline	10.000	10.053	-0.5	100	0.00
9	S	Phenol-d5	10.000	9.526	4.7	100	0.00
10	P	Phenol	10.000	9.516	4.8	100	0.00
11	P	Bis(2-chloroethyl)ether	10.000	9.926	0.7	100	0.00
12	P	2-Chlorophenol	10.000	9.565	4.4	100	0.00
13	T	1,3-Dichlorobenzene	10.000	9.777	2.2	100	0.00
14	CCC	1,4-Dichlorobenzene	10.000	9.758	2.4	100	0.00
15	T	1,2-Dichlorobenzene	10.000	9.618	3.8	100	0.00
16	T	Benzyl alcohol	10.000	9.708	2.9	100	0.00
17	T	Bis(2-chloroisopropyl)ether	10.000	9.724	2.8	100	0.00
18	P	2-Methylphenol	10.000	9.036	9.6	100	0.00
19	T	3,4-Methylphenol	20.000	18.520	7.4	100	0.00
20	PC	N-Nitrosodi-n-propylamine	10.000	9.499	5.0	100	0.00
21	T	N-Nitrosodimethylamine	10.000	9.535	4.6	100	0.00
22	T	Hexachloroethane	10.000	10.012	-0.1	100	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	100	0.00
24	S	Nitrobenzene-d5	10.000	9.702	3.0	100	0.00
25	P	Acetophenone	20.000	19.400	3.0	100	0.00
26	P	Nitrobenzene	10.000	9.170	8.3	100	0.00
27	T	N-Nitrosopiperidine	10.000	8.873	11.3	100	0.00
28	P	Isophorone	10.000	9.391	6.1	100	0.00
29	P	2-Nitrophenol	10.000	8.408	15.9	100	0.00
30	P	2,4-Dimethylphenol	10.000	9.355	6.4	100	0.00
31	P	Bis(2-chloroethoxy)methane	10.000	9.646	3.5	100	0.00
32	P	2,4-Dichlorophenol	10.000	8.875	11.3	100	0.00
33	T	1,2,4-Trichlorobenzene	10.000	10.047	-0.5	100	0.00
34	P	Naphthalene	10.000	9.805	2.0	100	0.00
35	T	Benzoic acid	-1.000	20.244	0.0	0	-0.02
36	T	2,6-Dichlorophenol	10.000	9.387	6.1	100	0.00
37	P	4-Chloroaniline	10.000	9.734	2.7	100	0.00
38	P	Hexachlorobutadiene	10.000	9.537	4.6	100	0.00
39	T	a,a-Dimethylphenethylamine	10.000	8.679	13.2	100	-0.05
40	P	Caprolactam	10.000	9.005	9.9	100	-0.03
41	P	4-Chloro-3-methylphenol	10.000	8.805	12.0	100	0.00
42	T	N-Nitrosodi-n-butylamine	10.000	8.307	16.9	100	0.00
43	P	2-Methylnaphthalene	10.000	9.599	4.0	100	0.00
44	T	1-Methylnaphthalene	10.000	9.687	3.1	100	0.00
45	I	Acenaphthene-d10	40.000	40.000	0.0	100	0.00
46	T	1,2,4,5-Tetrachlorobenzene	10.000	10.310	-3.1	100	0.00
47	P	Hexachlorocyclopentadiene	10.000	8.969	10.3	100	0.00
48	P	2,4,6-Trichlorophenol	10.000	8.136	18.6	100	0.00
49	P	2,4,5-Trichlorophenol	10.000	8.767	12.3	100	0.00
50	S	2-Fluorobiphenyl	10.000	10.075	-0.7	100	0.00
51		Biphenyl	10.000	9.940	0.6	100	0.00

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022811.D
Acq On : 28 Feb 2022 5:39 pm
Operator : YH
Sample : BNA 10 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 01 11:08:35 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:07:28 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	P	2-Chloronaphthalene	10.000	9.749	2.5	100	0.00
53	T	1-Chloronaphthalene	10.000	10.182	-1.8	100	0.00
54	P	2-Nitroaniline	10.000	9.088	9.1	100	0.00
55	P	3-Nitroaniline	10.000	8.662	13.4	100	0.00
56	T	Pentachlorobenzene	10.000	9.279	7.2	100	0.00
57	T	4-Nitroaniline	10.000	9.226	7.7	100	0.00
58	T	2-Naphthylamine	10.000	9.680	3.2	100	0.00
59	T	1-Naphthylamine	10.000	9.931	0.7	100	0.00
60	P	Dimethyl phthalate	10.000	9.470	5.3	100	0.00
61	P	Acenaphthylene	10.000	9.595	4.0	100	0.00
62	P	2,6-Dinitrotoluene	10.000	8.593	14.1	100	0.00
63	P	Acenaphthene	10.000	9.561	4.4	100	0.00
64	P	2,4-Dinitrophenol	-1.000	20.363	0.0	0	0.00
65	P	Dibenzofuran	10.000	9.617	3.8	100	0.00
66	P	4-Nitrophenol	10.000	6.627	33.7#	100	0.00
67	P	2,4-Dinitrotoluene	10.000	8.106	18.9	100	0.00
68	T	2,3,4,6-Tetrachlorophenol	10.000	7.445	25.5#	100	0.00
69	P	Diethyl phthalate	10.000	9.204	8.0	100	0.00
70	P	Fluorene	10.000	9.665	3.4	100	0.00
71	P	4-Chlorophenyl phenyl ether	10.000	9.807	1.9	100	0.00
72	S	2,4,6-Tribromophenol	10.000	13.114	-31.1#	100	0.00
73	I	Phenanthrene-d10	40.000	40.000	0.0	100	0.00
74	P	4,6-Dinitro-2-methylphenol	-1.000	19.195	0.0	0	0.00
75	T	Azobenzene	10.000	9.812	1.9	100	0.00
76	T	1,2-Diphenylhydrazine	10.000	9.431	5.7	100	0.00
77	CCC	Diphenylamine	10.000	9.574	4.3	100	0.00
78	P	N-Nitrosodiphenylamine	10.000	9.827	1.7	100	0.00
79	P	4-Bromophenyl phenyl ether	10.000	9.530	4.7	100	0.00
80	T	Phenacetin	10.000	8.010	19.9	100	0.00
81	P	Hexachlorobenzene	10.000	9.604	4.0	100	0.00
82	P	Atrazine	10.000	8.642	13.6	100	0.00
83	T	4-Aminobiphenyl	10.000	9.536	4.6	100	0.00
84	P	Pentachlorophenol	10.000	14.833	-48.3#	100	0.00
85	T	Pentachloronitrobenzene	10.000	8.196	18.0	100	0.00
86	T	Pronamide	10.000	8.598	14.0	100	0.00
87	P	Phenanthrene	10.000	9.770	2.3	100	0.00
88	P	Anthracene	10.000	9.178	8.2	100	0.00
89	P	Carbazole	10.000	9.092	9.1	100	0.00
90	P	Di-n-butyl phthalate	10.000	8.549	14.5	100	0.00
91	P	Fluoranthene	10.000	8.977	10.2	100	0.00
92	I	Chrysene-d12	40.000	40.000	0.0	100	0.00
93	P	Pyrene	10.000	9.696	3.0	100	0.00
94	S	4-Terphenyl-d14	10.000	9.763	2.4	100	0.00
95	T	Benzidine	10.000	8.936	10.6	100	0.00
96	T	p-Dimethylaminoazobenzene	10.000	8.272	17.3	100	0.00
97	P	Butyl benzyl phthalate	10.000	8.370	16.3	100	0.00
98	P	Benz(a)anthracene	10.000	9.303	7.0	100	0.00
99	P	3,3'-Dichlorobenzidine	10.000	8.779	12.2	100	0.00
100	P	Chrysene	10.000	10.032	-0.3	100	0.00
101	P	Bis(2-ethylhexyl)phthalate	10.000	7.683	23.2	100	0.00
102	P	Di-n-octyl phthalate	10.000	7.753	22.5	100	0.00

Evaluate Continuing Calibration Report

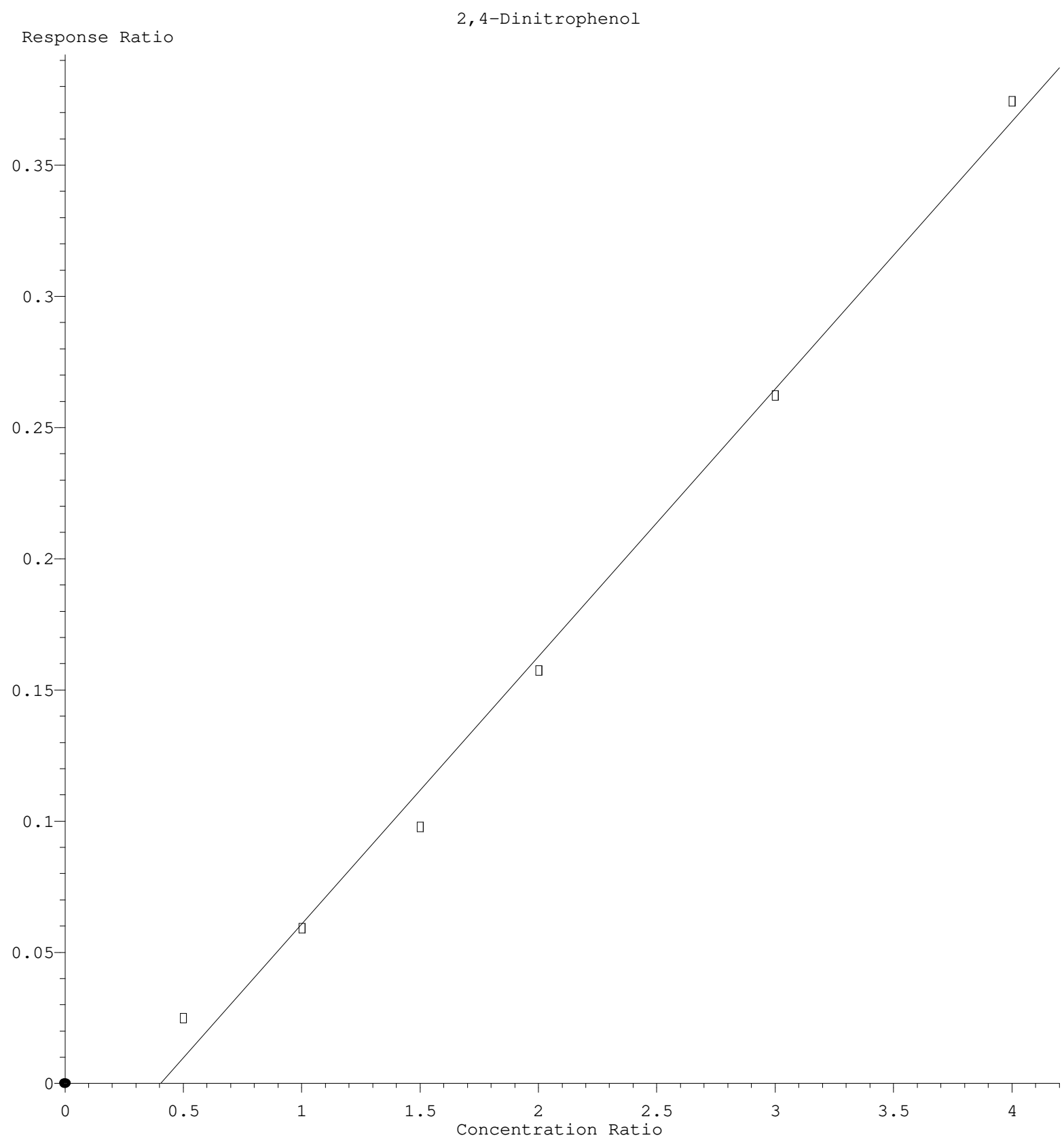
Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022811.D
Acq On : 28 Feb 2022 5:39 pm
Operator : YH
Sample : BNA 10 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 01 11:08:35 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:07:28 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

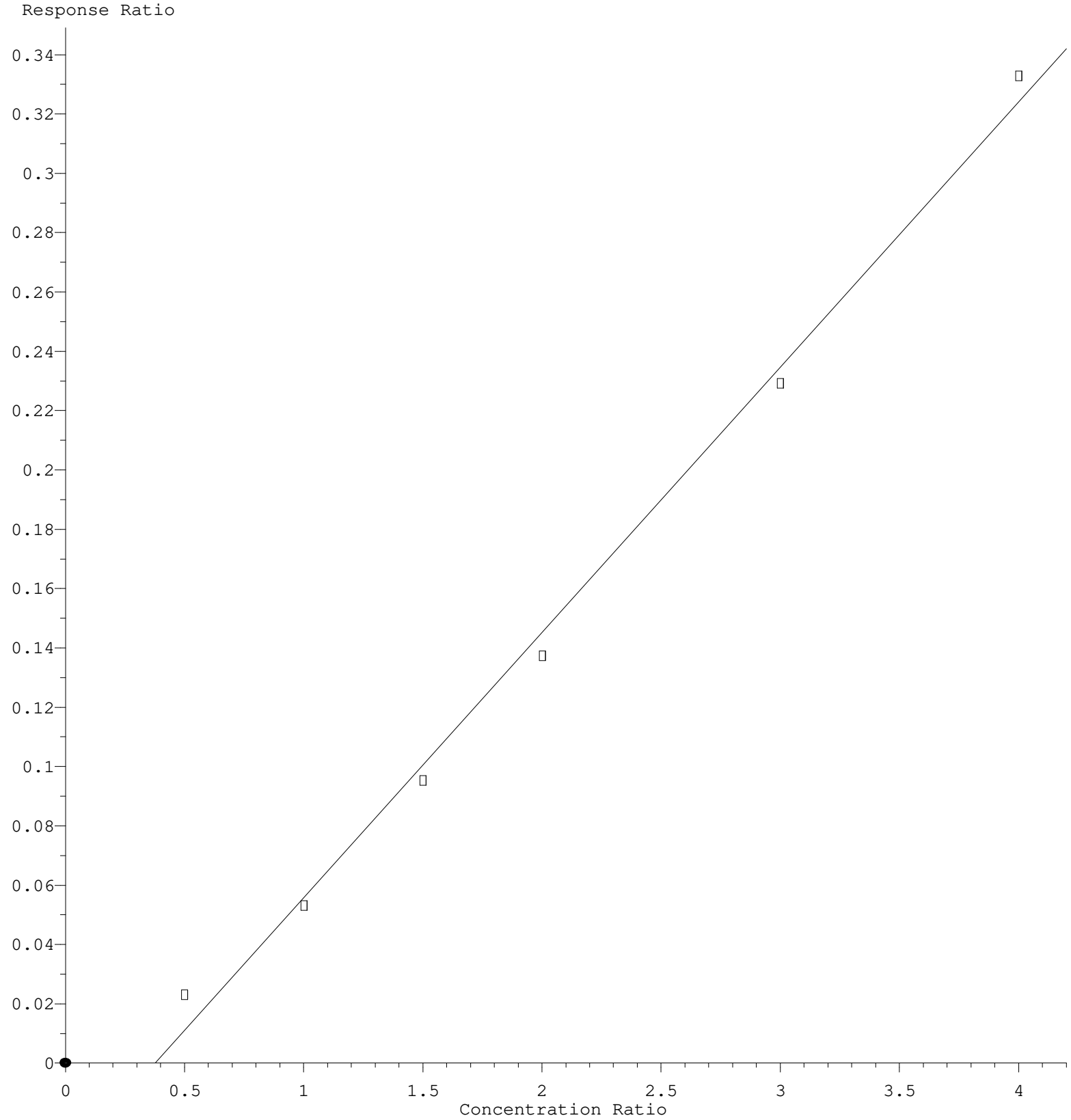
		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	10.000	12.481	-24.8	100	0.00
104	I	Perylene-d12	40.000	40.000	0.0	100	0.00
105	P	Benzo[b]fluoranthene	10.000	8.385	16.2	100	0.00
106	P	Benzo[k]fluoranthene	10.000	9.904	1.0	100	0.00
107	P	Benzo[a]pyrene	10.000	8.834	11.7	100	0.00
108	T	Dibenz(a,j)acridine	10.000	7.083	29.2#	100	0.00
109		Indeno[1,2,3-cd]pyrene	10.000	9.200	8.0	100	0.00
110	P	Dibenz(a,h)anthracene	10.000	8.080	19.2	100	0.00
111	P	Benzo[g,h,i]perylene	10.000	9.105	8.9	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

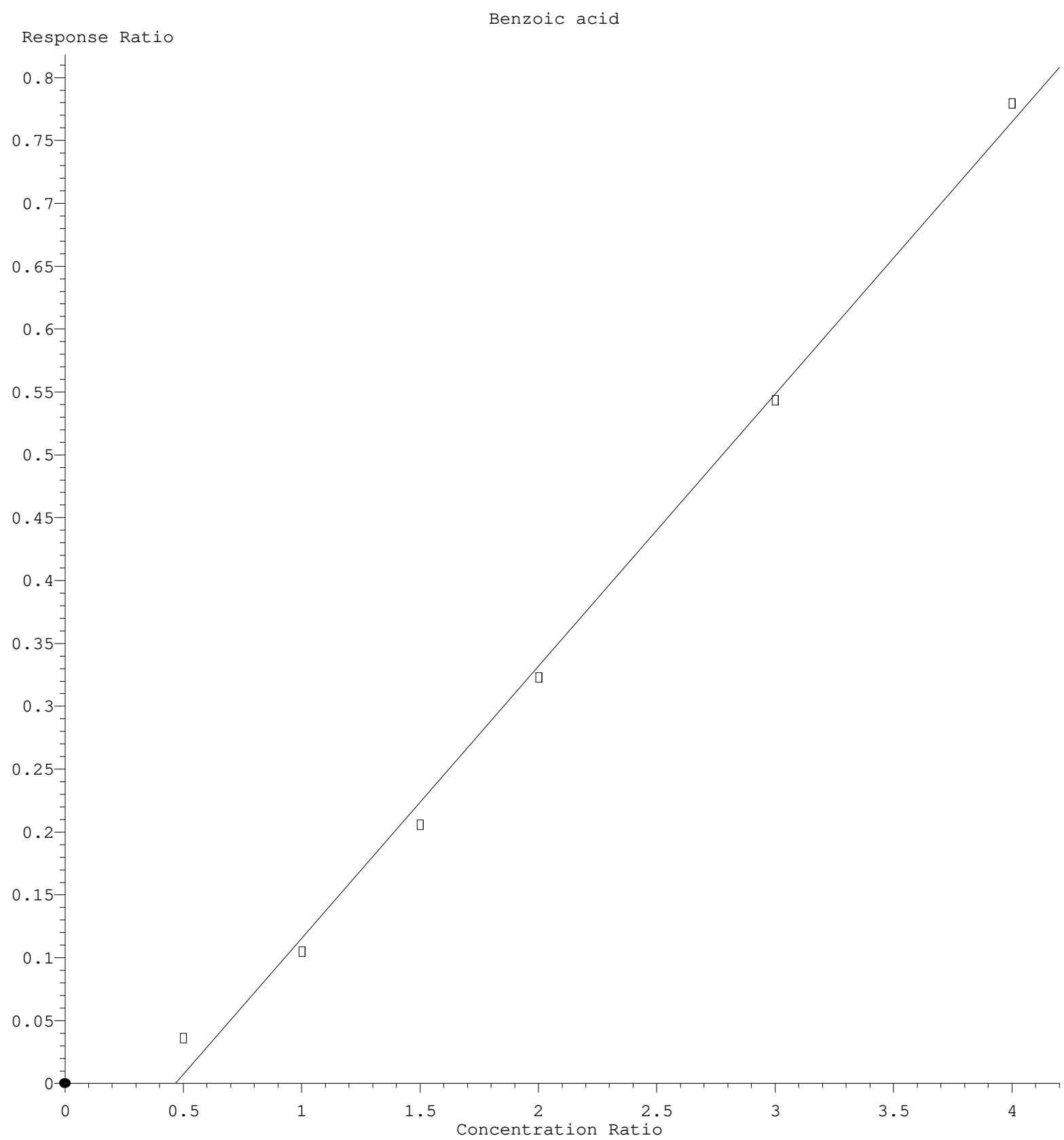


Response = 1.02e-001 * Amt - 4.11e-002
Coef of Det (r^2) = 0.994 Curve Fit: Linear
Method Name: C:\MS-9\New\Calculation Methods\B022822.M
Calibration Table Last Updated: Tue Mar 01 11:30:07 2022

4,6-Dinitro-2-methylphenol



Response = 8.94e-002 * Amt - 3.37e-002
Coef of Det (r^2) = 0.995 Curve Fit: Linear
Method Name: C:\MS-9\New\Calculation Methods\B022822.M
Calibration Table Last Updated: Tue Mar 01 11:30:07 2022



Response = 2.17e-001 * Amt - 1.01e-001
Coef of Det (r^2) = 0.996 Curve Fit: Linear
Method Name: C:\MS-9\New\Calculation Methods\B022822.M
Calibration Table Last Updated: Tue Mar 01 11:30:07 2022

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022810.D
Acq On : 28 Feb 2022 5:13 pm
Operator : YH
Sample : BNA 5 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 11:01:05 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 10:07:51 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.217	152	51460	40.00	ng		0.00
23) Naphthalene-d8	...	5.824	136	208232	40.00	ng		0.00
45) Acenaphthene-d10	...	7.876	164	105034	40.00	ng		0.00
73) Phenanthrene-d10	...	9.530	188	188686	40.00	ng		0.00
92) Chrysene-d12	...	12.459	240	155128	40.00	ng		0.00
104) Perylene-d12	...	13.921	264	145693	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.668	112	9529	5.86	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 5.86%#					
9) Phenol-d5	...	3.806	99	12461	5.95	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 5.95%#					
24) Nitrobenzene-d5	...	4.944	82	10473	5.80	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 11.60%#					
50) 2-Fluorobiphenyl	...	7.141	172	18913	5.87	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 11.74%#					
72) 2,4,6-Tribromophenol	...	8.764	330	1408	8.75	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 8.75%#					
94) 4-Terphenyl-d14	...	11.341	244	20248	5.74	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 11.48%#					
Target Compounds								Qvalue
2) Pyridine	...	1.419	79	10590	5.36	ng	#	91
3) 2-Picoline	...	2.060	93	11124	5.57	ng		97
4) Methyl methanesulfonate	...	2.497	80	6004	6.03	ng	#	92
6) Ethyl methanesulfonate	...	3.286	79	8284	5.94	ng		91
7) Benzaldehyde	...	3.647	105	8316	6.37	ng		93
8) Aniline	...	3.797	66	7260	6.26	ng	#	82
10) Phenol	...	3.820	94	13678	6.21	ng		92
11) Bis(2-chloroethyl)ether	...	3.914	93	10128	5.82	ng		88
12) 2-Chlorophenol	...	3.939	128	9690	5.75	ng		86
13) 1,3-Dichlorobenzene	...	4.143	146	11076	5.86	ng		95
14) 1,4-Dichlorobenzene	...	4.240	146	11749	6.23	ng		99
15) 1,2-Dichlorobenzene	...	4.436	146	10515	5.89	ng		96
16) Benzyl alcohol	...	4.439	108	6318	5.69	ng	#	79
17) Bis(2-chloroisopropyl)ether	...	4.643	45	15942	6.20	ng	#	74
18) 2-Methylphenol	...	4.617	107	8292	6.25	ng	#	87
19) 3,4-Methylphenol	...	4.830	107	21433	11.85	ng		96
20) N-Nitrosodi-n-propylamine	...	4.802	70	7225	5.83	ng	#	86
21) N-Nitrosodimethylamine	...	1.399	42	6182	6.15	ng	#	76
22) Hexachloroethane	...	4.864	117	4595	6.30	ng		96
25) Acetophenone	...	4.762	105	27897	11.70	ng		95
26) Nitrobenzene	...	4.969	123	4683	5.76	ng	#	72
27) N-Nitrosopiperidine	...	5.157	114	4623	5.57	ng	#	80
28) Isophorone	...	5.284	82	19196	5.63	ng		99
29) 2-Nitrophenol	...	5.375	139	3496	4.79	ng		89
30) 2,4-Dimethylphenol	...	5.492	122	8702	5.96	ng		94
31) Bis(2-chloroethoxy)methane	...	5.602	93	12695	6.12	ng		96
32) 2,4-Dichlorophenol	...	5.679	162	6853	5.37	ng		95
33) 1,2,4-Trichlorobenzene	...	5.773	180	8904	5.89	ng		99
34) Naphthalene	...	5.843	128	31133	6.21	ng		94
35) Benzoic acid	...	0.000	105	0	N.D.			
36) 2,6-Dichlorophenol	...	5.957	162	6648	5.34	ng		97
37) 4-Chloroaniline	...	5.951	127	11792	5.73	ng		95
38) Hexachlorobutadiene	...	6.048	225	4783	6.05	ng		95
39) a,a-Dimethylphenethylamine	...	5.668	58	24760	4.87	ng		55
40) Caprolactam	...	6.323	113	2626	4.96	ng	#	49

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022810.D
Acq On : 28 Feb 2022 5:13 pm
Operator : YH
Sample : BNA 5 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 11:01:05 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 10:07:51 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.579	107	7660	5.47	ng		97
42) N-Nitrosodi-n-butylamine	6.400	84	6855	5.25	ng		95
43) 2-Methylnaphthalene	6.684	141	16335	5.66	ng		98
44) 1-Methylnaphthalene	6.794	141	16492	5.83	ng		99
46) 1,2,4,5-Tetrachlorobenzene	6.888	216	8236	6.11	ng		91
47) Hexachlorocyclopentadiene	6.894	237	4004	5.42	ng	#	88
48) 2,4,6-Trichlorophenol	7.038	196	3943	5.05	ng	#	83
49) 2,4,5-Trichlorophenol	7.072	196	4892	5.52	ng		95
51) Biphenyl	7.243	154	23024	6.18	ng	#	97
52) 2-Chloronaphthalene	7.240	162	17164	5.97	ng		96
53) 1-Chloronaphthalene	7.263	162	16294	6.38	ng		96
54) 2-Nitroaniline	7.385	65	4927	5.19	ng		97
55) 3-Nitroaniline	7.853	138	4122	4.89	ng	#	73
56) Pentachlorobenzene	8.069	250	6874	6.00	ng		96
57) 4-Nitroaniline	8.537	138	4201	4.87	ng	#	67
58) 2-Naphthylamine	8.196	143	17379	5.69	ng		97
59) 1-Naphthylamine	8.290	143	18751	5.95	ng		98
60) Dimethyl phthalate	7.634	163	17746	5.63	ng		97
61) Acenaphthylene	7.705	152	25513	5.90	ng		98
62) 2,6-Dinitrotoluene	7.674	165	3337	5.05	ng	#	73
63) Acenaphthene	7.910	154	16620	6.23	ng		98
64) 2,4-Dinitrophenol	0.000	184	0	N.D.			
65) Dibenzofuran	8.108	168	24557	6.23	ng		94
66) 4-Nitrophenol	8.091	109	2342	5.58	ng	#	59
67) 2,4-Dinitrotoluene	8.125	165	3912	4.49	ng	#	78
68) 2,3,4,6-Tetrachlorophenol	8.265	232	2450	4.41	ng	#	86
69) Diethyl phthalate	8.441	149	18574	5.73	ng		100
70) Fluorene	8.492	166	18855	5.75	ng		98
71) 4-Chlorophenyl phenyl ether	8.528	204	9300	6.30	ng		97
74) 4,6-Dinitro-2-methylphenol	8.574	198	1058	17.58	ng	#	1
75) Azobenzene	8.699	77	20291	6.32	ng		92
76) 1,2-Diphenylhydrazine	8.699	182	4238	5.63	ng	#	64
77) Diphenylamine	8.662	170	2593	5.18	ng	#	72
78) N-Nitrosodiphenylamine	8.662	168	14646	5.81	ng		98
79) 4-Bromophenyl phenyl ether	9.068	248	5369	6.09	ng		95
80) Phenacetin	9.037	108	7953	4.85	ng		95
81) Hexachlorobenzene	9.110	284	5143	6.13	ng		95
82) Atrazine	9.292	200	4755	5.55	ng	#	87
83) 4-Aminobiphenyl	9.354	169	18419	5.38	ng		97
84) Pentachlorophenol	9.343	266	1519	12.31	ng	#	57
85) Pentachloronitrobenzene	9.360	237	1773	5.05	ng		92
86) Pronamide	9.468	173	4761	4.77	ng	#	81
87) Phenanthrene	9.553	178	28714	5.89	ng		98
88) Anthracene	9.610	178	28815	5.90	ng		99
89) Carbazole	9.809	167	25815	5.88	ng		100
90) Di-n-butyl phthalate	10.277	149	28914	5.15	ng		99
91) Fluoranthene	10.870	202	29165	5.67	ng		97
93) Pyrene	11.111	202	29428	6.03	ng		98
95) Benzidine	11.057	184	13838	5.49	ng		98
96) p-Dimethylaminoazobenzene	11.506	225	4653	4.96	ng	#	84
97) Butyl benzyl phthalate	11.926	149	9995	4.52	ng		89
98) Benz(a)anthracene	12.448	228	24074	5.48	ng		98
99) 3,3'-Dichlorobenzidine	12.457	252	8719	5.61	ng		98
100) Chrysene	12.485	228	26015	6.07	ng		99
101) Bis(2-ethylhexyl)phthalate	12.601	149	12210	4.23	ng	#	94
102) Di-n-octyl phthalate	13.277	149	16948	11.00	ng	#	87
103) 3-Methylcholanthrene	14.196	268	7001	9.96	ng		95

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022810.D
Acq On : 28 Feb 2022 5:13 pm
Operator : YH
Sample : BNA 5 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 11:01:05 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 10:07:51 2022
Response via : Initial Calibration

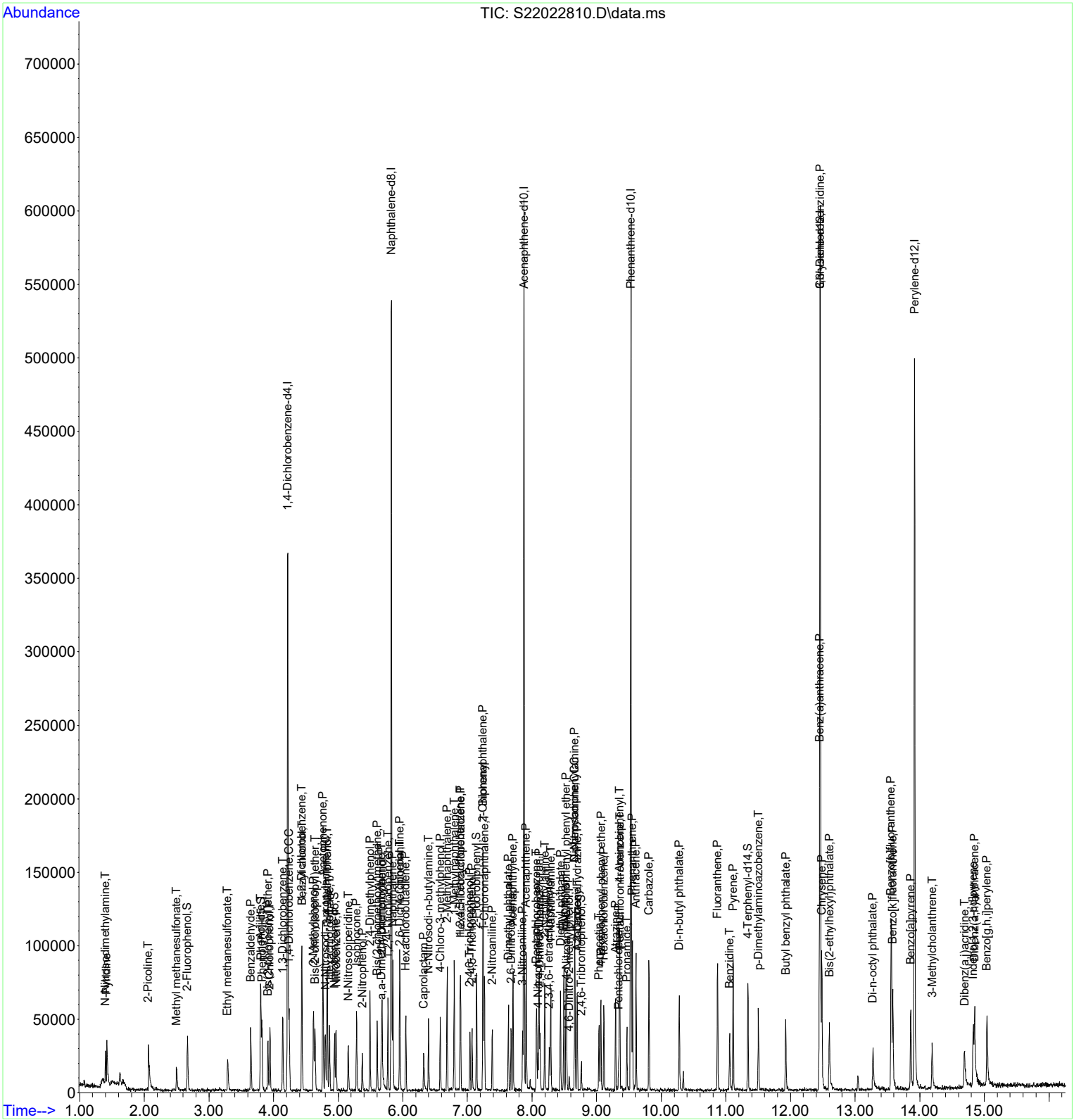
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene	13.555	252	22588	5.50	ng		96
106) Benzo[k]fluoranthene	13.583	252	20960	5.34	ng		95
107) Benzo[a]pyrene	13.862	252	18080	5.12	ng		95
108) Dibenz(a,j)acridine	14.693	279	8673	3.15	ng	#	91
109) Indeno[1,2,3-cd]pyrene	14.829	276	14692	3.56	ng		95
110) Dibenz(a,h)anthracene	14.849	278	15876	4.54	ng		89
111) Benzo[g,h,i]perylene	15.039	276	19404	5.40	ng		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022810.D
Acq On : 28 Feb 2022 5:13 pm
Operator : YH
Sample : BNA 5 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 11:01:05 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 10:07:51 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022811.D
Acq On : 28 Feb 2022 5:39 pm
Operator : YH
Sample : BNA 10 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 01 11:08:35 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:07:28 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.220	152	56440	40.00	ng		0.00
23) Naphthalene-d8	...	5.824	136	219702	40.00	ng		0.00
45) Acenaphthene-d10	...	7.876	164	111965	40.00	ng		0.00
73) Phenanthrene-d10	...	9.530	188	206766	40.00	ng		0.00
92) Chrysene-d12	...	12.459	240	166936	40.00	ng		0.00
104) Perylene-d12	...	13.921	264	160873	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.665	112	15984	8.96	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 8.96%#					
9) Phenol-d5	...	3.803	99	21886	9.53	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 9.53%#					
24) Nitrobenzene-d5	...	4.941	82	18474	9.70	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 19.40%#					
50) 2-Fluorobiphenyl	...	7.141	172	34617	10.07	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 20.14%#					
72) 2,4,6-Tribromophenol	...	8.764	330	3083	13.11	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 13.11%					
94) 4-Terphenyl-d14	...	11.338	244	37073	9.76	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 19.52%#					
Target Compounds								Qvalue
2) Pyridine	...	1.410	79	19001	8.78	ng		95
3) 2-Picoline	...	2.052	93	19676	8.97	ng		82
4) Methyl methanesulfonate	...	2.489	80	10322	9.46	ng		98
6) Ethyl methanesulfonate	...	3.286	79	14487	9.47	ng		94
7) Benzaldehyde	...	3.644	105	13552	9.47	ng		92
8) Aniline	...	3.797	66	12790	10.05	ng	#	84
10) Phenol	...	3.817	94	22992	9.52	ng		98
11) Bis(2-chloroethyl)ether	...	3.911	93	18942	9.93	ng		96
12) 2-Chlorophenol	...	3.942	128	17680	9.56	ng		93
13) 1,3-Dichlorobenzene	...	4.141	146	20264	9.78	ng		98
14) 1,4-Dichlorobenzene	...	4.243	146	20179	9.76	ng		98
15) 1,2-Dichlorobenzene	...	4.436	146	18825	9.62	ng		97
16) Benzyl alcohol	...	4.436	108	11818	9.71	ng	#	75
17) Bis(2-chloroisopropyl)ether	...	4.640	45	27440	9.72	ng	#	61
18) 2-Methylphenol	...	4.617	107	13153	9.04	ng	#	91
19) 3,4-Methylphenol	...	4.827	107	36732	18.52	ng		96
20) N-Nitrosodi-n-propylamine	...	4.799	70	12911	9.50	ng		91
21) N-Nitrosodimethylamine	...	1.390	42	10506	9.54	ng	#	85
22) Hexachloroethane	...	4.864	117	8005	10.01	ng		89
25) Acetophenone	...	4.762	105	48826	19.40	ng		94
26) Nitrobenzene	...	4.964	123	7871	9.17	ng	#	72
27) N-Nitrosopiperidine	...	5.151	114	7771	8.87	ng	#	68
28) Isophorone	...	5.282	82	33767	9.39	ng		98
29) 2-Nitrophenol	...	5.372	139	6481	8.41	ng		92
30) 2,4-Dimethylphenol	...	5.492	122	14423	9.36	ng		95
31) Bis(2-chloroethoxy)methane	...	5.602	93	21099	9.65	ng		98
32) 2,4-Dichlorophenol	...	5.679	162	11940	8.87	ng		94
33) 1,2,4-Trichlorobenzene	...	5.770	180	16017	10.05	ng		98
34) Naphthalene	...	5.846	128	51901	9.81	ng		98
35) Benzoic acid	...	5.611	105	1989	20.24	ng	#	43
36) 2,6-Dichlorophenol	...	5.954	162	12321	9.39	ng		98
37) 4-Chloroaniline	...	5.951	127	21149	9.73	ng		96
38) Hexachlorobutadiene	...	6.045	225	7950	9.54	ng		96
39) a,a-Dimethylphenethylamine	...	5.682	58	46535	8.68	ng		77
40) Caprolactam	...	6.326	113	5032	9.00	ng	#	47

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022811.D
Acq On : 28 Feb 2022 5:39 pm
Operator : YH
Sample : BNA 10 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 01 11:08:35 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:07:28 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.579	107	13010	8.81	ng		96
42) N-Nitrosodi-n-butylamine	6.397	84	11452	8.31	ng		89
43) 2-Methylnaphthalene	6.684	141	29221	9.60	ng		99
44) 1-Methylnaphthalene	6.794	141	28910	9.69	ng		99
46) 1,2,4,5-Tetrachlorobenzene	6.888	216	14814	10.31	ng		97
47) Hexachlorocyclopentadiene	6.896	237	7062	8.97	ng	#	94
48) 2,4,6-Trichlorophenol	7.041	196	6769	8.14	ng		89
49) 2,4,5-Trichlorophenol	7.072	196	8289	8.77	ng		92
51) Biphenyl	7.246	154	39465	9.94	ng	#	96
52) 2-Chloronaphthalene	7.240	162	29864	9.75	ng		95
53) 1-Chloronaphthalene	7.263	162	27737	10.18	ng		95
54) 2-Nitroaniline	7.382	65	9198	9.09	ng		87
55) 3-Nitroaniline	7.853	138	7787	8.66	ng		86
56) Pentachlorobenzene	8.069	250	11326	9.28	ng		96
57) 4-Nitroaniline	8.537	138	8491	9.23	ng	#	82
58) 2-Naphthylamine	8.196	143	31494	9.68	ng		99
59) 1-Naphthylamine	8.290	143	33340	9.93	ng		98
60) Dimethyl phthalate	7.634	163	31801	9.47	ng		98
61) Acenaphthylene	7.705	152	44256	9.60	ng		99
62) 2,6-Dinitrotoluene	7.677	165	6057	8.59	ng	#	77
63) Acenaphthene	7.910	154	27197	9.56	ng		95
64) 2,4-Dinitrophenol	7.972	184	1202	20.36	ng	#	49
65) Dibenzofuran	8.108	168	40382	9.62	ng		93
66) 4-Nitrophenol	8.091	109	2964	6.63	ng	#	84
67) 2,4-Dinitrotoluene	8.125	165	7534	8.11	ng	#	73
68) 2,3,4,6-Tetrachlorophenol	8.267	232	4411	7.45	ng		93
69) Diethyl phthalate	8.443	149	31824	9.20	ng		98
70) Fluorene	8.494	166	33768	9.66	ng		98
71) 4-Chlorophenyl phenyl ether	8.528	204	15438	9.81	ng		95
74) 4,6-Dinitro-2-methylphenol	8.574	198	1904	19.20	ng	#	70
75) Azobenzene	8.699	77	34505	9.81	ng		93
76) 1,2-Diphenylhydrazine	8.699	182	7773	9.43	ng	#	79
77) Diphenylamine	8.662	170	5252	9.57	ng	#	94
78) N-Nitrosodiphenylamine	8.662	168	27161	9.83	ng		96
79) 4-Bromophenyl phenyl ether	9.065	248	9202	9.53	ng		93
80) Phenacetin	9.037	108	14392	8.01	ng		97
81) Hexachlorobenzene	9.110	284	8831	9.60	ng		98
82) Atrazine	9.292	200	8114	8.64	ng	#	88
83) 4-Aminobiphenyl	9.354	169	35786	9.54	ng		99
84) Pentachlorophenol	9.343	266	3078	14.83	ng		97
85) Pentachloronitrobenzene	9.357	237	3154	8.20	ng		92
86) Pronamide	9.468	173	9407	8.60	ng	#	94
87) Phenanthrene	9.553	178	52196	9.77	ng		97
88) Anthracene	9.610	178	49141	9.18	ng		97
89) Carbazole	9.809	167	43764	9.09	ng		96
90) Di-n-butyl phthalate	10.277	149	52615	8.55	ng		98
91) Fluoranthene	10.870	202	50600	8.98	ng		98
93) Pyrene	11.111	202	50918	9.70	ng		99
95) Benzidine	11.057	184	24236	8.94	ng		99
96) p-Dimethylaminoazobenzene	11.503	225	8352	8.27	ng	#	86
97) Butyl benzyl phthalate	11.926	149	19933	8.37	ng		89
98) Benz(a)anthracene	12.448	228	43945	9.30	ng		99
99) 3,3'-Dichlorobenzidine	12.457	252	14672	8.78	ng		96
100) Chrysene	12.485	228	46257	10.03	ng		99
101) Bis(2-ethylhexyl)phthalate	12.601	149	23855	7.68	ng		95
102) Di-n-octyl phthalate	13.277	149	40128	7.75	ng		95
103) 3-Methylcholanthrene	14.196	268	11954	12.48	ng		97

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022811.D
Acq On : 28 Feb 2022 5:39 pm
Operator : YH
Sample : BNA 10 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 01 11:08:35 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:07:28 2022
Response via : Initial Calibration

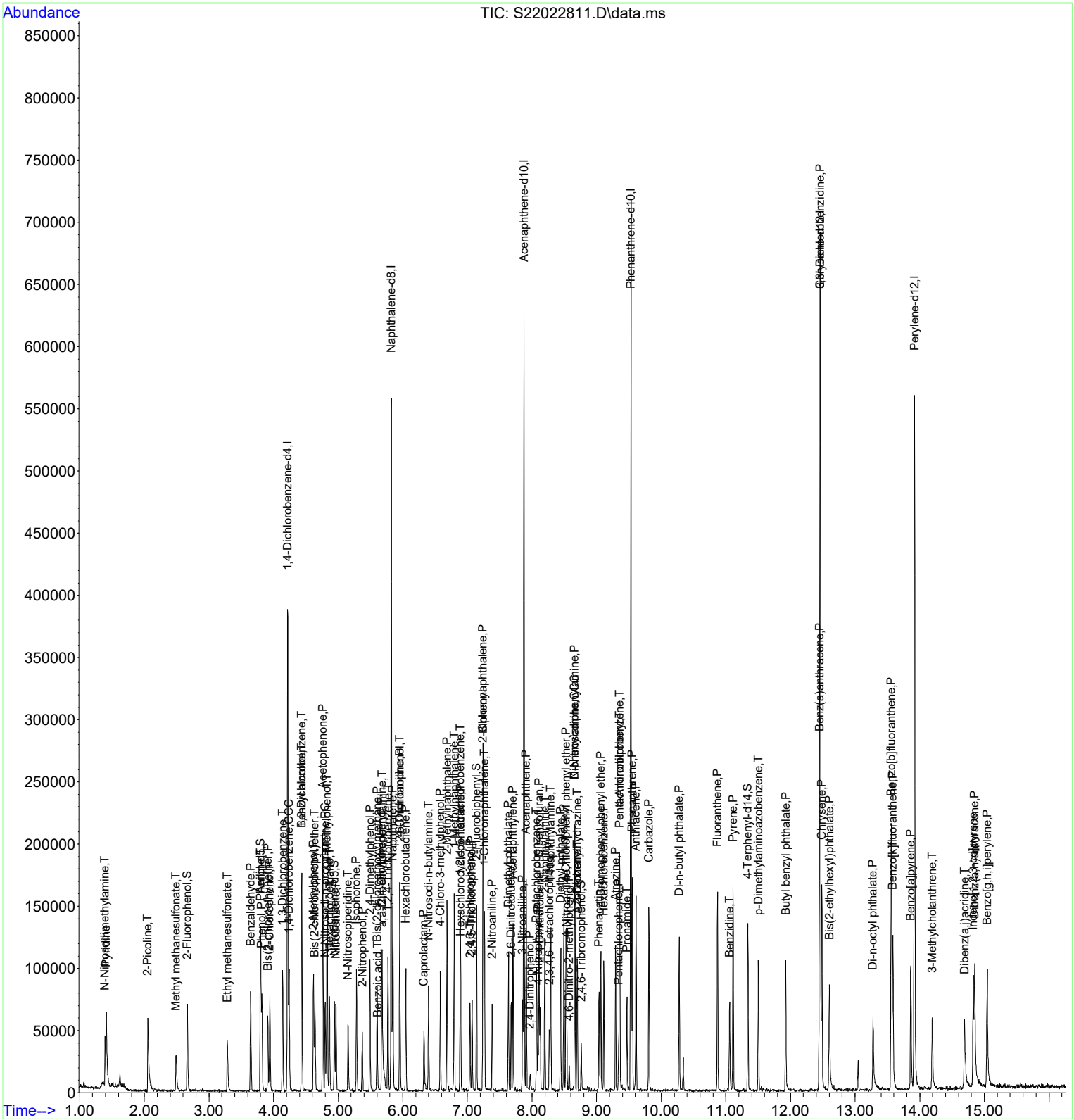
Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene	...	13.558	252	37991	8.38	ng		95
106) Benzo[k]fluoranthene	...	13.583	252	42924	9.90	ng		98
107) Benzo[a]pyrene	...	13.862	252	34415	8.83	ng		97
108) Dibenz(a,j)acridine	...	14.693	279	21920	7.08	ng		97
109) Indeno[1,2,3-cd]pyrene	...	14.829	276	41896	9.20	ng	#	87
110) Dibenz(a,h)anthracene	...	14.849	278	31195	8.08	ng		93
111) Benzo[g,h,i]perylene	...	15.045	276	36128	9.11	ng		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022811.D
Acq On : 28 Feb 2022 5:39 pm
Operator : YH
Sample : BNA 10 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 01 11:08:35 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:07:28 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022812.D
Acq On : 28 Feb 2022 6:05 pm
Operator : YH
Sample : BNA20 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 01 11:13:31 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:11:28 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.217	152	53584	40.00	ng		0.00
23) Naphthalene-d8	...	5.821	136	209674	40.00	ng		0.00
45) Acenaphthene-d10	...	7.876	164	106723	40.00	ng		0.00
73) Phenanthrene-d10	...	9.531	188	194350	40.00	ng		0.00
92) Chrysene-d12	...	12.460	240	169482	40.00	ng		0.00
104) Perylene-d12	...	13.919	264	156421	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.665	112	33482	19.77	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 19.77%#					
9) Phenol-d5	...	3.803	99	43369	19.88	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 19.88%					
24) Nitrobenzene-d5	...	4.941	82	37031	20.38	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 40.76%					
50) 2-Fluorobiphenyl	...	7.144	172	66079	20.18	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 40.36%#					
72) 2,4,6-Tribromophenol	...	8.761	330	5754	21.26	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 21.26%					
94) 4-Terphenyl-d14	...	11.341	244	75690	19.63	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 39.26%					
Target Compounds								Qvalue
2) Pyridine	...	1.408	79	40761	19.83	ng		99
3) 2-Picoline	...	2.049	93	39869	19.16	ng		98
4) Methyl methanesulfonate	...	2.486	80	20531	19.81	ng		97
6) Ethyl methanesulfonate	...	3.281	79	30329	20.89	ng		91
7) Benzaldehyde	...	3.644	105	27504	20.24	ng		97
8) Aniline	...	3.797	66	24151	20.00	ng	#	85
10) Phenol	...	3.820	94	46950	20.47	ng		98
11) Bis(2-chloroethyl)ether	...	3.911	93	36563	20.18	ng		96
12) 2-Chlorophenol	...	3.942	128	34182	19.48	ng		96
13) 1,3-Dichlorobenzene	...	4.141	146	38816	19.73	ng		99
14) 1,4-Dichlorobenzene	...	4.240	146	39600	20.17	ng		99
15) 1,2-Dichlorobenzene	...	4.436	146	36505	19.65	ng		98
16) Benzyl alcohol	...	4.436	108	22724	19.66	ng	#	77
17) Bis(2-chloroisopropyl)ether	...	4.640	45	53748	20.06	ng	#	58
18) 2-Methylphenol	...	4.620	107	26650	19.28	ng		89
19) 3,4-Methylphenol	...	4.828	107	72836	38.68	ng		96
20) N-Nitrosodi-n-propylamine	...	4.799	70	26715	20.70	ng		94
21) N-Nitrosodimethylamine	...	1.388	42	21070	20.14	ng		87
22) Hexachloroethane	...	4.865	117	15607	20.56	ng		98
25) Acetophenone	...	4.762	105	95226	39.65	ng		95
26) Nitrobenzene	...	4.967	123	16255	19.84	ng	#	78
27) N-Nitrosopiperidine	...	5.154	114	17157	20.53	ng	#	79
28) Isophorone	...	5.285	82	68646	20.00	ng		96
29) 2-Nitrophenol	...	5.370	139	12851	17.47	ng		84
30) 2,4-Dimethylphenol	...	5.492	122	29566	20.09	ng		98
31) Bis(2-chloroethoxy)methane	...	5.602	93	40991	19.64	ng		99
32) 2,4-Dichlorophenol	...	5.679	162	26075	20.31	ng		97
33) 1,2,4-Trichlorobenzene	...	5.770	180	30036	19.74	ng		98
34) Naphthalene	...	5.847	128	104910	20.77	ng		100
35) Benzoic acid	...	5.608	105	7559	25.24	ng		88
36) 2,6-Dichlorophenol	...	5.954	162	24575	19.62	ng		97
37) 4-Chloroaniline	...	5.952	127	41492	20.01	ng		97
38) Hexachlorobutadiene	...	6.045	225	16036	20.16	ng		95
39) a,a-Dimethylphenethylamine	...	5.713	58	98767	19.30	ng		81
40) Caprolactam	...	6.338	113	10530	19.74	ng	#	51

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022812.D
Acq On : 28 Feb 2022 6:05 pm
Operator : YH
Sample : BNA20 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 01 11:13:31 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:11:28 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.582	107	28077	19.91	ng		95
42) N-Nitrosodi-n-butylamine	6.400	84	23660	17.98	ng		89
43) 2-Methylnaphthalene	6.687	141	58068	19.99	ng		96
44) 1-Methylnaphthalene	6.795	141	57003	20.01	ng		100
46) 1,2,4,5-Tetrachlorobenzene	6.888	216	27822	20.31	ng		99
47) Hexachlorocyclopentadiene	6.894	237	14030	18.69	ng		96
48) 2,4,6-Trichlorophenol	7.039	196	14727	18.57	ng		96
49) 2,4,5-Trichlorophenol	7.073	196	17230	19.12	ng		96
51) Biphenyl	7.243	154	80423	21.25	ng	#	96
52) 2-Chloronaphthalene	7.240	162	60511	20.72	ng		97
53) 1-Chloronaphthalene	7.263	162	56364	21.71	ng		95
54) 2-Nitroaniline	7.385	65	18630	19.31	ng		92
55) 3-Nitroaniline	7.856	138	16539	19.30	ng		89
56) Pentachlorobenzene	8.072	250	23550	20.24	ng		98
57) 4-Nitroaniline	8.540	138	17357	19.79	ng	#	80
58) 2-Naphthylamine	8.197	143	64369	20.76	ng		99
59) 1-Naphthylamine	8.290	143	65340	20.42	ng		98
60) Dimethyl phthalate	7.635	163	66039	20.63	ng		97
61) Acenaphthylene	7.706	152	88463	20.12	ng		98
62) 2,6-Dinitrotoluene	7.677	165	12812	19.07	ng	#	80
63) Acenaphthene	7.910	154	56364	20.79	ng		100
64) 2,4-Dinitrophenol	7.972	184	2644	25.88	ng	#	63
65) Dibenzofuran	8.109	168	84709	21.16	ng		98
66) 4-Nitrophenol	8.092	109	7415	17.39	ng		97
67) 2,4-Dinitrotoluene	8.129	165	16640	18.78	ng	#	77
68) 2,3,4,6-Tetrachlorophenol	8.270	232	10689	18.93	ng		98
69) Diethyl phthalate	8.444	149	67283	20.41	ng		99
70) Fluorene	8.495	166	67241	20.19	ng		98
71) 4-Chlorophenyl phenyl ether	8.526	204	30473	20.31	ng		98
74) 4,6-Dinitro-2-methylphenol	8.577	198	4468	25.36	ng	#	67
75) Azobenzene	8.699	77	67808	20.51	ng		92
76) 1,2-Diphenylhydrazine	8.699	182	15262	19.70	ng	#	79
77) Diphenylamine	8.662	170	9833	19.07	ng	#	80
78) N-Nitrosodiphenylamine	8.662	168	53362	20.54	ng		98
79) 4-Bromophenyl phenyl ether	9.065	248	18306	20.17	ng		98
80) Phenacetin	9.040	108	32566	19.28	ng		99
81) Hexachlorobenzene	9.111	284	17517	20.27	ng		97
82) Atrazine	9.295	200	17898	20.28	ng		92
83) 4-Aminobiphenyl	9.355	169	70695	20.04	ng		99
84) Pentachlorophenol	9.343	266	6715	22.08	ng		90
85) Pentachloronitrobenzene	9.360	237	7695	21.27	ng		95
86) Pronamide	9.468	173	19733	19.19	ng	#	94
87) Phenanthrene	9.553	178	100566	20.03	ng		99
88) Anthracene	9.610	178	102219	20.31	ng		99
89) Carbazole	9.809	167	90343	19.97	ng		98
90) Di-n-butyl phthalate	10.280	149	112093	19.38	ng		98
91) Fluoranthene	10.873	202	103393	19.51	ng		99
93) Pyrene	11.114	202	107395	20.14	ng		99
95) Benzidine	11.058	184	50760	18.43	ng		97
96) p-Dimethylaminoazobenzene	11.506	225	19222	18.75	ng	#	89
97) Butyl benzyl phthalate	11.926	149	44343	18.34	ng		93
98) Benz(a)anthracene	12.451	228	91976	19.18	ng		98
99) 3,3'-Dichlorobenzidine	12.457	252	31525	18.58	ng		99
100) Chrysene	12.485	228	95333	20.37	ng		100
101) Bis(2-ethylhexyl)phthalate	12.602	149	57251	18.16	ng		95
102) Di-n-octyl phthalate	13.280	149	83512	15.85	ng		93
103) 3-Methylcholanthrene	14.194	268	26167	20.35	ng		99

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022812.D
Acq On : 28 Feb 2022 6:05 pm
Operator : YH
Sample : BNA20 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 01 11:13:31 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:11:28 2022
Response via : Initial Calibration

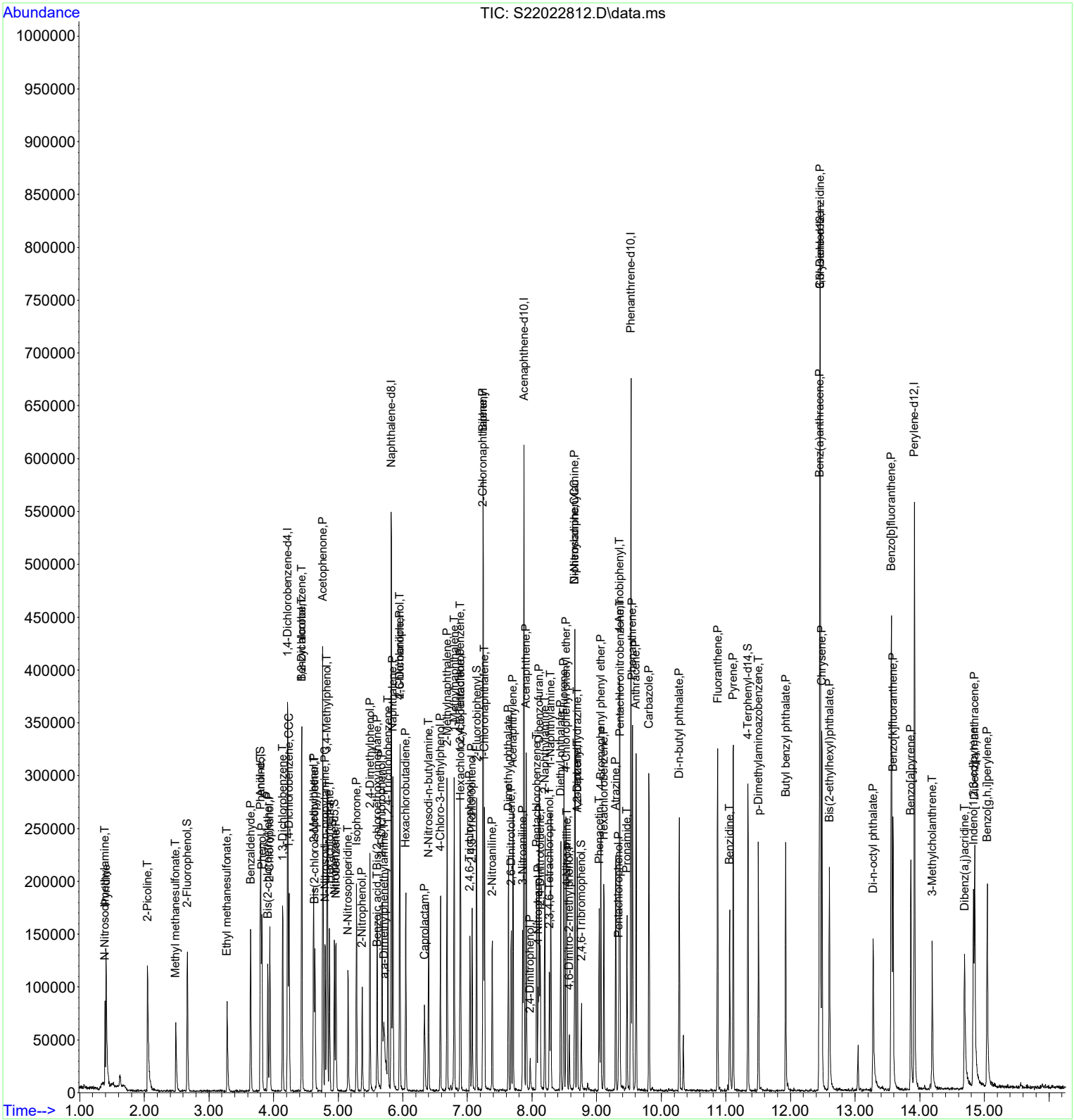
Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
105) Benzo[b]fluoranthene	...	13.561	252	84083	19.09	ng	95
106) Benzo[k]fluoranthene	...	13.586	252	83936	19.92	ng	97
107) Benzo[a]pyrene	...	13.862	252	72993	19.27	ng	100
108) Dibenz(a,j)acridine	...	14.693	279	50155	16.96	ng	97
109) Indeno[1,2,3-cd]pyrene	...	14.832	276	92779	20.95	ng	99
110) Dibenz(a,h)anthracene	...	14.852	278	70758	18.85	ng	99
111) Benzo[g,h,i]perylene	...	15.042	276	72183	18.71	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022812.D
Acq On : 28 Feb 2022 6:05 pm
Operator : YH
Sample : BNA20 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 01 11:13:31 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:11:28 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022813.D
Acq On : 28 Feb 2022 6:30 pm
Operator : YH
Sample : BNA 40 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 01 11:15:52 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:14:46 2022
Response via : Initial Calibration

Internal Standards			R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4		...	4.217	152	53287	40.00	ng		0.00
23) Naphthalene-d8		...	5.824	136	211769	40.00	ng		0.00
45) Acenaphthene-d10		...	7.876	164	108780	40.00	ng		0.00
73) Phenanthrene-d10		...	9.531	188	196014	40.00	ng		0.00
92) Chrysene-d12		...	12.460	240	175544	40.00	ng		0.00
104) Perylene-d12		...	13.921	264	160534	40.00	ng		0.00
System Monitoring Compounds									
5) 2-Fluorophenol		...	2.665	112	64664	38.40	ng		0.00
Spiked Amount	100.000	Range	21 - 119		Recovery =	38.40%			
9) Phenol-d5		...	3.806	99	86677	39.96	ng		0.00
Spiked Amount	100.000	Range	10 - 121		Recovery =	39.96%			
24) Nitrobenzene-d5		...	4.944	82	72027	39.24	ng		0.00
Spiked Amount	50.000	Range	34 - 114		Recovery =	78.48%			
50) 2-Fluorobiphenyl		...	7.144	172	134895	40.41	ng		0.00
Spiked Amount	50.000	Range	43 - 116		Recovery =	80.82%			
72) 2,4,6-Tribromophenol		...	8.764	330	11883	38.35	ng		0.00
Spiked Amount	100.000	Range	10 - 123		Recovery =	38.35%			
94) 4-Terphenyl-d14		...	11.341	244	152138	38.10	ng		0.00
Spiked Amount	50.000	Range	33 - 141		Recovery =	76.20%			
Target Compounds									Qvalue
2) Pyridine		...	1.402	79	80421	39.34	ng		98
3) 2-Picoline		...	2.043	93	81695	39.47	ng		99
4) Methyl methanesulfonate		...	2.483	80	40967	39.75	ng		99
6) Ethyl methanesulfonate		...	3.278	79	56252	38.96	ng		95
7) Benzaldehyde		...	3.644	105	53798	39.81	ng		96
8) Aniline		...	3.794	66	46963	39.10	ng	#	88
10) Phenol		...	3.823	94	90531	39.69	ng		99
11) Bis(2-chloroethyl)ether		...	3.911	93	69892	38.79	ng		92
12) 2-Chlorophenol		...	3.942	128	69306	39.71	ng		95
13) 1,3-Dichlorobenzene		...	4.141	146	78732	40.24	ng		99
14) 1,4-Dichlorobenzene		...	4.240	146	78173	40.04	ng		98
15) 1,2-Dichlorobenzene		...	4.436	146	73163	39.59	ng		99
16) Benzyl alcohol		...	4.436	108	44970	39.13	ng	#	76
17) Bis(2-chloroisopropyl)ether		...	4.640	45	107185	40.23	ng		78
18) 2-Methylphenol		...	4.620	107	53634	39.03	ng	#	89
19) 3,4-Methylphenol		...	4.833	107	147060	78.53	ng		97
20) N-Nitrosodi-n-propylamine		...	4.799	70	52027	40.54	ng		98
21) N-Nitrosodimethylamine		...	1.385	42	41356	39.76	ng	#	83
22) Hexachloroethane		...	4.864	117	29281	38.79	ng		99
25) Acetophenone		...	4.765	105	189039	77.93	ng		95
26) Nitrobenzene		...	4.967	123	32488	39.27	ng	#	84
27) N-Nitrosopiperidine		...	5.154	114	33285	39.43	ng	#	84
28) Isophorone		...	5.284	82	136364	39.35	ng		97
29) 2-Nitrophenol		...	5.372	139	27383	36.85	ng		88
30) 2,4-Dimethylphenol		...	5.495	122	58615	39.44	ng		97
31) Bis(2-chloroethoxy)methane		...	5.602	93	83283	39.50	ng		97
32) 2,4-Dichlorophenol		...	5.679	162	51363	39.61	ng		96
33) 1,2,4-Trichlorobenzene		...	5.770	180	59505	38.72	ng		98
34) Naphthalene		...	5.846	128	199560	39.11	ng		100
35) Benzoic acid		...	5.634	105	22156	38.01	ng		75
36) 2,6-Dichlorophenol		...	5.954	162	49194	38.88	ng		97
37) 4-Chloroaniline		...	5.951	127	82467	39.38	ng		97
38) Hexachlorobutadiene		...	6.045	225	31407	39.09	ng		97
39) a,a-Dimethylphenethylamine		...	5.733	58	206369	39.93	ng		75
40) Caprolactam		...	6.354	113	21012	39.01	ng	#	55

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022813.D
Acq On : 28 Feb 2022 6:30 pm
Operator : YH
Sample : BNA 40 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 01 11:15:52 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:14:46 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.584	107	55730	39.13	ng		94
42) N-Nitrosodi-n-butylamine	6.400	84	46203	34.77	ng		93
43) 2-Methylnaphthalene	6.687	141	117415	40.01	ng		96
44) 1-Methylnaphthalene	6.797	141	111573	38.78	ng		98
46) 1,2,4,5-Tetrachlorobenzene	6.888	216	53728	38.49	ng		99
47) Hexachlorocyclopentadiene	6.894	237	29860	39.04	ng		98
48) 2,4,6-Trichlorophenol	7.041	196	32020	39.61	ng		100
49) 2,4,5-Trichlorophenol	7.075	196	36758	40.02	ng		96
51) Biphenyl	7.246	154	156613	40.60	ng		97
52) 2-Chloronaphthalene	7.243	162	119675	40.21	ng		97
53) 1-Chloronaphthalene	7.266	162	106318	40.17	ng		97
54) 2-Nitroaniline	7.385	65	39069	39.73	ng		92
55) 3-Nitroaniline	7.859	138	33858	38.77	ng		85
56) Pentachlorobenzene	8.072	250	47912	40.40	ng		95
57) 4-Nitroaniline	8.546	138	35189	39.35	ng	#	81
58) 2-Naphthylamine	8.199	143	124285	39.32	ng		99
59) 1-Naphthylamine	8.293	143	131698	40.38	ng		98
60) Dimethyl phthalate	7.637	163	129201	39.60	ng		100
61) Acenaphthylene	7.705	152	178553	39.85	ng		100
62) 2,6-Dinitrotoluene	7.680	165	26133	38.16	ng	#	78
63) Acenaphthene	7.910	154	110300	39.91	ng		98
64) 2,4-Dinitrophenol	7.972	184	6426	39.35	ng		84
65) Dibenzofuran	8.111	168	160861	39.43	ng		70
66) 4-Nitrophenol	8.097	109	17102	39.36	ng	#	1
67) 2,4-Dinitrotoluene	8.128	165	35070	38.84	ng		88
68) 2,3,4,6-Tetrachlorophenol	8.270	232	22410	38.93	ng		98
69) Diethyl phthalate	8.446	149	132467	39.43	ng		98
70) Fluorene	8.495	166	135267	39.85	ng		100
71) 4-Chlorophenyl phenyl ether	8.526	204	60902	39.82	ng		97
74) 4,6-Dinitro-2-methylphenol	8.580	198	10390	38.80	ng	#	76
75) Azobenzene	8.699	77	133074	39.92	ng		94
76) 1,2-Diphenylhydrazine	8.702	182	32057	41.03	ng	#	91
77) Diphenylamine	8.665	170	20992	40.37	ng		97
78) N-Nitrosodiphenylamine	8.665	168	104172	39.76	ng		99
79) 4-Bromophenyl phenyl ether	9.065	248	36201	39.55	ng		97
80) Phenacetin	9.045	108	66480	39.03	ng		97
81) Hexachlorobenzene	9.113	284	35071	40.23	ng		99
82) Atrazine	9.298	200	36066	40.52	ng		93
83) 4-Aminobiphenyl	9.357	169	144517	40.62	ng		99
84) Pentachlorophenol	9.346	266	14889	37.34	ng		94
85) Pentachloronitrobenzene	9.360	237	14464	39.65	ng		89
86) Pronamide	9.471	173	41372	39.89	ng		92
87) Phenanthrene	9.556	178	203065	40.09	ng		99
88) Anthracene	9.613	178	204057	40.20	ng		99
89) Carbazole	9.811	167	184899	40.52	ng		98
90) Di-n-butyl phthalate	10.277	149	235376	40.34	ng		99
91) Fluoranthene	10.873	202	214782	40.19	ng		99
93) Pyrene	11.111	202	216440	39.20	ng		99
95) Benzidine	11.057	184	109301	38.32	ng		99
96) p-Dimethylaminoazobenzene	11.503	225	41132	38.74	ng	#	91
97) Butyl benzyl phthalate	11.926	149	95742	38.23	ng		92
98) Benz(a)anthracene	12.448	228	190319	38.31	ng		100
99) 3,3'-Dichlorobenzidine	12.460	252	69823	39.73	ng		96
100) Chrysene	12.488	228	186821	38.53	ng		100
101) Bis(2-ethylhexyl)phthalate	12.601	149	130316	39.92	ng		94
102) Di-n-octyl phthalate	13.280	149	198973	36.45	ng		94
103) 3-Methylcholanthrene	14.194	268	61248	38.84	ng		95

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022813.D
Acq On : 28 Feb 2022 6:30 pm
Operator : YH
Sample : BNA 40 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 01 11:15:52 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:14:46 2022
Response via : Initial Calibration

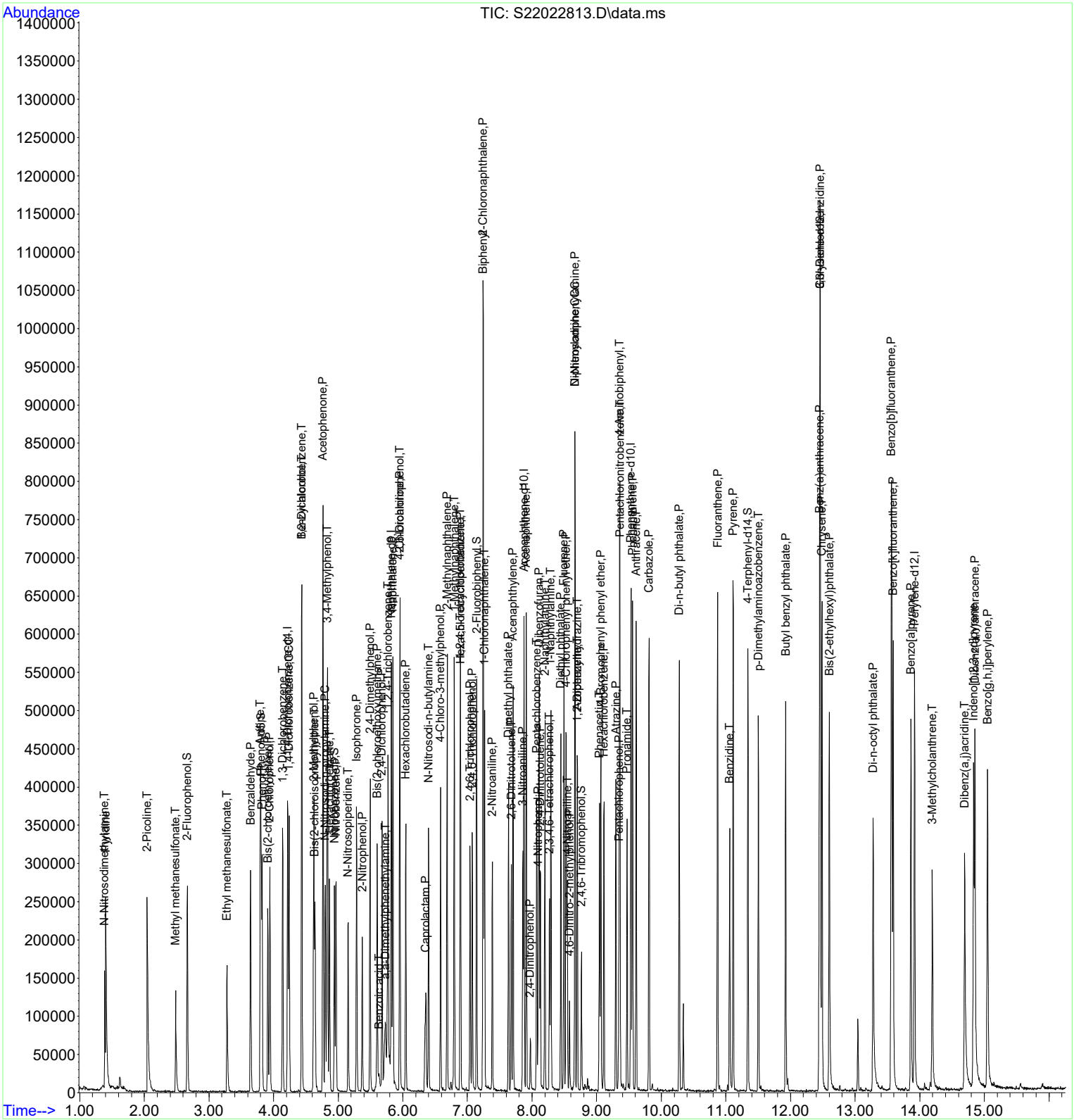
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene	... 13.561	252	177673	39.30	ng		98
106) Benzo[k]fluoranthene	... 13.589	252	181103	41.88	ng		97
107) Benzo[a]pyrene	... 13.865	252	152987	39.35	ng		98
108) Dibenz(a,j)acridine	... 14.696	279	123154	40.58	ng		97
109) Indeno[1,2,3-cd]pyrene	... 14.832	276	185271	38.83	ng	#	91
110) Dibenz(a,h)anthracene	... 14.855	278	154687	40.15	ng		98
111) Benzo[g,h,i]perylene	... 15.051	276	157793	39.85	ng		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022813.D
Acq On : 28 Feb 2022 6:30 pm
Operator : YH
Sample : BNA 40 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 01 11:15:52 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:14:46 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022814.D
Acq On : 28 Feb 2022 6:56 pm
Operator : YH
Sample : BNA 60 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 01 11:18:53 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:17:26 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.217	152	54145	40.00	ng		0.00
23) Naphthalene-d8	...	5.824	136	215931	40.00	ng		0.00
45) Acenaphthene-d10	...	7.876	164	114118	40.00	ng		0.00
73) Phenanthrene-d10	...	9.530	188	211819	40.00	ng		0.00
92) Chrysene-d12	...	12.462	240	183604	40.00	ng		0.00
104) Perylene-d12	...	13.921	264	174807	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.668	112	105973	61.94	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 61.94%					
9) Phenol-d5	...	3.809	99	134497	61.02	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 61.02%					
24) Nitrobenzene-d5	...	4.944	82	112021	59.86	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 119.72%#					
50) 2-Fluorobiphenyl	...	7.143	172	210714	60.17	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 120.34%#					
72) 2,4,6-Tribromophenol	...	8.767	330	20452	59.96	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 59.96%					
94) 4-Terphenyl-d14	...	11.341	244	253479	60.69	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 121.38%					
Target Compounds								Qvalue
2) Pyridine	...	1.402	79	128664	61.94	ng		99
3) 2-Picoline	...	2.043	93	130981	62.28	ng		99
4) Methyl methanesulfonate	...	2.483	80	63213	60.37	ng		95
6) Ethyl methanesulfonate	...	3.278	79	87120	59.39	ng		95
7) Benzaldehyde	...	3.644	105	85500	62.27	ng		96
8) Aniline	...	3.797	66	75278	61.68	ng	#	88
10) Phenol	...	3.826	94	141443	61.02	ng		97
11) Bis(2-chloroethyl)ether	...	3.914	93	108967	59.52	ng		94
12) 2-Chlorophenol	...	3.942	128	109320	61.65	ng		95
13) 1,3-Dichlorobenzene	...	4.141	146	119596	60.15	ng		98
14) 1,4-Dichlorobenzene	...	4.240	146	120731	60.86	ng		98
15) 1,2-Dichlorobenzene	...	4.436	146	114697	61.08	ng		97
16) Benzyl alcohol	...	4.439	108	71370	61.11	ng	#	74
17) Bis(2-chloroisopropyl)ether	...	4.640	45	167815	61.99	ng		81
18) 2-Methylphenol	...	4.626	107	86356	61.84	ng		91
19) 3,4-Methylphenol	...	4.839	107	226907	119.25	ng		96
20) N-Nitrosodi-n-propylamine	...	4.802	70	79245	60.77	ng		95
21) N-Nitrosodimethylamine	...	1.387	42	64068	60.61	ng		86
22) Hexachloroethane	...	4.864	117	46928	61.18	ng		99
25) Acetophenone	...	4.768	105	294859	119.20	ng		95
26) Nitrobenzene	...	4.966	123	52022	61.67	ng	#	83
27) N-Nitrosopiperidine	...	5.157	114	52924	61.48	ng	#	84
28) Isophorone	...	5.284	82	216775	61.34	ng		98
29) 2-Nitrophenol	...	5.372	139	47729	63.00	ng		93
30) 2,4-Dimethylphenol	...	5.494	122	92681	61.16	ng		99
31) Bis(2-chloroethoxy)methane	...	5.605	93	130912	60.89	ng		99
32) 2,4-Dichlorophenol	...	5.682	162	82279	62.23	ng		98
33) 1,2,4-Trichlorobenzene	...	5.773	180	95341	60.85	ng		99
34) Naphthalene	...	5.846	128	318374	61.20	ng		99
35) Benzoic acid	...	5.645	105	44407	56.77	ng		88
36) 2,6-Dichlorophenol	...	5.957	162	79012	61.24	ng		98
37) 4-Chloroaniline	...	5.954	127	130816	61.26	ng		96
38) Hexachlorobutadiene	...	6.048	225	50390	61.51	ng		99
39) a,a-Dimethylphenethylamine	...	5.747	58	327679	62.24	ng		80
40) Caprolactam	...	6.377	113	33419	60.85	ng	#	57

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022814.D
Acq On : 28 Feb 2022 6:56 pm
Operator : YH
Sample : BNA 60 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 01 11:18:53 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:17:26 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.587	107	89783	61.83	ng		96
42) N-Nitrosodi-n-butylamine	6.403	84	75506	55.73	ng		93
43) 2-Methylnaphthalene	6.686	141	181223	60.57	ng		100
44) 1-Methylnaphthalene	6.797	141	181114	61.74	ng		100
46) 1,2,4,5-Tetrachlorobenzene	6.888	216	89145	60.87	ng		98
47) Hexachlorocyclopentadiene	6.897	237	49060	61.14	ng		98
48) 2,4,6-Trichlorophenol	7.041	196	53960	63.63	ng		99
49) 2,4,5-Trichlorophenol	7.078	196	59798	62.05	ng		96
51) Biphenyl	7.246	154	243085	60.07	ng		97
52) 2-Chloronaphthalene	7.243	162	184844	59.20	ng		97
53) 1-Chloronaphthalene	7.265	162	168514	60.70	ng		97
54) 2-Nitroaniline	7.388	65	63551	61.61	ng		92
55) 3-Nitroaniline	7.859	138	56620	61.79	ng		92
56) Pentachlorobenzene	8.072	250	75015	60.30	ng		97
57) 4-Nitroaniline	8.548	138	57196	60.97	ng	#	83
58) 2-Naphthylamine	8.202	143	203009	61.22	ng		99
59) 1-Naphthylamine	8.296	143	210129	61.41	ng		99
60) Dimethyl phthalate	7.637	163	205040	59.91	ng		100
61) Acenaphthylene	7.708	152	287690	61.20	ng		100
62) 2,6-Dinitrotoluene	7.683	165	44102	61.39	ng	#	77
63) Acenaphthene	7.913	154	177617	61.26	ng		98
64) 2,4-Dinitrophenol	7.978	184	11146	54.51	ng	#	77
65) Dibenzofuran	8.111	168	256577	59.95	ng		69
66) 4-Nitrophenol	8.100	109	30887	67.75	ng	#	1
67) 2,4-Dinitrotoluene	8.134	165	59229	62.52	ng		89
68) 2,3,4,6-Tetrachlorophenol	8.273	232	37015	61.30	ng		97
69) Diethyl phthalate	8.449	149	217433	61.70	ng		99
70) Fluorene	8.497	166	219342	61.59	ng		100
71) 4-Chlorophenyl phenyl ether	8.528	204	98206	61.21	ng		100
74) 4,6-Dinitro-2-methylphenol	8.585	198	20173	57.70	ng		86
75) Azobenzene	8.702	77	217788	60.45	ng		94
76) 1,2-Diphenylhydrazine	8.702	182	51953	61.53	ng	#	90
77) Diphenylamine	8.668	170	34870	62.05	ng		99
78) N-Nitrosodiphenylamine	8.668	168	169362	59.81	ng		100
79) 4-Bromophenyl phenyl ether	9.068	248	58039	58.67	ng		95
80) Phenacetin	9.051	108	115065	62.52	ng		99
81) Hexachlorobenzene	9.113	284	56607	60.10	ng		99
82) Atrazine	9.303	200	59679	62.04	ng		96
83) 4-Aminobiphenyl	9.357	169	231614	60.24	ng		99
84) Pentachlorophenol	9.349	266	26538	55.52	ng		96
85) Pentachloronitrobenzene	9.363	237	24670	62.58	ng		95
86) Pronamide	9.474	173	67608	60.32	ng		93
87) Phenanthrene	9.559	178	330155	60.32	ng		99
88) Anthracene	9.613	178	332357	60.59	ng		98
89) Carbazole	9.814	167	296693	60.17	ng		98
90) Di-n-butyl phthalate	10.280	149	380410	60.34	ng		99
91) Fluoranthene	10.873	202	343878	59.55	ng		99
93) Pyrene	11.114	202	348721	60.38	ng		99
95) Benzidine	11.060	184	184211	61.75	ng		99
96) p-Dimethylaminoazobenzene	11.506	225	71462	64.35	ng	#	87
97) Butyl benzyl phthalate	11.926	149	160914	61.43	ng		93
98) Benz(a)anthracene	12.451	228	315843	60.79	ng		99
99) 3,3'-Dichlorobenzidine	12.459	252	113929	61.98	ng		98
100) Chrysene	12.491	228	306753	60.49	ng		99
101) Bis(2-ethylhexyl)phthalate	12.601	149	220327	64.52	ng		94
102) Di-n-octyl phthalate	13.280	149	364008	63.76	ng		94
103) 3-Methylcholanthrene	14.196	268	103691	59.36	ng		95

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022814.D
Acq On : 28 Feb 2022 6:56 pm
Operator : YH
Sample : BNA 60 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 01 11:18:53 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:17:26 2022
Response via : Initial Calibration

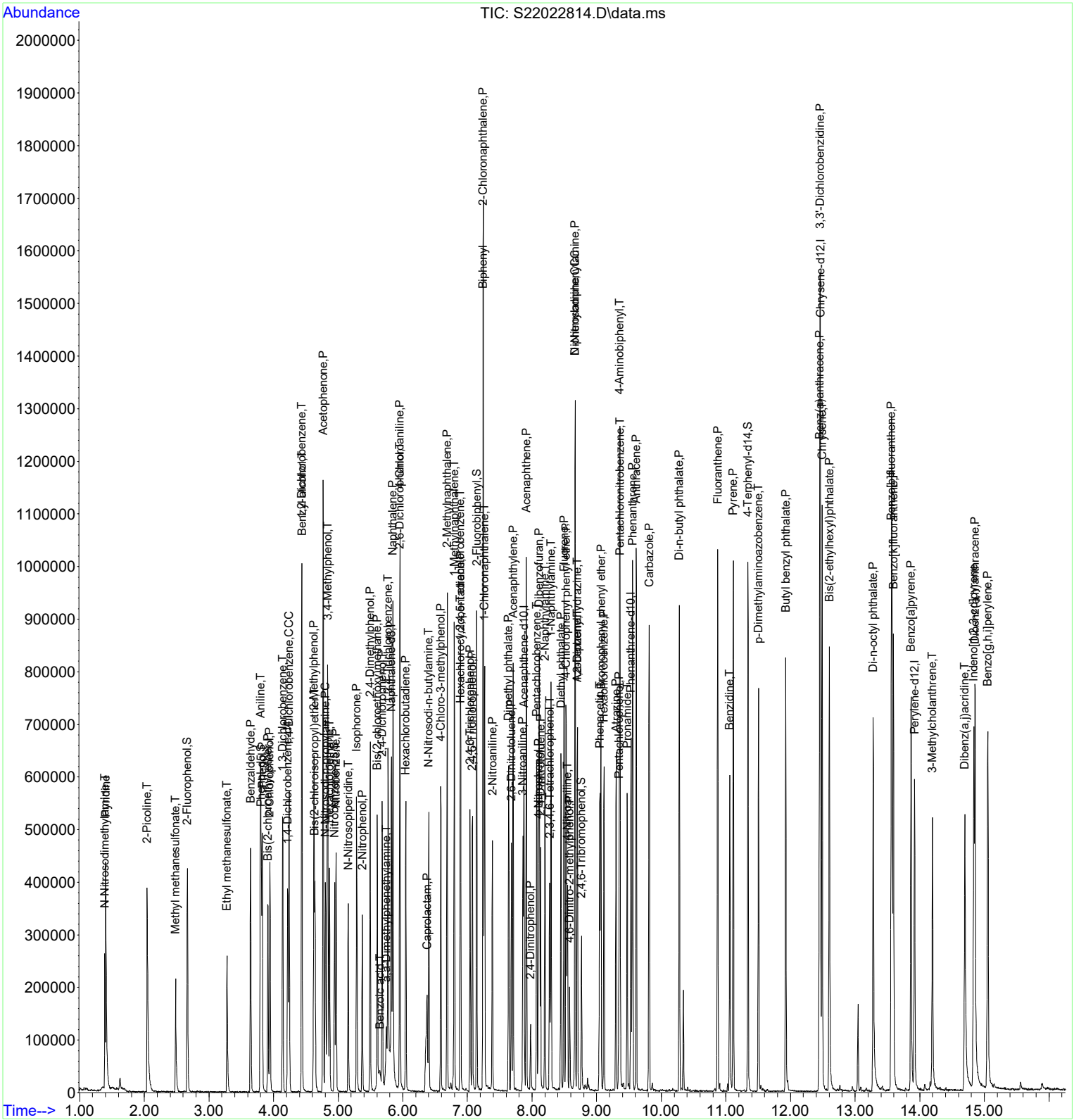
Internal Standards	R.T.		QIon	Response	Conc	Units		Dev(Min)
105) Benzo[b]fluoranthene	...	13.561	252	297063	60.34	ng		97
106) Benzo[k]fluoranthene	...	13.592	252	289832	61.54	ng		97
107) Benzo[a]pyrene	...	13.867	252	253476	59.88	ng		97
108) Dibenz(a,j)acridine	...	14.699	279	201679	61.02	ng		98
109) Indeno[1,2,3-cd]pyrene	...	14.838	276	313196	60.28	ng	#	89
110) Dibenz(a,h)anthracene	...	14.858	278	259957	61.97	ng		99
111) Benzo[g,h,i]perylene	...	15.054	276	264608	61.37	ng		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022814.D
Acq On : 28 Feb 2022 6:56 pm
Operator : YH
Sample : BNA 60 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 01 11:18:53 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:17:26 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022815.D
Acq On : 28 Feb 2022 7:22 pm
Operator : YH
Sample : BNA 80 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 01 11:21:34 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:20:31 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.220	152	53469	40.00	ng		0.00
23) Naphthalene-d8	...	5.824	136	218923	40.00	ng		0.00
45) Acenaphthene-d10	...	7.876	164	115988	40.00	ng		0.00
73) Phenanthrene-d10	...	9.533	188	214050	40.00	ng		0.00
92) Chrysene-d12	...	12.462	240	184254	40.00	ng		0.00
104) Perylene-d12	...	13.921	264	172691	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.668	112	141339	83.65	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 83.65%					
9) Phenol-d5	...	3.811	99	178940	82.21	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 82.21%					
24) Nitrobenzene-d5	...	4.944	82	151547	79.87	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 159.74%#					
50) 2-Fluorobiphenyl	...	7.146	172	283569	79.66	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 159.32%#					
72) 2,4,6-Tribromophenol	...	8.770	330	26245	74.50	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 74.50%					
94) 4-Terphenyl-d14	...	11.344	244	340441	81.22	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 162.44%#					
Target Compounds								Qvalue
2) Pyridine	...	1.402	79	172592	84.14	ng		99
3) 2-Picoline	...	2.040	93	173672	83.62	ng		99
4) Methyl methanesulfonate	...	2.483	80	86343	83.50	ng		99
6) Ethyl methanesulfonate	...	3.281	79	117402	81.05	ng		96
7) Benzaldehyde	...	3.644	105	111888	82.52	ng		96
8) Aniline	...	3.797	66	98363	81.61	ng	#	90
10) Phenol	...	3.828	94	185659	81.11	ng		98
11) Bis(2-chloroethyl)ether	...	3.914	93	147149	81.39	ng		95
12) 2-Chlorophenol	...	3.942	128	145276	82.96	ng		95
13) 1,3-Dichlorobenzene	...	4.143	146	160208	81.60	ng		99
14) 1,4-Dichlorobenzene	...	4.243	146	157992	80.65	ng		99
15) 1,2-Dichlorobenzene	...	4.436	146	151770	81.85	ng		98
16) Benzyl alcohol	...	4.441	108	93630	81.19	ng	#	77
17) Bis(2-chloroisopropyl)ether	...	4.643	45	217492	81.35	ng		90
18) 2-Methylphenol	...	4.626	107	116634	84.58	ng		95
19) 3,4-Methylphenol	...	4.842	107	299501	159.39	ng		98
20) N-Nitrosodi-n-propylamine	...	4.805	70	105206	81.70	ng		95
21) N-Nitrosodimethylamine	...	1.387	42	86880	83.23	ng		89
22) Hexachloroethane	...	4.867	117	61066	80.62	ng		99
25) Acetophenone	...	4.771	105	389238	155.21	ng		95
26) Nitrobenzene	...	4.969	123	70566	82.50	ng		88
27) N-Nitrosopiperidine	...	5.159	114	70294	80.55	ng	#	82
28) Isophorone	...	5.287	82	289752	80.87	ng		98
29) 2-Nitrophenol	...	5.372	139	63976	83.29	ng		91
30) 2,4-Dimethylphenol	...	5.497	122	123056	80.10	ng		97
31) Bis(2-chloroethoxy)methane	...	5.608	93	175321	80.43	ng		99
32) 2,4-Dichlorophenol	...	5.682	162	109888	81.97	ng		98
33) 1,2,4-Trichlorobenzene	...	5.773	180	127814	80.46	ng		99
34) Naphthalene	...	5.849	128	419298	79.50	ng		99
35) Benzoic acid	...	5.662	105	70634	78.30	ng		88
36) 2,6-Dichlorophenol	...	5.960	162	107431	82.14	ng		98
37) 4-Chloroaniline	...	5.957	127	174727	80.71	ng		99
38) Hexachlorobutadiene	...	6.045	225	67978	81.84	ng		97
39) a,a-Dimethylphenethylamine	...	5.758	58	440362	82.44	ng		85
40) Caprolactam	...	6.391	113	47213	84.79	ng	#	6

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022815.D
Acq On : 28 Feb 2022 7:22 pm
Operator : YH
Sample : BNA 80 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 01 11:21:34 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:20:31 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.590	107	120595	81.91	ng		96
42) N-Nitrosodi-n-butylamine	6.403	84	132924	96.77	ng		90
43) 2-Methylnaphthalene	6.689	141	250425	82.55	ng		96
44) 1-Methylnaphthalene	6.797	141	237595	79.89	ng		98
46) 1,2,4,5-Tetrachlorobenzene	6.891	216	121193	81.42	ng		98
47) Hexachlorocyclopentadiene	6.896	237	67810	83.14	ng		97
48) 2,4,6-Trichlorophenol	7.044	196	72265	83.85	ng		99
49) 2,4,5-Trichlorophenol	7.081	196	79984	81.66	ng		96
51) Biphenyl	7.248	154	327046	79.51	ng		98
52) 2-Chloronaphthalene	7.246	162	255048	80.37	ng		97
53) 1-Chloronaphthalene	7.268	162	219274	77.70	ng		97
54) 2-Nitroaniline	7.390	65	85631	81.67	ng		93
55) 3-Nitroaniline	7.861	138	76893	82.57	ng		92
56) Pentachlorobenzene	8.074	250	102786	81.29	ng		96
57) 4-Nitroaniline	8.554	138	78999	82.86	ng	#	84
58) 2-Naphthylamine	8.202	143	268262	79.59	ng		99
59) 1-Naphthylamine	8.299	143	276127	79.40	ng		99
60) Dimethyl phthalate	7.640	163	280688	80.68	ng		100
61) Acenaphthylene	7.708	152	389660	81.55	ng		99
62) 2,6-Dinitrotoluene	7.683	165	60854	83.34	ng	#	76
63) Acenaphthene	7.913	154	236105	80.12	ng		99
64) 2,4-Dinitrophenol	7.981	184	18257	77.98	ng		93
65) Dibenzofuran	8.114	168	348513	80.12	ng		67
66) 4-Nitrophenol	8.106	109	40791	88.04	ng	#	1
67) 2,4-Dinitrotoluene	8.137	165	80943	84.07	ng		89
68) 2,3,4,6-Tetrachlorophenol	8.273	232	52131	84.94	ng		96
69) Diethyl phthalate	8.452	149	288309	80.49	ng		99
70) Fluorene	8.497	166	290257	80.19	ng		98
71) 4-Chlorophenyl phenyl ether	8.528	204	130748	80.18	ng		99
74) 4,6-Dinitro-2-methylphenol	8.588	198	29372	76.49	ng		87
75) Azobenzene	8.702	77	291206	79.99	ng		94
76) 1,2-Diphenylhydrazine	8.704	182	67173	78.72	ng	#	83
77) Diphenylamine	8.670	170	44794	78.88	ng	#	93
78) N-Nitrosodiphenylamine	8.670	168	227946	79.66	ng		99
79) 4-Bromophenyl phenyl ether	9.068	248	80186	80.22	ng		97
80) Phenacetin	9.054	108	155809	83.77	ng		99
81) Hexachlorobenzene	9.116	284	75648	79.47	ng		99
82) Atrazine	9.303	200	80120	82.43	ng		97
83) 4-Aminobiphenyl	9.360	169	313931	80.81	ng		99
84) Pentachlorophenol	9.349	266	38269	75.24	ng		97
85) Pentachloronitrobenzene	9.363	237	31658	79.47	ng		93
86) Pronamide	9.476	173	95058	83.93	ng		95
87) Phenanthrene	9.559	178	441052	79.74	ng		98
88) Anthracene	9.616	178	450919	81.35	ng		98
89) Carbazole	9.814	167	403815	81.04	ng		99
90) Di-n-butyl phthalate	10.280	149	528244	82.91	ng		100
91) Fluoranthene	10.876	202	480996	82.43	ng		99
93) Pyrene	11.117	202	467007	80.57	ng		100
95) Benzidine	11.063	184	255043	85.19	ng		99
96) p-Dimethylaminoazobenzene	11.506	225	92796	83.27	ng	#	89
97) Butyl benzyl phthalate	11.929	149	222911	84.80	ng		92
98) Benz(a)anthracene	12.454	228	431646	82.79	ng		100
99) 3,3'-Dichlorobenzidine	12.462	252	152348	82.59	ng		99
100) Chrysene	12.493	228	406707	79.92	ng		99
101) Bis(2-ethylhexyl)phthalate	12.601	149	303238	88.49	ng		95
102) Di-n-octyl phthalate	13.283	149	502136	87.65	ng		95
103) 3-Methylcholanthrene	14.199	268	140802	78.32	ng		96

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022815.D
Acq On : 28 Feb 2022 7:22 pm
Operator : YH
Sample : BNA 80 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 01 11:21:34 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:20:31 2022
Response via : Initial Calibration

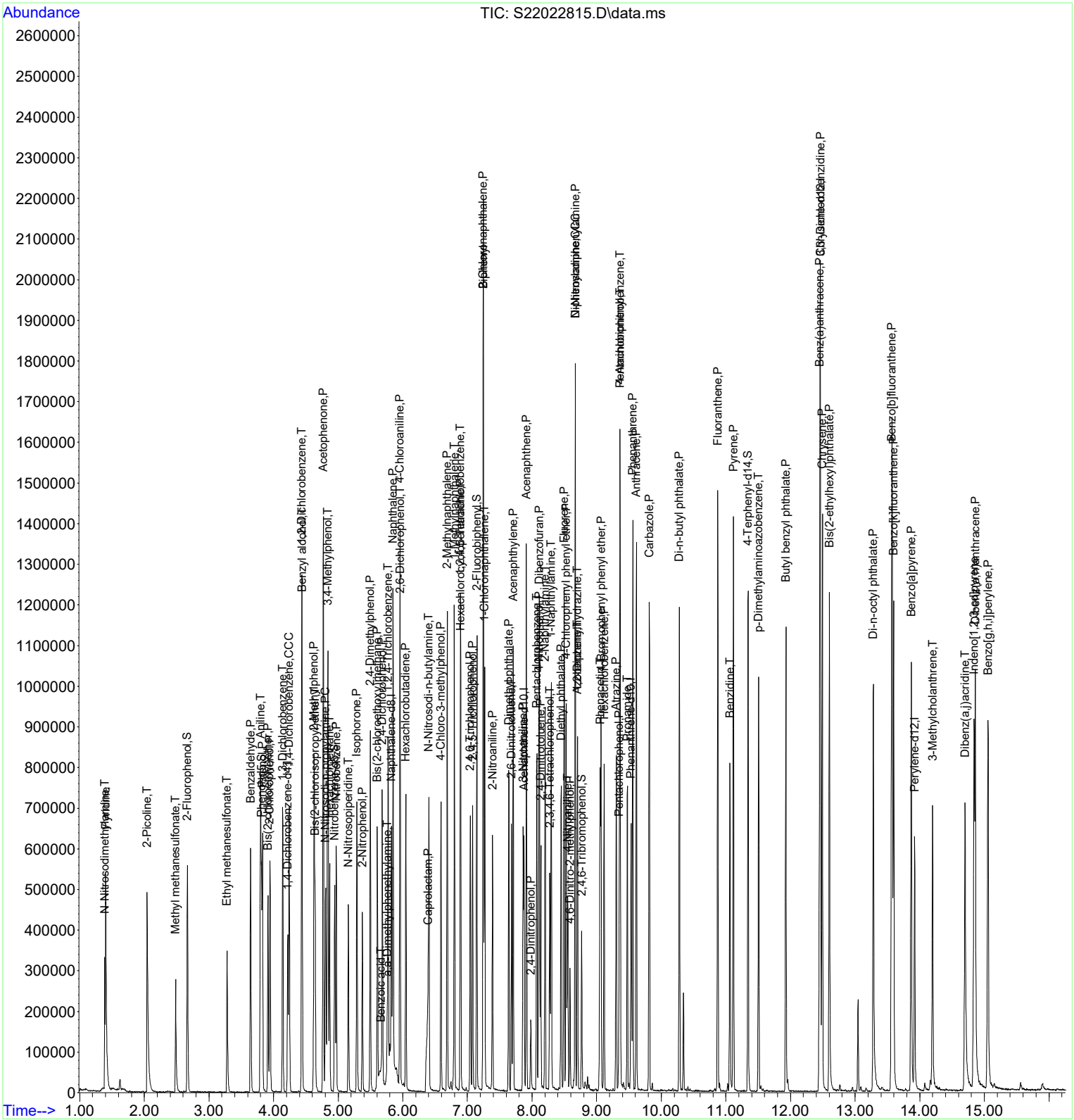
Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
105) Benzo[b]fluoranthene	...	13.566	252	406957	83.67	ng	97
106) Benzo[k]fluoranthene	...	13.598	252	394313	84.76	ng	97
107) Benzo[a]pyrene	...	13.870	252	353101	84.43	ng	98
108) Dibenz(a,j)acridine	...	14.702	279	298078	91.30	ng	99
109) Indeno[1,2,3-cd]pyrene	...	14.841	276	430842	83.94	ng	94
110) Dibenz(a,h)anthracene	...	14.861	278	363085	87.61	ng	99
111) Benzo[g,h,i]perylene	...	15.056	276	357251	83.87	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022815.D
Acq On : 28 Feb 2022 7:22 pm
Operator : YH
Sample : BNA 80 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 01 11:21:34 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:20:31 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022816.D
Acq On : 28 Feb 2022 7:49 pm
Operator : YH
Sample : BNA 120 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 01 11:24:51 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:23:31 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.220	152	54301	40.00	ng		0.00
23) Naphthalene-d8	...	5.827	136	218481	40.00	ng		0.00
45) Acenaphthene-d10	...	7.879	164	117155	40.00	ng		0.00
73) Phenanthrene-d10	...	9.533	188	211340	40.00	ng		0.00
92) Chrysene-d12	...	12.468	240	186403	40.00	ng		0.00
104) Perylene-d12	...	13.924	264	179102	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.668	112	214874	125.23	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 125.23%#					
9) Phenol-d5	...	3.814	99	268972	121.68	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 121.68%#					
24) Nitrobenzene-d5	...	4.950	82	233526	123.33	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 246.66%#					
50) 2-Fluorobiphenyl	...	7.149	172	433262	120.51	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 241.02%#					
72) 2,4,6-Tribromophenol	...	8.773	330	43749	119.95	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 119.95%					
94) 4-Terphenyl-d14	...	11.347	244	526234	124.10	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 248.20%#					
Target Compounds								Qvalue
2) Pyridine	...	1.399	79	259021	124.34	ng		98
3) 2-Picoline	...	2.040	93	263306	124.84	ng		98
4) Methyl methanesulfonate	...	2.483	80	127407	121.32	ng		96
6) Ethyl methanesulfonate	...	3.283	79	180436	122.65	ng		95
7) Benzaldehyde	...	3.647	105	166168	120.67	ng		96
8) Aniline	...	3.800	66	144542	118.09	ng		91
10) Phenol	...	3.834	94	283454	121.94	ng		97
11) Bis(2-chloroethyl)ether	...	3.916	93	222854	121.38	ng		97
12) 2-Chlorophenol	...	3.948	128	213843	120.24	ng		95
13) 1,3-Dichlorobenzene	...	4.143	146	240334	120.53	ng		97
14) 1,4-Dichlorobenzene	...	4.243	146	237237	119.24	ng		98
15) 1,2-Dichlorobenzene	...	4.439	146	230644	122.48	ng		98
16) Benzyl alcohol	...	4.444	108	141357	120.70	ng	#	76
17) Bis(2-chloroisopropyl)ether	...	4.643	45	322720	118.86	ng		88
18) 2-Methylphenol	...	4.634	107	175045	124.99	ng		95
19) 3,4-Methylphenol	...	4.847	107	452931	237.36	ng		97
20) N-Nitrosodi-n-propylamine	...	4.810	70	158070	120.87	ng		94
21) N-Nitrosodimethylamine	...	1.388	42	128187	120.93	ng		90
22) Hexachloroethane	...	4.867	117	91757	119.28	ng		99
25) Acetophenone	...	4.776	105	588056	234.96	ng		96
26) Nitrobenzene	...	4.972	123	105457	123.55	ng	#	85
27) N-Nitrosopiperidine	...	5.165	114	107037	122.90	ng	#	85
28) Isophorone	...	5.293	82	443379	124.00	ng		98
29) 2-Nitrophenol	...	5.378	139	105899	138.15	ng		95
30) 2,4-Dimethylphenol	...	5.500	122	190957	124.55	ng		98
31) Bis(2-chloroethoxy)methane	...	5.611	93	271160	124.66	ng		97
32) 2,4-Dichlorophenol	...	5.687	162	165127	123.42	ng		98
33) 1,2,4-Trichlorobenzene	...	5.775	180	194855	122.90	ng		99
34) Naphthalene	...	5.852	128	634576	120.56	ng		99
35) Benzoic acid	...	5.690	105	117085	117.62	ng		90
36) 2,6-Dichlorophenol	...	5.963	162	162206	124.26	ng		98
37) 4-Chloroaniline	...	5.960	127	262580	121.53	ng		98
38) Hexachlorobutadiene	...	6.048	225	100454	121.18	ng		96
39) a,a-Dimethylphenethylamine	...	5.784	58	665972	125.05	ng		88
40) Caprolactam	...	6.417	113	68448	123.17	ng	#	3

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022816.D
Acq On : 28 Feb 2022 7:49 pm
Operator : YH
Sample : BNA 120 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 01 11:24:51 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:23:31 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.599	107	186239	126.75	ng		98
42) N-Nitrosodi-n-butylamine	6.408	84	197375	143.98	ng		89
43) 2-Methylnaphthalene	6.689	141	362985	119.90	ng		99
44) 1-Methylnaphthalene	6.800	141	369177	124.39	ng		97
46) 1,2,4,5-Tetrachlorobenzene	6.894	216	179293	119.26	ng		99
47) Hexachlorocyclopentadiene	6.897	237	106811	129.65	ng		95
48) 2,4,6-Trichlorophenol	7.047	196	112534	129.27	ng		99
49) 2,4,5-Trichlorophenol	7.087	196	124652	126.00	ng		97
51) Biphenyl	7.251	154	490147	117.98	ng		98
52) 2-Chloronaphthalene	7.248	162	384416	119.93	ng		98
53) 1-Chloronaphthalene	7.271	162	334204	117.25	ng		97
54) 2-Nitroaniline	7.393	65	132471	125.09	ng		95
55) 3-Nitroaniline	7.870	138	121029	128.67	ng		93
56) Pentachlorobenzene	8.077	250	158001	123.71	ng		96
57) 4-Nitroaniline	8.563	138	119643	124.24	ng		91
58) 2-Naphthylamine	8.208	143	412411	121.15	ng		99
59) 1-Naphthylamine	8.301	143	419629	119.46	ng		100
60) Dimethyl phthalate	7.646	163	424472	120.80	ng		100
61) Acenaphthylene	7.711	152	581384	120.46	ng		99
62) 2,6-Dinitrotoluene	7.688	165	96348	130.63	ng	#	77
63) Acenaphthene	7.915	154	359961	120.94	ng		98
64) 2,4-Dinitrophenol	7.986	184	30714	119.13	ng		89
65) Dibenzofuran	8.117	168	529630	120.54	ng		67
66) 4-Nitrophenol	8.114	109	63728	136.17	ng	#	1
67) 2,4-Dinitrotoluene	8.143	165	127874	131.49	ng		88
68) 2,3,4,6-Tetrachlorophenol	8.279	232	82999	133.88	ng		98
69) Diethyl phthalate	8.455	149	446754	123.48	ng		99
70) Fluorene	8.500	166	442348	121.00	ng		98
71) 4-Chlorophenyl phenyl ether	8.531	204	197317	119.80	ng		99
74) 4,6-Dinitro-2-methylphenol	8.594	198	48419	117.61	ng		89
75) Azobenzene	8.707	77	435794	121.24	ng		95
76) 1,2-Diphenylhydrazine	8.707	182	105455	125.17	ng		92
77) Diphenylamine	8.676	170	70713	126.12	ng		98
78) N-Nitrosodiphenylamine	8.676	168	347817	123.11	ng		99
79) 4-Bromophenyl phenyl ether	9.071	248	123757	125.40	ng		98
80) Phenacetin	9.065	108	244107	132.93	ng		99
81) Hexachlorobenzene	9.119	284	116043	123.47	ng		99
82) Atrazine	9.309	200	118847	123.84	ng		95
83) 4-Aminobiphenyl	9.366	169	476240	124.15	ng		100
84) Pentachlorophenol	9.354	266	65333	123.28	ng		99
85) Pentachloronitrobenzene	9.371	237	50313	127.91	ng		95
86) Pronamide	9.479	173	144181	128.93	ng		93
87) Phenanthrene	9.565	178	672140	123.08	ng		99
88) Anthracene	9.618	178	676766	123.66	ng		99
89) Carbazole	9.820	167	616364	125.28	ng		98
90) Di-n-butyl phthalate	10.285	149	812739	129.20	ng		99
91) Fluoranthene	10.879	202	734493	127.48	ng		100
93) Pyrene	11.123	202	717016	122.28	ng		99
95) Benzidine	11.066	184	387619	127.99	ng		100
96) p-Dimethylaminoazobenzene	11.512	225	146158	129.64	ng	#	90
97) Butyl benzyl phthalate	11.929	149	349705	131.50	ng		94
98) Benz(a)anthracene	12.457	228	658887	124.91	ng		99
99) 3,3'-Dichlorobenzidine	12.468	252	238097	127.59	ng		100
100) Chrysene	12.499	228	622267	120.86	ng		99
101) Bis(2-ethylhexyl)phthalate	12.604	149	474276	136.81	ng		95
102) Di-n-octyl phthalate	13.285	149	803953	138.71	ng		95
103) 3-Methylcholanthrene	14.205	268	220107	117.92	ng		96

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022816.D
Acq On : 28 Feb 2022 7:49 pm
Operator : YH
Sample : BNA 120 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 01 11:24:51 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:23:31 2022
Response via : Initial Calibration

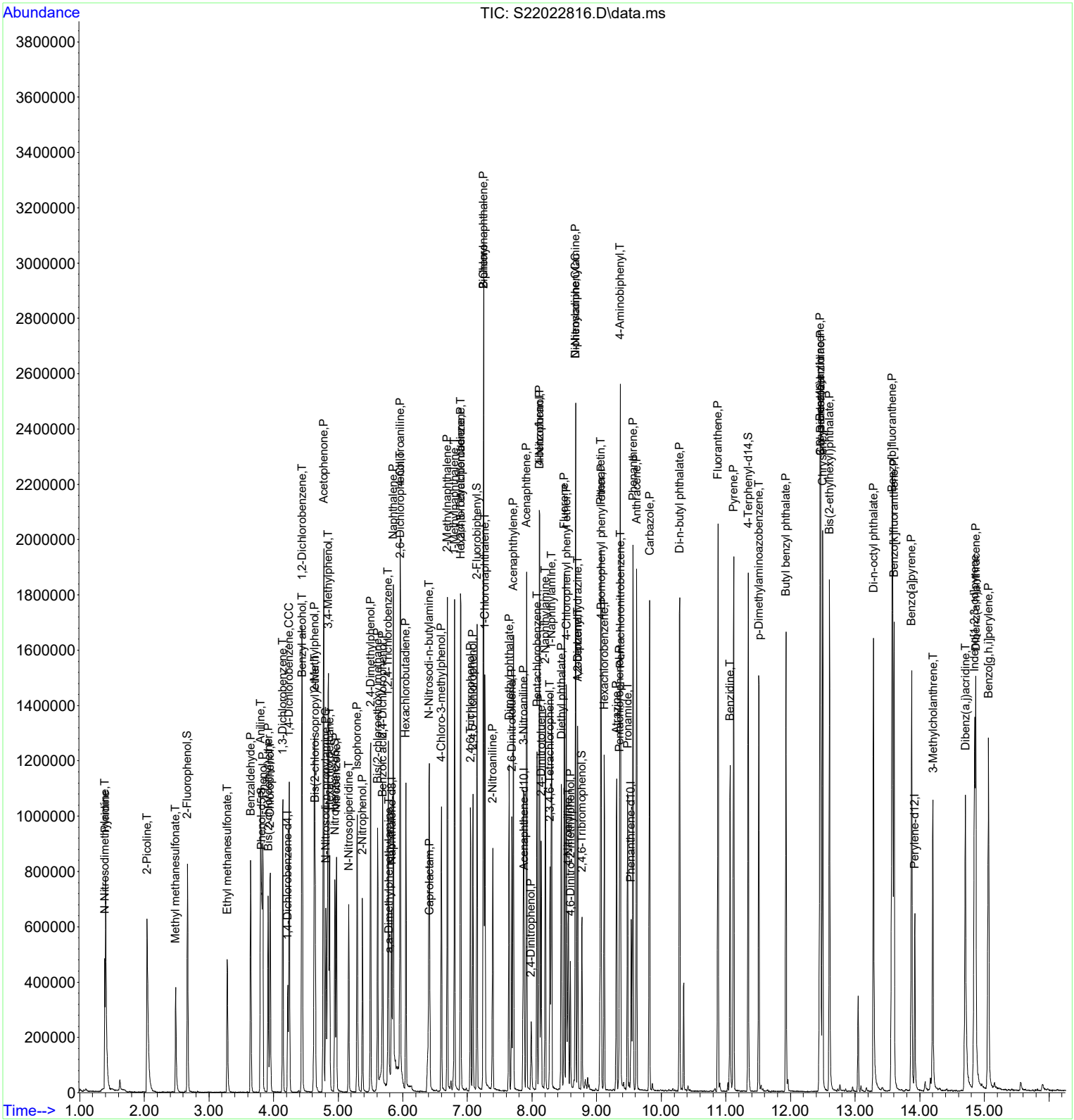
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) Benzo[b]fluoranthene	13.572	252	652956	129.44	ng	98
106) Benzo[k]fluoranthene	13.603	252	553401	114.69	ng	98
107) Benzo[a]pyrene	13.876	252	552650	127.42	ng	99
108) Dibenz(a,j)acridine	14.707	279	448591	132.48	ng	99
109) Indeno[1,2,3-cd]pyrene	14.849	276	667767	125.44	ng	93
110) Dibenz(a,h)anthracene	14.869	278	542653	126.25	ng	99
111) Benzo[g,h,i]perylene	15.068	276	553612	125.32	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022816.D
Acq On : 28 Feb 2022 7:49 pm
Operator : YH
Sample : BNA 120 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 01 11:24:51 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:23:31 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022817.D
Acq On : 28 Feb 2022 8:15 pm
Operator : YH
Sample : BNA 160 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 01 11:27:52 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:26:28 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.223	152	56438	40.00	ng		0.00
23) Naphthalene-d8	...	5.826	136	230195	40.00	ng		0.00
45) Acenaphthene-d10	...	7.879	164	123161	40.00	ng		0.00
73) Phenanthrene-d10	...	9.536	188	224676	40.00	ng		0.00
92) Chrysene-d12	...	12.471	240	194594	40.00	ng		0.00
104) Perylene-d12	...	13.927	264	188925	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.670	112	294862	165.34	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 165.34%#					
9) Phenol-d5	...	3.823	99	366073	159.33	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 159.33%#					
24) Nitrobenzene-d5	...	4.952	82	321106	160.95	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 321.90%#					
50) 2-Fluorobiphenyl	...	7.152	172	587086	155.33	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 310.66%#					
72) 2,4,6-Tribromophenol	...	8.775	330	63103	162.86	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 162.86%#					
94) 4-Terphenyl-d14	...	11.350	244	728570	164.59	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 329.18%#					
Target Compounds								Qvalue
2) Pyridine	...	1.402	79	355827	164.35	ng		99
3) 2-Picoline	...	2.040	93	362862	165.52	ng		99
4) Methyl methanesulfonate	...	2.489	80	176235	161.46	ng		97
6) Ethyl methanesulfonate	...	3.289	79	246820	161.42	ng		95
7) Benzaldehyde	...	3.647	105	222309	155.33	ng		96
8) Aniline	...	3.803	66	200528	157.63	ng	#	90
10) Phenol	...	3.843	94	380982	157.69	ng		98
11) Bis(2-chloroethyl)ether	...	3.922	93	307701	161.24	ng		97
12) 2-Chlorophenol	...	3.950	128	298802	161.65	ng		96
13) 1,3-Dichlorobenzene	...	4.146	146	332629	160.50	ng		99
14) 1,4-Dichlorobenzene	...	4.243	146	330396	159.78	ng		98
15) 1,2-Dichlorobenzene	...	4.439	146	314496	160.69	ng		99
16) Benzyl alcohol	...	4.450	108	200325	164.57	ng	#	73
17) Bis(2-chloroisopropyl)ether	...	4.646	45	441732	156.54	ng		90
18) 2-Methylphenol	...	4.637	107	239182	164.32	ng		95
19) 3,4-Methylphenol	...	4.853	107	610020	307.57	ng		97
20) N-Nitrosodi-n-propylamine	...	4.816	70	208817	153.63	ng		97
21) N-Nitrosodimethylamine	...	1.390	42	173994	157.92	ng		91
22) Hexachloroethane	...	4.867	117	125306	156.73	ng		100
25) Acetophenone	...	4.782	105	803999	304.90	ng		98
26) Nitrobenzene	...	4.978	123	146854	163.29	ng		89
27) N-Nitrosopiperidine	...	5.168	114	153420	167.19	ng		89
28) Isophorone	...	5.299	82	609048	161.67	ng		98
29) 2-Nitrophenol	...	5.381	139	144999	179.53	ng		93
30) 2,4-Dimethylphenol	...	5.506	122	262374	162.42	ng		98
31) Bis(2-chloroethoxy)methane	...	5.614	93	369302	161.13	ng		98
32) 2,4-Dichlorophenol	...	5.690	162	229300	162.67	ng		98
33) 1,2,4-Trichlorobenzene	...	5.775	180	266258	159.40	ng		99
34) Naphthalene	...	5.855	128	873983	157.59	ng		100
35) Benzoic acid	...	5.713	105	179400	162.55	ng		95
36) 2,6-Dichlorophenol	...	5.963	162	225657	164.08	ng		97
37) 4-Chloroaniline	...	5.963	127	363878	159.84	ng		99
38) Hexachlorobutadiene	...	6.048	225	140197	160.52	ng		98
39) a,a-Dimethylphenethylamine	...	5.895	58	943876	168.21	ng		89
40) Caprolactam	...	6.442	113	97119	165.87	ng	#	81

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022817.D
Acq On : 28 Feb 2022 8:15 pm
Operator : YH
Sample : BNA 160 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 01 11:27:52 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:26:28 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.601	107	256407	165.62	ng		97
42) N-Nitrosodi-n-butylamine	6.411	84	245547	170.00	ng		94
43) 2-Methylnaphthalene	6.692	141	510252	159.97	ng		100
44) 1-Methylnaphthalene	6.803	141	498712	159.48	ng		99
46) 1,2,4,5-Tetrachlorobenzene	6.896	216	244019	154.39	ng		99
47) Hexachlorocyclopentadiene	6.899	237	146036	168.62	ng		96
48) 2,4,6-Trichlorophenol	7.050	196	158371	173.05	ng		99
49) 2,4,5-Trichlorophenol	7.092	196	176715	169.91	ng		98
51) Biphenyl	7.254	154	664142	152.06	ng		99
52) 2-Chloronaphthalene	7.251	162	535185	158.83	ng		98
53) 1-Chloronaphthalene	7.274	162	446843	149.13	ng		97
54) 2-Nitroaniline	7.396	65	185682	166.78	ng		95
55) 3-Nitroaniline	7.873	138	168568	170.46	ng		93
56) Pentachlorobenzene	8.080	250	214361	159.66	ng		96
57) 4-Nitroaniline	8.574	138	164735	162.72	ng		91
58) 2-Naphthylamine	8.211	143	564774	157.81	ng		99
59) 1-Naphthylamine	8.307	143	570288	154.43	ng		99
60) Dimethyl phthalate	7.649	163	601566	162.85	ng		99
61) Acenaphthylene	7.714	152	807784	159.21	ng		99
62) 2,6-Dinitrotoluene	7.691	165	133964	172.78	ng	#	76
63) Acenaphthene	7.918	154	488822	156.22	ng		99
64) 2,4-Dinitrophenol	7.992	184	46089	163.15	ng		85
65) Dibenzofuran	8.120	168	731184	158.30	ng		67
66) 4-Nitrophenol	8.123	109	88107	179.08	ng	#	1
67) 2,4-Dinitrotoluene	8.148	165	178408	174.50	ng		88
68) 2,3,4,6-Tetrachlorophenol	8.282	232	118536	181.88	ng		98
69) Diethyl phthalate	8.458	149	614508	161.56	ng		99
70) Fluorene	8.503	166	609063	158.47	ng		99
71) 4-Chlorophenyl phenyl ether	8.534	204	273566	157.99	ng		100
74) 4,6-Dinitro-2-methylphenol	8.602	198	74780	164.04	ng		92
75) Azobenzene	8.710	77	597502	156.37	ng		95
76) 1,2-Diphenylhydrazine	8.710	182	142386	158.98	ng	#	89
77) Diphenylamine	8.679	170	96217	161.42	ng		98
78) N-Nitrosodiphenylamine	8.679	168	469952	156.47	ng		99
79) 4-Bromophenyl phenyl ether	9.073	248	171927	163.86	ng		96
80) Phenacetin	9.073	108	331816	169.96	ng		98
81) Hexachlorobenzene	9.122	284	159277	159.42	ng		99
82) Atrazine	9.318	200	165286	162.00	ng		97
83) 4-Aminobiphenyl	9.369	169	639463	156.81	ng		99
84) Pentachlorophenol	9.360	266	92876	161.70	ng		98
85) Pentachloronitrobenzene	9.374	237	68466	163.73	ng		96
86) Pronamide	9.485	173	200589	168.73	ng		93
87) Phenanthrene	9.567	178	921076	158.66	ng		100
88) Anthracene	9.624	178	934851	160.68	ng		99
89) Carbazole	9.823	167	853146	163.12	ng		99
90) Di-n-butyl phthalate	10.285	149	1122434	167.84	ng		99
91) Fluoranthene	10.881	202	1015965	165.87	ng		100
93) Pyrene	11.125	202	989899	161.72	ng		99
95) Benzidine	11.069	184	539295	170.57	ng		99
96) p-Dimethylaminoazobenzene	11.511	225	202069	171.69	ng	#	90
97) Butyl benzyl phthalate	11.932	149	493325	177.70	ng		95
98) Benz(a)anthracene	12.459	228	937521	170.25	ng		100
99) 3,3'-Dichlorobenzidine	12.468	252	333827	171.36	ng		99
100) Chrysene	12.502	228	860688	160.14	ng		99
101) Bis(2-ethylhexyl)phthalate	12.604	149	670371	185.23	ng		95
102) Di-n-octyl phthalate	13.285	149	1170512	193.45	ng		97
103) 3-Methylcholanthrene	14.208	268	321517	162.73	ng		94

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022817.D
Acq On : 28 Feb 2022 8:15 pm
Operator : YH
Sample : BNA 160 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 01 11:27:52 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:26:28 2022
Response via : Initial Calibration

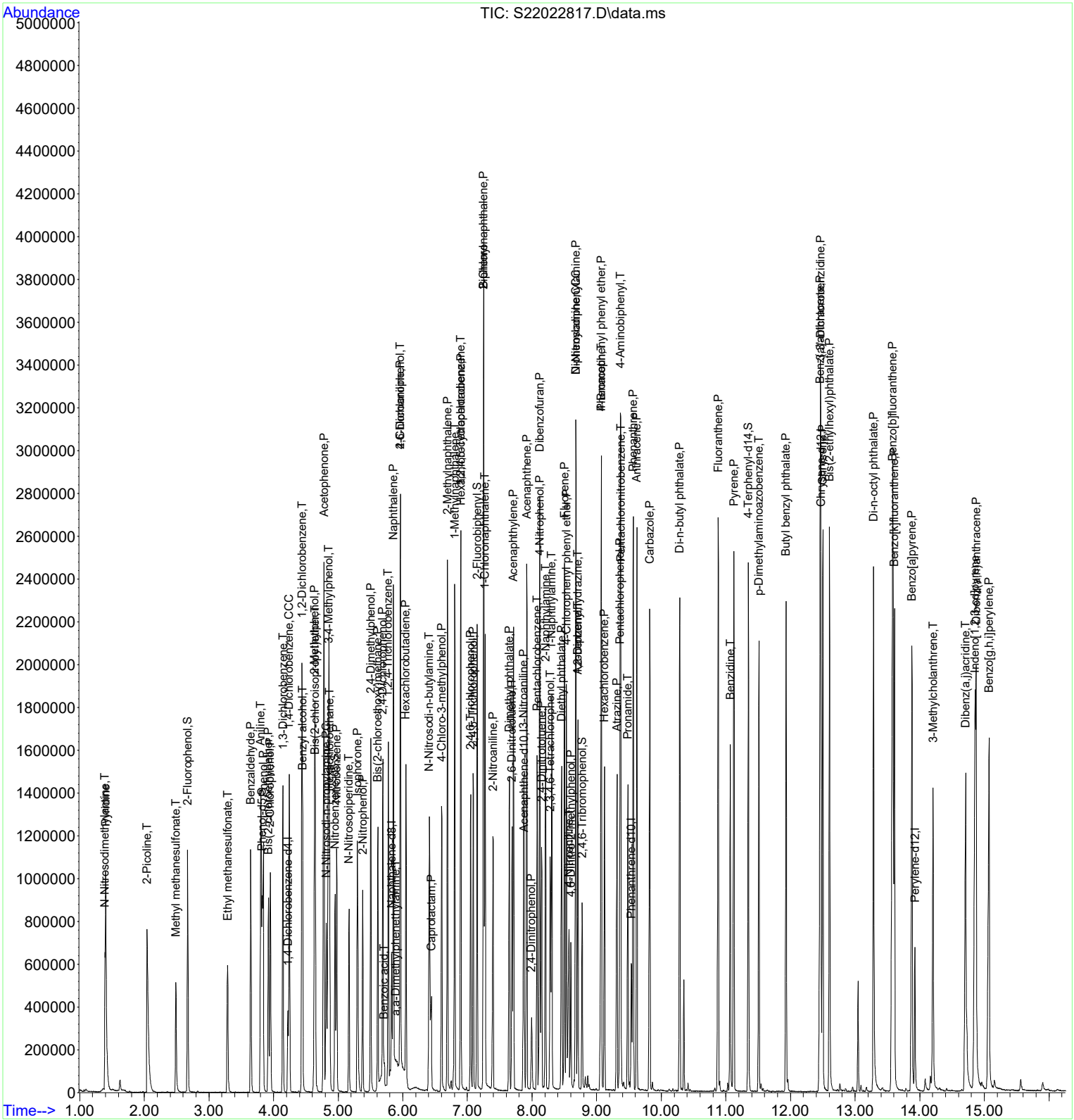
Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
105) Benzo[b]fluoranthene	...	13.581	252	932074	175.16	ng	98
106) Benzo[k]fluoranthene	...	13.612	252	753899	148.12	ng	98
107) Benzo[a]pyrene	...	13.879	252	771633	168.66	ng	99
108) Dibenz(a,j)acridine	...	14.710	279	659852	184.74	ng	99
109) Indeno[1,2,3-cd]pyrene	...	14.855	276	948861	168.98	ng	97
110) Dibenz(a,h)anthracene	...	14.875	278	773009	170.50	ng	100
111) Benzo[g,h,i]perylene	...	15.073	276	776936	166.73	ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220228\
Data File : S22022817.D
Acq On : 28 Feb 2022 8:15 pm
Operator : YH
Sample : BNA 160 989-59/
Misc : ICAL 8270_TCL4.2_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 01 11:27:52 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:26:28 2022
Response via : Initial Calibration



Response Factor Report MS-9

Method Path : C:\MS-9\New\Calculation Methods\
Method File : B022822.M
Title : MS-9 BNA CURVE 8270E/625
Last Update : Tue Mar 01 11:30:07 2022
Response Via : Initial Calibration

Calibration Files
160 =S22022817.D 60 =S22022814.D 40 =S22022813.D 120 =S22022816.D 80 =S22022815.D 10 =S
5 =S22022810.D

		Compound	160	60	40	120	80	10	20	5	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		Pyridine	1.576	1.584	1.509	1.590	1.614	1.347	1.521		1.535	5.93
3)	T	2-Picoline	1.607	1.613	1.533	1.616	1.624	1.394	1.488		1.554	5.59
4)	T	Methyl methane...	0.781	0.778	0.769	0.782	0.807	0.732	0.766		0.774	2.95
5)	S	2-Fluorophenol	1.306	1.305	1.214	1.319	1.322	1.133	1.250		1.264	5.57
6)	T	Ethyl methanes...	1.093	1.073	1.056	1.108	1.098	1.027	1.132		1.084	3.23
7)	P	Benzaldehyde	0.985	1.053	1.010	1.020	1.046	0.960	1.027		1.014	3.24
8)	T	Aniline	0.888	0.927	0.881	0.887	0.920	0.906	0.901		0.902	1.91
9)	S	Phenol-d5	1.622	1.656	1.627	1.651	1.673	1.551	1.619		1.628	2.43
10)	P	Phenol	1.688	1.742	1.699	1.740	1.736	1.629	1.752		1.712	2.55
11)	P	Bis(2-chloroet...	1.363	1.342	1.312	1.368	1.376	1.342	1.365		1.352	1.64
12)	P	2-Chlorophenol	1.324	1.346	1.301	1.313	1.359	1.253	1.276		1.310	2.85
13)	T	1,3-Dichlorobe...	1.473	1.473	1.478	1.475	1.498	1.436	1.449		1.469	1.38
14)	CCC	1,4-Dichlorobe...	1.464	1.487	1.467	1.456	1.477	1.430	1.478		1.466	1.27
15)	T	1,2-Dichlorobe...	1.393	1.412	1.373	1.416	1.419	1.334	1.363		1.387	2.30
16)	T	Benzyl alcohol	0.887	0.879	0.844	0.868	0.876	0.838	0.848		0.863	2.25
17)	T	Bis(2-chlorois...	1.957	2.066	2.011	1.981	2.034	1.945	2.006		2.000	2.14
18)	P	2-Methylphenol	1.059	1.063	1.007	1.075	1.091	0.932	0.995		1.032	5.45
19)	T	3,4-Methylphenol	1.351	1.397	1.380	1.390	1.400	1.302	1.359	1.666	1.406	7.83
20)	PC	N-Nitrosodi-n-...	0.925	0.976	0.976	0.970	0.984	0.915	0.997		0.963	3.21
21)	T	N-Nitrosodimet...	0.771	0.789	0.776	0.787	0.812	0.745	0.786		0.781	2.65
22)	T	Hexachloroethane	0.555	0.578	0.549	0.563	0.571	0.567	0.583		0.567	2.08
23)	I	Naphthalene-d8	----------ISTD----------									
24)	S	Nitrobenzene-d5	0.349	0.346	0.340	0.356	0.346	0.336	0.353		0.347	2.01
25)	P	Acetophenone	0.437	0.455	0.446	0.449	0.444	0.444	0.454	0.536	0.458	6.97
26)	P	Nitrobenzene	0.159	0.161	0.153	0.161	0.161	0.143	0.155		0.156	4.15
27)	T	N-Nitrosopiper...	0.167	0.163	0.157	0.163	0.161	0.141	0.164		0.159	5.30
28)	P	Isophorone	0.661	0.669	0.644	0.676	0.662	0.615	0.655		0.655	3.11
29)	P	2-Nitrophenol	0.157	0.147	0.129	0.162	0.146	0.118	0.123		0.140	12.21
30)	P	2,4-Dimethylph...	0.285	0.286	0.277	0.291	0.281	0.263	0.282		0.281	3.27
31)	P	Bis(2-chloroet...	0.401	0.404	0.393	0.414	0.400	0.384	0.391		0.398	2.43
32)	P	2,4-Dichloroph...	0.249	0.254	0.243	0.252	0.251	0.217	0.249		0.245	5.17
33)	T	1,2,4-Trichlor...	0.289	0.294	0.281	0.297	0.292	0.292	0.287		0.290	1.84
34)	P	Naphthalene	0.949	0.983	0.942	0.968	0.958	0.945	1.001		0.964	2.25
35)	T	Benzoic acid	0.195	0.137	0.105	0.181	0.161		0.072		0.142	33.06
36)	T	2,6-Dichloroph...	0.245	0.244	0.232	0.247	0.245	0.224	0.234		0.239	3.64
37)	P	4-Chloroaniline	0.395	0.404	0.389	0.401	0.399	0.385	0.396		0.396	1.65
38)	P	Hexachlorobuta...	0.152	0.156	0.148	0.153	0.155	0.145	0.153		0.152	2.58
39)	T	a,a-Dimethylph...	1.025	1.012	0.975	1.017	1.006	0.847	0.942		0.975	6.48
40)	P	Caprolactam	0.105	0.103	0.099	0.104	0.108	0.092	0.100		0.102	5.25
41)	P	4-Chloro-3-met...	0.278	0.277	0.263	0.284	0.275	0.237	0.268		0.269	5.87
42)	T	N-Nitrosodi-n-...	0.267	0.233	0.218	0.301	0.304	0.209	0.226		0.251	15.74
43)	P	2-Methylnaphth...	0.554	0.560	0.554	0.554	0.572	0.532	0.554		0.554	2.13
44)	T	1-Methylnaphth...	0.542	0.559	0.527	0.563	0.543	0.526	0.544		0.543	2.61
45)	I	Acenaphthene-d10	----------ISTD----------									
46)	T	1,2,4,5-Tetrac...	0.495	0.521	0.494	0.510	0.522	0.529	0.521		0.513	2.72
47)	P	Hexachlorocycl...	0.296	0.287	0.274	0.304	0.292	0.252	0.263		0.281	6.67
48)	P	2,4,6-Trichlor...	0.321	0.315	0.294	0.320	0.312	0.242	0.276		0.297	9.88
49)	P	2,4,5-Trichlor...	0.359	0.349	0.338	0.355	0.345	0.296	0.323		0.338	6.47
50)	S	2-Fluorobiphenyl	1.192	1.231	1.240	1.233	1.222	1.237	1.238		1.228	1.37
51)		Biphenyl	1.348	1.420	1.440	1.395	1.410	1.410	1.507		1.418	3.40
52)	P	2-Chloronaphth...	1.086	1.080	1.100	1.094	1.099	1.067	1.134		1.094	1.92
53)	T	1-Chloronaphth...	0.907	0.984	0.977	0.951	0.945	0.991	1.056		0.973	4.79

54)	P	2-Nitroaniline	0.377	0.371	0.359	0.377	0.369	0.329	0.349		0.362	4.88
55)	P	3-Nitroaniline	0.342	0.331	0.311	0.344	0.331	0.278	0.310		0.321	7.24
56)	T	Pentachloroben...	0.435	0.438	0.440	0.450	0.443	0.405	0.441		0.436	3.34
57)	T	4-Nitroaniline	0.334	0.334	0.323	0.340	0.341	0.303	0.325		0.329	3.97
58)	T	2-Naphthylamine	1.146	1.186	1.143	1.173	1.156	1.125	1.206		1.162	2.40
59)	T	1-Naphthylamine	1.158	1.228	1.211	1.194	1.190	1.191	1.224		1.199	2.01
60)	P	Dimethyl phtha...	1.221	1.198	1.188	1.208	1.210	1.136	1.238		1.200	2.69
61)	P	Acenaphthylene	1.640	1.681	1.641	1.654	1.680	1.581	1.658		1.648	2.04
62)	P	2,6-Dinitrotol...	0.272	0.258	0.240	0.274	0.262	0.216	0.240		0.252	8.22
63)	P	Acenaphthene	0.992	1.038	1.014	1.024	1.018	0.972	1.056		1.016	2.75
64)	P	2,4-Dinitrophenol	0.094	0.065	0.059	0.087	0.079		0.050		0.072	23.69
65)	P	Dibenzofuran	1.484	1.499	1.479	1.507	1.502	1.443	1.587		1.500	2.94
66)	P	4-Nitrophenol	0.179	0.180	0.157	0.181	0.176	0.106	0.139		0.160	17.81
67)	P	2,4-Dinitrotol...	0.362	0.346	0.322	0.364	0.349	0.269	0.312		0.332	10.18
68)	T	2,3,4,6-Tetrac...	0.241	0.216	0.206	0.236	0.225	0.158	0.200		0.212	13.24
69)	P	Diethyl phthalate	1.247	1.270	1.218	1.271	1.243	1.137	1.261		1.235	3.82
70)	P	Fluorene	1.236	1.281	1.243	1.259	1.251	1.206	1.260		1.248	1.87
71)	P	4-Chlorophenyl...	0.555	0.574	0.560	0.561	0.564	0.552	0.571		0.562	1.42
72)	S	2,4,6-Tribromo...	0.128	0.119	0.109	0.124	0.113	0.110	0.108		0.116	6.90
73)	I	Phenanthrene-d10	----------ISTD----------									
74)	P	4,6-Dinitro-2-...	0.083	0.063	0.053	0.076	0.069		0.046		0.065	21.52
75)	T	Azobenzene	0.665	0.685	0.679	0.687	0.680	0.668	0.698		0.680	1.68
76)	T	1,2-Diphenylhy...	0.158	0.164	0.164	0.166	0.157	0.150	0.157		0.159	3.40
77)	CCC	Diphenylamine	0.107	0.110	0.107	0.112	0.105	0.102	0.101		0.106	3.67
78)	P	N-Nitrosodiphe...	0.523	0.533	0.531	0.549	0.532	0.525	0.549		0.535	1.94
79)	P	4-Bromophenyl ...	0.191	0.183	0.185	0.195	0.187	0.178	0.188		0.187	3.03
80)	T	Phenacetin	0.369	0.362	0.339	0.385	0.364	0.278	0.335		0.348	10.08
81)	P	Hexachlorobenzene	0.177	0.178	0.179	0.183	0.177	0.171	0.180		0.178	2.11
82)	P	Atrazine	0.184	0.188	0.184	0.187	0.187	0.157	0.184		0.182	6.07
83)	T	4-Aminobiphenyl	0.712	0.729	0.737	0.751	0.733	0.692	0.728		0.726	2.62
84)	P	Pentachlorophenol	0.103	0.084	0.076	0.103	0.089	0.060	0.069		0.083	19.87
85)	T	Pentachloronit...	0.076	0.078	0.074	0.079	0.074	0.061	0.079		0.074	8.51
86)	T	Pronamide	0.223	0.213	0.211	0.227	0.222	0.182	0.203		0.212	7.33
87)	P	Phenanthrene	1.025	1.039	1.036	1.060	1.030	1.010	1.035		1.034	1.48
88)	P	Anthracene	1.040	1.046	1.041	1.067	1.053	0.951	1.052		1.036	3.73
89)	P	Carbazole	0.949	0.934	0.943	0.972	0.943	0.847	0.930		0.931	4.26
90)	P	Di-n-butyl pht...	1.249	1.197	1.201	1.282	1.234	1.018	1.154		1.191	7.27
91)	P	Fluoranthene	1.130	1.082	1.096	1.158	1.124	0.979	1.064		1.090	5.37
92)	I	Chrysene-d12	----------ISTD----------									
93)	P	Pyrene	1.272	1.266	1.233	1.282	1.267	1.220	1.267		1.258	1.80
94)	S	4-Terphenyl-d14	0.936	0.920	0.867	0.941	0.924	0.888	0.893		0.910	3.03
95)	T	Benzidine	0.693	0.669	0.623	0.693	0.692	0.581	0.599		0.650	7.43
96)	T	p-Dimethylamin...	0.260	0.259	0.234	0.261	0.252	0.200	0.227		0.242	9.44
97)	P	Butyl benzyl p...	0.634	0.584	0.545	0.625	0.605	0.478	0.523		0.571	10.09
98)	P	Benz(a)anthracene	1.204	1.147	1.084	1.178	1.171	1.053	1.085		1.132	5.08
99)	P	3,3'-Dichlorob...	0.429	0.414	0.398	0.426	0.413	0.352	0.372		0.400	7.21
100)	P	Chrysene	1.106	1.114	1.064	1.113	1.104	1.108	1.125		1.105	1.74
101)	P	Bis(2-ethylhex...	0.861	0.800	0.742	0.848	0.823	0.572	0.676	0.630	0.744	14.50
102)	P	Di-n-octyl pht...	1.504	1.322	1.133	1.438	1.363	0.962	0.985		1.244	17.49
103)	T	3-Methylcholan...	0.413	0.377	0.349	0.394	0.382	0.286	0.309		0.358	12.91
104)	I	Perylene-d12	----------ISTD----------									
105)	P	Benzo[b]fluora...	1.233	1.133	1.107	1.215	1.178	0.945	1.075		1.127	8.74
106)	P	Benzo[k]fluora...	0.998	1.105	1.128	1.030	1.142	1.067	1.073		1.078	4.83
107)	P	Benzo[a]pyrene	1.021	0.967	0.953	1.029	1.022	0.856	0.933		0.969	6.46
108)	T	Dibenz(a,j)acr...	0.873	0.769	0.767	0.835	0.863	0.545	0.641		0.756	16.14
109)		Indeno[1,2,3-c...	1.256	1.194	1.154	1.243	1.247	1.042	1.186		1.189	6.30
110)	P	Dibenz(a,h)ant...	1.023	0.991	0.964	1.010	1.051	0.776	0.905		0.960	9.77
111)	P	Benzo[g,h,i]pe...	1.028	1.009	0.983	1.030	1.034	0.898	0.923		0.987	5.60

(#) = Out of Range

B022822.M Tue Mar 01 11:30:24 2022

Data Path : C:\MS-9\New\Raw Data\S220301\
Data File : S22030101.D
Acq On : 1 Mar 2022 8:32 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MS-9\New\Calculation Methods\B022822.M
Title : MS-9 BNA CURVE 8270E/625
Last Update : Tue Mar 01 11:30:07 2022

AutoFind: Scans 3165, 3166, 3167; Background Corrected with Scan 3157

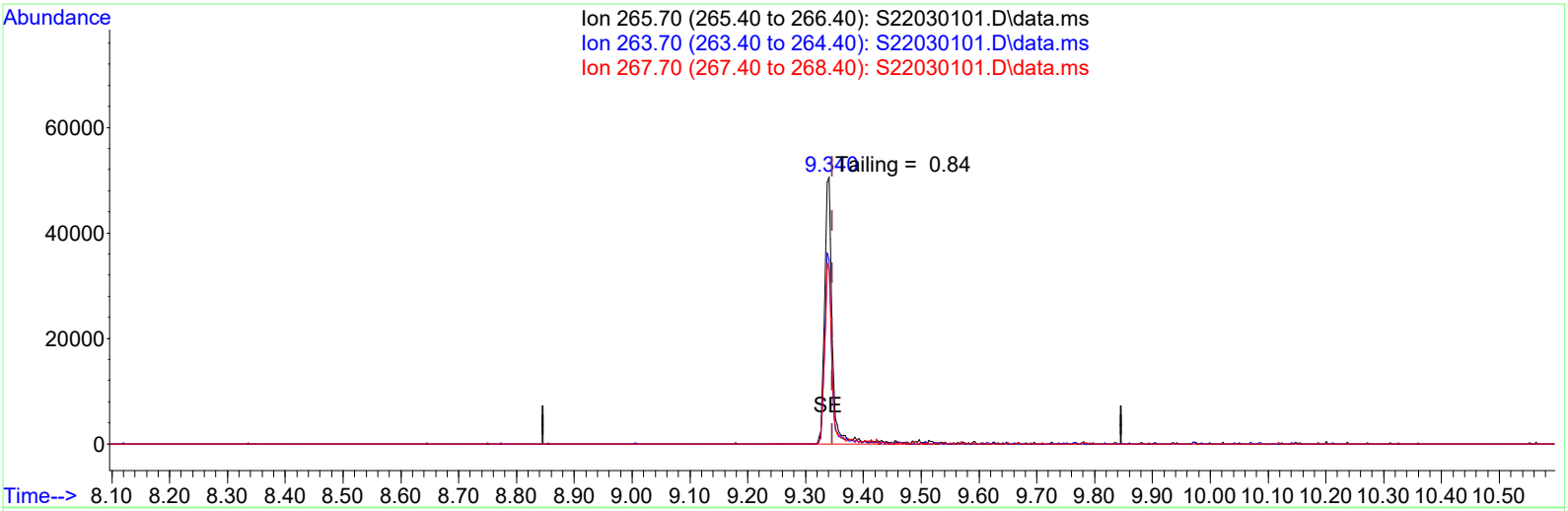
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	55.4	39328	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	51.7	36715	PASS
70	69	0.00	2	0.0	13	PASS
127	198	40	60	55.6	39483	PASS
197	198	0.00	1	0.5	384	PASS
198	198	100	100	100.0	71000	PASS
199	198	5	9	6.0	4280	PASS
275	198	10	30	23.2	16467	PASS
365	198	1	100	2.3	1657	PASS
441	443	0.01	100	79.6	9202	PASS
442	198	40	100	77.8	55240	PASS
443	442	17	23	20.9	11565	PASS

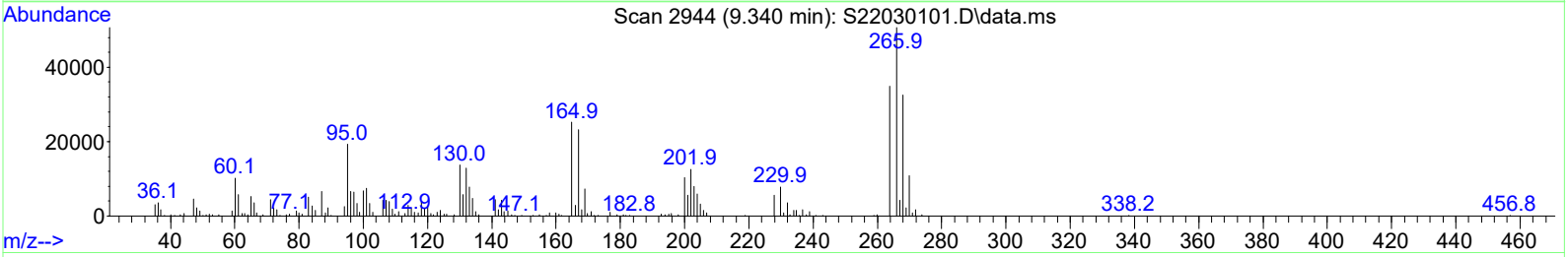
B022822.M Tue Mar 01 14:41:38 2022

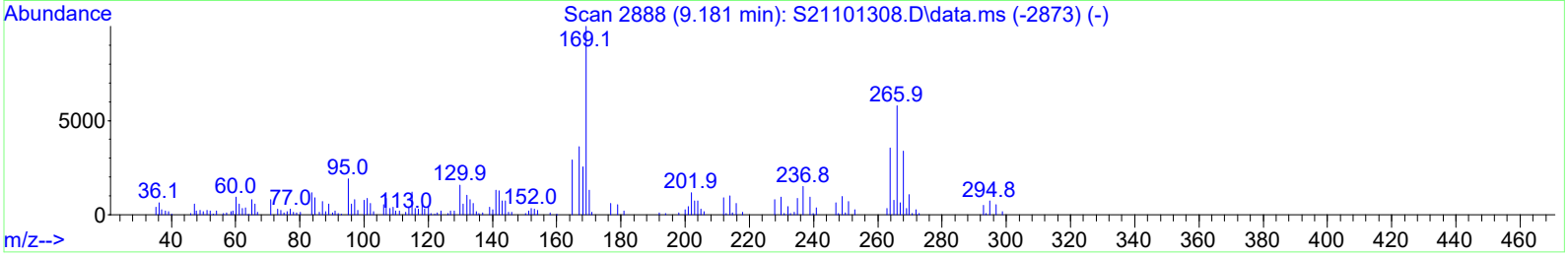
Quantitation Report (Qedit)

Data Path : C:\MS-9\New\Raw Data\S220301\
Data File : S22030101.D
Acq On : 1 Mar 2022 8:32 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 01 14:39:56 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration







TIC: S22030101.D\data.ms

(84) Pentachlorophenol (P)

9.340min (-0.006) 0.00 ng

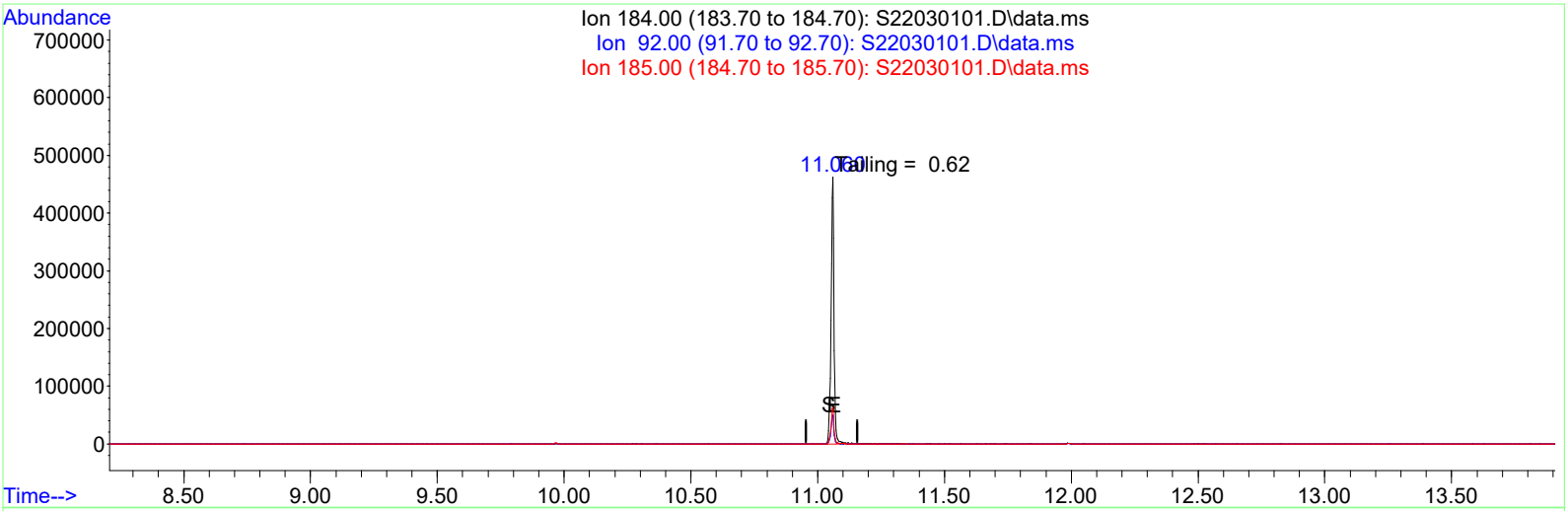
response 44918

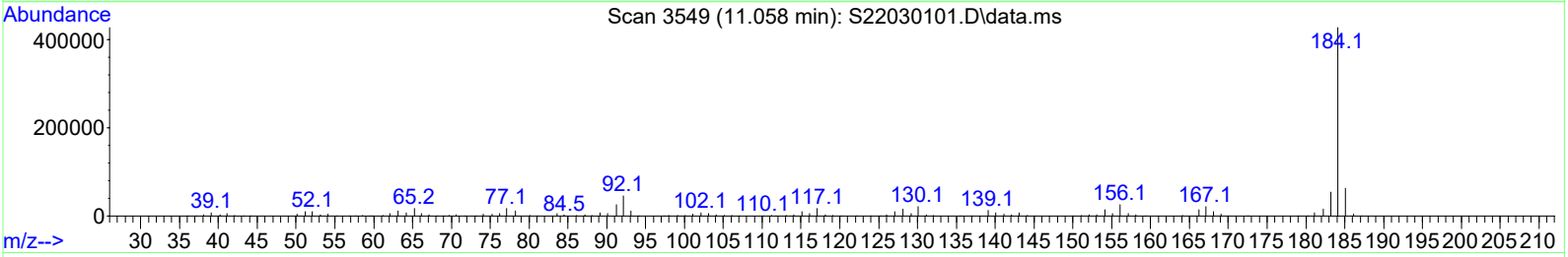
Ion	Exp%	Act%
265.70	100.00	100.00
263.70	63.20	68.10
267.70	62.20	64.85
0.00	0.00	0.00

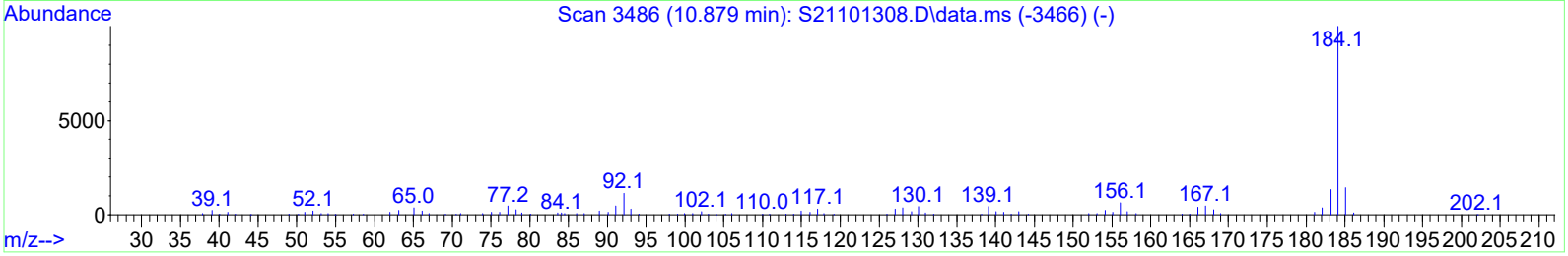
Quantitation Report (Qedit)

Data Path : C:\MS-9\New\Raw Data\S220301\
Data File : S22030101.D
Acq On : 1 Mar 2022 8:32 am
Operator : YH
Sample : DFTPP
Misc : TUNE DFTPP_4
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 01 14:39:56 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration







TIC: S22030101.D\data.ms

(95) Benzidine (T)

11.057min (-11.057) 0.00 ng

response 0

Ion	Exp%	Act%
184.00	100.00	0.00
92.00	10.50	0.00
185.00	14.30	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S220301\
Data File : S22030120.D
Acq On : 1 Mar 2022 1:26 pm
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 14:51:41 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	107	0.00
2		Pyridine	60.000	63.927	-6.5	110	0.00
3	T	2-Picoline	60.000	63.362	-5.6	109	0.00
4	T	Methyl methanesulfonate	60.000	63.248	-5.4	112	0.00
5	S	2-Fluorophenol	60.000	62.207	-3.7	107	0.00
6	T	Ethyl methanesulfonate	60.000	63.172	-5.3	113	0.00
7	P	Benzaldehyde	60.000	60.017	-0.0	103	0.00
8	T	Aniline	60.000	66.356	-10.6	115	0.00
9	S	Phenol-d5	60.000	62.923	-4.9	110	0.00
10	P	Phenol	60.000	62.760	-4.6	110	0.00
11	P	Bis(2-chloroethyl)ether	60.000	62.227	-3.7	112	0.00
12	P	2-Chlorophenol	60.000	62.577	-4.3	108	0.00
13	T	1,3-Dichlorobenzene	60.000	61.773	-3.0	110	0.00
14	CCC	1,4-Dichlorobenzene	60.000	60.078	-0.1	105	0.00
15	T	1,2-Dichlorobenzene	60.000	63.059	-5.1	110	0.00
16	T	Benzyl alcohol	60.000	62.593	-4.3	109	0.00
17	T	Bis(2-chloroisopropyl)ether	60.000	62.048	-3.4	107	0.00
18	P	2-Methylphenol	60.000	63.639	-6.1	110	0.00
19	T	3,4-Methylphenol	120.000	123.441	-2.9	110	0.00
20	PC	N-Nitrosodi-n-propylamine	60.000	63.978	-6.6	112	0.00
21	T	N-Nitrosodimethylamine	60.000	61.731	-2.9	109	0.00
22	T	Hexachloroethane	60.000	62.663	-4.4	109	0.00
23	I	Naphthalene-d8	40.000	40.000	0.0	110	0.00
24	S	Nitrobenzene-d5	60.000	62.942	-4.9	115	0.00
25	P	Acetophenone	120.000	119.058	0.8	110	0.00
26	P	Nitrobenzene	60.000	62.719	-4.5	112	0.00
27	T	N-Nitrosopiperidine	60.000	62.539	-4.2	112	0.00
28	P	Isophorone	60.000	60.955	-1.6	109	0.00
29	P	2-Nitrophenol	60.000	68.452	-14.1	119	0.00
30	P	2,4-Dimethylphenol	60.000	61.257	-2.1	110	0.00
31	P	Bis(2-chloroethoxy)methane	60.000	60.364	-0.6	109	0.00
32	P	2,4-Dichlorophenol	60.000	61.265	-2.1	108	0.00
33	T	1,2,4-Trichlorobenzene	60.000	60.769	-1.3	110	0.00
34	P	Naphthalene	60.000	59.705	0.5	107	0.00
35	T	Benzoic acid	60.000	57.353	4.4	112	0.02
36	T	2,6-Dichlorophenol	60.000	61.929	-3.2	111	0.00
37	P	4-Chloroaniline	60.000	60.724	-1.2	109	0.00
38	P	Hexachlorobutadiene	60.000	58.926	1.8	105	0.00
39	T	a,a-Dimethylphenethylamine	60.000	61.888	-3.1	109	0.02
40	P	Caprolactam	60.000	63.999	-6.7	115	0.03
41	P	4-Chloro-3-methylphenol	60.000	61.103	-1.8	108	0.00
42	T	N-Nitrosodi-n-butylamine	60.000	56.654	5.6	112	0.00
43	P	2-Methylnaphthalene	60.000	60.115	-0.2	109	0.00
44	T	1-Methylnaphthalene	60.000	61.534	-2.6	109	0.00
45	I	Acenaphthene-d10	40.000	40.000	0.0	111	0.00
46	T	1,2,4,5-Tetrachlorobenzene	60.000	59.593	0.7	108	0.00
47	P	Hexachlorocyclopentadiene	60.000	60.719	-1.2	110	0.00
48	P	2,4,6-Trichlorophenol	60.000	60.912	-1.5	106	0.00
49	P	2,4,5-Trichlorophenol	60.000	61.486	-2.5	110	0.00
50	S	2-Fluorobiphenyl	60.000	59.885	0.2	110	0.00
51		Biphenyl	60.000	60.444	-0.7	111	0.00

Data Path : C:\MS-9\New\Raw Data\S220301\
Data File : S22030120.D
Acq On : 1 Mar 2022 1:26 pm
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 14:51:41 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	P	2-Chloronaphthalene	60.000	58.784	2.0	110	0.00
53	T	1-Chloronaphthalene	60.000	59.419	1.0	108	0.00
54	P	2-Nitroaniline	60.000	62.960	-4.9	113	0.00
55	P	3-Nitroaniline	60.000	62.335	-3.9	112	0.00
56	T	Pentachlorobenzene	60.000	60.672	-1.1	111	0.00
57	T	4-Nitroaniline	60.000	61.457	-2.4	112	0.00
58	T	2-Naphthylamine	60.000	59.329	1.1	107	0.00
59	T	1-Naphthylamine	60.000	59.879	0.2	108	0.00
60	P	Dimethyl phthalate	60.000	60.115	-0.2	111	0.00
61	P	Acenaphthylene	60.000	61.257	-2.1	111	0.00
62	P	2,6-Dinitrotoluene	60.000	62.701	-4.5	113	0.00
63	P	Acenaphthene	60.000	59.936	0.1	108	0.00
64	P	2,4-Dinitrophenol	60.000	60.964	-1.6	129	0.00
65	P	Dibenzofuran	60.000	58.891	1.8	109	0.00
66	P	4-Nitrophenol	60.000	67.971	-13.3	111	0.00
67	P	2,4-Dinitrotoluene	60.000	64.578	-7.6	114	0.00
68	T	2,3,4,6-Tetrachlorophenol	60.000	63.438	-5.7	115	0.00
69	P	Diethyl phthalate	60.000	60.299	-0.5	108	0.00
70	P	Fluorene	60.000	60.126	-0.2	108	0.00
71	P	4-Chlorophenyl phenyl ether	60.000	58.649	2.3	106	0.00
72	S	2,4,6-Tribromophenol	60.000	58.470	2.6	108	0.00
73	I	Phenanthrene-d10	40.000	40.000	0.0	108	0.00
74	P	4,6-Dinitro-2-methylphenol	60.000	59.911	0.1	114	0.00
75	T	Azobenzene	60.000	60.949	-1.6	109	0.00
76	T	1,2-Diphenylhydrazine	60.000	61.877	-3.1	109	0.00
77	CCC	Diphenylamine	60.000	60.923	-1.5	106	0.00
78	P	N-Nitrosodiphenylamine	60.000	60.328	-0.5	109	0.00
79	P	4-Bromophenyl phenyl ether	60.000	60.833	-1.4	112	0.00
80	T	Phenacetin	60.000	64.556	-7.6	112	0.00
81	P	Hexachlorobenzene	60.000	59.579	0.7	107	0.00
82	P	Atrazine	60.000	59.778	0.4	104	0.00
83	T	4-Aminobiphenyl	60.000	61.954	-3.3	111	0.00
84	P	Pentachlorophenol	60.000	57.647	3.9	113	0.00
85	T	Pentachloronitrobenzene	60.000	59.745	0.4	103	0.00
86	T	Pronamide	60.000	62.333	-3.9	112	0.00
87	P	Phenanthrene	60.000	61.080	-1.8	110	0.00
88	P	Anthracene	60.000	61.396	-2.3	110	0.00
89	P	Carbazole	60.000	61.981	-3.3	112	0.00
90	P	Di-n-butyl phthalate	60.000	62.049	-3.4	111	0.00
91	P	Fluoranthene	60.000	61.220	-2.0	111	0.00
92	I	Chrysene-d12	40.000	40.000	0.0	107	0.00
93	P	Pyrene	60.000	61.698	-2.8	109	0.00
94	S	4-Terphenyl-d14	60.000	60.226	-0.4	106	0.00
95	T	Benzidine	60.000	62.871	-4.8	109	0.00
96	T	p-Dimethylaminoazobenzene	60.000	62.516	-4.2	104	0.00
97	P	Butyl benzyl phthalate	60.000	64.554	-7.6	112	0.00
98	P	Benz(a)anthracene	60.000	61.730	-2.9	109	0.00
99	P	3,3'-Dichlorobenzidine	60.000	63.064	-5.1	109	0.00
100	P	Chrysene	60.000	61.407	-2.3	109	0.00
101	P	Bis(2-ethylhexyl)phthalate	60.000	66.511	-10.9	110	0.00
102	P	Di-n-octyl phthalate	60.000	65.879	-9.8	110	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S220301\
Data File : S22030120.D
Acq On : 1 Mar 2022 1:26 pm
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 14:51:41 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	60.000	60.225	-0.4	109	0.00
104	I	Perylene-d12	40.000	40.000	0.0	107	0.00
105	P	Benzo[b]fluoranthene	60.000	62.787	-4.6	111	0.00
106	P	Benzo[k]fluoranthene	60.000	60.400	-0.7	105	0.00
107	P	Benzo[a]pyrene	60.000	61.185	-2.0	109	0.00
108	T	Dibenz(a,j)acridine	60.000	64.983	-8.3	114	0.00
109		Indeno[1,2,3-cd]pyrene	60.000	47.335	21.1	84	0.00
110	P	Dibenz(a,h)anthracene	60.000	62.212	-3.7	107	0.00
111	P	Benzo[g,h,i]perylene	60.000	60.704	-1.2	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S220301\
Data File : S22030120.D
Acq On : 1 Mar 2022 1:26 pm
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 14:51:41 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00
2		Pyridine	1.535	1.635	-6.5	110	0.00
3	T	2-Picoline	1.554	1.641	-5.6	109	0.00
4	T	Methyl methanesulfonate	0.774	0.815	-5.3	112	0.00
5	S	2-Fluorophenol	1.264	1.310	-3.6	107	0.00
6	T	Ethyl methanesulfonate	1.084	1.141	-5.3	113	0.00
7	P	Benzaldehyde	1.014	1.015	-0.1	103	0.00
8	T	Aniline	0.902	0.997	-10.5	115	0.00
9	S	Phenol-d5	1.628	1.708	-4.9	110	0.00
10	P	Phenol	1.712	1.791	-4.6	110	0.00
11	P	Bis(2-chloroethyl)ether	1.352	1.403	-3.8	112	0.00
12	P	2-Chlorophenol	1.310	1.366	-4.3	108	0.00
13	T	1,3-Dichlorobenzene	1.469	1.512	-2.9	110	0.00
14	CCC	1,4-Dichlorobenzene	1.466	1.467	-0.1	105	0.00
15	T	1,2-Dichlorobenzene	1.387	1.458	-5.1	110	0.00
16	T	Benzyl alcohol	0.863	0.900	-4.3	109	0.00
17	T	Bis(2-chloroisopropyl)ether	2.000	2.068	-3.4	107	0.00
18	P	2-Methylphenol	1.032	1.094	-6.0	110	0.00
19	T	3,4-Methylphenol	1.406	1.446	-2.8	110	0.00
20	PC	N-Nitrosodi-n-propylamine	0.963	1.027	-6.6	112	0.00
21	T	N-Nitrosodimethylamine	0.781	0.803	-2.8	109	0.00
22	T	Hexachloroethane	0.567	0.592	-4.4	109	0.00
23	I	Naphthalene-d8	1.000	1.000	0.0	110	0.00
24	S	Nitrobenzene-d5	0.347	0.364	-4.9	115	0.00
25	P	Acetophenone	0.458	0.455	0.7	110	0.00
26	P	Nitrobenzene	0.156	0.163	-4.5	112	0.00
27	T	N-Nitrosopiperidine	0.159	0.166	-4.4	112	0.00
28	P	Isophorone	0.655	0.665	-1.5	109	0.00
29	P	2-Nitrophenol	0.140	0.160	-14.3	119	0.00
30	P	2,4-Dimethylphenol	0.281	0.287	-2.1	110	0.00
31	P	Bis(2-chloroethoxy)methane	0.398	0.401	-0.8	109	0.00
32	P	2,4-Dichlorophenol	0.245	0.250	-2.0	108	0.00
33	T	1,2,4-Trichlorobenzene	0.290	0.294	-1.4	110	0.00
34	P	Naphthalene	0.964	0.959	0.5	107	0.00
35	T	Benzoic acid	0.142	0.140	1.4	112	0.02
36	T	2,6-Dichlorophenol	0.239	0.247	-3.3	111	0.00
37	P	4-Chloroaniline	0.396	0.400	-1.0	109	0.00
38	P	Hexachlorobutadiene	0.152	0.149	2.0	105	0.00
39	T	a,a-Dimethylphenethylamine	0.975	1.005	-3.1	109	0.02
40	P	Caprolactam	0.102	0.109	-6.9	115	0.03
41	P	4-Chloro-3-methylphenol	0.269	0.274	-1.9	108	0.00
42	T	N-Nitrosodi-n-butylamine	0.251	0.237	5.6	112	0.00
43	P	2-Methylnaphthalene	0.554	0.555	-0.2	109	0.00
44	T	1-Methylnaphthalene	0.543	0.557	-2.6	109	0.00
45	I	Acenaphthene-d10	1.000	1.000	0.0	111	0.00
46	T	1,2,4,5-Tetrachlorobenzene	0.513	0.510	0.6	108	0.00
47	P	Hexachlorocyclopentadiene	0.281	0.285	-1.4	110	0.00
48	P	2,4,6-Trichlorophenol	0.297	0.302	-1.7	106	0.00
49	P	2,4,5-Trichlorophenol	0.338	0.346	-2.4	110	0.00
50	S	2-Fluorobiphenyl	1.228	1.225	0.2	110	0.00
51		Biphenyl	1.418	1.429	-0.8	111	0.00

Data Path : C:\MS-9\New\Raw Data\S220301\
Data File : S22030120.D
Acq On : 1 Mar 2022 1:26 pm
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 14:51:41 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	P	2-Chloronaphthalene	1.094	1.072	2.0	110	0.00
53	T	1-Chloronaphthalene	0.973	0.964	0.9	108	0.00
54	P	2-Nitroaniline	0.362	0.379	-4.7	113	0.00
55	P	3-Nitroaniline	0.321	0.334	-4.0	112	0.00
56	T	Pentachlorobenzene	0.436	0.441	-1.1	111	0.00
57	T	4-Nitroaniline	0.329	0.337	-2.4	112	0.00
58	T	2-Naphthylamine	1.162	1.149	1.1	107	0.00
59	T	1-Naphthylamine	1.199	1.197	0.2	108	0.00
60	P	Dimethyl phthalate	1.200	1.202	-0.2	111	0.00
61	P	Acenaphthylene	1.648	1.682	-2.1	111	0.00
62	P	2,6-Dinitrotoluene	0.252	0.263	-4.4	113	0.00
63	P	Acenaphthene	1.016	1.015	0.1	108	0.00
64	P	2,4-Dinitrophenol	0.072	0.076	-5.6	129	0.00
65	P	Dibenzofuran	1.500	1.472	1.9	109	0.00
66	P	4-Nitrophenol	0.160	0.181	-13.1	111	0.00
67	P	2,4-Dinitrotoluene	0.332	0.357	-7.5	114	0.00
68	T	2,3,4,6-Tetrachlorophenol	0.212	0.224	-5.7	115	0.00
69	P	Diethyl phthalate	1.235	1.241	-0.5	108	0.00
70	P	Fluorene	1.248	1.251	-0.2	108	0.00
71	P	4-Chlorophenyl phenyl ether	0.562	0.550	2.1	106	0.00
72	S	2,4,6-Tribromophenol	0.116	0.116	0.0	108	0.00
73	I	Phenanthrene-d10	1.000	1.000	0.0	108	0.00
74	P	4,6-Dinitro-2-methylphenol	0.065	0.067	-3.1	114	0.00
75	T	Azobenzene	0.680	0.691	-1.6	109	0.00
76	T	1,2-Diphenylhydrazine	0.159	0.164	-3.1	109	0.00
77	CCC	Diphenylamine	0.106	0.108	-1.9	106	0.00
78	P	N-Nitrosodiphenylamine	0.535	0.538	-0.6	109	0.00
79	P	4-Bromophenyl phenyl ether	0.187	0.189	-1.1	112	0.00
80	T	Phenacetin	0.348	0.374	-7.5	112	0.00
81	P	Hexachlorobenzene	0.178	0.177	0.6	107	0.00
82	P	Atrazine	0.182	0.181	0.5	104	0.00
83	T	4-Aminobiphenyl	0.726	0.750	-3.3	111	0.00
84	P	Pentachlorophenol	0.083	0.087	-4.8	113	0.00
85	T	Pentachloronitrobenzene	0.074	0.074	0.0	103	0.00
86	T	Pronamide	0.212	0.220	-3.8	112	0.00
87	P	Phenanthrene	1.034	1.052	-1.7	110	0.00
88	P	Anthracene	1.036	1.060	-2.3	110	0.00
89	P	Carbazole	0.931	0.962	-3.3	112	0.00
90	P	Di-n-butyl phthalate	1.191	1.231	-3.4	111	0.00
91	P	Fluoranthene	1.090	1.113	-2.1	111	0.00
92	I	Chrysene-d12	1.000	1.000	0.0	107	0.00
93	P	Pyrene	1.258	1.294	-2.9	109	0.00
94	S	4-Terphenyl-d14	0.910	0.913	-0.3	106	0.00
95	T	Benzidine	0.650	0.681	-4.8	109	0.00
96	T	p-Dimethylaminoazobenzene	0.242	0.252	-4.1	104	0.00
97	P	Butyl benzyl phthalate	0.571	0.614	-7.5	112	0.00
98	P	Benz(a)anthracene	1.132	1.165	-2.9	109	0.00
99	P	3,3'-Dichlorobenzidine	0.400	0.421	-5.2	109	0.00
100	P	Chrysene	1.105	1.131	-2.4	109	0.00
101	P	Bis(2-ethylhexyl)phthalate	0.744	0.825	-10.9	110	0.00
102	P	Di-n-octyl phthalate	1.244	1.366	-9.8	110	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-9\New\Raw Data\S220301\
Data File : S22030120.D
Acq On : 1 Mar 2022 1:26 pm
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 14:51:41 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
103	T	3-Methylcholanthrene	0.358	0.383	-7.0	109	0.00
104	I	Perylene-d12	1.000	1.000	0.0	107	0.00
105	P	Benzo[b]fluoranthene	1.127	1.179	-4.6	111	0.00
106	P	Benzo[k]fluoranthene	1.078	1.085	-0.6	105	0.00
107	P	Benzo[a]pyrene	0.969	0.988	-2.0	109	0.00
108	T	Dibenz(a,j)acridine	0.756	0.819	-8.3	114	0.00
109		Indeno[1,2,3-cd]pyrene	1.189	0.938	21.1	84	0.00
110	P	Dibenz(a,h)anthracene	0.960	0.995	-3.6	107	0.00
111	P	Benzo[g,h,i]perylene	0.987	0.998	-1.1	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220301\
Data File : S22030120.D
Acq On : 1 Mar 2022 1:26 pm
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 14:51:41 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Internal Standards		R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	...	4.220	152	57768	40.00	ng		0.00
23) Naphthalene-d8	...	5.824	136	236916	40.00	ng		0.00
45) Acenaphthene-d10	...	7.876	164	126258	40.00	ng		0.00
73) Phenanthrene-d10	...	9.533	188	229397	40.00	ng		0.00
92) Chrysene-d12	...	12.465	240	196304	40.00	ng		0.00
104) Perylene-d12	...	13.924	264	186761	40.00	ng		0.00
System Monitoring Compounds								
5) 2-Fluorophenol	...	2.668	112	113552	62.21	ng		0.00
Spiked Amount 100.000	Range 21 - 119		Recovery = 62.21%					
9) Phenol-d5	...	3.811	99	147973	62.92	ng		0.00
Spiked Amount 100.000	Range 10 - 121		Recovery = 62.92%					
24) Nitrobenzene-d5	...	4.944	82	129238	62.94	ng		0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 125.88%#					
50) 2-Fluorobiphenyl	...	7.146	172	232040	59.89	ng		0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 119.78%#					
72) 2,4,6-Tribromophenol	...	8.770	330	22017	58.47	ng		0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 58.47%					
94) 4-Terphenyl-d14	...	11.344	244	268940	60.23	ng		0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 120.46%					
Target Compounds								Qvalue
2) Pyridine	...	1.402	79	141671	63.93	ng		99
3) 2-Picoline	...	2.043	93	142177	63.36	ng		98
4) Methyl methanesulfonate	...	2.483	80	70662	63.25	ng		98
6) Ethyl methanesulfonate	...	3.281	79	98868	63.17	ng		94
7) Benzaldehyde	...	3.644	105	87920	60.02	ng		95
8) Aniline	...	3.797	66	86405	66.36	ng	#	84
10) Phenol	...	3.828	94	155200	62.76	ng		96
11) Bis(2-chloroethyl)ether	...	3.914	93	121547	62.23	ng		96
12) 2-Chlorophenol	...	3.945	128	118393	62.58	ng		93
13) 1,3-Dichlorobenzene	...	4.141	146	131038	61.77	ng		99
14) 1,4-Dichlorobenzene	...	4.240	146	127159	60.08	ng		98
15) 1,2-Dichlorobenzene	...	4.436	146	126327	63.06	ng		98
16) Benzyl alcohol	...	4.439	108	77987	62.59	ng	#	75
17) Bis(2-chloroisopropyl)ether	...	4.643	45	179220	62.05	ng		91
18) 2-Methylphenol	...	4.626	107	94813	63.64	ng		94
19) 3,4-Methylphenol	...	4.836	107	250592	123.44	ng		97
20) N-Nitrosodi-n-propylamine	...	4.802	70	89009	63.98	ng		96
21) N-Nitrosodimethylamine	...	1.388	42	69615	61.73	ng		91
22) Hexachloroethane	...	4.864	117	51280	62.66	ng		98
25) Acetophenone	...	4.768	105	323117	119.06	ng		96
26) Nitrobenzene	...	4.967	123	58053	62.72	ng	#	85
27) N-Nitrosopiperidine	...	5.157	114	59064	62.54	ng		86
28) Isophorone	...	5.287	82	236342	60.95	ng		98
29) 2-Nitrophenol	...	5.372	139	56900	68.45	ng		96
30) 2,4-Dimethylphenol	...	5.497	122	101842	61.26	ng		97
31) Bis(2-chloroethoxy)methane	...	5.608	93	142388	60.36	ng		98
32) 2,4-Dichlorophenol	...	5.685	162	88882	61.26	ng		97
33) 1,2,4-Trichlorobenzene	...	5.773	180	104474	60.77	ng		100
34) Naphthalene	...	5.849	128	340791	59.71	ng		100
35) Benzoic acid	...	5.651	105	49595	57.35	ng		81
36) 2,6-Dichlorophenol	...	5.960	162	87659	61.93	ng		96
37) 4-Chloroaniline	...	5.954	127	142271	60.72	ng		96
38) Hexachlorobutadiene	...	6.048	225	52968	58.93	ng		97
39) a,a-Dimethylphenethylamine	...	5.750	58	357291	61.89	ng		74
40) Caprolactam	...	6.380	113	38566	64.00	ng	#	56

Data Path : C:\MS-9\New\Raw Data\S220301\
Data File : S22030120.D
Acq On : 1 Mar 2022 1:26 pm
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 14:51:41 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 4-Chloro-3-methylphenol	6.590	107	97357	61.10	ng		94
42) N-Nitrosodi-n-butylamine	6.403	84	84219	56.65	ng		94
43) 2-Methylnaphthalene	6.686	141	197343	60.11	ng		98
44) 1-Methylnaphthalene	6.800	141	198037	61.53	ng		100
46) 1,2,4,5-Tetrachlorobenzene	6.891	216	96556	59.59	ng		99
47) Hexachlorocyclopentadiene	6.897	237	53909	60.72	ng		98
48) 2,4,6-Trichlorophenol	7.044	196	57146	60.91	ng		96
49) 2,4,5-Trichlorophenol	7.081	196	65555	61.49	ng		98
51) Biphenyl	7.248	154	270628	60.44	ng		97
52) 2-Chloronaphthalene	7.246	162	203055	58.78	ng		96
53) 1-Chloronaphthalene	7.268	162	182519	59.42	ng		97
54) 2-Nitroaniline	7.390	65	71858	62.96	ng		92
55) 3-Nitroaniline	7.864	138	63192	62.34	ng		92
56) Pentachlorobenzene	8.074	250	83508	60.67	ng		95
57) 4-Nitroaniline	8.551	138	63782	61.46	ng		86
58) 2-Naphthylamine	8.202	143	217665	59.33	ng		99
59) 1-Naphthylamine	8.299	143	226688	59.88	ng		98
60) Dimethyl phthalate	7.640	163	227645	60.11	ng		100
61) Acenaphthylene	7.711	152	318608	61.26	ng		99
62) 2,6-Dinitrotoluene	7.683	165	49839	62.70	ng	#	78
63) Acenaphthene	7.915	154	192258	59.94	ng		99
64) 2,4-Dinitrophenol	7.981	184	14405	60.96	ng		86
65) Dibenzofuran	8.114	168	278864	58.89	ng		67
66) 4-Nitrophenol	8.106	109	34282	67.97	ng	#	1
67) 2,4-Dinitrotoluene	8.134	165	67683	64.58	ng		89
68) 2,3,4,6-Tetrachlorophenol	8.276	232	42383	63.44	ng		99
69) Diethyl phthalate	8.452	149	235117	60.30	ng		99
70) Fluorene	8.497	166	236891	60.13	ng		100
71) 4-Chlorophenyl phenyl ether	8.529	204	104106	58.65	ng		99
74) 4,6-Dinitro-2-methylphenol	8.585	198	22981	59.91	ng		84
75) Azobenzene	8.702	77	237790	60.95	ng		94
76) 1,2-Diphenylhydrazine	8.704	182	56583	61.88	ng	#	89
77) Diphenylamine	8.670	170	37078	60.92	ng	#	95
78) N-Nitrosodiphenylamine	8.670	168	185002	60.33	ng		99
79) 4-Bromophenyl phenyl ether	9.071	248	65167	60.83	ng		98
80) Phenacetin	9.054	108	128681	64.56	ng		99
81) Hexachlorobenzene	9.116	284	60778	59.58	ng		97
82) Atrazine	9.303	200	62271	59.78	ng	#	94
83) 4-Aminobiphenyl	9.360	169	257953	61.95	ng		99
84) Pentachlorophenol	9.349	266	30063	57.65	ng		98
85) Pentachloronitrobenzene	9.366	237	25508	59.75	ng		91
86) Pronamide	9.476	173	75660	62.33	ng		94
87) Phenanthrene	9.562	178	362049	61.08	ng		99
88) Anthracene	9.616	178	364703	61.40	ng		99
89) Carbazole	9.814	167	330990	61.98	ng		98
90) Di-n-butyl phthalate	10.283	149	423673	62.05	ng		99
91) Fluoranthene	10.876	202	382860	61.22	ng		99
93) Pyrene	11.117	202	380986	61.70	ng		99
95) Benzidine	11.063	184	200526	62.87	ng		99
96) p-Dimethylaminoazobenzene	11.509	225	74226	62.52	ng	#	89
97) Butyl benzyl phthalate	11.929	149	180787	64.55	ng		94
98) Benz(a)anthracene	12.454	228	342909	61.73	ng		99
99) 3,3'-Dichlorobenzidine	12.462	252	123934	63.06	ng		99
100) Chrysene	12.494	228	332946	61.41	ng		100
101) Bis(2-ethylhexyl)phthalate	12.604	149	242826	66.51	ng		94
102) Di-n-octyl phthalate	13.283	149	402113	65.88	ng		95
103) 3-Methylcholanthrene	14.199	268	112652	60.22	ng		95

Data Path : C:\MS-9\New\Raw Data\S220301\
Data File : S22030120.D
Acq On : 1 Mar 2022 1:26 pm
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 14:51:41 2022
Quant Method : C:\MS-9\New\Calculation Methods\B022822.M
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration

Internal Standards	R.T.		QIon	Response	Conc	Units	Dev(Min)
105) Benzo[b]fluoranthene	...	13.569	252	330271	62.79	ng	98
106) Benzo[k]fluoranthene	...	13.598	252	303894	60.40	ng	98
107) Benzo[a]pyrene	...	13.870	252	276723	61.19	ng	98
108) Dibenz(a,j)acridine	...	14.702	279	229451	64.98	ng	99
109) Indeno[1,2,3-cd]pyrene	...	14.841	276	262758	47.33	ng	95
110) Dibenz(a,h)anthracene	...	14.861	278	278827	62.21	ng	99
111) Benzo[g,h,i]perylene	...	15.059	276	279627	60.70	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-9\New\Raw Data\S220301\
Data File : S22030120.D
Acq On : 1 Mar 2022 1:26 pm
Operator : YH
Sample : BNA60
Misc : CCV 8270_TCL4.2_W
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 14:51:41 2022
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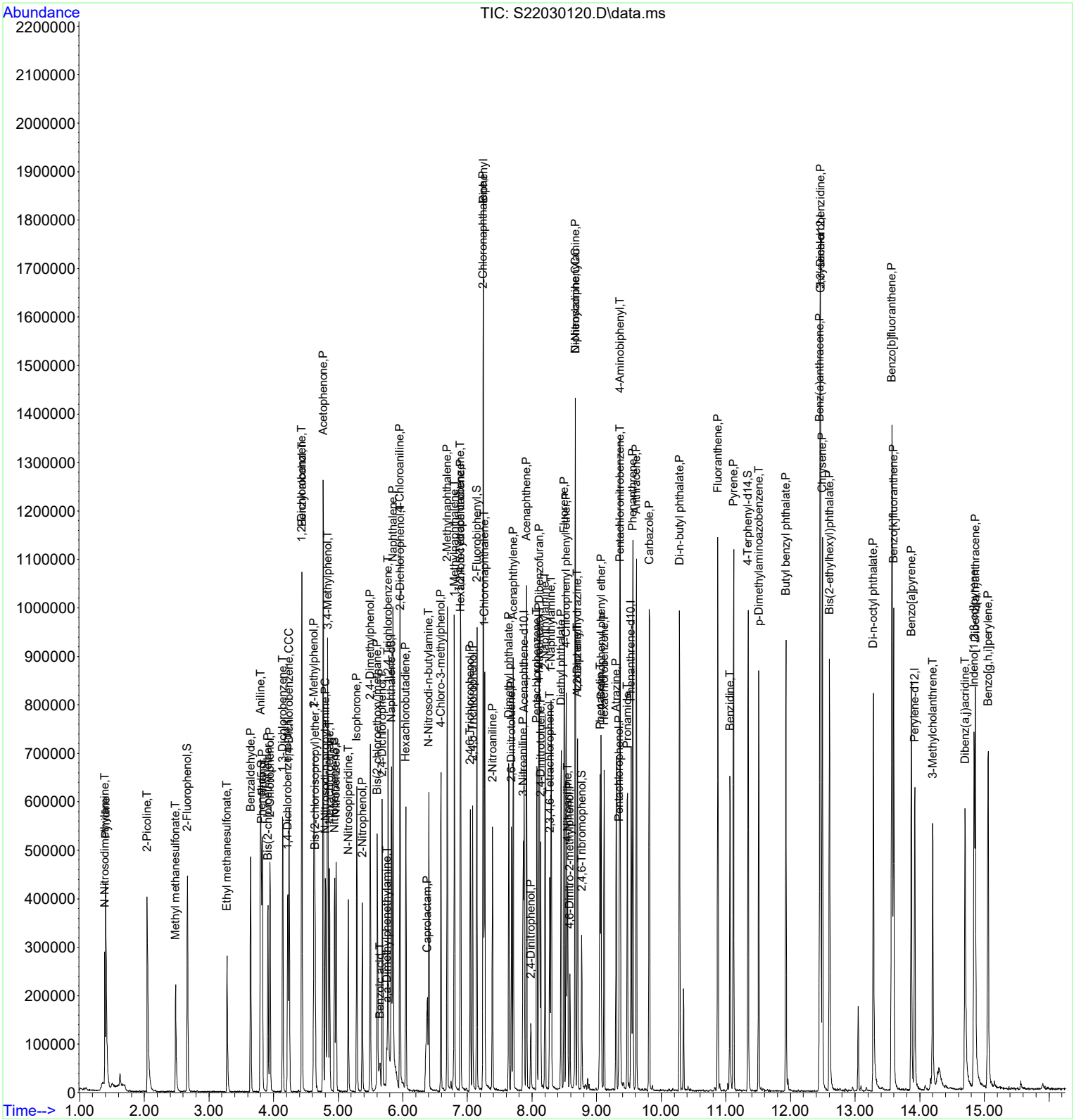
Quant Title : MS-9 BNA CURVE 8270E/625
QLast Update : Tue Mar 01 11:30:07 2022
Response via : Initial Calibration



Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **3/2/2022 11:41:20 A**
Prep End Date: **3/3/2022 3:25:08 P**

Prep Batch **331786** Prep Code: **3510_BNA** Technician: **Zafer Sarihan**

Prep Factor Units: **mL / L**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2202T19-001C	Leachate		0.1	0	0	1	10.000	3/2/2022	3/2/2022
The prep HoldTime was exceeded by 0.0287 days.									
2202T48-006B	Leachate		0.1	0	0	1	10.000	3/2/2022	3/3/2022
2202U60-001B	Leachate		0.1	0	0	1	10.000	3/2/2022	3/3/2022
2202U65-001B	Leachate		0.1	0	0	1	10.000	3/2/2022	3/3/2022
The prep HoldTime was exceeded by 2.17 days.									
2202U66-001B	Leachate		0.1	0	0	1	10.000	3/2/2022	3/3/2022
The prep HoldTime was exceeded by 2.09 days.									
2202V22-001B	Leachate		0.1	0	0	1	10.000	3/2/2022	3/3/2022
2202V46-001B	Leachate		0.1	0	0	1	10.000	3/2/2022	3/3/2022
2202W70-001B	Leachate		0.1	0	0	1	10.000	3/2/2022	3/2/2022
2202W70-001BMS	Leachate		0.1	0	0	1	10.000	3/2/2022	3/2/2022
LCS-331786			0.1	0	0	1	10.000	3/2/2022	3/2/2022
MB-331786			0.1	0	0	1	10.000	3/2/2022	3/2/2022

Injection Log

Directory: C:\MS-15\New\Raw Data\220302

Line	Vial	FileName	Multiplier	SampleName		Misc Info	Injected
1	30	V1521115093.D	1.	CCV 8260 050 W		CCV 8260B_W	2 Mar 2022 12:54
2	31	V1521115094.D	1.	LCS		LCS 1311_V	2 Mar 2022 13:31
3	32	V1521115095.D	1.	5PPB		BLANK	2 Mar 2022 13:56
4	33	V1521115096.D	1.	MB-50X		MBLK 8260_TCL4.2_S	
5	34	V1521115097.D	1.	MB-20X			2 Mar 2022 14:21
6	35	V1521115098.D	1.	2202W70-001A	20X pH5	MBLK 1311_V	2 Mar 2022 14:46
7	36	V1521115099.D	1.	2202M07-006B	20X pH6	SAMP 1311_V	2 Mar 2022 15:12
8	37	V1521115100.D	1.	2202T19-001A	20X pH5	SAMP 1311_V	2 Mar 2022 15:37
9	38	V1521115101.D	1.	2202T48-006A	20X pH9	SAMP 1311_V	2 Mar 2022 16:03
						SAMP 1311_V	2 Mar 2022 16:28
10	39	V1521115102.D	1.	LCS-331888		LCS 1311_V	2 Mar 2022 16:53
11	40	V1521115103.D	1.	2202U60-001A	20X pH6	SAMP 1311_V	2 Mar 2022 17:19
12	41	V1521115104.D	1.	2202U65-001A	20X pH5	SAMP 1311_V	2 Mar 2022 17:44
13	42	V1521115105.D	1.	2202U66-001A	20X pH7	SAMP 1311_V	2 Mar 2022 18:09
14	43	V1521115106.D	1.	2202V22-001A	20X pH7	SAMP 1311_V	2 Mar 2022 18:34
15	44	V1521115107.D	1.	2202V22-001ADUP	20X pH7	DUP 1311_V	2 Mar 2022 18:59
16	45	V1521115108.D	1.	2202V46-001A	20X pH6	SAMP 1311_V	2 Mar 2022 19:24
17	46	V1521115109.D	1.	2202R55-005A	50X 8.82g	SAMP 8260_TCL4.2_S	
18	47	V1521115110.D	1.	2202R55-008A	50X 7.73g	SAMP 8260_TCL4.2_S	2 Mar 2022 19:49
19	48	V1521115111.D	1.	2202R55-006A	50X 8.64g	SAMP 8260_TCL4.2_S	2 Mar 2022 20:14
							2 Mar 2022 20:39
20	49	V1521115112.D	1.	2202W70-001AMS	20X pH5	MS 1311_V	2 Mar 2022 21:04
21	50	V1521115113.D	1.	BLANK		BLANK	2 Mar 2022 21:29
22	50	V1521115114.D	1.	BLANK		BLANK	2 Mar 2022 21:55
23	51	V1521115115.D	1.	CCV 8260 020 W		CCV BTEX_W-MS	
24	51	V1521115116.D	1.	CCV 8260 020 W		CCV BTEX_W-MS	2 Mar 2022 22:19
25	52	V1521115117.D	1.	BLANK		BLANK	2 Mar 2022 22:44
26	53	V1521115118.D	1.	CCV 8260 050 W		CCV BTEX_W-MS	2 Mar 2022 23:10
27	54	V1521115119.D	1.	BLANK		BLANK	2 Mar 2022 23:35
28	55	V1521115120.D	1.	MB-		MBLK BTEX_W-MS	3 Mar 2022 00:00
29	56	V1521115121.D	1.	2202V05-008A	200X RR 2/2	SAMP BTEX_W-MS	3 Mar 2022 00:25
30	57	V1521115122.D	1.	2202V05-012A	200X RR 2/2	SAMP BTEX_W-MS	3 Mar 2022 00:50
31	58	V1521115123.D	1.	2202V05-018A	200X RR 2/2	SAMP BTEX_W-MS	3 Mar 2022 01:16
32	59	V1521115124.D	1.	2202V05-020A	200X RR 2/2	SAMP BTEX_W-MS	3 Mar 2022 01:41
33	60	V1521115125.D	1.	2202V05-013A	200X RR 2/2	SAMP BTEX_W-MS	3 Mar 2022 02:06
34	61	V1521115126.D	1.	2202V05-003A	100X RR 2/2	SAMP BTEX_W-MS	3 Mar 2022 02:31
35	62	V1521115127.D	1.	2202V05-004A	100X RR 2/2	SAMP BTEX_W-MS	3 Mar 2022 02:57
36	63	V1521115128.D	1.	2202V05-016A	100X RR 2/2	SAMP BTEX_W-MS	3 Mar 2022 03:22
37	64	V1521115129.D	1.	2202V05-009A	100X RR 2/3	SAMP BTEX_W-MS	3 Mar 2022 03:47
38	65	V1521115130.D	1.	2202V05-002A	50X RR 2/2	SAMP BTEX_W-MS	3 Mar 2022 04:12
							3 Mar 2022 04:37

Injection Log

Directory: C:\MS-15\New\Raw Data\220302

Line	Vial	FileName	Multiplier	SampleName		Misc Info	Injected
39	66	V1521115131.D	1.	2202V05-005A	50X RR 2/2	SAMP BTEX_W-MS	3 Mar 2022 05:02
40	67	V1521115132.D	1.	2202V05-006A	50X RR 2/2	SAMP BTEX_W-MS	3 Mar 2022 05:27
41	68	V1521115133.D	1.	2202V05-014A	50X RR 2/2	SAMP BTEX_W-MS	3 Mar 2022 05:52
42	69	V1521115134.D	1.	2202V05-017A	50X RR 2/2	SAMP BTEX_W-MS	3 Mar 2022 06:17
43	70	V1521115135.D	1.	2202V05-019A	50X RR 2/2	SAMP BTEX_W-MS	3 Mar 2022 06:42
44	71	V1521115136.D	1.	2202V05-011A	10X RR 2/2	SAMP BTEX_W-MS	3 Mar 2022 07:08
45	72	V1521115137.D	1.	BLANK		BLANK	3 Mar 2022 07:32
46		V1521115138.D	1.				

R: AV

A: CM

Evaluate Continuing Calibration Report

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115093.D
Acq On : 2 Mar 2022 12:54 pm
Operator : CM
Sample : CCV 8260 050 W
Misc : CCV 8260B_W
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Mar 02 14:24:52 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	174	0.00
2	T	Dichlorodifluoromethane	50.000	43.914	12.2	139	0.00
3	pcc	Chloromethane	50.000	38.911	22.2	130	0.00
4	ccc	Vinyl chloride	50.000	42.683	14.6	141	0.00
5	T	Bromomethane	50.000	37.881	24.2#	122	0.00
6	T	Chloroethane	50.000	41.921	16.2	135	0.00
7	T	Trichlorofluoromethane	50.000	42.601	14.8	136	0.00
8	T	Acrolein	50.000	36.964	26.1#	119	0.00
9	Mccc	1,1-Dichloroethene	50.000	42.329	15.3	134	0.00
10		Freon-113	50.000	43.437	13.1	136	0.01
11	T	Acetone	100.000	107.293	-7.3	187	0.00
12	T	Iodomethane	100.000	92.218	7.8	144	0.00
13	T	Carbon disulfide	100.000	93.773	6.2	142	0.00
14		Methyl acetate	50.000	41.191	17.6	139	0.00
15	T	Vinyl acetate	100.000	86.367	13.6	131	0.00
16	T	Methylene chloride	50.000	43.419	13.2	140	0.00
17	T	Acrylonitrile	50.000	41.580	16.8	136	0.00
18		Methyl tert-butyl ether	50.000	38.496	23.0#	117	0.00
19	T	trans-1,2-Dichloroethene	50.000	46.394	7.2	143	0.00
20	pcc	1,1-Dichloroethane	50.000	41.334	17.3	130	0.01
21	T	2,2-Dichloropropane	50.000	47.741	4.5	149	0.00
22	T	cis-1,2-Dichloroethene	50.000	46.654	6.7	148	0.01
23	T	2-Butanone	100.000	106.332	-6.3	178	0.00
24	T	Bromochloromethane	50.000	47.820	4.4	152	0.00
25	ccc	Chloroform	50.000	41.713	16.6	132	0.00
26		Cyclohexane	50.000	44.895	10.2	139	0.00
27	T	1,1,1-Trichloroethane	50.000	41.976	16.0	130	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	170	0.00
29	S	Dibromofluoromethane	50.000	47.345	5.3	154	0.01
30	T	1,1-Dichloropropene	50.000	52.065	-4.1	160	0.00
31	T	Carbon tetrachloride	50.000	47.218	5.6	141	0.00
32	M	Benzene	50.000	46.807	6.4	149	0.00
33	T	1,2-Dichloroethane	50.000	37.512	25.0#	119	0.00
34	M	Trichloroethene	50.000	49.280	1.4	154	0.00
35		Methylcyclohexane	50.000	46.591	6.8	138	0.01
36	ccc	1,2-Dichloropropane	50.000	42.867	14.3	137	0.00
37	T	Dibromomethane	50.000	43.676	12.6	138	0.01
38	T	Bromodichloromethane	50.000	44.513	11.0	134	0.00
39	T	2-Chloroethyl vinyl ether	100.000	74.553	25.4#	116	0.00
40	T	cis-1,3-Dichloropropene	50.000	45.291	9.4	139	0.00
41	T	4-Methyl-2-pentanone	100.000	79.028	21.0#	117	0.00
42	S	Toluene-d8	50.000	47.468	5.1	160	0.00
43	Mccc	Toluene	50.000	44.900	10.2	148	0.00
44	T	trans-1,3-Dichloropropene	50.000	40.259	19.5	121	0.00
45	T	1,1,2-Trichloroethane	50.000	40.140	19.7	134	0.02
46	I	Chlorobenzene-d5	50.000	50.000	0.0	155	0.00
47	T	2-Hexanone	100.000	81.953	18.0	115	0.00
48	T	Tetrachloroethene	50.000	50.421	-0.8	153	0.00
49	T	1,3-Dichloropropane	50.000	42.317	15.4	126	0.01
50	T	Dibromochloromethane	50.000	47.309	5.4	130	0.00
51	T	1,2-Dibromoethane	50.000	44.635	10.7	130	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115093.D
Acq On : 2 Mar 2022 12:54 pm
Operator : CM
Sample : CCV 8260 050 W
Misc : CCV 8260B_W
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Mar 02 14:24:52 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	Mpcc	Chlorobenzene	50.000	47.617	4.8	142	0.00
53	T	1,1,1,2-Tetrachloroethane	50.000	54.829	-9.7	148	0.00
54	ccc	Ethylbenzene	50.000	47.756	4.5	136	0.00
55	T	m,p-Xylene	100.000	95.684	4.3	137	0.01
56	T	o-Xylene	50.000	50.143	-0.3	137	0.00
57	T	Styrene	50.000	52.579	-5.2	142	0.00
58	pcc	Bromoform	50.000	44.539	10.9	136	0.01
59	S	4-Bromofluorobenzene	50.000	47.513	5.0	145	0.00
60	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	167	0.01
61	T	Bromobenzene	50.000	44.834	10.3	147	0.00
62	pcc	1,1,2,2-Tetrachloroethane	50.000	43.262	13.5	135	0.00
63	T	1,2,3-Trichloropropane	50.000	42.361	15.3	130	0.01
64	T	Isopropylbenzene	50.000	49.339	1.3	149	0.00
65	T	n-Propylbenzene	50.000	45.834	8.3	145	0.01
66	T	trans-1,4-Dichloro-2-butene	100.000	93.868	6.1	145	0.01
67	T	2-Chlorotoluene	50.000	44.918	10.2	140	0.00
68	T	4-Chlorotoluene	50.000	43.649	12.7	138	0.00
69	T	1,3,5-Trimethylbenzene	50.000	49.473	1.1	148	0.00
70	T	tert-Butylbenzene	50.000	52.328	-4.7	154	0.02
71	T	1,2,4-Trimethylbenzene	50.000	50.048	-0.1	149	0.00
72	T	sec-Butylbenzene	50.000	53.745	-7.5	158	0.00
73	T	1,3-Dichlorobenzene	50.000	50.693	-1.4	157	0.00
74	T	4-Isopropyltoluene	50.000	54.672	-9.3	158	0.01
75	T	1,4-Dichlorobenzene	50.000	48.521	3.0	156	0.00
76	T	1,2-Dichlorobenzene	50.000	51.698	-3.4	161	0.00
77	T	n-Butylbenzene	50.000	55.162	-10.3	158	0.01
78	T	1,2-Dibromo-3-chloropropane	50.000	45.651	8.7	141	0.00
79	T	1,2,4-Trichlorobenzene	50.000	62.492	-25.0#	190	0.00
80	T	Hexachlorobutadiene	50.000	63.726	-27.5#	200	0.00
81	T	Naphthalene	50.000	68.066	-36.1#	185	0.00
82	T	1,2,3-Trichlorobenzene	50.000	65.568	-31.1#	201	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

GC/MS QA-QC Check Report

Tune File : C:\MS-15\New\Raw Data\220302\V1521115093.D
Tune Time : 2 Mar 2022 12:54 pm

Daily Calibration File : C:\MS-15\New\Raw Data\220302\V1521115093.D

					677220	1001780	877287
				538776			
File	Sample	Surrogate Recovery %			Internal Standard Responses		
V1521115094.D							
	LCS	95	91	94	678880	985342	806762
				497122			
V1521115095.D							
	5PPB	100	87	98	628825	880731	707973
				455051			
V1521115096.D							
	MB-50X	96	89	93	641731	940182	806591
				464707			
V1521115097.D							
	MB-20X	103	87	96	589697	805944	666285
				397314			
V1521115098.D							
	2202W70-00	103	92	97	552999	779073	701375
				413409			
V1521115099.D							
	2202M07-00	99	90	93	540965	781707	681145
				369322			
V1521115100.D							
	2202T19-00	110	87	98	473984	638685	525492
				317037			
V1521115101.D							
	2202T48-00	110	87	102	469206	627859	516063
				316549			
V1521115102.D							
	LCS-331888	104	95	102	486606	655044	556210
				383244			
V1521115103.D							
	2202U60-00	95	94	95	558088	803945	717940
				396335			
V1521115104.D							
	2202U65-00	97	92	96	509833	741842	648779
				357174			
V1521115105.D							
	2202U66-00	97	85	92	579786	824046	629387
				375074			
V1521115106.D							
	2202V22-00	100	86	95	541250	760276	588836
				363815			
V1521115107.D							
	2202V22-00	104	88	96	482646	673134	568254
				356115			

V1521115108.D							
	2202V46-00	105	84	100	490235	669278	521628
				320309			
V1521115109.D							
	2202R55-00	104	84	98	485733	665702	516831
				316834			
V1521115110.D							
	2202R55-00	112	85	103	449324	595274	470419
				326464			
V1521115111.D							
	2202R55-00	96	95	97	518376	732405	680136
				394355			
V1521115112.D							
	2202W70-00	97	96	99	530097	759807	673363
				436341			

(fails) - fails 12hr time check * - fails criteria

Created: Thu Mar 03 10:01:23 2022 MS-15

Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115093.D
Acq On : 2 Mar 2022 12:54 pm
Operator : CM
Sample : CCV 8260 050 W
Misc : CCV 8260B_W
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Mar 02 14:24:52 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.637	168	677220	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	5.208	114	1001775	50.00	ug/L		0.00
46) Chlorobenzene-d5	7.586	117	877287	50.00	ug/L		0.00
60) 1,4-Dichlorobenzene-d4	9.665	152	538776	50.00	ug/L		0.01
System Monitoring Compounds							
29) Dibromofluoromethane	4.630	113	369237	47.35	ug/L		0.01
Spiked Amount 50.000	Range 79 - 127		Recovery = 94.70%				
42) Toluene-d8	6.376	98	1204012	47.47	ug/L		0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 94.94%				
59) 4-Bromofluorobenzene	8.609	95	495564	47.51	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 95.02%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.563	85	363570	43.91	ug/L		95
3) Chloromethane	1.746	50	195129	38.91	ug/L		98
4) Vinyl chloride	1.858	62	237271	42.68	ug/L		98
5) Bromomethane	2.172	94	171117	37.88	ug/L		100
6) Chloroethane	2.256	64	137030	41.92	ug/L		98
7) Trichlorofluoromethane	2.477	101	488917	42.60	ug/L	#	98
8) Acrolein	2.830	56	30491	36.96	ug/L		93
9) 1,1-Dichloroethene	2.914	96	196690	42.33	ug/L		82
10) Freon-113	2.917	101	229092	43.44	µg/L		97
11) Acetone	2.955	58	27988	107.29	ug/L		95
12) Iodomethane	3.042	142	691803	92.22	ug/L		90
13) Carbon disulfide	3.100	76	1351296	93.77	ug/L		100
14) Methyl acetate	3.212	43	118540	41.19	µg/L		96
15) Vinyl acetate	3.860	43	752967	86.37	ug/L		95
16) Methylene chloride	3.299	84	243007	43.42	ug/L		88
17) Acrylonitrile	3.488	53	70290	41.58	ug/L		95
18) Methyl tert-butyl ether	3.507	73	605977	38.50	µg/L		99
19) trans-1,2-Dichloroethene	3.514	96	227742	46.39	ug/L		88
20) 1,1-Dichloroethane	3.841	63	473019	41.33	ug/L		99
21) 2,2-Dichloropropane	4.281	77	397887	47.74	ug/L		99
22) cis-1,2-Dichloroethene	4.277	96	246159	46.65	ug/L		95
23) 2-Butanone	4.277	72	33629	106.33	ug/L		86
24) Bromochloromethane	4.457	128	109400	47.82	ug/L		83
25) Chloroform	4.508	83	486100	41.71	ug/L		100
26) Cyclohexane	4.707	56	413054	44.89	µg/L		86
27) 1,1,1-Trichloroethane	4.659	97	442354	41.98	ug/L		94
30) 1,1-Dichloropropene	4.781	110	116709	52.07	ug/L		85
31) Carbon tetrachloride	4.784	119	368230	47.22	ug/L		94
32) Benzene	4.942	78	924085	46.81	ug/L		99
33) 1,2-Dichloroethane	4.951	62	367780	37.51	ug/L	#	94
34) Trichloroethene	5.423	130	223988	49.28	ug/L		93
35) Methylcyclohexane	5.580	55	337496	46.59	µg/L	#	79
36) 1,2-Dichloropropane	5.603	63	231806	42.87	ug/L		93
37) Dibromomethane	5.699	93	138546	43.68	ug/L		87
38) Bromodichloromethane	5.805	83	322448	44.51	ug/L		98
39) 2-Chloroethyl vinyl ether	6.020	63	193155	74.55	µg/L		97
40) cis-1,3-Dichloropropene	6.155	75	353036	45.29	ug/L		97
41) 4-Methyl-2-pentanone	6.264	43	254022	79.03	ug/L		94
43) Toluene	6.434	92	549629	44.90	ug/L		96
44) trans-1,3-Dichloropropene	6.594	75	281595	40.26	ug/L		94
45) 1,1,2-Trichloroethane	6.758	83	135255	40.14	ug/L		97
47) 2-Hexanone	6.941	43	142181	81.95	ug/L		98

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115093.D
Acq On : 2 Mar 2022 12:54 pm
Operator : CM
Sample : CCV 8260 050 W
Misc : CCV 8260B_W
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Mar 02 14:24:52 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration

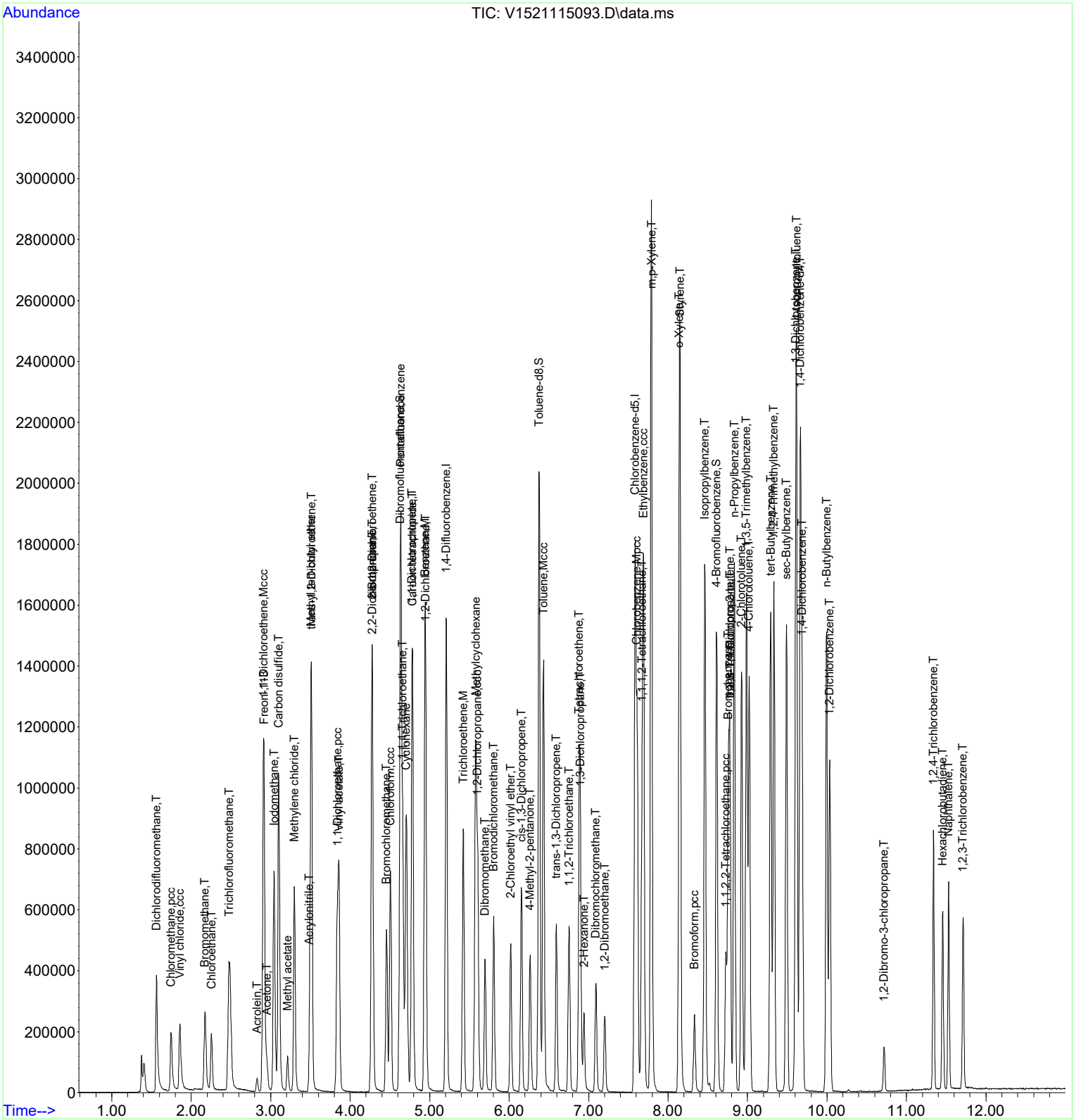
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) Tetrachloroethene	6.883	166	251044	50.42 ug/L	97
49) 1,3-Dichloropropane	6.899	76	281504	42.32 ug/L	97
50) Dibromochloromethane	7.092	129	174988	47.31 ug/L	94
51) 1,2-Dibromoethane	7.204	107	156199	44.63 ug/L #	97
52) Chlorobenzene	7.608	112	562105	47.62 ug/L	93
53) 1,1,1,2-Tetrachloroethane	7.672	131	218210	54.83 ug/L	96
54) Ethylbenzene	7.692	91	1051637	47.76 ug/L	96
55) m,p-Xylene	7.791	91	1685150	95.68 ug/L	98
56) o-Xylene	8.141	91	901348	50.14 ug/L	94
57) Styrene	8.151	104	636896	52.58 ug/L	94
58) Bromoform	8.333	173	118702	44.54 ug/L	99
61) Bromobenzene	8.757	156	254736	44.83 ug/L	86
62) 1,1,2,2-Tetrachloroethane	8.728	83	216926	43.26 ug/L	98
63) 1,2,3-Trichloropropane	8.780	75	364726	42.36 ug/L	94
64) Isopropylbenzene	8.462	105	1107361	49.34 ug/L	94
65) n-Propylbenzene	8.834	91	1328018	45.83 ug/L	97
66) trans-1,4-Dichloro-2-b...	8.780	124	23826	93.87 ug/L	74
67) 2-Chlorotoluene	8.924	91	783382	44.92 ug/L	96
68) 4-Chlorotoluene	9.020	91	907947	43.65 ug/L	96
69) 1,3,5-Trimethylbenzene	8.985	105	883091	49.47 ug/L	97
70) tert-Butylbenzene	9.293	119	835754	52.33 ug/L	97
71) 1,2,4-Trimethylbenzene	9.331	105	906949	50.05 ug/L	97
72) sec-Butylbenzene	9.489	105	1050968	53.74 ug/L	94
73) 1,3-Dichlorobenzene	9.607	146	468180	50.69 ug/L	93
74) 4-Isopropyltoluene	9.617	119	892700	54.67 ug/L	95
75) 1,4-Dichlorobenzene	9.688	146	462933	48.52 ug/L	98
76) 1,2-Dichlorobenzene	10.034	146	422008	51.70 ug/L	94
77) n-Butylbenzene	9.996	91	811413	55.16 ug/L	98
78) 1,2-Dibromo-3-chloropr...	10.718	75	34495	45.65 ug/L	86
79) 1,2,4-Trichlorobenzene	11.340	180	201376	62.49 ug/L	96
80) Hexachlorobutadiene	11.456	225	104751	63.73 ug/L	99
81) Naphthalene	11.530	128	392641	68.07 ug/L	100
82) 1,2,3-Trichlorobenzene	11.712	180	146749	65.57 ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115093.D
Acq On : 2 Mar 2022 12:54 pm
Operator : CM
Sample : CCV 8260 050 W
Misc : CCV 8260B_W
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Mar 02 14:24:52 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115095.D
Acq On : 2 Mar 2022 1:56 pm
Operator : CM
Sample : 5PPB
Misc : BLANK
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 02 14:24:21 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.640	168	628825	50.00	ug/L		0.01
28) 1,4-Difluorobenzene	5.211	114	880731	50.00	ug/L		0.01
46) Chlorobenzene-d5	7.586	117	707973	50.00	ug/L		0.00
60) 1,4-Dichlorobenzene-d4	9.665	152	455051	50.00	ug/L		0.01
System Monitoring Compounds							
29) Dibromofluoromethane	4.630	113	342527	49.96	ug/L		0.01
Spiked Amount 50.000	Range 79 - 127		Recovery = 99.92%				
42) Toluene-d8	6.379	98	974772	43.71	ug/L		0.01
Spiked Amount 50.000	Range 82 - 120		Recovery = 87.42%				
59) 4-Bromofluorobenzene	8.609	95	412683	49.03	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 98.06%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.566	85	36417	4.74	ug/L		96
3) Chloromethane	1.746	50	20333	4.37	ug/L		93
4) Vinyl chloride	1.858	62	23427	4.54	ug/L		86
5) Bromomethane	2.169	94	18352	4.38	ug/L		81
6) Chloroethane	2.259	64	15301	5.04	ug/L		99
7) Trichlorofluoromethane	2.487	101	48384	4.54	ug/L	#	96
8) Acrolein	2.837	56	2690	3.51	ug/L		90
9) 1,1-Dichloroethene	2.914	96	22157	5.14	ug/L		86
10) Freon-113	2.917	101	26757	5.46	µg/L		93
11) Acetone	2.962	58	2065	8.53	ug/L		83
12) Iodomethane	3.045	142	76600	11.00	ug/L		92
13) Carbon disulfide	3.103	76	140940	10.53	ug/L		100
14) Methyl acetate	3.219	43	10788	4.04	µg/L		95
15) Vinyl acetate	3.864	43	54932	6.79	ug/L	#	88
16) Methylene chloride	3.302	84	28480	4.41	ug/L		91
17) Acrylonitrile	3.494	53	6701	4.27	ug/L		91
18) Methyl tert-butyl ether	3.507	73	55511	3.80	µg/L	#	88
19) trans-1,2-Dichloroethene	3.514	96	24664	5.41	ug/L		84
20) 1,1-Dichloroethane	3.841	63	50206	4.72	ug/L		99
21) 2,2-Dichloropropane	4.284	77	40772	5.27	ug/L		100
22) cis-1,2-Dichloroethene	4.274	96	25597	5.22	ug/L		82
23) 2-Butanone	4.277	72	2819	9.60	ug/L	#	44
24) Bromochloromethane	4.467	128	10694	5.03	ug/L	#	57
25) Chloroform	4.508	83	49330	4.56	ug/L		100
26) Cyclohexane	4.711	56	44202	5.17	µg/L		96
27) 1,1,1-Trichloroethane	4.663	97	44900	4.59	ug/L	#	33
30) 1,1-Dichloropropene	4.784	110	12480	6.33	ug/L	#	63
31) Carbon tetrachloride	4.788	119	36202	5.28	ug/L		95
32) Benzene	4.945	78	90086	5.19	ug/L		98
33) 1,2-Dichloroethane	4.951	62	34706	4.03	ug/L	#	89
34) Trichloroethene	5.423	130	21604	5.41	ug/L		78
35) Methylcyclohexane	5.580	55	33780	5.30	µg/L		91
36) 1,2-Dichloropropane	5.603	63	21197	4.46	ug/L		93
37) Dibromomethane	5.702	93	13323	4.78	ug/L		93
38) Bromodichloromethane	5.808	83	26235	4.12	ug/L		96
39) 2-Chloroethyl vinyl ether	6.023	63	11783	5.17	µg/L		93
40) cis-1,3-Dichloropropene	6.158	75	23377	3.41	ug/L		92
41) 4-Methyl-2-pentanone	6.267	43	17656	6.25	ug/L		93
43) Toluene	6.434	92	49602	4.61	ug/L		99
44) trans-1,3-Dichloropropene	6.598	75	20043	3.26	ug/L		89
45) 1,1,2-Trichloroethane	6.758	83	11708	3.95	ug/L		90
47) 2-Hexanone	6.934	43	9886	7.06	ug/L		83

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115095.D
Acq On : 2 Mar 2022 1:56 pm
Operator : CM
Sample : 5PPB
Misc : BLANK
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 02 14:24:21 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration

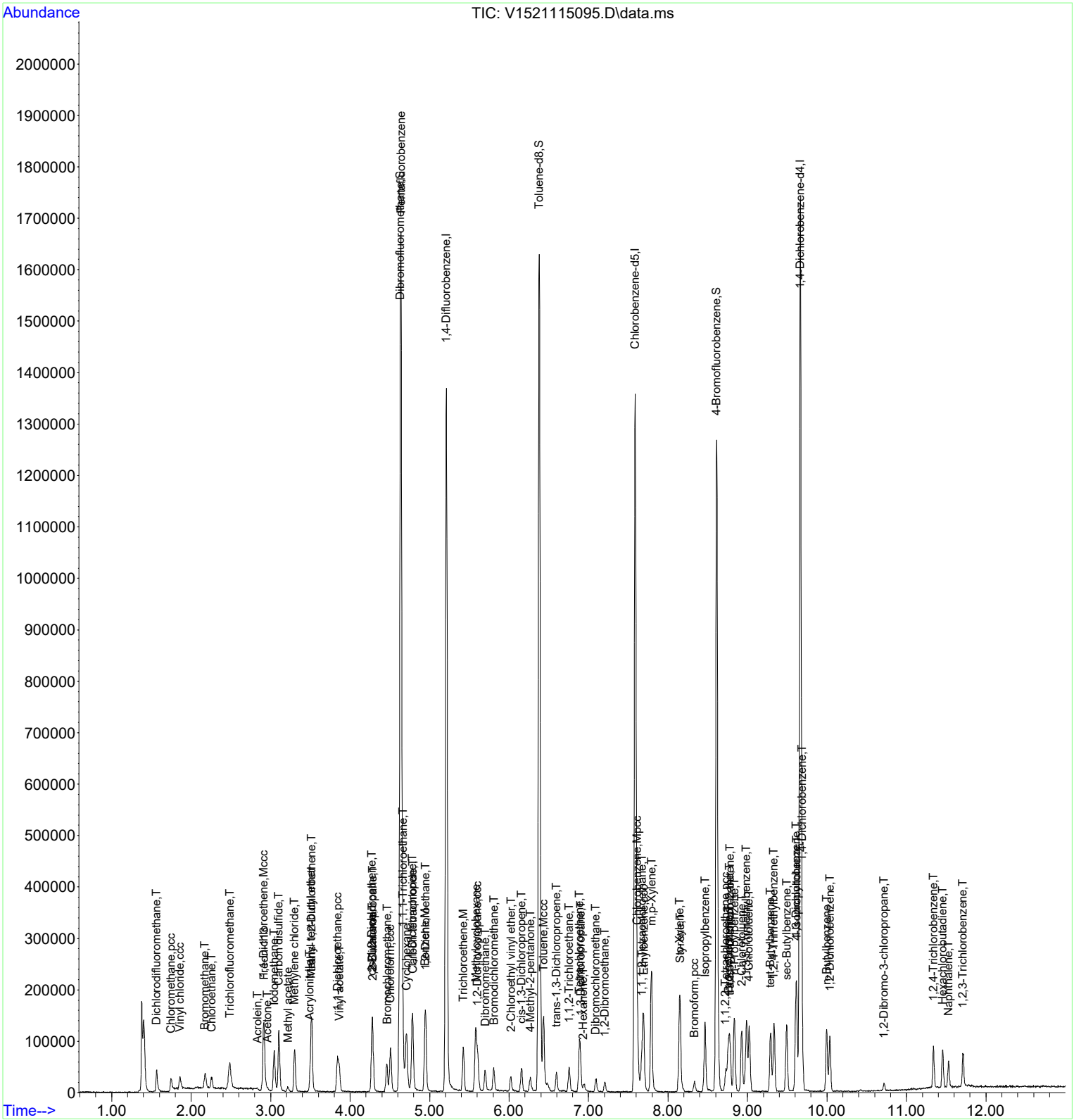
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
48) Tetrachloroethene	6.886	166	22125	5.51 ug/L		88
49) 1,3-Dichloropropane	6.902	76	23157	4.31 ug/L		98
50) Dibromochloromethane	7.088	129	13066	4.38 ug/L		93
51) 1,2-Dibromoethane	7.204	107	12412	4.40 ug/L		95
52) Chlorobenzene	7.612	112	52688	5.53 ug/L		90
53) 1,1,1,2-Tetrachloroethane	7.672	131	19113	5.95 ug/L		86
54) Ethylbenzene	7.695	91	88832	5.00 ug/L		95
55) m,p-Xylene	7.791	91	139906	9.84 ug/L		96
56) o-Xylene	8.144	91	70163	4.84 ug/L		87
57) Styrene	8.154	104	46426	4.75 ug/L		95
58) Bromoform	8.330	173	9248	5.04 ug/L		97
61) Bromobenzene	8.760	156	22794	4.75 ug/L		91
62) 1,1,2,2-Tetrachloroethane	8.725	83	20571	4.86 ug/L		89
63) 1,2,3-Trichloropropane	8.776	75	32283	4.44 ug/L	#	71
64) Isopropylbenzene	8.465	105	79164	4.18 ug/L		99
65) n-Propylbenzene	8.834	91	109401	4.47 ug/L		96
66) trans-1,4-Dichloro-2-b...	8.780	124	1905	8.89 ug/L	#	41
67) 2-Chlorotoluene	8.927	91	68080	4.62 ug/L		87
68) 4-Chlorotoluene	9.020	91	82790	4.71 ug/L		96
69) 1,3,5-Trimethylbenzene	8.985	105	71539	4.75 ug/L		99
70) tert-Butylbenzene	9.290	119	59853	4.44 ug/L		97
71) 1,2,4-Trimethylbenzene	9.331	105	73030	4.77 ug/L		98
72) sec-Butylbenzene	9.492	105	85670	5.19 ug/L		97
73) 1,3-Dichlorobenzene	9.611	146	45149	5.79 ug/L		100
74) 4-Isopropyltoluene	9.617	119	67852	4.92 ug/L		96
75) 1,4-Dichlorobenzene	9.684	146	47994	5.96 ug/L		96
76) 1,2-Dichlorobenzene	10.037	146	40153	5.82 ug/L		93
77) n-Butylbenzene	9.996	91	61532	4.95 ug/L		96
78) 1,2-Dibromo-3-chloropr...	10.718	75	3352	5.25 ug/L		81
79) 1,2,4-Trichlorobenzene	11.340	180	20857	7.66 ug/L		98
80) Hexachlorobutadiene	11.456	225	13305	9.44 ug/L		91
81) Naphthalene	11.530	128	32563	6.68 ug/L		100
82) 1,2,3-Trichlorobenzene	11.709	180	17936	9.49 ug/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115095.D
Acq On : 2 Mar 2022 1:56 pm
Operator : CM
Sample : 5PPB
Misc : BLANK
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 02 14:24:21 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115097.D
Acq On : 2 Mar 2022 2:46 pm
Operator : CM
Sample : MB-20X
Misc : MBLK 1311_V
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Mar 02 16:08:11 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.640	168	589697	50.00	ug/L	0.01
28) 1,4-Difluorobenzene	5.211	114	805944	50.00	ug/L	0.01
46) Chlorobenzene-d5	7.586	117	666285	50.00	ug/L	0.01
60) 1,4-Dichlorobenzene-d4	9.665	152	397314	50.00	ug/L	0.01
System Monitoring Compounds						
29) Dibromofluoromethane	4.631	113	323269	51.52	ug/L	0.01
Spiked Amount 50.000	Range 79 - 127		Recovery = 103.04%			
42) Toluene-d8	6.379	98	886657	43.45	ug/L	0.01
Spiked Amount 50.000	Range 82 - 120		Recovery = 86.90%			
59) 4-Bromofluorobenzene	8.610	95	381196	48.12	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 96.24%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Acrolein	0.000		0	N.D.		
9) 1,1-Dichloroethene	0.000		0	N.D.		
10) Freon-113	0.000		0	N.D.		
11) Acetone	0.000		0	N.D.		
12) Iodomethane	0.000		0	N.D.		
13) Carbon disulfide	3.110	76	1680	0.13	ug/L	100
14) Methyl acetate	0.000		0	N.D. d		
15) Vinyl acetate	0.000		0	N.D.		
16) Methylene chloride	3.302	84	2540	Below Cal		80
17) Acrylonitrile	0.000		0	N.D.		
18) Methyl tert-butyl ether	0.000		0	N.D.		
19) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) 1,1-Dichloroethane	0.000		0	N.D.		
21) 2,2-Dichloropropane	0.000		0	N.D.		
22) cis-1,2-Dichloroethene	0.000		0	N.D.		
23) 2-Butanone	0.000		0	N.D. d		
24) Bromochloromethane	0.000		0	N.D.		
25) Chloroform	0.000		0	N.D.		
26) Cyclohexane	0.000		0	N.D. d		
27) 1,1,1-Trichloroethane	0.000		0	N.D.		
30) 1,1-Dichloropropene	0.000		0	N.D. d		
31) Carbon tetrachloride	0.000		0	N.D. d		
32) Benzene	0.000		0	N.D.		
33) 1,2-Dichloroethane	0.000		0	N.D. d		
34) Trichloroethene	0.000		0	N.D.		
35) Methylcyclohexane	0.000		0	N.D. d		
36) 1,2-Dichloropropane	0.000		0	N.D. d		
37) Dibromomethane	0.000		0	N.D.		
38) Bromodichloromethane	0.000		0	N.D.		
39) 2-Chloroethyl vinyl ether	0.000		0	N.D.		
40) cis-1,3-Dichloropropene	0.000		0	N.D.		
41) 4-Methyl-2-pentanone	0.000		0	N.D. d		
43) Toluene	0.000		0	N.D.		
44) trans-1,3-Dichloropropene	0.000		0	N.D.		
45) 1,1,2-Trichloroethane	0.000		0	N.D.		
47) 2-Hexanone	0.000		0	N.D.		

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115097.D
Acq On : 2 Mar 2022 2:46 pm
Operator : CM
Sample : MB-20X
Misc : MBLK 1311_V
ALS Vial : 34 Sample Multiplier: 1

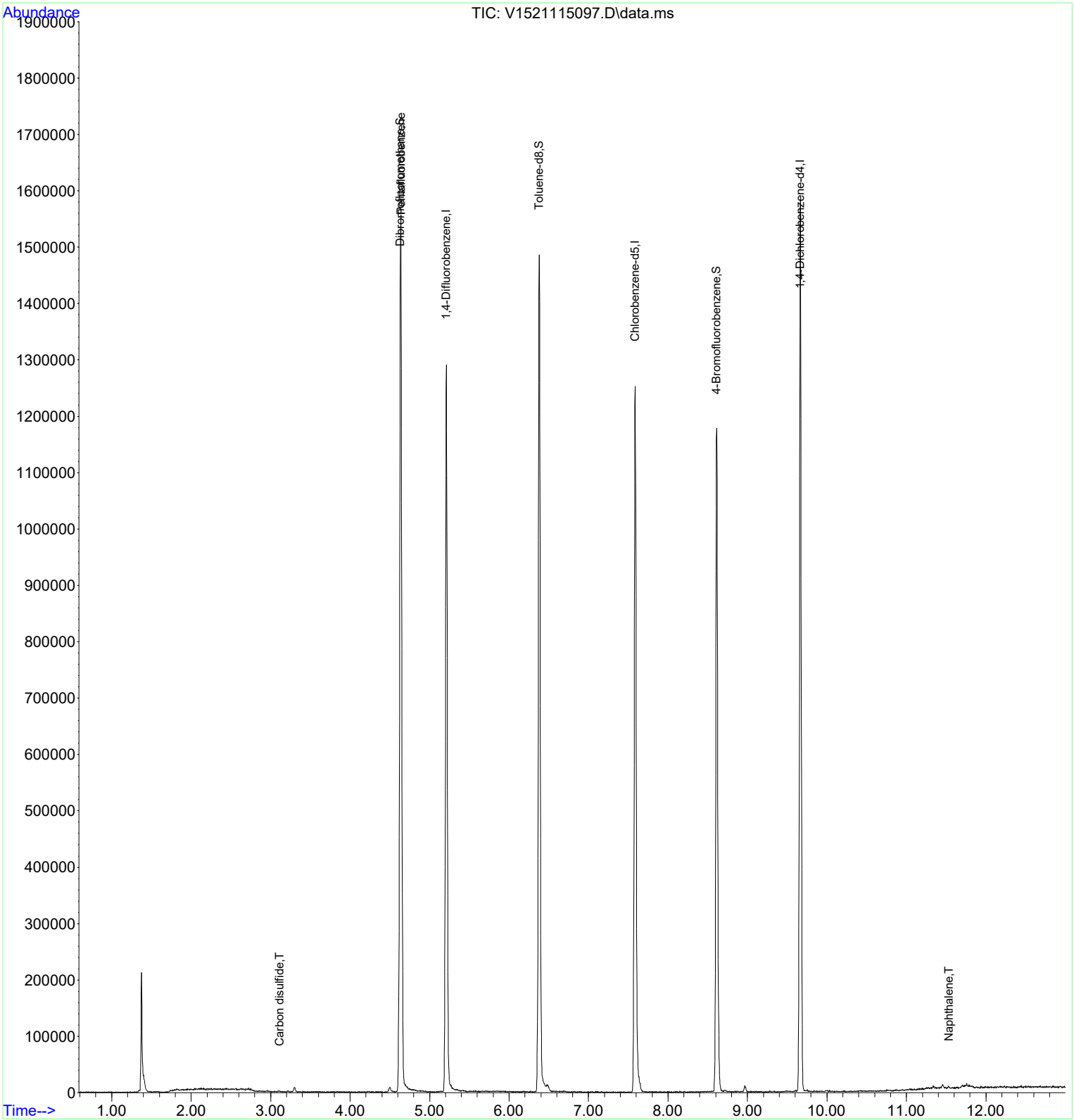
Quant Time: Mar 02 16:08:11 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) Tetrachloroethene	0.000		0	N.D.		
49) 1,3-Dichloropropane	0.000		0	N.D.		
50) Dibromochloromethane	0.000		0	N.D.		
51) 1,2-Dibromoethane	0.000		0	N.D.		
52) Chlorobenzene	0.000		0	N.D.		
53) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
54) Ethylbenzene	0.000		0	N.D.		
55) m,p-Xylene	0.000		0	N.D.		
56) o-Xylene	0.000		0	N.D.		
57) Styrene	0.000		0	N.D.		
58) Bromoform	0.000		0	N.D.		
61) Bromobenzene	0.000		0	N.D.		
62) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
63) 1,2,3-Trichloropropane	0.000		0	N.D. d		
64) Isopropylbenzene	0.000		0	N.D.		
65) n-Propylbenzene	0.000		0	N.D.		
66) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
67) 2-Chlorotoluene	0.000		0	N.D.		
68) 4-Chlorotoluene	0.000		0	N.D.		
69) 1,3,5-Trimethylbenzene	0.000		0	N.D.		
70) tert-Butylbenzene	0.000		0	N.D.		
71) 1,2,4-Trimethylbenzene	0.000		0	N.D.		
72) sec-Butylbenzene	0.000		0	N.D.		
73) 1,3-Dichlorobenzene	0.000		0	N.D.		
74) 4-Isopropyltoluene	0.000		0	N.D.		
75) 1,4-Dichlorobenzene	0.000		0	N.D.		
76) 1,2-Dichlorobenzene	0.000		0	N.D.		
77) n-Butylbenzene	0.000		0	N.D.		
78) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
79) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
80) Hexachlorobutadiene	0.000		0	N.D.		
81) Naphthalene	11.533	128	1603	0.38	ug/L	100
82) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115097.D
Acq On : 2 Mar 2022 2:46 pm
Operator : CM
Sample : MB-20X
Misc : MBLK 1311_V
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Mar 02 16:08:11 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115098.D
Acq On : 2 Mar 2022 3:12 pm
Operator : CM
Sample : 2202W70-001A 20X pH5
Misc : SAMP 1311_V
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 02 16:07:39 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.640	168	552999	50.00	ug/L	0.01
28) 1,4-Difluorobenzene	5.211	114	779073	50.00	ug/L	0.01
46) Chlorobenzene-d5	7.589	117	701375	50.00	ug/L	0.01
60) 1,4-Dichlorobenzene-d4	9.665	152	413409	50.00	ug/L	0.01
System Monitoring Compounds						
29) Dibromofluoromethane	4.631	113	311947	51.43	ug/L	0.01
Spiked Amount 50.000	Range 79 - 127		Recovery = 102.86%			
42) Toluene-d8	6.379	98	909669	46.12	ug/L	0.01
Spiked Amount 50.000	Range 82 - 120		Recovery = 92.24%			
59) 4-Bromofluorobenzene	8.613	95	403462	48.38	ug/L	0.01
Spiked Amount 50.000	Range 75 - 127		Recovery = 96.76%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Acrolein	0.000		0	N.D.		
9) 1,1-Dichloroethene	0.000		0	N.D.		
10) Freon-113	0.000		0	N.D.		
11) Acetone	0.000		0	N.D.		
12) Iodomethane	0.000		0	N.D.		
13) Carbon disulfide	0.000		0	N.D.		
14) Methyl acetate	0.000		0	N.D. d		
15) Vinyl acetate	0.000		0	N.D.		
16) Methylene chloride	3.302	84	3473	Below Cal	#	69
17) Acrylonitrile	0.000		0	N.D.		
18) Methyl tert-butyl ether	0.000		0	N.D.		
19) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) 1,1-Dichloroethane	0.000		0	N.D.		
21) 2,2-Dichloropropane	0.000		0	N.D.		
22) cis-1,2-Dichloroethene	0.000		0	N.D.		
23) 2-Butanone	0.000		0	N.D. d		
24) Bromochloromethane	0.000		0	N.D.		
25) Chloroform	0.000		0	N.D.		
26) Cyclohexane	0.000		0	N.D. d		
27) 1,1,1-Trichloroethane	0.000		0	N.D.		
30) 1,1-Dichloropropene	0.000		0	N.D. d		
31) Carbon tetrachloride	0.000		0	N.D. d		
32) Benzene	0.000		0	N.D.		
33) 1,2-Dichloroethane	0.000		0	N.D. d		
34) Trichloroethene	0.000		0	N.D.		
35) Methylcyclohexane	0.000		0	N.D. d		
36) 1,2-Dichloropropane	0.000		0	N.D. d		
37) Dibromomethane	0.000		0	N.D.		
38) Bromodichloromethane	0.000		0	N.D.		
39) 2-Chloroethyl vinyl ether	0.000		0	N.D.		
40) cis-1,3-Dichloropropene	0.000		0	N.D.		
41) 4-Methyl-2-pentanone	0.000		0	N.D. d		
43) Toluene	6.434	92	2113	0.22	ug/L	71
44) trans-1,3-Dichloropropene	0.000		0	N.D.		
45) 1,1,2-Trichloroethane	0.000		0	N.D.		
47) 2-Hexanone	0.000		0	N.D.		

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115098.D
Acq On : 2 Mar 2022 3:12 pm
Operator : CM
Sample : 2202W70-001A 20X pH5
Misc : SAMP 1311_V
ALS Vial : 35 Sample Multiplier: 1

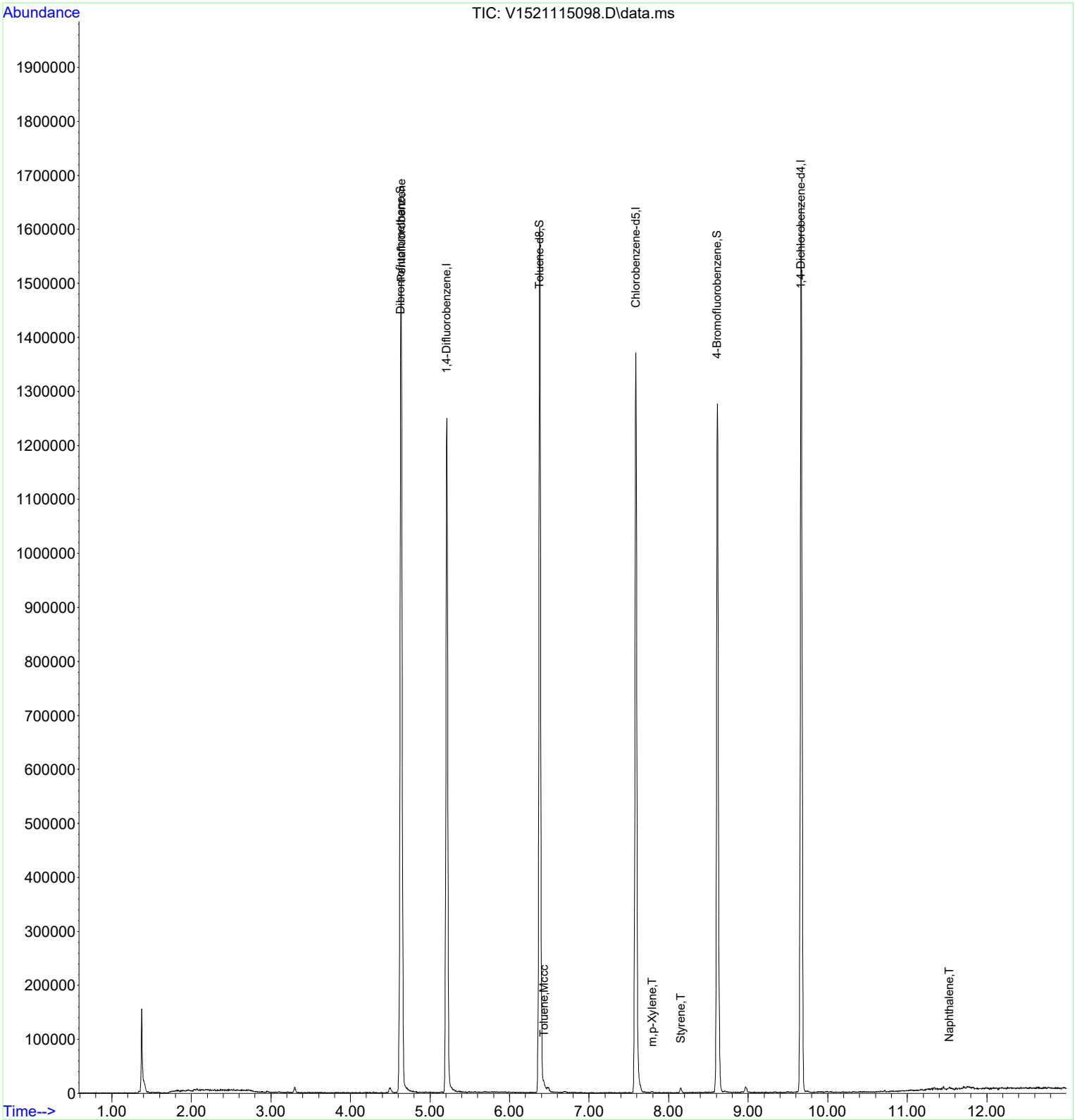
Quant Time: Mar 02 16:07:39 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) Tetrachloroethene	0.000		0	N.D.	
49) 1,3-Dichloropropane	0.000		0	N.D.	
50) Dibromochloromethane	0.000		0	N.D.	
51) 1,2-Dibromoethane	0.000		0	N.D.	
52) Chlorobenzene	0.000		0	N.D.	
53) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
54) Ethylbenzene	0.000		0	N.D. d	
55) m,p-Xylene	7.795	91	1787	0.13 ug/L	83
56) o-Xylene	0.000		0	N.D. d	
57) Styrene	8.157	104	3758	0.39 ug/L #	59
58) Bromoform	0.000		0	N.D.	
61) Bromobenzene	0.000		0	N.D.	
62) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
63) 1,2,3-Trichloropropane	0.000		0	N.D. d	
64) Isopropylbenzene	0.000		0	N.D.	
65) n-Propylbenzene	0.000		0	N.D.	
66) trans-1,4-Dichloro-2-b...	0.000		0	N.D.	
67) 2-Chlorotoluene	0.000		0	N.D.	
68) 4-Chlorotoluene	0.000		0	N.D.	
69) 1,3,5-Trimethylbenzene	0.000		0	N.D.	
70) tert-Butylbenzene	0.000		0	N.D.	
71) 1,2,4-Trimethylbenzene	0.000		0	N.D.	
72) sec-Butylbenzene	0.000		0	N.D.	
73) 1,3-Dichlorobenzene	0.000		0	N.D.	
74) 4-Isopropyltoluene	0.000		0	N.D.	
75) 1,4-Dichlorobenzene	0.000		0	N.D.	
76) 1,2-Dichlorobenzene	0.000		0	N.D.	
77) n-Butylbenzene	0.000		0	N.D.	
78) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
79) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
80) Hexachlorobutadiene	0.000		0	N.D.	
81) Naphthalene	11.530	128	1524	0.34 ug/L	100
82) 1,2,3-Trichlorobenzene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115098.D
Acq On : 2 Mar 2022 3:12 pm
Operator : CM
Sample : 2202W70-001A 20X pH5
Misc : SAMP 1311_V
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 02 16:07:39 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115102.D
Acq On : 2 Mar 2022 4:53 pm
Operator : CM
Sample : LCS-331888
Misc : LCS 1311_V
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Mar 02 17:07:43 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.643	168	486606	50.00	ug/L		0.01
28) 1,4-Difluorobenzene	5.211	114	655044	50.00	ug/L		0.01
46) Chlorobenzene-d5	7.589	117	556210	50.00	ug/L		0.01
60) 1,4-Dichlorobenzene-d4	9.665	152	383244	50.00	ug/L		0.01
System Monitoring Compounds							
29) Dibromofluoromethane	4.631	113	265383	52.04	ug/L		0.01
Spiked Amount 50.000	Range 79 - 127		Recovery = 104.08%				
42) Toluene-d8	6.379	98	785890	47.38	ug/L		0.01
Spiked Amount 50.000	Range 82 - 120		Recovery = 94.76%				
59) 4-Bromofluorobenzene	8.613	95	338309	51.16	ug/L		0.01
Spiked Amount 50.000	Range 75 - 127		Recovery = 102.32%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.566	85	276527	46.48	ug/L		96
3) Chloromethane	1.746	50	146083	40.54	ug/L		96
4) Vinyl chloride	1.858	62	185980	46.56	ug/L		93
5) Bromomethane	2.176	94	143890	44.33	ug/L		94
6) Chloroethane	2.256	64	117223	49.91	ug/L		94
7) Trichlorofluoromethane	2.487	101	436854	52.98	ug/L	#	99
8) Acrolein	2.834	56	15809	26.67	ug/L	#	62
9) 1,1-Dichloroethene	2.917	96	154218	46.19	ug/L		81
10) Freon-113	2.914	101	174823	46.13	µg/L		96
11) Acetone	2.962	58	11266	60.11	ug/L		63
12) Iodomethane	3.045	142	507843	94.21	ug/L		95
13) Carbon disulfide	3.103	76	1017158	98.24	ug/L		100
14) Methyl acetate	3.215	43	56829	27.48	µg/L		98
15) Vinyl acetate	3.864	43	443202	70.75	ug/L		94
16) Methylene chloride	3.302	84	169572	42.13	ug/L		95
17) Acrylonitrile	3.498	53	39742	32.72	ug/L		94
18) Methyl tert-butyl ether	3.511	73	412085	36.43	µg/L		97
19) trans-1,2-Dichloroethene	3.514	96	166484	47.20	ug/L		92
20) 1,1-Dichloroethane	3.841	63	348510	42.38	ug/L		100
21) 2,2-Dichloropropane	4.284	77	298067	49.77	ug/L		98
22) cis-1,2-Dichloroethene	4.278	96	172657	45.54	ug/L		96
23) 2-Butanone	4.281	72	16427	72.29	ug/L		71
24) Bromochloromethane	4.460	128	72337	44.01	ug/L		90
25) Chloroform	4.512	83	358672	42.84	ug/L		97
26) Cyclohexane	4.708	56	303976	45.98	µg/L		89
27) 1,1,1-Trichloroethane	4.659	97	345577	45.64	ug/L		89
30) 1,1-Dichloropropene	4.781	110	80995	55.26	ug/L		84
31) Carbon tetrachloride	4.791	119	289889	56.85	ug/L		97
32) Benzene	4.945	78	628445	48.68	ug/L		100
33) 1,2-Dichloroethane	4.951	62	264354	41.24	ug/L		99
34) Trichloroethene	5.426	130	147055	49.48	ug/L		94
35) Methylcyclohexane	5.580	55	247623	52.28	µg/L		90
36) 1,2-Dichloropropane	5.606	63	150863	42.67	ug/L		94
37) Dibromomethane	5.702	93	85867	41.40	ug/L		94
38) Bromodichloromethane	5.808	83	214858	45.36	ug/L		96
39) 2-Chloroethyl vinyl ether	6.023	63	109085	64.39	µg/L		97
40) cis-1,3-Dichloropropene	6.158	75	208780	40.96	ug/L		98
41) 4-Methyl-2-pentanone	6.267	43	154243	73.39	ug/L		95
43) Toluene	6.434	92	353607	44.18	ug/L		96
44) trans-1,3-Dichloropropene	6.598	75	169996	37.17	ug/L		98
45) 1,1,2-Trichloroethane	6.755	83	81613	37.04	ug/L		98
47) 2-Hexanone	6.944	43	86052	78.23	ug/L	#	95

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115102.D
Acq On : 2 Mar 2022 4:53 pm
Operator : CM
Sample : LCS-331888
Misc : LCS 1311_V
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Mar 02 17:07:43 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration

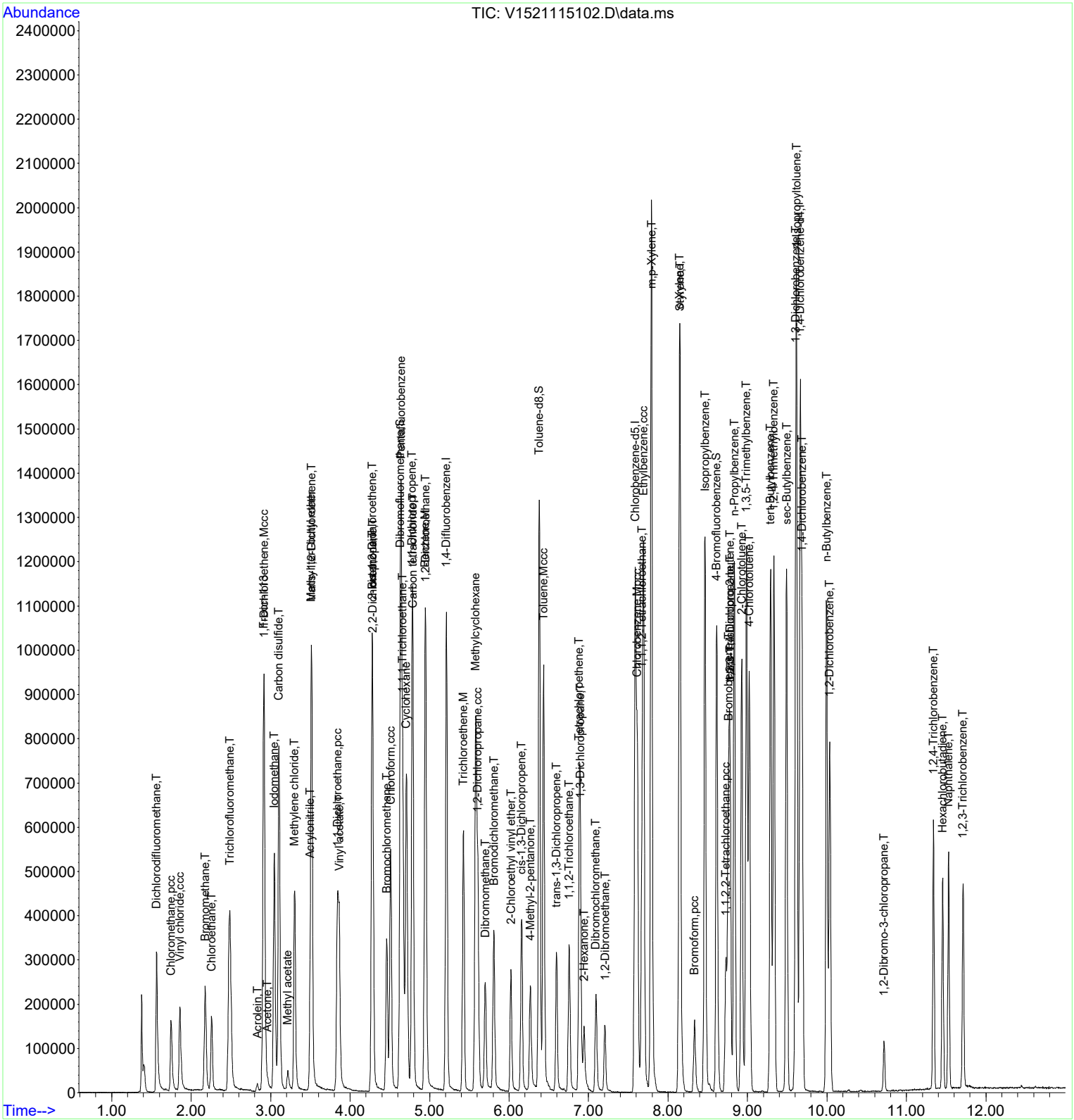
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) Tetrachloroethene	6.883	166	161777	51.25	ug/L	98
49) 1,3-Dichloropropane	6.899	76	169691	40.23	ug/L	98
50) Dibromochloromethane	7.092	129	111604	47.59	ug/L	95
51) 1,2-Dibromoethane	7.207	107	96479	43.48	ug/L	93
52) Chlorobenzene	7.612	112	360424	48.16	ug/L	96
53) 1,1,1,2-Tetrachloroethane	7.676	131	152557	60.46	ug/L	94
54) Ethylbenzene	7.692	91	713774	51.12	ug/L	97
55) m,p-Xylene	7.791	91	1155058	103.44	ug/L	97
56) o-Xylene	8.144	91	627550	55.06	ug/L	93
57) Styrene	8.151	104	408729	53.22	ug/L	99
58) Bromoform	8.334	173	75872	44.90	ug/L	99
61) Bromobenzene	8.760	156	165986	41.07	ug/L	95
62) 1,1,2,2-Tetrachloroethane	8.728	83	142758	40.02	ug/L	98
63) 1,2,3-Trichloropropane	8.780	75	247213	40.36	ug/L	96
64) Isopropylbenzene	8.465	105	777993	48.73	ug/L	99
65) n-Propylbenzene	8.834	91	920779	44.68	ug/L	97
66) trans-1,4-Dichloro-2-b...	8.780	124	15386	85.22	ug/L	97
67) 2-Chlorotoluene	8.927	91	554583	44.70	ug/L	96
68) 4-Chlorotoluene	9.024	91	632118	42.72	ug/L	98
69) 1,3,5-Trimethylbenzene	8.985	105	651879	51.34	ug/L	98
70) tert-Butylbenzene	9.290	119	585443	51.53	ug/L	99
71) 1,2,4-Trimethylbenzene	9.332	105	660855	51.27	ug/L	98
72) sec-Butylbenzene	9.492	105	771284	55.45	ug/L	97
73) 1,3-Dichlorobenzene	9.608	146	321306	48.91	ug/L	94
74) 4-Isopropyltoluene	9.617	119	659211	56.76	ug/L	98
75) 1,4-Dichlorobenzene	9.685	146	319529	47.08	ug/L	98
76) 1,2-Dichlorobenzene	10.034	146	295207	50.84	ug/L	97
77) n-Butylbenzene	9.996	91	581151	55.54	ug/L	99
78) 1,2-Dibromo-3-chloropr...	10.718	75	25395	47.25	ug/L	94
79) 1,2,4-Trichlorobenzene	11.340	180	141508	61.74	ug/L	95
80) Hexachlorobutadiene	11.456	225	82089	70.22	ug/L	94
81) Naphthalene	11.530	128	312245	76.10	ug/L	100
82) 1,2,3-Trichlorobenzene	11.713	180	118247	74.27	ug/L	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115102.D
Acq On : 2 Mar 2022 4:53 pm
Operator : CM
Sample : LCS-331888
Misc : LCS 1311_V
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Mar 02 17:07:43 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115106.D
Acq On : 2 Mar 2022 6:34 pm
Operator : CM
Sample : 2202V22-001A 20X pH7
Misc : SAMP 1311_V
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Mar 03 09:20:15 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.640	168	541250	50.00	ug/L	0.01
28) 1,4-Difluorobenzene	5.211	114	760276	50.00	ug/L	0.01
46) Chlorobenzene-d5	7.586	117	588836	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	9.665	152	363815	50.00	ug/L	0.01
System Monitoring Compounds						
29) Dibromofluoromethane	4.630	113	294574	49.77	ug/L	0.01
Spiked Amount 50.000	Range 79 - 127		Recovery = 99.54%			
42) Toluene-d8	6.379	98	823035	42.76	ug/L	0.01
Spiked Amount 50.000	Range 82 - 120		Recovery = 85.52%			
59) 4-Bromofluorobenzene	8.613	95	332272	47.46	ug/L	0.01
Spiked Amount 50.000	Range 75 - 127		Recovery = 94.92%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Acrolein	0.000		0	N.D. d		
9) 1,1-Dichloroethene	0.000		0	N.D.		
10) Freon-113	0.000		0	N.D.		
11) Acetone	2.955	58	389855	1869.97	ug/L	86
12) Iodomethane	0.000		0	N.D.		
13) Carbon disulfide	0.000		0	N.D.		
14) Methyl acetate	0.000		0	N.D. d		
15) Vinyl acetate	0.000		0	N.D. d		
16) Methylene chloride	3.299	84	2366	Below Cal	#	62
17) Acrylonitrile	0.000		0	N.D. d		
18) Methyl tert-butyl ether	0.000		0	N.D.		
19) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) 1,1-Dichloroethane	0.000		0	N.D.		
21) 2,2-Dichloropropane	0.000		0	N.D.		
22) cis-1,2-Dichloroethene	0.000		0	N.D.		
23) 2-Butanone	0.000		0	N.D. d		
24) Bromochloromethane	0.000		0	N.D.		
25) Chloroform	0.000		0	N.D.		
26) Cyclohexane	0.000		0	N.D. d		
27) 1,1,1-Trichloroethane	0.000		0	N.D.		
30) 1,1-Dichloropropene	0.000		0	N.D. d		
31) Carbon tetrachloride	0.000		0	N.D. d		
32) Benzene	0.000		0	N.D.		
33) 1,2-Dichloroethane	0.000		0	N.D. d		
34) Trichloroethene	0.000		0	N.D.		
35) Methylcyclohexane	0.000		0	N.D. d		
36) 1,2-Dichloropropane	0.000		0	N.D. d		
37) Dibromomethane	0.000		0	N.D.		
38) Bromodichloromethane	0.000		0	N.D.		
39) 2-Chloroethyl vinyl ether	0.000		0	N.D.		
40) cis-1,3-Dichloropropene	0.000		0	N.D.		
41) 4-Methyl-2-pentanone	0.000		0	N.D. d		
43) Toluene	0.000		0	N.D.		
44) trans-1,3-Dichloropropene	0.000		0	N.D.		
45) 1,1,2-Trichloroethane	0.000		0	N.D.		
47) 2-Hexanone	0.000		0	N.D.		

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115106.D
Acq On : 2 Mar 2022 6:34 pm
Operator : CM
Sample : 2202V22-001A 20X pH7
Misc : SAMP 1311_V
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Mar 03 09:20:15 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration

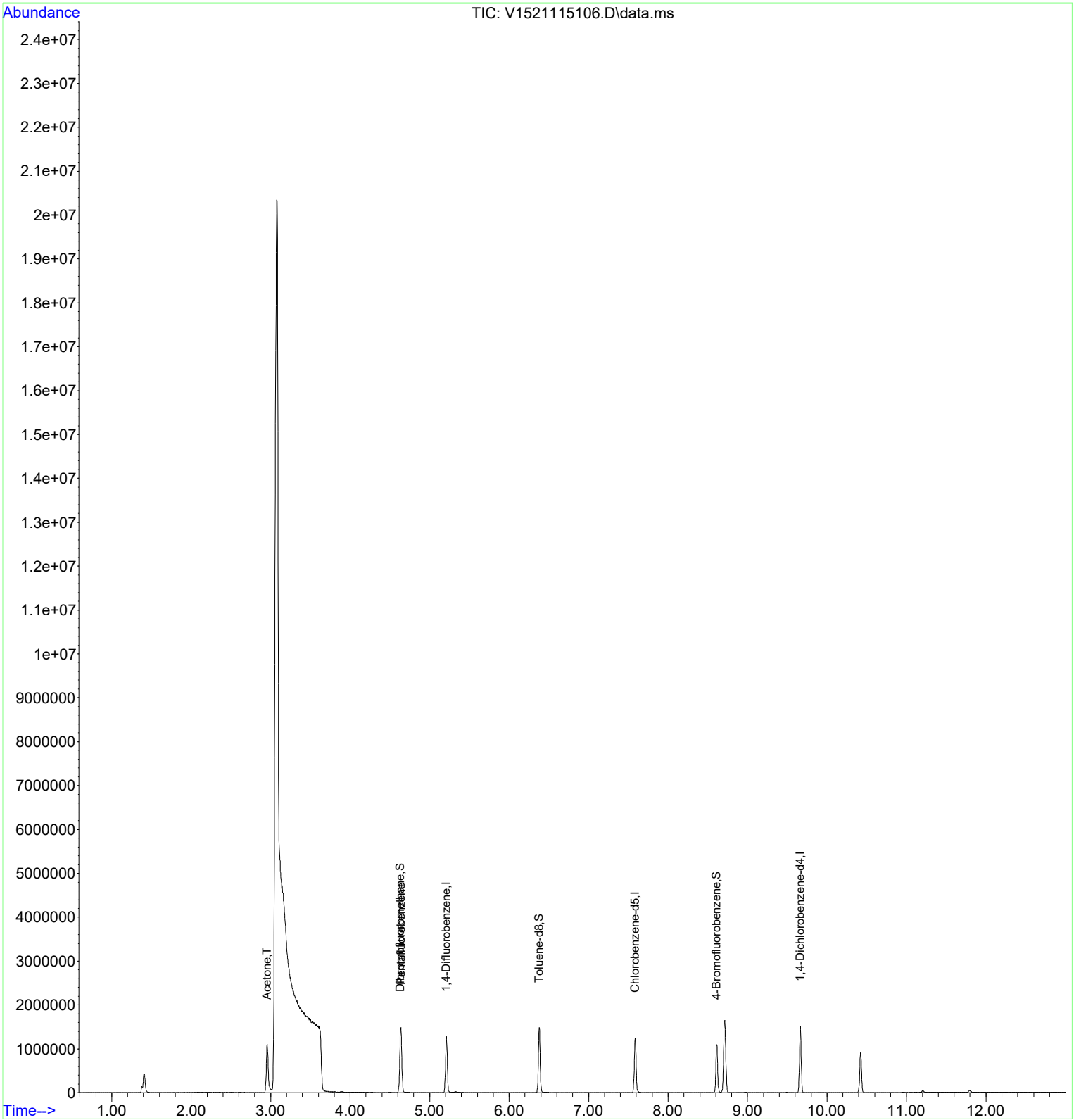
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) Tetrachloroethene	0.000		0	N.D.		
49) 1,3-Dichloropropane	0.000		0	N.D.		
50) Dibromochloromethane	0.000		0	N.D.		
51) 1,2-Dibromoethane	0.000		0	N.D.		
52) Chlorobenzene	0.000		0	N.D.		
53) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
54) Ethylbenzene	0.000		0	N.D.	d	
55) m,p-Xylene	0.000		0	N.D.	d	
56) o-Xylene	0.000		0	N.D.		
57) Styrene	0.000		0	N.D.		
58) Bromoform	0.000		0	N.D.		
61) Bromobenzene	0.000		0	N.D.		
62) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
63) 1,2,3-Trichloropropane	0.000		0	N.D.	d	
64) Isopropylbenzene	0.000		0	N.D.	d	
65) n-Propylbenzene	0.000		0	N.D.		
66) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
67) 2-Chlorotoluene	0.000		0	N.D.		
68) 4-Chlorotoluene	0.000		0	N.D.		
69) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d	
70) tert-Butylbenzene	0.000		0	N.D.		
71) 1,2,4-Trimethylbenzene	0.000		0	N.D.		
72) sec-Butylbenzene	0.000		0	N.D.		
73) 1,3-Dichlorobenzene	0.000		0	N.D.		
74) 4-Isopropyltoluene	0.000		0	N.D.		
75) 1,4-Dichlorobenzene	0.000		0	N.D.		
76) 1,2-Dichlorobenzene	0.000		0	N.D.		
77) n-Butylbenzene	0.000		0	N.D.		
78) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	d	
79) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
80) Hexachlorobutadiene	0.000		0	N.D.		
81) Naphthalene	0.000		0	N.D.	d	
82) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115106.D
Acq On : 2 Mar 2022 6:34 pm
Operator : CM
Sample : 2202V22-001A 20X pH7
Misc : SAMP 1311_V
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Mar 03 09:20:15 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115107.D
Acq On : 2 Mar 2022 6:59 pm
Operator : CM
Sample : 2202V22-001ADUP 20X pH7
Misc : DUP 1311_V
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Mar 03 09:20:56 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.640	168	482646	50.00	ug/L	0.01
28) 1,4-Difluorobenzene	5.211	114	673134	50.00	ug/L	0.01
46) Chlorobenzene-d5	7.589	117	568254	50.00	ug/L	0.01
60) 1,4-Dichlorobenzene-d4	9.665	152	356115	50.00	ug/L	0.01
System Monitoring Compounds						
29) Dibromofluoromethane	4.631	113	271247	51.76	ug/L	0.01
Spiked Amount 50.000	Range 79 - 127		Recovery = 103.52%			
42) Toluene-d8	6.379	98	750812	44.05	ug/L	0.01
Spiked Amount 50.000	Range 82 - 120		Recovery = 88.10%			
59) 4-Bromofluorobenzene	8.613	95	323650	47.91	ug/L	0.01
Spiked Amount 50.000	Range 75 - 127		Recovery = 95.82%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Acrolein	0.000		0	N.D.		
9) 1,1-Dichloroethene	0.000		0	N.D.		
10) Freon-113	0.000		0	N.D.		
11) Acetone	2.956	58	7110	38.24	ug/L	84
12) Iodomethane	0.000		0	N.D.		
13) Carbon disulfide	0.000		0	N.D.		
14) Methyl acetate	0.000		0	N.D. d		
15) Vinyl acetate	0.000		0	N.D.		
16) Methylene chloride	3.299	84	2582	Below Cal #		73
17) Acrylonitrile	0.000		0	N.D.		
18) Methyl tert-butyl ether	0.000		0	N.D.		
19) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) 1,1-Dichloroethane	0.000		0	N.D.		
21) 2,2-Dichloropropane	0.000		0	N.D.		
22) cis-1,2-Dichloroethene	0.000		0	N.D.		
23) 2-Butanone	0.000		0	N.D. d		
24) Bromochloromethane	0.000		0	N.D.		
25) Chloroform	0.000		0	N.D.		
26) Cyclohexane	0.000		0	N.D. d		
27) 1,1,1-Trichloroethane	0.000		0	N.D.		
30) 1,1-Dichloropropene	0.000		0	N.D. d		
31) Carbon tetrachloride	0.000		0	N.D. d		
32) Benzene	0.000		0	N.D.		
33) 1,2-Dichloroethane	0.000		0	N.D. d		
34) Trichloroethene	0.000		0	N.D.		
35) Methylcyclohexane	0.000		0	N.D. d		
36) 1,2-Dichloropropane	0.000		0	N.D. d		
37) Dibromomethane	0.000		0	N.D.		
38) Bromodichloromethane	0.000		0	N.D.		
39) 2-Chloroethyl vinyl ether	0.000		0	N.D.		
40) cis-1,3-Dichloropropene	0.000		0	N.D.		
41) 4-Methyl-2-pentanone	0.000		0	N.D. d		
43) Toluene	0.000		0	N.D.		
44) trans-1,3-Dichloropropene	0.000		0	N.D.		
45) 1,1,2-Trichloroethane	0.000		0	N.D.		
47) 2-Hexanone	0.000		0	N.D.		

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115107.D
Acq On : 2 Mar 2022 6:59 pm
Operator : CM
Sample : 2202V22-001ADUP 20X pH7
Misc : DUP 1311_V
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Mar 03 09:20:56 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration

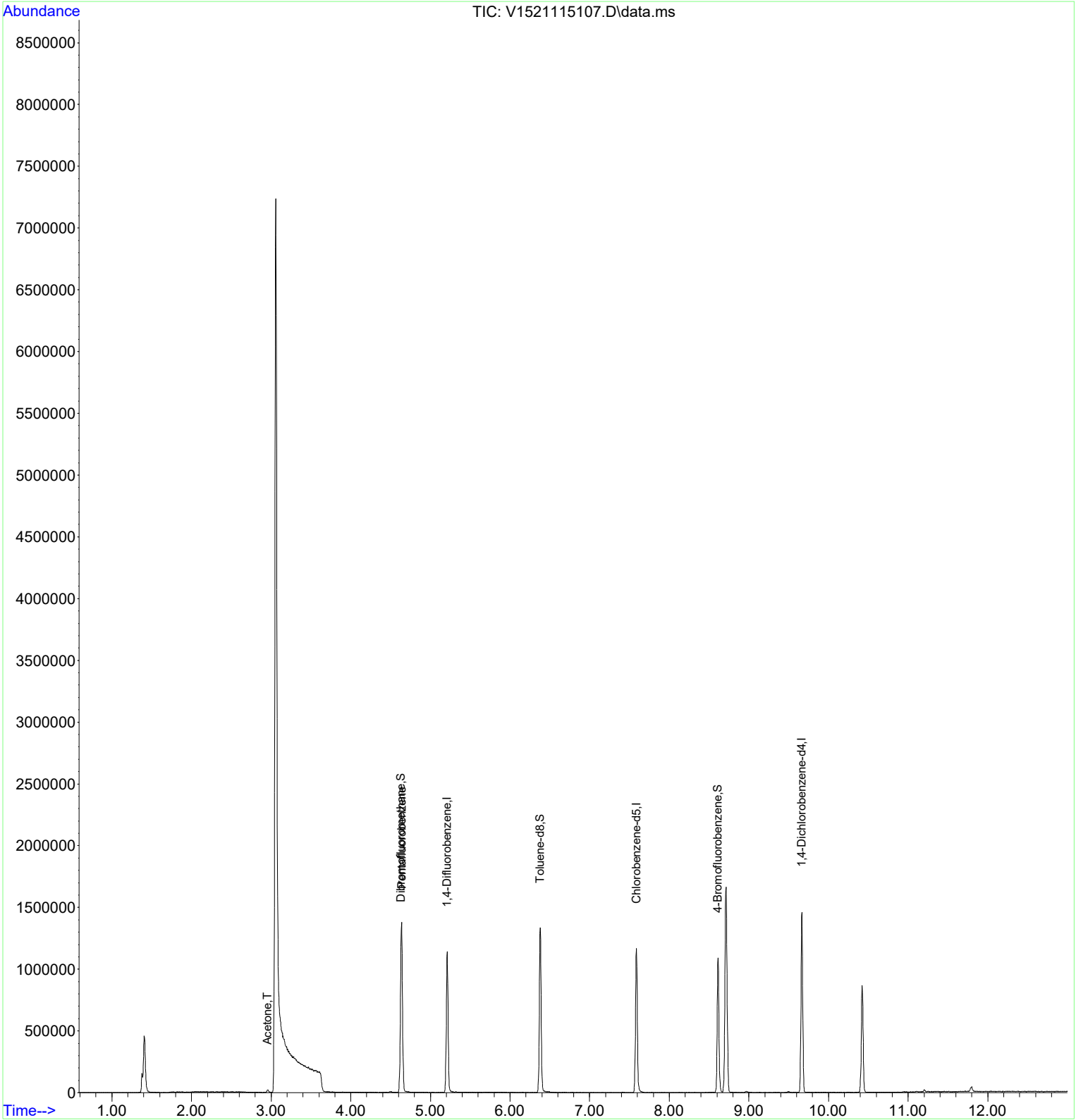
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) Tetrachloroethene	0.000		0	N.D.		
49) 1,3-Dichloropropane	0.000		0	N.D.		
50) Dibromochloromethane	0.000		0	N.D.		
51) 1,2-Dibromoethane	0.000		0	N.D.		
52) Chlorobenzene	0.000		0	N.D.		
53) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
54) Ethylbenzene	0.000		0	N.D.		
55) m,p-Xylene	0.000		0	N.D.		
56) o-Xylene	0.000		0	N.D.		
57) Styrene	0.000		0	N.D.		
58) Bromoform	0.000		0	N.D.		
61) Bromobenzene	0.000		0	N.D.		
62) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
63) 1,2,3-Trichloropropane	0.000		0	N.D.	d	
64) Isopropylbenzene	0.000		0	N.D.	d	
65) n-Propylbenzene	0.000		0	N.D.		
66) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
67) 2-Chlorotoluene	0.000		0	N.D.		
68) 4-Chlorotoluene	0.000		0	N.D.		
69) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d	
70) tert-Butylbenzene	0.000		0	N.D.		
71) 1,2,4-Trimethylbenzene	0.000		0	N.D.		
72) sec-Butylbenzene	0.000		0	N.D.		
73) 1,3-Dichlorobenzene	0.000		0	N.D.		
74) 4-Isopropyltoluene	0.000		0	N.D.		
75) 1,4-Dichlorobenzene	0.000		0	N.D.		
76) 1,2-Dichlorobenzene	0.000		0	N.D.		
77) n-Butylbenzene	0.000		0	N.D.		
78) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	d	
79) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
80) Hexachlorobutadiene	0.000		0	N.D.		
81) Naphthalene	0.000		0	N.D.		
82) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115107.D
Acq On : 2 Mar 2022 6:59 pm
Operator : CM
Sample : 2202V22-001ADUP 20X pH7
Misc : DUP 1311_V
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Mar 03 09:20:56 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115108.D
Acq On : 2 Mar 2022 7:24 pm
Operator : CM
Sample : 2202V46-001A 20X pH6
Misc : SAMP 1311_V
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Mar 03 09:21:54 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.640	168	490235	50.00	ug/L	0.01
28) 1,4-Difluorobenzene	5.211	114	669278	50.00	ug/L	0.01
46) Chlorobenzene-d5	7.589	117	521628	50.00	ug/L	0.01
60) 1,4-Dichlorobenzene-d4	9.662	152	320309	50.00	ug/L	0.01
System Monitoring Compounds						
29) Dibromofluoromethane	4.631	113	273291	52.45	ug/L	0.01
Spiked Amount 50.000	Range 79 - 127		Recovery = 104.90%			
42) Toluene-d8	6.379	98	712921	42.07	ug/L	0.01
Spiked Amount 50.000	Range 82 - 120		Recovery = 84.14%			
59) 4-Bromofluorobenzene	8.613	95	309903	49.97	ug/L	0.01
Spiked Amount 50.000	Range 75 - 127		Recovery = 99.94%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Acrolein	0.000		0	N.D.		
9) 1,1-Dichloroethene	0.000		0	N.D.		
10) Freon-113	0.000		0	N.D.		
11) Acetone	0.000		0	N.D. d		
12) Iodomethane	0.000		0	N.D.		
13) Carbon disulfide	0.000		0	N.D.		
14) Methyl acetate	0.000		0	N.D. d		
15) Vinyl acetate	0.000		0	N.D. d		
16) Methylene chloride	0.000		0	N.D. d		
17) Acrylonitrile	0.000		0	N.D.		
18) Methyl tert-butyl ether	0.000		0	N.D.		
19) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) 1,1-Dichloroethane	0.000		0	N.D.		
21) 2,2-Dichloropropane	0.000		0	N.D.		
22) cis-1,2-Dichloroethene	0.000		0	N.D.		
23) 2-Butanone	0.000		0	N.D. d		
24) Bromochloromethane	0.000		0	N.D.		
25) Chloroform	0.000		0	N.D.		
26) Cyclohexane	0.000		0	N.D. d		
27) 1,1,1-Trichloroethane	0.000		0	N.D.		
30) 1,1-Dichloropropene	0.000		0	N.D. d		
31) Carbon tetrachloride	0.000		0	N.D. d		
32) Benzene	0.000		0	N.D. d		
33) 1,2-Dichloroethane	0.000		0	N.D. d		
34) Trichloroethene	0.000		0	N.D.		
35) Methylcyclohexane	0.000		0	N.D. d		
36) 1,2-Dichloropropane	0.000		0	N.D. d		
37) Dibromomethane	0.000		0	N.D.		
38) Bromodichloromethane	0.000		0	N.D.		
39) 2-Chloroethyl vinyl ether	0.000		0	N.D.		
40) cis-1,3-Dichloropropene	0.000		0	N.D.		
41) 4-Methyl-2-pentanone	0.000		0	N.D. d		
43) Toluene	6.431	92	4200	0.51	ug/L	74
44) trans-1,3-Dichloropropene	0.000		0	N.D.		
45) 1,1,2-Trichloroethane	0.000		0	N.D.		
47) 2-Hexanone	0.000		0	N.D.		

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115108.D
Acq On : 2 Mar 2022 7:24 pm
Operator : CM
Sample : 2202V46-001A 20X pH6
Misc : SAMP 1311_V
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Mar 03 09:21:54 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration

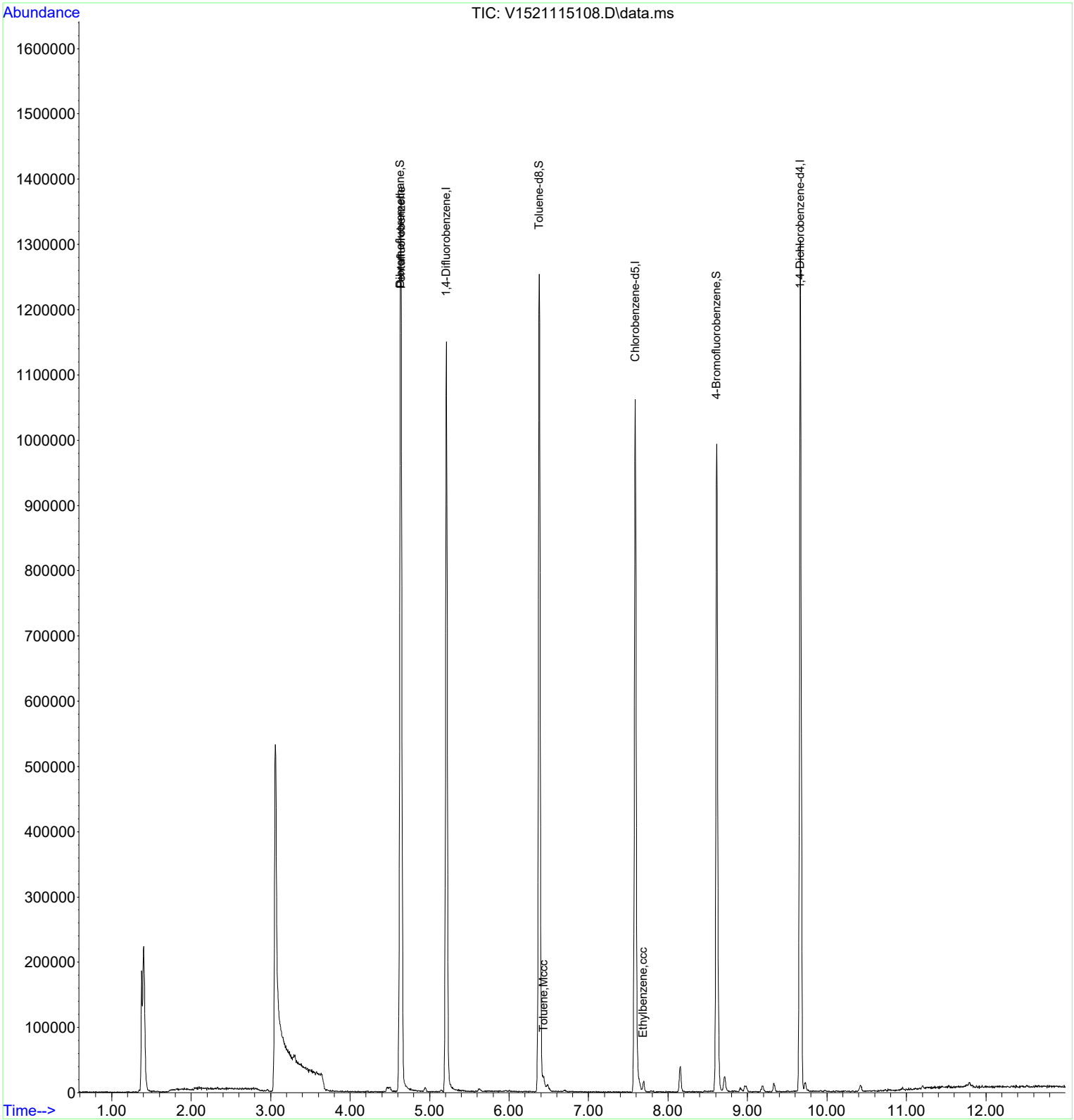
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) Tetrachloroethene	0.000		0	N.D.		
49) 1,3-Dichloropropane	0.000		0	N.D.		
50) Dibromochloromethane	0.000		0	N.D.		
51) 1,2-Dibromoethane	0.000		0	N.D.		
52) Chlorobenzene	0.000		0	N.D.		
53) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
54) Ethylbenzene	7.689	91	9304	0.71	ug/L	90
55) m,p-Xylene	0.000		0	N.D. d		
56) o-Xylene	0.000		0	N.D. d		
57) Styrene	0.000		0	N.D. d		
58) Bromoform	0.000		0	N.D.		
61) Bromobenzene	0.000		0	N.D.		
62) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
63) 1,2,3-Trichloropropane	0.000		0	N.D. d		
64) Isopropylbenzene	0.000		0	N.D. d		
65) n-Propylbenzene	0.000		0	N.D.		
66) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
67) 2-Chlorotoluene	0.000		0	N.D.		
68) 4-Chlorotoluene	0.000		0	N.D.		
69) 1,3,5-Trimethylbenzene	0.000		0	N.D. d		
70) tert-Butylbenzene	0.000		0	N.D.		
71) 1,2,4-Trimethylbenzene	0.000		0	N.D. d		
72) sec-Butylbenzene	0.000		0	N.D. d		
73) 1,3-Dichlorobenzene	0.000		0	N.D.		
74) 4-Isopropyltoluene	0.000		0	N.D.		
75) 1,4-Dichlorobenzene	0.000		0	N.D.		
76) 1,2-Dichlorobenzene	0.000		0	N.D.		
77) n-Butylbenzene	0.000		0	N.D.		
78) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
79) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
80) Hexachlorobutadiene	0.000		0	N.D.		
81) Naphthalene	0.000		0	N.D. d		
82) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115108.D
Acq On : 2 Mar 2022 7:24 pm
Operator : CM
Sample : 2202V46-001A 20X pH6
Misc : SAMP 1311_V
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Mar 03 09:21:54 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115112.D
Acq On : 2 Mar 2022 9:04 pm
Operator : CM
Sample : 2202W70-001AMS 20X pH5
Misc : MS 1311_V
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 03 09:24:15 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.640	168	530097	50.00	ug/L		0.01
28) 1,4-Difluorobenzene	5.211	114	759807	50.00	ug/L		0.01
46) Chlorobenzene-d5	7.586	117	673363	50.00	ug/L		0.00
60) 1,4-Dichlorobenzene-d4	9.665	152	436341	50.00	ug/L		0.01
System Monitoring Compounds							
29) Dibromofluoromethane	4.630	113	285859	48.33	ug/L		0.01
Spiked Amount 50.000	Range 79 - 127		Recovery = 96.66%				
42) Toluene-d8	6.379	98	922742	47.96	ug/L		0.01
Spiked Amount 50.000	Range 82 - 120		Recovery = 95.92%				
59) 4-Bromofluorobenzene	8.610	95	395190	49.36	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 98.72%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.566	85	285742	44.09	ug/L		98
3) Chloromethane	1.749	50	156874	39.96	ug/L		98
4) Vinyl chloride	1.861	62	193800	44.54	ug/L		98
5) Bromomethane	2.172	94	153221	43.33	ug/L		97
6) Chloroethane	2.253	64	119889	46.86	ug/L		95
7) Trichlorofluoromethane	2.484	101	430918	47.97	ug/L	#	97
8) Acrolein	2.830	56	16559	25.65	ug/L		90
9) 1,1-Dichloroethene	2.910	96	152012	41.79	ug/L		93
10) Freon-113	2.914	101	178184	43.16	µg/L		94
11) Acetone	2.955	58	16334	80.00	ug/L		82
12) Iodomethane	3.045	142	529778	90.22	ug/L		94
13) Carbon disulfide	3.103	76	984560	87.29	ug/L		100
14) Methyl acetate	3.215	43	98118	43.56	µg/L		91
15) Vinyl acetate	3.864	43	596219	87.37	ug/L		97
16) Methylene chloride	3.302	84	184132	41.99	ug/L		94
17) Acrylonitrile	3.495	53	60815	45.96	ug/L		96
18) Methyl tert-butyl ether	3.511	73	486337	39.47	µg/L		99
19) trans-1,2-Dichloroethene	3.514	96	171741	44.70	ug/L		85
20) 1,1-Dichloroethane	3.841	63	363958	40.63	ug/L		97
21) 2,2-Dichloropropane	4.281	77	269125	41.25	ug/L		99
22) cis-1,2-Dichloroethene	4.277	96	183021	44.31	ug/L		96
23) 2-Butanone	4.277	72	23120	93.39	ug/L		68
24) Bromochloromethane	4.460	128	79856	44.59	ug/L		84
25) Chloroform	4.509	83	373863	40.99	ug/L		98
26) Cyclohexane	4.707	56	302088	41.95	µg/L		92
27) 1,1,1-Trichloroethane	4.663	97	345399	41.87	ug/L		94
30) 1,1-Dichloropropene	4.781	110	84629	49.78	ug/L		92
31) Carbon tetrachloride	4.788	119	289873	49.01	ug/L		99
32) Benzene	4.945	78	675008	45.08	ug/L		99
33) 1,2-Dichloroethane	4.955	62	306551	41.22	ug/L		99
34) Trichloroethene	5.426	130	159510	46.27	ug/L		96
35) Methylcyclohexane	5.580	55	243173	44.26	µg/L		92
36) 1,2-Dichloropropane	5.606	63	174275	42.49	ug/L		95
37) Dibromomethane	5.699	93	106034	44.07	ug/L		87
38) Bromodichloromethane	5.805	83	242654	44.17	ug/L		96
39) 2-Chloroethyl vinyl ether	6.020	63	156059	79.42	µg/L		98
40) cis-1,3-Dichloropropene	6.158	75	260280	44.02	ug/L		99
41) 4-Methyl-2-pentanone	6.267	43	212051	86.98	ug/L		94
43) Toluene	6.434	92	412237	44.40	ug/L		97
44) trans-1,3-Dichloropropene	6.598	75	218868	41.26	ug/L		96
45) 1,1,2-Trichloroethane	6.755	83	105294	41.20	ug/L		97
47) 2-Hexanone	6.944	43	117237	88.04	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115112.D
Acq On : 2 Mar 2022 9:04 pm
Operator : CM
Sample : 2202W70-001AMS 20X pH5
Misc : MS 1311_V
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 03 09:24:15 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration

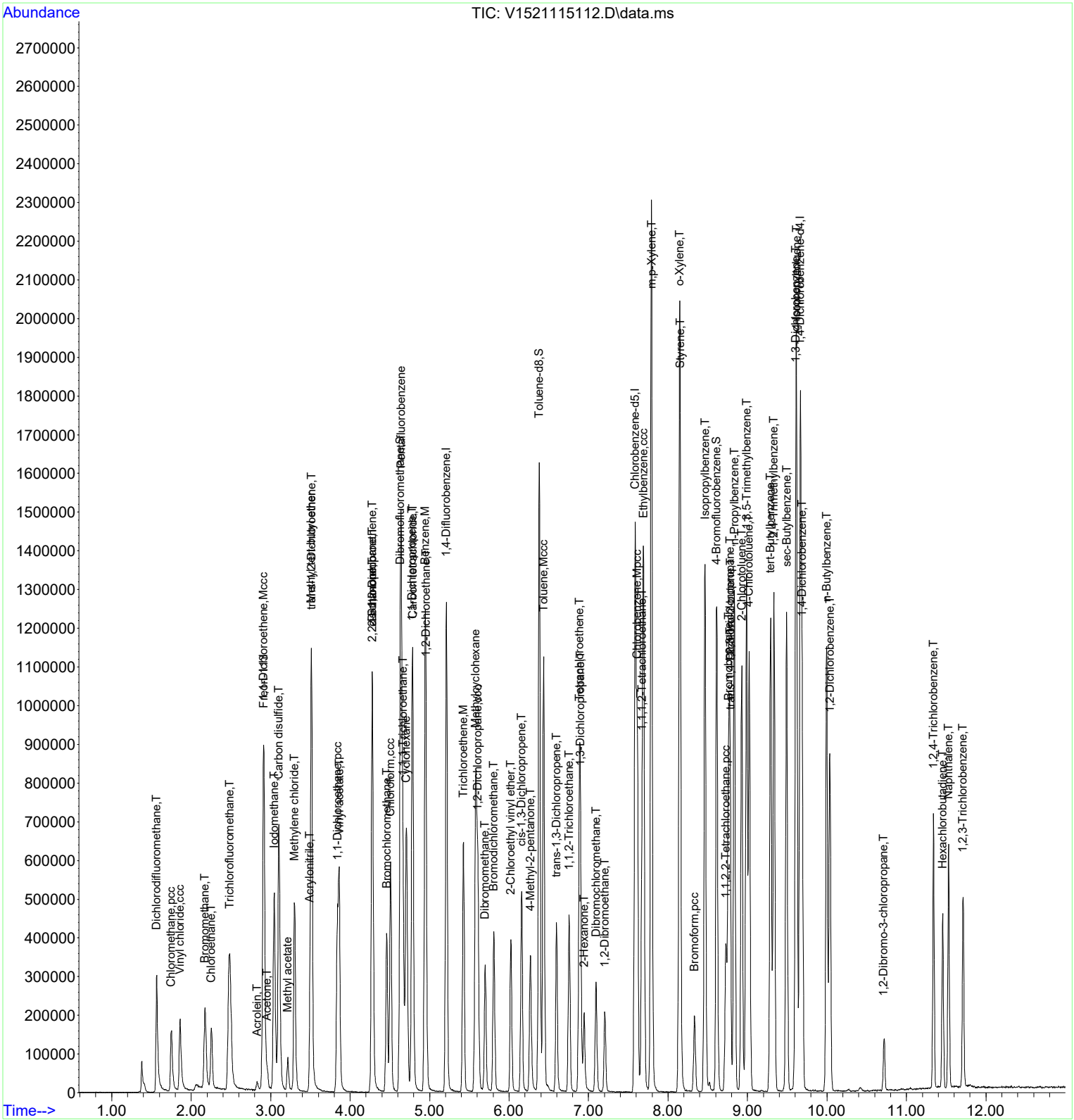
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) Tetrachloroethene	6.886	166	183854	48.11 ug/L	95
49) 1,3-Dichloropropane	6.899	76	224664	44.00 ug/L	98
50) Dibromochloromethane	7.095	129	133757	47.11 ug/L	99
51) 1,2-Dibromoethane	7.204	107	122411	45.57 ug/L	95
52) Chlorobenzene	7.612	112	420359	46.39 ug/L	98
53) 1,1,1,2-Tetrachloroethane	7.673	131	162424	53.17 ug/L	99
54) Ethylbenzene	7.692	91	800886	47.38 ug/L	97
55) m,p-Xylene	7.791	91	1302463	96.35 ug/L	97
56) o-Xylene	8.144	91	689142	49.95 ug/L	95
57) Styrene	8.154	104	488391	52.53 ug/L	95
58) Bromoform	8.334	173	89629	43.83 ug/L	99
61) Bromobenzene	8.760	156	191259	41.56 ug/L	90
62) 1,1,2,2-Tetrachloroethane	8.728	83	173117	42.63 ug/L	99
63) 1,2,3-Trichloropropane	8.780	75	287900	41.29 ug/L	93
64) Isopropylbenzene	8.465	105	833823	45.87 ug/L	100
65) n-Propylbenzene	8.834	91	995809	42.44 ug/L	96
66) trans-1,4-Dichloro-2-b...	8.783	124	17634	85.78 ug/L	80
67) 2-Chlorotoluene	8.927	91	607167	42.99 ug/L	95
68) 4-Chlorotoluene	9.020	91	706166	41.92 ug/L	99
69) 1,3,5-Trimethylbenzene	8.988	105	688121	47.60 ug/L	100
70) tert-Butylbenzene	9.290	119	626040	48.40 ug/L	96
71) 1,2,4-Trimethylbenzene	9.332	105	696296	47.44 ug/L	96
72) sec-Butylbenzene	9.492	105	788176	49.77 ug/L	96
73) 1,3-Dichlorobenzene	9.607	146	359008	48.00 ug/L	95
74) 4-Isopropyltoluene	9.617	119	665463	50.32 ug/L	97
75) 1,4-Dichlorobenzene	9.688	146	361014	46.72 ug/L	97
76) 1,2-Dichlorobenzene	10.037	146	335390	50.73 ug/L	91
77) n-Butylbenzene	9.996	91	603343	50.65 ug/L	98
78) 1,2-Dibromo-3-chloropr...	10.715	75	31142	50.89 ug/L	93
79) 1,2,4-Trichlorobenzene	11.340	180	158582	60.77 ug/L	99
80) Hexachlorobutadiene	11.456	225	75693	56.84 ug/L	96
81) Naphthalene	11.530	128	370651	79.34 ug/L	100
82) 1,2,3-Trichlorobenzene	11.713	180	124640	68.76 ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220302\
Data File : V1521115112.D
Acq On : 2 Mar 2022 9:04 pm
Operator : CM
Sample : 2202W70-001AMS 20X pH5
Misc : MS 1311_V
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 03 09:24:15 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Wed Mar 02 11:25:48 2022
Response via : Initial Calibration



Injection Log

Directory: C:\MS-15\New\Raw Data\220131

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	51	V1521114263.D	1.	BLANK	BLANK	31 Jan 2022 09:06
2	52	V1521114264.D	1.	BLANK	BLANK	31 Jan 2022 10:08
3	53	V1521114265.D	1.	CCV 8260 050 W	CCV 8260B_W	31 Jan 2022 10:33
4	1	V1521114266.D	1.	BLANK	BLANK	31 Jan 2022 13:57
5	2	V1521114267.D	1.	BLANK	BLANK	31 Jan 2022 14:22
6	3	V1521114268.D	1.	BLANK	BLANK	31 Jan 2022 14:47
7	4	V1521114269.D	1.	BLANK	BLANK	31 Jan 2022 16:01
8	1	V1521114270.D	1.	BLANK	BLANK	31 Jan 2022 16:25
9	2	V1521114271.D	1.	BLANK	BLANK	31 Jan 2022 16:51
10	3	V1521114272.D	1.	BLANK	BLANK	31 Jan 2022 17:16
11	5	V1521114273.D	1.	ICAL 8260 001W	SAMP 8260B_W	31 Jan 2022 17:40
12	6	V1521114274.D	1.	ICAL 8260 002W	SAMP 8260B_W	31 Jan 2022 18:05
13	7	V1521114275.D	1.	ICAL 8260 005W	SAMP 8260B_W	31 Jan 2022 18:30
14	8	V1521114276.D	1.	ICAL 8260 010W	SAMP 8260B_W	31 Jan 2022 18:55
15	9	V1521114277.D	1.	ICAL 8260 020W	SAMP 8260B_W	31 Jan 2022 19:20
16	10	V1521114278.D	1.	ICAL 8260 050W	SAMP 8260B_W	31 Jan 2022 19:45
17	11	V1521114279.D	1.	ICAL 8260 100W	SAMP 8260B_W	31 Jan 2022 20:10
18	12	V1521114280.D	1.	BLANK	BLANK	31 Jan 2022 20:35
19	13	V1521114281.D	1.	ICAL 8260 150W	SAMP 8260B_W	31 Jan 2022 21:00
20	14	V1521114282.D	1.	BLANK	BLANK	31 Jan 2022 21:26
21	15	V1521114283.D	1.	ICAL 8260 200W	SAMP 8260B_W	31 Jan 2022 21:51
22	16	V1521114284.D	1.	BLANK	BLANK	31 Jan 2022 22:16
23	16	V1521114285.D	1.	BLANK	BLANK	31 Jan 2022 22:41
24	17	V1521114286.D	1.	ICV 8260 020W	ICV 8260B_W	31 Jan 2022 23:06
25	18	V1521114287.D	1.	BLANK	BLANK	1 Feb 2022 09:07
26	18	V1521114288.D	1.	BLANK	BLANK	1 Feb 2022 09:33
27	19	V1521114289.D	1.	ICAL 8260 001W	SAMP 8260B_W	1 Feb 2022 09:58
28	20	V1521114290.D	1.	ICAL 8260 002W	SAMP 8260B_W	1 Feb 2022 10:23
29	21	V1521114291.D	1.	ICAL 8260 005W	SAMP 8260B_W	1 Feb 2022 11:02

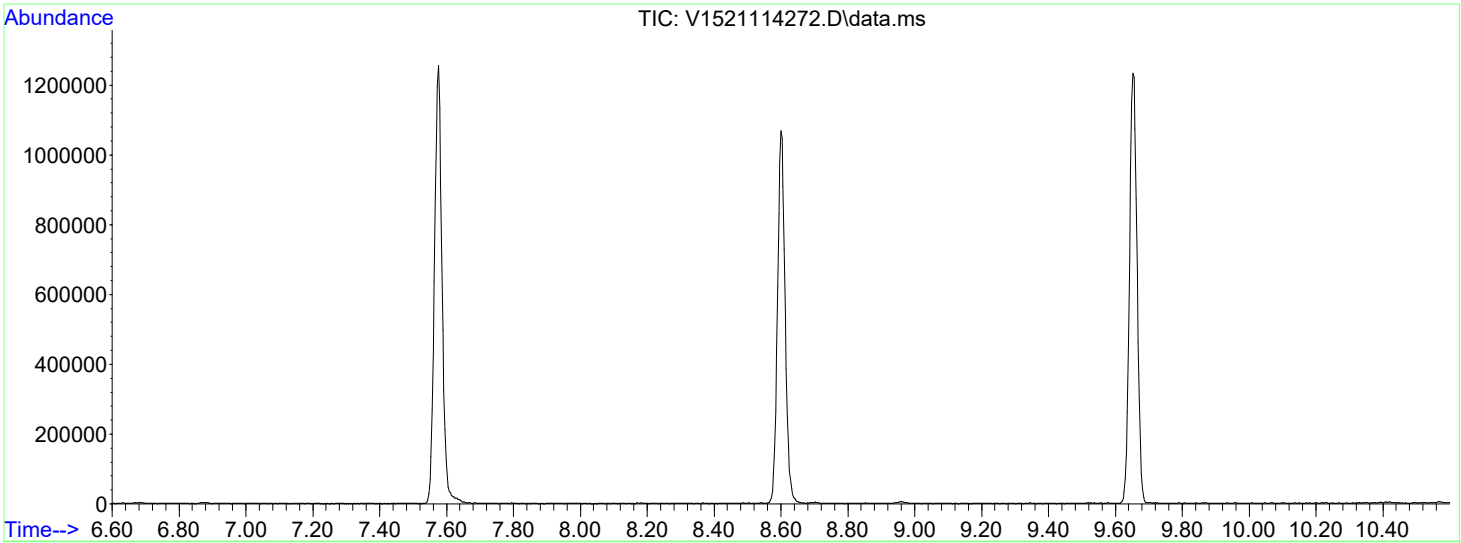
R: AG
A: CM

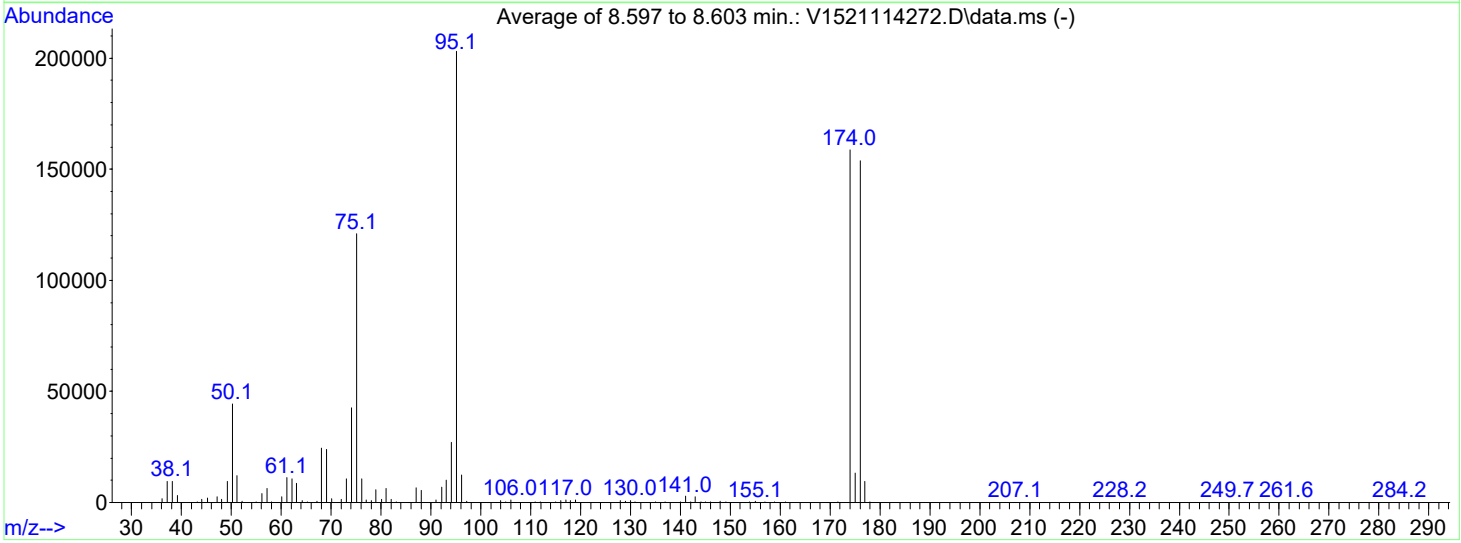
BFB

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114272.D
Acq On : 31 Jan 2022 5:16 pm
Operator : CM
Sample : BLANK
Misc : BLANK
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Title : 8260D/624.1 Purgeable organics calibration.
Last Update : Tue Feb 01 11:55:47 2022





AutoFind: Scans 2497, 2498, 2499; Background Corrected with Scan 2481

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.8	44285	PASS
75	95	30	60	59.6	121029	PASS
95	95	100	100	100.0	202987	PASS
96	95	5	9	6.2	12511	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	78.2	158741	PASS
175	174	5	9	8.4	13308	PASS
176	174	95	101	96.9	153792	PASS
177	176	5	9	6.2	9523	PASS

Response Factor Report MS-15

Method Path : C:\MS-15\New\Calculation Methods\
Method File : MS-15_VW013122.M
Title : 8260D/624.1 Purgeable organics calibration.
Last Update : Tue Feb 01 11:55:47 2022
Response Via : Initial Calibration

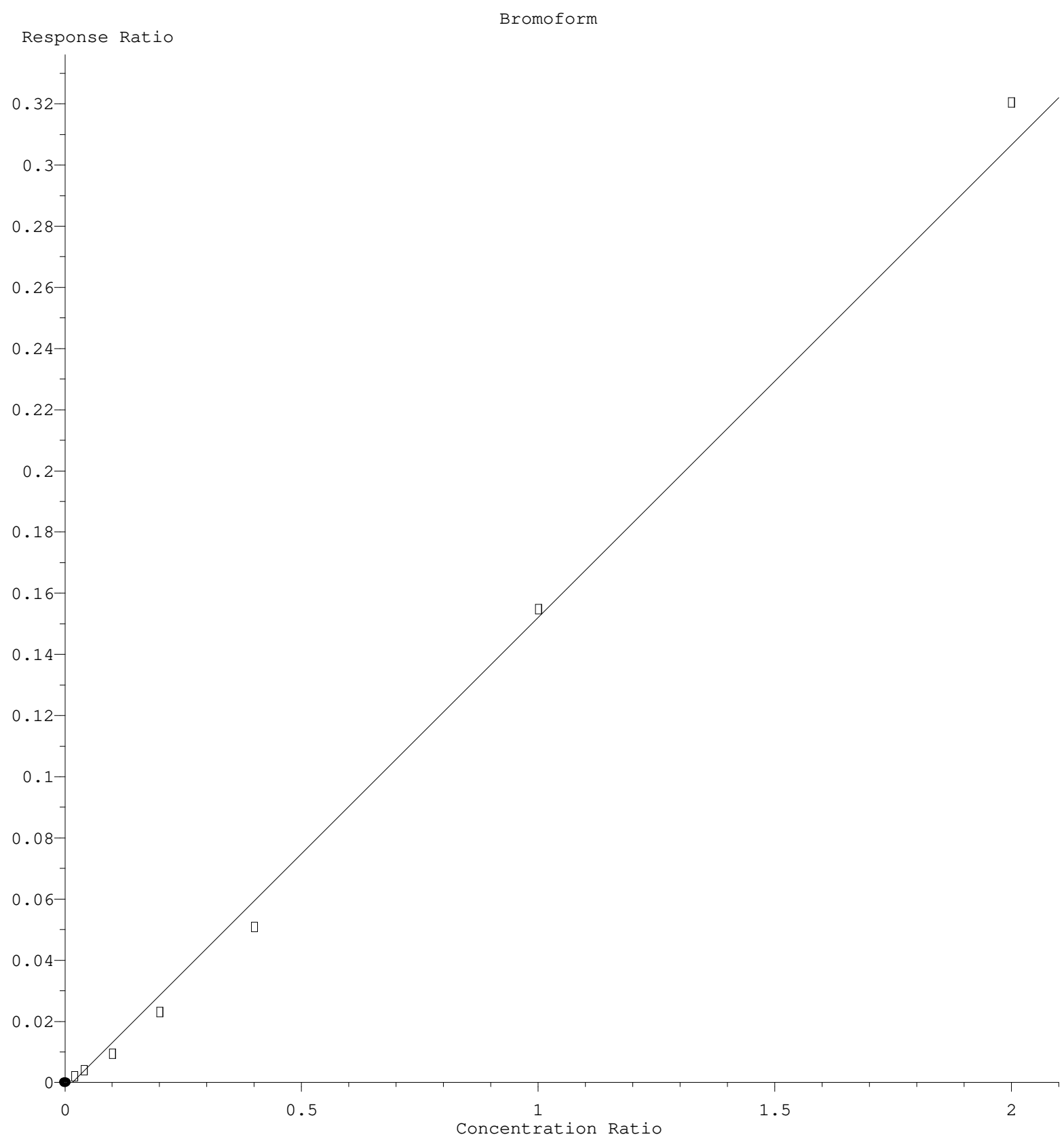
Calibration Files
1 =V1521114289.D 2 =V1521114290.D 5 =V1521114291.D 10 =V1521114276.D 20 =V1521114277.D 50 =V1521114278.D
100 =V1521114279.D 150 =V1521114281.D 200 =V1521114283.D

		Compound	1	2	5	10	20	50	100	150	200	Avg	%RSD
1)		Pentafluorobenzene	----------ISTD----------										
2)	T	Dichlorodifluo...	0.591	0.502	0.554	0.629	0.653	0.669	0.677	0.614	0.612	0.611	9.21
3)	pcc	Chloromethane	0.463	0.348	0.352	0.378	0.361	0.384	0.370	0.343	0.333	0.370	10.45
4)	ccc	Vinyl chloride	0.426	0.401	0.371	0.405	0.415	0.431	0.446	0.395	0.403	0.410	5.42
5)	T	Bromomethane	0.400	0.312	0.300	0.307	0.325	0.361	0.355	0.322	0.320	0.334	9.67
6)	T	Chloroethane	0.255	0.242	0.228	0.240	0.234	0.261	0.253	0.230	0.229	0.241	5.09
7)	T	Trichlorofluor...	0.821	0.749	0.797	0.849	0.902	0.922	0.904	0.851	0.832	0.847	6.60
8)	T	Acrolein			0.050	0.060	0.065	0.066	0.063	0.064	0.058	0.061	9.34
9)	Mccc	1,1-Dichloroet...	0.328	0.316	0.315	0.324	0.346	0.377	0.381	0.345	0.355	0.343	7.14
10)		Freon-113	0.340	0.370	0.353	0.391	0.409	0.432	0.430	0.391	0.390	0.389	8.14
11)	T	Acetone			0.021	0.021	0.021	0.019	0.016	0.017		0.019	12.48
12)	T	Iodomethane	0.519	0.511	0.487	0.529	0.560	0.614	0.616	0.565	0.584	0.554	8.21
13)	T	Carbon disulfide	0.872	0.867	0.915	0.999	1.085	1.221	1.270	1.166	1.180	1.064	14.60
14)		Methyl acetate	0.185	0.224	0.194	0.224	0.239	0.219	0.208	0.206		0.212	8.22
15)	T	Vinyl acetate	0.499	0.522	0.553	0.611	0.694	0.734	0.722	0.727	0.731	0.644	15.18
16)	T	Methylene chlo...	0.840	0.730	0.484	0.422	0.407	0.444	0.431	0.391	0.399	0.505	32.32
17)	T	Acrylonitrile	0.123	0.138	0.109	0.132	0.132	0.133	0.122	0.123	0.112	0.125	7.79
18)		Methyl tert-bu...	0.983	1.054	1.060	1.146	1.185	1.329	1.282	1.202	1.218	1.162	9.73
19)	T	trans-1,2-Dich...	0.304	0.327	0.341	0.346	0.386	0.409	0.401	0.373	0.374	0.362	9.70
20)	pcc	1,1-Dichloroet...	0.766	0.833	0.761	0.836	0.864	0.936	0.911	0.845	0.853	0.845	6.83
21)	T	2,2-Dichloropr...	0.583	0.588	0.564	0.554	0.610	0.683	0.691	0.634	0.632	0.615	7.91
22)	T	cis-1,2-Dichlo...	0.365	0.353	0.353	0.367	0.404	0.426	0.428	0.403	0.407	0.390	7.71
23)	T	2-Butanone	0.018	0.025	0.022	0.028	0.028	0.024	0.022	0.023	0.021	0.023	13.61
24)	T	Bromochloromet...	0.144	0.179	0.157	0.164	0.172	0.185	0.179	0.168	0.173	0.169	7.54
25)	ccc	Chloroform	0.817	0.790	0.795	0.839	0.881	0.942	0.937	0.862	0.881	0.860	6.49
26)		Cyclohexane	0.583	0.595	0.625	0.695	0.705	0.762	0.748	0.699	0.702	0.679	9.44
27)	T	1,1,1-Trichlor...	0.716	0.691	0.693	0.732	0.793	0.874	0.857	0.816	0.830	0.778	9.12
28)	I	1,4-Difluorobenzene	----------ISTD----------										
29)	S	Dibromofluorom...	0.387	0.380	0.389	0.392	0.382	0.406	0.413	0.383	0.372	0.389	3.32
30)	T	1,1-Dichloropr...	0.110	0.104	0.093	0.107	0.114	0.124	0.123	0.115	0.118	0.112	8.83
31)	T	Carbon tetrach...	0.341	0.338	0.323	0.346	0.377	0.444	0.462	0.434	0.439	0.389	14.11
32)	M	Benzene	0.902	0.959	0.930	0.976	1.011	1.055	1.048	0.988	1.001	0.985	5.14
33)	T	1,2-Dichloroet...	0.461	0.488	0.465	0.502	0.499	0.527	0.505	0.483	0.474	0.489	4.33
34)	M	Trichloroethene	0.218	0.204	0.215	0.211	0.233	0.246	0.239	0.235	0.241	0.227	6.69
35)		Methylcyclohexane	0.317	0.300	0.319	0.351	0.382	0.414	0.414	0.381	0.376	0.362	11.64
36)	ccc	1,2-Dichloropr...	0.274	0.252	0.268	0.265	0.274	0.288	0.276	0.267	0.264	0.270	3.65
37)	T	Dibromomethane	0.143	0.153	0.144	0.157	0.163	0.171	0.165	0.163	0.164	0.158	6.04
38)	T	Bromodichlorom...	0.318	0.294	0.321	0.322	0.359	0.410	0.413	0.405	0.411	0.362	13.47
39)	T	2-Chloroethyl ...	0.098	0.113	0.117	0.122	0.137	0.141	0.136	0.150	0.148	0.129	13.64
40)	T	cis-1,3-Dichlo...	0.309	0.317	0.342	0.362	0.388	0.431	0.438	0.452	0.461	0.389	15.19
41)	T	4-Methyl-2-pen...	0.118	0.144	0.140	0.166	0.179	0.184	0.172	0.176	0.164	0.160	13.61

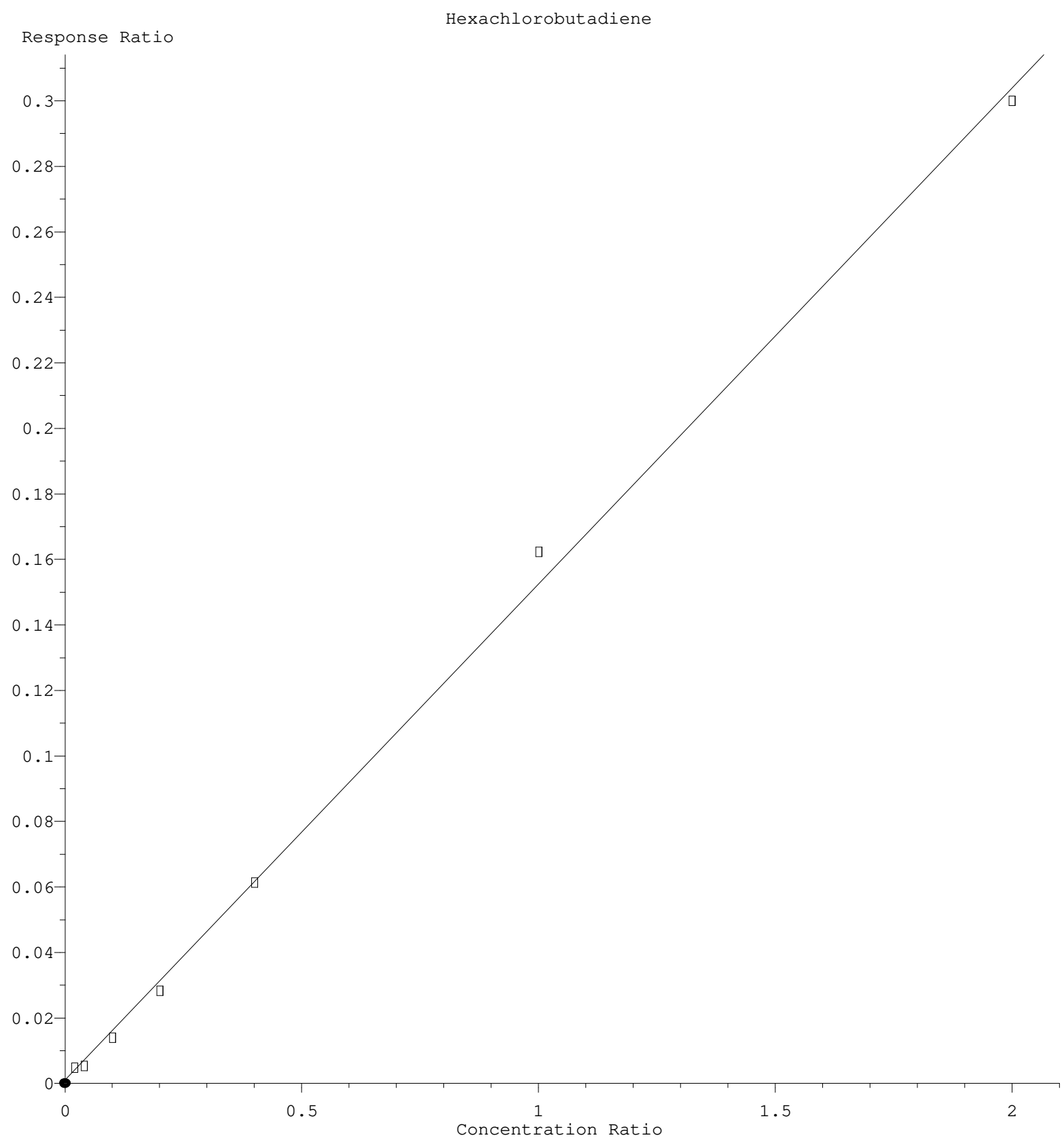
Method Path : C:\MS-15\New\Calculation Methods\
Method File : MS-15_VW013122.M
Title : 8260D/624.1 Purgeable organics calibration.

42)	S	Toluene-d8	1.239	1.243	1.266	1.246	1.253	1.276	1.284	1.308	1.279	1.266	1.80
43)	McccToluene		0.573	0.617	0.596	0.580	0.610	0.629	0.624	0.632	0.638	0.611	3.79
44)	T	trans-1,3-Dich...	0.264	0.281	0.294	0.299	0.359	0.394	0.400	0.422	0.429	0.349	18.62
45)	T	1,1,2-Trichlor...	0.152	0.181	0.159	0.162	0.169	0.172	0.168	0.175	0.176	0.168	5.40
46)	I	Chlorobenzene-d5	----------ISTD----------										
47)	T	2-Hexanone	0.073	0.087	0.088	0.104	0.117	0.109	0.103	0.108	0.101	0.099	13.97
48)	T	Tetrachloroethene	0.278	0.285	0.264	0.274	0.285	0.291	0.298	0.281	0.299	0.284	3.98
49)	T	1,3-Dichloropr...	0.340	0.382	0.350	0.391	0.393	0.396	0.388	0.378	0.395	0.379	5.37
50)	T	Dibromochlorom...	0.151	0.182	0.172	0.190	0.208	0.239	0.248	0.246	0.262	0.211	18.79
51)	T	1,2-Dibromoethane	0.197	0.177	0.180	0.194	0.206	0.212	0.206	0.207	0.216	0.199	6.93
52)	MpccChlorobenzene		0.635	0.668	0.662	0.639	0.686	0.699	0.690	0.675	0.701	0.673	3.60#
53)	T	1,1,1,2-Tetrac...	0.175	0.181	0.186	0.213	0.236	0.262	0.265	0.257	0.266	0.227	16.90
54)	ccc	Ethylbenzene	1.122	1.136	1.166	1.187	1.323	1.367	1.337	1.312	1.346	1.255	7.95
55)	T	m,p-Xylene	0.854	0.909	0.941	0.979	1.068	1.092	1.054	1.057	1.079	1.004	8.56
56)	T	o-Xylene	0.840	0.901	0.922	0.992	1.076	1.167	1.121	1.108	1.094	1.025	11.19
57)	T	Styrene	0.530	0.581	0.601	0.660	0.722	0.796	0.767	0.779	0.778	0.690	14.50
58)	pcc	Bromoform	0.096	0.098	0.093	0.115	0.127	0.155	0.160			0.121	23.06#
59)	S	4-Bromofluorob...	0.608	0.586	0.598	0.590	0.602	0.604	0.597	0.603	0.563	0.594	2.27
60)	I	1,4-Dichlorobenzen...	----------ISTD----------										
61)	T	Bromobenzene	0.462	0.530	0.514	0.502	0.528	0.536	0.539	0.508	0.627	0.527	8.40
62)	pcc	1,1,2,2-Tetrac...	0.366	0.417	0.434	0.483	0.495	0.499	0.491	0.453	0.550	0.465	11.61
63)	T	1,2,3-Trichlor...	0.558	0.737	0.743	0.794	0.834	0.865	0.875	0.791	0.994	0.799	14.96
64)	T	Isopropylbenzene	1.570	1.792	1.813	2.019	2.206	2.295	2.249	2.173	2.629	2.083	15.37
65)	T	n-Propylbenzene	2.245	2.518	2.507	2.661	2.864	2.835	2.725	2.681	3.165	2.689	9.66
66)	T	trans-1,4-Dich...			0.020	0.019	0.022	0.025	0.027	0.027		0.024	14.94
67)	T	2-Chlorotoluene	1.400	1.515	1.558	1.580	1.666	1.726	1.675	1.606	1.840	1.618	7.88
68)	T	4-Chlorotoluene	1.559	1.889	1.890	1.947	2.042	2.041	1.949	1.904	2.153	1.930	8.53
69)	T	1,3,5-Trimethy...	1.284	1.463	1.592	1.619	1.763	1.851	1.703	1.793	1.840	1.657	11.41
70)	T	tert-Butylbenzene	1.148	1.262	1.361	1.465	1.572	1.680	1.541	1.649	1.661	1.482	12.74
71)	T	1,2,4-Trimethy...	1.329	1.539	1.589	1.649	1.801	1.879	1.724	1.814	1.811	1.682	10.39
72)	T	sec-Butylbenzene	1.433	1.539	1.634	1.754	1.991	2.059	1.885	2.064	1.975	1.815	12.96
73)	T	1,3-Dichlorobe...	0.770	0.819	0.800	0.832	0.862	0.924	0.887	0.883	0.936	0.857	6.55
74)	T	4-Isopropyltol...	1.211	1.235	1.350	1.455	1.656	1.749	1.564	1.770	1.646	1.515	14.01
75)	T	1,4-Dichlorobe...	0.864	0.893	0.814	0.864	0.901	0.920	0.891	0.890	0.930	0.885	3.90
76)	T	1,2-Dichlorobe...	0.750	0.705	0.704	0.737	0.768	0.811	0.762	0.792	0.788	0.758	4.94
77)	T	n-Butylbenzene	1.143	1.060	1.123	1.240	1.463	1.590	1.474	1.656	1.537	1.365	16.45
78)	T	1,2-Dibromo-3-...	0.079	0.067	0.060	0.066	0.066	0.076	0.078			0.070	10.34
79)	T	1,2,4-Trichlor...	0.371	0.280	0.246	0.258	0.297	0.328	0.314			0.299	14.42
80)	T	Hexachlorobuta...	0.237	0.131	0.140	0.141	0.153	0.162	0.150			0.159	22.39
81)	T	Naphthalene	0.506	0.467	0.409	0.490	0.573	0.656	0.647			0.535	17.38
82)	T	1,2,3-Trichlor...	0.278	0.178	0.181	0.184	0.197	0.226	0.209			0.208	17.05

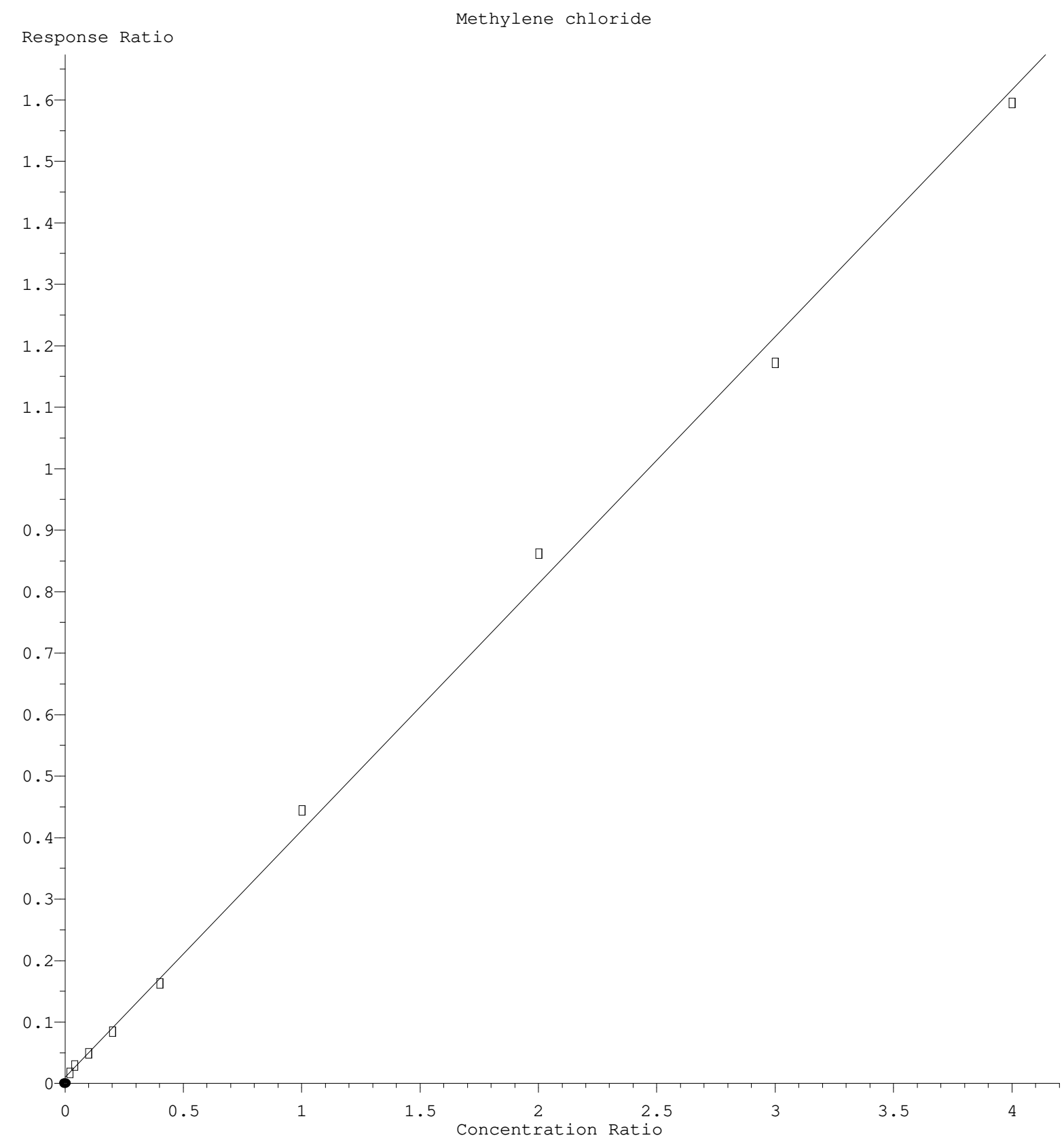
(#) = Out of Range



Response = 1.55e-001 * Amt - 2.54e-003
Coef of Det (r^2) = 0.992 Curve Fit: wlr(1/a)
Method Name: C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Calibration Table Last Updated: Tue Feb 01 11:40:09 2022



Response = 1.52e-001 * Amt + 5.25e-004
Coef of Det (r^2) = 0.996 Curve Fit: wlr(1/a)
Method Name: C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Calibration Table Last Updated: Tue Feb 01 11:40:09 2022



Response = 4.02e-001 * Amt + 9.83e-003
Coef of Det (r^2) = 0.998 Curve Fit: wlr(1/a)
Method Name: C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Calibration Table Last Updated: Tue Feb 01 11:40:09 2022

Evaluate Continuing Calibration Report

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114276.D
Acq On : 31 Jan 2022 6:55 pm
Operator : CM
Sample : ICAL 8260 010W
Misc : SAMP 8260B_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 01 11:53:03 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	10.000	10.292	-2.9	100	0.00
3	pcc	Chloromethane	10.000	10.213	-2.1	100	0.00
4	ccc	Vinyl chloride	10.000	9.877	1.2	100	0.00
5	T	Bromomethane	10.000	9.215	7.9	100	0.00
6	T	Chloroethane	10.000	9.954	0.5	100	0.00
7	T	Trichlorofluoromethane	10.000	10.025	-0.3	100	0.00
8	T	Acrolein	10.000	9.918	0.8	100	0.00
9	Mccc	1,1-Dichloroethene	10.000	9.441	5.6	100	0.00
10		Freon-113	10.000	10.038	-0.4	100	0.00
11	T	Acetone	20.000	21.812	-9.1	100	0.00
12	T	Iodomethane	20.000	19.098	4.5	100	0.00
13	T	Carbon disulfide	20.000	18.786	6.1	100	0.00
14		Methyl acetate	10.000	10.548	-5.5	100	0.00
15	T	Vinyl acetate	20.000	19.000	5.0	100	0.00
16	T	Methylene chloride	10.000	9.284	7.2	100	0.00
17	T	Acrylonitrile	10.000	10.542	-5.4	100	0.00
18		Methyl tert-butyl ether	10.000	9.858	1.4	100	0.00
19	T	trans-1,2-Dichloroethene	10.000	9.537	4.6	100	0.00
20	pcc	1,1-Dichloroethane	10.000	9.896	1.0	100	0.00
21	T	2,2-Dichloropropane	10.000	9.001	10.0	100	0.00
22	T	cis-1,2-Dichloroethene	10.000	9.426	5.7	100	0.00
23	T	2-Butanone	20.000	23.664	-18.3	100	0.00
24	T	Bromochloromethane	10.000	9.712	2.9	100	0.00
25	ccc	Chloroform	10.000	9.754	2.5	100	0.00
26		Cyclohexane	10.000	10.237	-2.4	100	0.00
27	T	1,1,1-Trichloroethane	10.000	9.411	5.9	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	50.356	-0.7	100	0.00
30	T	1,1-Dichloropropene	10.000	9.524	4.8	100	0.00
31	T	Carbon tetrachloride	10.000	8.889	11.1	100	0.00
32	M	Benzene	10.000	9.900	1.0	100	0.00
33	T	1,2-Dichloroethane	10.000	10.258	-2.6	100	0.00
34	M	Trichloroethene	10.000	9.292	7.1	100	0.00
35		Methylcyclohexane	10.000	9.721	2.8	100	0.00
36	ccc	1,2-Dichloropropane	10.000	9.836	1.6	100	0.00
37	T	Dibromomethane	10.000	9.945	0.5	100	0.00
38	T	Bromodichloromethane	10.000	8.914	10.9	100	0.00
39	T	2-Chloroethyl vinyl ether	20.000	18.931	5.3	100	0.00
40	T	cis-1,3-Dichloropropene	10.000	9.292	7.1	100	0.00
41	T	4-Methyl-2-pentanone	20.000	20.738	-3.7	100	0.00
42	S	Toluene-d8	50.000	49.227	1.5	100	0.00
43	Mccc	Toluene	10.000	9.493	5.1	100	0.00
44	T	trans-1,3-Dichloropropene	10.000	8.553	14.5	100	0.00
45	T	1,1,2-Trichloroethane	10.000	9.643	3.6	100	0.00
46	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
47	T	2-Hexanone	20.000	21.048	-5.2	100	0.00
48	T	Tetrachloroethene	10.000	9.640	3.6	100	0.00
49	T	1,3-Dichloropropane	10.000	10.314	-3.1	100	0.00
50	T	Dibromochloromethane	10.000	8.999	10.0	100	0.00
51	T	1,2-Dibromoethane	10.000	9.722	2.8	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114276.D
Acq On : 31 Jan 2022 6:55 pm
Operator : CM
Sample : ICAL 8260 010W
Misc : SAMP 8260B_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 01 11:53:03 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	Mpcc	Chlorobenzene	10.000	9.502	5.0	100	0.00
53	T	1,1,1,2-Tetrachloroethane	10.000	9.402	6.0	100	0.00
54	ccc	Ethylbenzene	10.000	9.461	5.4	100	0.00
55	T	m,p-Xylene	20.000	19.516	2.4	100	0.00
56	T	o-Xylene	10.000	9.682	3.2	100	0.00
57	T	Styrene	10.000	9.558	4.4	100	0.00
58	pcc	Bromoform	10.000	8.262	17.4	100	0.00
59	S	4-Bromofluorobenzene	50.000	49.599	0.8	100	0.00
60	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
61	T	Bromobenzene	10.000	9.513	4.9	100	0.00
62	pcc	1,1,2,2-Tetrachloroethane	10.000	10.373	-3.7	100	0.00
63	T	1,2,3-Trichloropropane	10.000	9.933	0.7	100	0.00
64	T	Isopropylbenzene	10.000	9.695	3.0	100	0.00
65	T	n-Propylbenzene	10.000	9.896	1.0	100	0.00
66	T	trans-1,4-Dichloro-2-butene	20.000	16.542	17.3	100	0.00
67	T	2-Chlorotoluene	10.000	9.762	2.4	100	0.00
68	T	4-Chlorotoluene	10.000	10.087	-0.9	100	0.00
69	T	1,3,5-Trimethylbenzene	10.000	9.774	2.3	100	0.00
70	T	tert-Butylbenzene	10.000	9.885	1.2	100	0.00
71	T	1,2,4-Trimethylbenzene	10.000	9.803	2.0	100	0.00
72	T	sec-Butylbenzene	10.000	9.666	3.3	100	0.00
73	T	1,3-Dichlorobenzene	10.000	9.711	2.9	100	0.00
74	T	4-Isopropyltoluene	10.000	9.605	3.9	100	0.00
75	T	1,4-Dichlorobenzene	10.000	9.762	2.4	100	0.00
76	T	1,2-Dichlorobenzene	10.000	9.735	2.7	100	0.00
77	T	n-Butylbenzene	10.000	9.087	9.1	100	0.00
78	T	1,2-Dibromo-3-chloropropane	10.000	9.345	6.5	100	0.00
79	T	1,2,4-Trichlorobenzene	10.000	8.637	13.6	100	0.00
80	T	Hexachlorobutadiene	10.000	9.107	8.9	100	0.00
81	T	Naphthalene	10.000	9.144	8.6	100	0.00
82	T	1,2,3-Trichlorobenzene	10.000	8.878	11.2	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114277.D
Acq On : 31 Jan 2022 7:20 pm
Operator : CM
Sample : ICAL 8260 020W
Misc : SAMP 8260B_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 01 11:53:29 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	20.000	21.370	-6.9	100	0.00
3	pcc	Chloromethane	20.000	19.485	2.6	100	0.00
4	ccc	Vinyl chloride	20.000	20.219	-1.1	100	0.00
5	T	Bromomethane	20.000	19.489	2.6	100	0.00
6	T	Chloroethane	20.000	19.382	3.1	100	0.00
7	T	Trichlorofluoromethane	20.000	21.279	-6.4	100	0.00
8	T	Acrolein	20.000	21.458	-7.3	100	0.00
9	Mccc	1,1-Dichloroethene	20.000	20.195	-1.0	100	0.00
10		Freon-113	20.000	20.993	-5.0	100	0.00
11	T	Acetone	40.000	44.536	-11.3	100	0.00
12	T	Iodomethane	40.000	40.460	-1.2	100	0.00
13	T	Carbon disulfide	40.000	40.791	-2.0	100	0.00
14		Methyl acetate	20.000	22.470	-12.3	100	0.00
15	T	Vinyl acetate	40.000	43.096	-7.7	100	0.00
16	T	Methylene chloride	20.000	19.030	4.8	100	0.00
17	T	Acrylonitrile	20.000	21.094	-5.5	100	0.00
18		Methyl tert-butyl ether	20.000	20.399	-2.0	100	0.00
19	T	trans-1,2-Dichloroethene	20.000	21.322	-6.6	100	0.00
20	pcc	1,1-Dichloroethane	20.000	20.445	-2.2	100	0.00
21	T	2,2-Dichloropropane	20.000	19.829	0.9	100	0.00
22	T	cis-1,2-Dichloroethene	20.000	20.752	-3.8	100	0.00
23	T	2-Butanone	40.000	48.057	-20.1#	100	0.00
24	T	Bromochloromethane	20.000	20.327	-1.6	100	0.00
25	ccc	Chloroform	20.000	20.471	-2.4	100	0.00
26		Cyclohexane	20.000	20.767	-3.8	100	0.00
27	T	1,1,1-Trichloroethane	20.000	20.389	-1.9	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	49.006	2.0	100	0.00
30	T	1,1-Dichloropropene	20.000	20.401	-2.0	100	0.00
31	T	Carbon tetrachloride	20.000	19.373	3.1	100	0.00
32	M	Benzene	20.000	20.518	-2.6	100	0.00
33	T	1,2-Dichloroethane	20.000	20.392	-2.0	100	0.00
34	M	Trichloroethene	20.000	20.564	-2.8	100	0.00
35		Methylcyclohexane	20.000	21.139	-5.7	100	0.00
36	ccc	1,2-Dichloropropane	20.000	20.326	-1.6	100	0.00
37	T	Dibromomethane	20.000	20.596	-3.0	100	0.00
38	T	Bromodichloromethane	20.000	19.870	0.6	100	0.00
39	T	2-Chloroethyl vinyl ether	40.000	42.527	-6.3	100	0.00
40	T	cis-1,3-Dichloropropene	20.000	19.966	0.2	100	0.00
41	T	4-Methyl-2-pentanone	40.000	44.588	-11.5	100	0.00
42	S	Toluene-d8	50.000	49.497	1.0	100	0.00
43	Mccc	Toluene	20.000	19.963	0.2	100	0.00
44	T	trans-1,3-Dichloropropene	20.000	20.566	-2.8	100	0.00
45	T	1,1,2-Trichloroethane	20.000	20.102	-0.5	100	0.00
46	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
47	T	2-Hexanone	40.000	47.465	-18.7	100	0.00
48	T	Tetrachloroethene	20.000	20.072	-0.4	100	0.00
49	T	1,3-Dichloropropane	20.000	20.707	-3.5	100	0.00
50	T	Dibromochloromethane	20.000	19.774	1.1	100	0.00
51	T	1,2-Dibromoethane	20.000	20.690	-3.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114277.D
Acq On : 31 Jan 2022 7:20 pm
Operator : CM
Sample : ICAL 8260 020W
Misc : SAMP 8260B_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 01 11:53:29 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	Mpcc	Chlorobenzene	20.000	20.402	-2.0	100	0.00
53	T	1,1,1,2-Tetrachloroethane	20.000	20.822	-4.1	100	0.00
54	ccc	Ethylbenzene	20.000	21.075	-5.4	100	0.00
55	T	m,p-Xylene	40.000	42.551	-6.4	100	0.00
56	T	o-Xylene	20.000	21.010	-5.1	100	0.00
57	T	Styrene	20.000	20.909	-4.5	100	0.00
58	pcc	Bromoform	20.000	17.238	13.8	100	0.00
59	S	4-Bromofluorobenzene	50.000	50.616	-1.2	100	0.00
60	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
61	T	Bromobenzene	20.000	20.034	-0.2	100	0.00
62	pcc	1,1,2,2-Tetrachloroethane	20.000	21.272	-6.4	100	0.00
63	T	1,2,3-Trichloropropane	20.000	20.868	-4.3	100	0.00
64	T	Isopropylbenzene	20.000	21.183	-5.9	100	0.00
65	T	n-Propylbenzene	20.000	21.305	-6.5	100	0.00
66	T	trans-1,4-Dichloro-2-butene	40.000	37.345	6.6	100	0.00
67	T	2-Chlorotoluene	20.000	20.592	-3.0	100	0.00
68	T	4-Chlorotoluene	20.000	21.154	-5.8	100	0.00
69	T	1,3,5-Trimethylbenzene	20.000	21.284	-6.4	100	0.00
70	T	tert-Butylbenzene	20.000	21.210	-6.1	100	0.00
71	T	1,2,4-Trimethylbenzene	20.000	21.423	-7.1	100	0.00
72	T	sec-Butylbenzene	20.000	21.939	-9.7	100	0.00
73	T	1,3-Dichlorobenzene	20.000	20.117	-0.6	100	0.00
74	T	4-Isopropyltoluene	20.000	21.859	-9.3	100	0.00
75	T	1,4-Dichlorobenzene	20.000	20.356	-1.8	100	0.00
76	T	1,2-Dichlorobenzene	20.000	20.268	-1.3	100	0.00
77	T	n-Butylbenzene	20.000	21.441	-7.2	100	0.00
78	T	1,2-Dibromo-3-chloropropane	20.000	18.721	6.4	100	0.00
79	T	1,2,4-Trichlorobenzene	20.000	19.859	0.7	100	0.00
80	T	Hexachlorobutadiene	20.000	19.950	0.3	100	0.00
81	T	Naphthalene	20.000	21.407	-7.0	100	0.00
82	T	1,2,3-Trichlorobenzene	20.000	18.964	5.2	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114278.D
Acq On : 31 Jan 2022 7:45 pm
Operator : CM
Sample : ICAL 8260 050W
Misc : SAMP 8260B_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 01 11:53:57 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	50.000	54.742	-9.5	100	0.00
3	pcc	Chloromethane	50.000	51.841	-3.7	100	0.00
4	ccc	Vinyl chloride	50.000	52.538	-5.1	100	0.00
5	T	Bromomethane	50.000	54.048	-8.1	100	0.00
6	T	Chloroethane	50.000	53.990	-8.0	100	0.00
7	T	Trichlorofluoromethane	50.000	54.395	-8.8	100	0.00
8	T	Acrolein	50.000	54.126	-8.3	100	0.00
9	Mccc	1,1-Dichloroethene	50.000	54.959	-9.9	100	0.00
10		Freon-113	50.000	55.436	-10.9	100	0.00
11	T	Acetone	100.000	99.546	0.5	100	0.00
12	T	Iodomethane	100.000	110.784	-10.8	100	0.00
13	T	Carbon disulfide	100.000	114.737	-14.7	100	0.00
14		Methyl acetate	50.000	51.553	-3.1	100	0.00
15	T	Vinyl acetate	100.000	113.985	-14.0	100	0.00
16	T	Methylene chloride	50.000	53.987	-8.0	100	0.00
17	T	Acrylonitrile	50.000	53.097	-6.2	100	0.00
18		Methyl tert-butyl ether	50.000	57.182	-14.4	100	0.00
19	T	trans-1,2-Dichloroethene	50.000	56.412	-12.8	100	0.00
20	pcc	1,1-Dichloroethane	50.000	55.385	-10.8	100	0.00
21	T	2,2-Dichloropropane	50.000	55.465	-10.9	100	0.00
22	T	cis-1,2-Dichloroethene	50.000	54.619	-9.2	100	0.00
23	T	2-Butanone	100.000	103.499	-3.5	100	0.00
24	T	Bromochloromethane	50.000	54.665	-9.3	100	0.00
25	ccc	Chloroform	50.000	54.750	-9.5	100	0.00
26		Cyclohexane	50.000	56.064	-12.1	100	0.00
27	T	1,1,1-Trichloroethane	50.000	56.151	-12.3	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	52.162	-4.3	100	0.00
30	T	1,1-Dichloropropene	50.000	55.345	-10.7	100	0.00
31	T	Carbon tetrachloride	50.000	56.979	-14.0	100	0.00
32	M	Benzene	50.000	53.518	-7.0	100	0.00
33	T	1,2-Dichloroethane	50.000	53.847	-7.7	100	0.00
34	M	Trichloroethene	50.000	54.272	-8.5	100	0.00
35		Methylcyclohexane	50.000	57.276	-14.6	100	0.00
36	ccc	1,2-Dichloropropane	50.000	53.385	-6.8	100	0.00
37	T	Dibromomethane	50.000	53.995	-8.0	100	0.00
38	T	Bromodichloromethane	50.000	56.690	-13.4	100	0.00
39	T	2-Chloroethyl vinyl ether	100.000	109.238	-9.2	100	0.00
40	T	cis-1,3-Dichloropropene	50.000	55.447	-10.9	100	0.00
41	T	4-Methyl-2-pentanone	100.000	114.512	-14.5	100	0.00
42	S	Toluene-d8	50.000	50.397	-0.8	100	0.00
43	Mccc	Toluene	50.000	51.489	-3.0	100	0.00
44	T	trans-1,3-Dichloropropene	50.000	56.487	-13.0	100	0.00
45	T	1,1,2-Trichloroethane	50.000	50.995	-2.0	100	0.00
46	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
47	T	2-Hexanone	100.000	110.520	-10.5	100	0.00
48	T	Tetrachloroethene	50.000	51.258	-2.5	100	0.00
49	T	1,3-Dichloropropane	50.000	52.220	-4.4	100	0.00
50	T	Dibromochloromethane	50.000	56.579	-13.2	100	0.00
51	T	1,2-Dibromoethane	50.000	53.223	-6.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114278.D
Acq On : 31 Jan 2022 7:45 pm
Operator : CM
Sample : ICAL 8260 050W
Misc : SAMP 8260B_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 01 11:53:57 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	Mpcc	Chlorobenzene	50.000	51.953	-3.9	100	0.00
53	T	1,1,1,2-Tetrachloroethane	50.000	57.709	-15.4	100	0.00
54	ccc	Ethylbenzene	50.000	54.474	-8.9	100	0.00
55	T	m,p-Xylene	100.000	108.817	-8.8	100	0.00
56	T	o-Xylene	50.000	56.957	-13.9	100	0.00
57	T	Styrene	50.000	57.662	-15.3	100	0.00
58	pcc	Bromoform	50.000	50.804	-1.6	100	0.00
59	S	4-Bromofluorobenzene	50.000	50.783	-1.6	100	0.00
60	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
61	T	Bromobenzene	50.000	50.806	-1.6	100	0.00
62	pcc	1,1,2,2-Tetrachloroethane	50.000	53.608	-7.2	100	0.00
63	T	1,2,3-Trichloropropane	50.000	54.141	-8.3	100	0.00
64	T	Isopropylbenzene	50.000	55.095	-10.2	100	0.00
65	T	n-Propylbenzene	50.000	52.725	-5.5	100	0.00
66	T	trans-1,4-Dichloro-2-butene	100.000	108.093	-8.1	100	0.00
67	T	2-Chlorotoluene	50.000	53.322	-6.6	100	0.00
68	T	4-Chlorotoluene	50.000	52.866	-5.7	100	0.00
69	T	1,3,5-Trimethylbenzene	50.000	55.861	-11.7	100	0.00
70	T	tert-Butylbenzene	50.000	56.673	-13.3	100	0.00
71	T	1,2,4-Trimethylbenzene	50.000	55.864	-11.7	100	0.00
72	T	sec-Butylbenzene	50.000	56.738	-13.5	100	0.00
73	T	1,3-Dichlorobenzene	50.000	53.928	-7.9	100	0.00
74	T	4-Isopropyltoluene	50.000	57.720	-15.4	100	0.00
75	T	1,4-Dichlorobenzene	50.000	51.966	-3.9	100	0.00
76	T	1,2-Dichlorobenzene	50.000	53.556	-7.1	100	0.00
77	T	n-Butylbenzene	50.000	58.234	-16.5	100	0.00
78	T	1,2-Dibromo-3-chloropropane	50.000	54.109	-8.2	100	0.00
79	T	1,2,4-Trichlorobenzene	50.000	54.830	-9.7	100	0.00
80	T	Hexachlorobutadiene	50.000	53.159	-6.3	100	0.00
81	T	Naphthalene	50.000	61.249	-22.5#	100	0.00
82	T	1,2,3-Trichlorobenzene	50.000	54.482	-9.0	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114279.D
Acq On : 31 Jan 2022 8:10 pm
Operator : CM
Sample : ICAL 8260 100W
Misc : SAMP 8260B_W
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 01 11:54:14 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	100.000	110.760	-10.8	100	0.00
3	pcc	Chloromethane	100.000	99.892	0.1	100	0.00
4	ccc	Vinyl chloride	100.000	108.723	-8.7	100	0.00
5	T	Bromomethane	100.000	106.398	-6.4	100	0.00
6	T	Chloroethane	100.000	104.816	-4.8	100	0.00
7	T	Trichlorofluoromethane	100.000	106.713	-6.7	100	0.00
8	T	Acrolein	100.000	103.370	-3.4	100	0.00
9	Mccc	1,1-Dichloroethene	100.000	110.931	-10.9	100	0.00
10		Freon-113	100.000	110.520	-10.5	100	0.00
11	T	Acetone	200.000	166.769	16.6	100	0.00
12	T	Iodomethane	200.000	222.426	-11.2	100	0.00
13	T	Carbon disulfide	200.000	238.744	-19.4	100	0.00
14		Methyl acetate	100.000	97.908	2.1	100	0.00
15	T	Vinyl acetate	200.000	224.443	-12.2	100	0.00
16	T	Methylene chloride	100.000	105.968	-6.0	100	0.00
17	T	Acrylonitrile	100.000	97.920	2.1	100	0.00
18		Methyl tert-butyl ether	100.000	110.343	-10.3	100	0.00
19	T	trans-1,2-Dichloroethene	100.000	110.599	-10.6	100	0.00
20	pcc	1,1-Dichloroethane	100.000	107.803	-7.8	100	0.00
21	T	2,2-Dichloropropane	100.000	112.236	-12.2	100	0.00
22	T	cis-1,2-Dichloroethene	100.000	109.806	-9.8	100	0.00
23	T	2-Butanone	200.000	185.455	7.3	100	0.00
24	T	Bromochloromethane	100.000	106.086	-6.1	100	0.00
25	ccc	Chloroform	100.000	108.865	-8.9	100	0.00
26		Cyclohexane	100.000	110.179	-10.2	100	0.00
27	T	1,1,1-Trichloroethane	100.000	110.124	-10.1	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	53.033	-6.1	100	0.00
30	T	1,1-Dichloropropene	100.000	109.725	-9.7	100	0.00
31	T	Carbon tetrachloride	100.000	118.686	-18.7	100	0.00
32	M	Benzene	100.000	106.403	-6.4	100	0.00
33	T	1,2-Dichloroethane	100.000	103.249	-3.2	100	0.00
34	M	Trichloroethene	100.000	105.506	-5.5	100	0.00
35		Methylcyclohexane	100.000	114.492	-14.5	100	0.00
36	ccc	1,2-Dichloropropane	100.000	102.115	-2.1	100	0.00
37	T	Dibromomethane	100.000	104.097	-4.1	100	0.00
38	T	Bromodichloromethane	100.000	114.267	-14.3	100	0.00
39	T	2-Chloroethyl vinyl ether	200.000	209.862	-4.9	100	0.00
40	T	cis-1,3-Dichloropropene	100.000	112.611	-12.6	100	0.00
41	T	4-Methyl-2-pentanone	200.000	214.703	-7.4	100	0.00
42	S	Toluene-d8	50.000	50.713	-1.4	100	0.00
43	Mccc	Toluene	100.000	102.102	-2.1	100	0.00
44	T	trans-1,3-Dichloropropene	100.000	114.512	-14.5	100	0.00
45	T	1,1,2-Trichloroethane	100.000	99.817	0.2	100	0.00
46	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
47	T	2-Hexanone	200.000	208.128	-4.1	100	0.00
48	T	Tetrachloroethene	100.000	104.996	-5.0	100	0.00
49	T	1,3-Dichloropropane	100.000	102.353	-2.4	100	0.00
50	T	Dibromochloromethane	100.000	117.830	-17.8	100	0.00
51	T	1,2-Dibromoethane	100.000	103.365	-3.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114279.D
Acq On : 31 Jan 2022 8:10 pm
Operator : CM
Sample : ICAL 8260 100W
Misc : SAMP 8260B_W
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 01 11:54:14 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	Mpcc	Chlorobenzene	100.000	102.595	-2.6	100	0.00
53	T	1,1,1,2-Tetrachloroethane	100.000	116.709	-16.7	100	0.00
54	ccc	Ethylbenzene	100.000	106.512	-6.5	100	0.00
55	T	m,p-Xylene	200.000	210.048	-5.0	100	0.00
56	T	o-Xylene	100.000	109.401	-9.4	100	0.00
57	T	Styrene	100.000	111.088	-11.1	100	0.00
58	pcc	Bromoform	100.000	104.326	-4.3	100	0.00
59	S	4-Bromofluorobenzene	50.000	50.193	-0.4	100	0.00
60	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
61	T	Bromobenzene	100.000	102.231	-2.2	100	0.00
62	pcc	1,1,2,2-Tetrachloroethane	100.000	105.619	-5.6	100	0.00
63	T	1,2,3-Trichloropropane	100.000	109.548	-9.5	100	0.00
64	T	Isopropylbenzene	100.000	107.957	-8.0	100	0.00
65	T	n-Propylbenzene	100.000	101.334	-1.3	100	0.00
66	T	trans-1,4-Dichloro-2-butene	200.000	231.269	-15.6	100	0.00
67	T	2-Chlorotoluene	100.000	103.471	-3.5	100	0.00
68	T	4-Chlorotoluene	100.000	100.960	-1.0	100	0.00
69	T	1,3,5-Trimethylbenzene	100.000	102.823	-2.8	100	0.00
70	T	tert-Butylbenzene	100.000	103.972	-4.0	100	0.00
71	T	1,2,4-Trimethylbenzene	100.000	102.501	-2.5	100	0.00
72	T	sec-Butylbenzene	100.000	103.871	-3.9	100	0.00
73	T	1,3-Dichlorobenzene	100.000	103.455	-3.5	100	0.00
74	T	4-Isopropyltoluene	100.000	103.223	-3.2	100	0.00
75	T	1,4-Dichlorobenzene	100.000	100.680	-0.7	100	0.00
76	T	1,2-Dichlorobenzene	100.000	100.595	-0.6	100	0.00
77	T	n-Butylbenzene	100.000	107.986	-8.0	100	0.00
78	T	1,2-Dibromo-3-chloropropane	100.000	111.029	-11.0	100	0.00
79	T	1,2,4-Trichlorobenzene	100.000	104.928	-4.9	100	0.00
80	T	Hexachlorobutadiene	100.000	98.424	1.6	100	0.00
81	T	Naphthalene	100.000	120.861	-20.9#	100	0.00
82	T	1,2,3-Trichlorobenzene	100.000	100.799	-0.8	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114281.D
Acq On : 31 Jan 2022 9:00 pm
Operator : CM
Sample : ICAL 8260 150W
Misc : SAMP 8260B_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 01 11:54:37 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	150.000	150.641	-0.4	100	0.00
3	pcc	Chloromethane	150.000	139.055	7.3	100	0.00
4	ccc	Vinyl chloride	150.000	144.457	3.7	100	0.00
5	T	Bromomethane	150.000	144.920	3.4	100	0.00
6	T	Chloroethane	150.000	143.163	4.6	100	0.00
7	T	Trichlorofluoromethane	150.000	150.717	-0.5	100	0.00
8	T	Acrolein	150.000	157.851	-5.2	100	0.00
9	Mccc	1,1-Dichloroethene	150.000	150.843	-0.6	100	0.00
10		Freon-113	150.000	150.469	-0.3	100	0.00
11	T	Acetone	300.000	259.125	13.6	100	0.00
12	T	Iodomethane	300.000	305.977	-2.0	100	0.00
13	T	Carbon disulfide	300.000	328.722	-9.6	100	0.00
14		Methyl acetate	150.000	145.181	3.2	100	0.00
15	T	Vinyl acetate	300.000	339.009	-13.0	100	0.00
16	T	Methylene chloride	150.000	144.535	3.6	100	0.00
17	T	Acrylonitrile	150.000	147.392	1.7	100	0.00
18		Methyl tert-butyl ether	150.000	155.154	-3.4	100	0.00
19	T	trans-1,2-Dichloroethene	150.000	154.468	-3.0	100	0.00
20	pcc	1,1-Dichloroethane	150.000	150.039	-0.0	100	0.00
21	T	2,2-Dichloropropane	150.000	154.428	-3.0	100	0.00
22	T	cis-1,2-Dichloroethene	150.000	155.164	-3.4	100	0.00
23	T	2-Butanone	300.000	291.102	3.0	100	0.00
24	T	Bromochloromethane	150.000	149.274	0.5	100	0.00
25	ccc	Chloroform	150.000	150.234	-0.2	100	0.00
26		Cyclohexane	150.000	154.343	-2.9	100	0.00
27	T	1,1,1-Trichloroethane	150.000	157.260	-4.8	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	49.176	1.6	100	0.00
30	T	1,1-Dichloropropene	150.000	154.852	-3.2	100	0.00
31	T	Carbon tetrachloride	150.000	167.137	-11.4	100	0.00
32	M	Benzene	150.000	150.354	-0.2	100	0.00
33	T	1,2-Dichloroethane	150.000	148.126	1.2	100	0.00
34	M	Trichloroethene	150.000	155.291	-3.5	100	0.00
35		Methylcyclohexane	150.000	157.873	-5.2	100	0.00
36	ccc	1,2-Dichloropropane	150.000	148.329	1.1	100	0.00
37	T	Dibromomethane	150.000	154.680	-3.1	100	0.00
38	T	Bromodichloromethane	150.000	168.167	-12.1	100	0.00
39	T	2-Chloroethyl vinyl ether	300.000	349.071	-16.4	100	0.00
40	T	cis-1,3-Dichloropropene	150.000	174.396	-16.3	100	0.00
41	T	4-Methyl-2-pentanone	300.000	329.608	-9.9	100	0.00
42	S	Toluene-d8	50.000	51.644	-3.3	100	0.00
43	Mccc	Toluene	150.000	155.155	-3.4	100	0.00
44	T	trans-1,3-Dichloropropene	150.000	181.410	-20.9#	100	0.00
45	T	1,1,2-Trichloroethane	150.000	155.789	-3.9	100	0.00
46	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
47	T	2-Hexanone	300.000	327.853	-9.3	100	0.00
48	T	Tetrachloroethene	150.000	148.421	1.1	100	0.00
49	T	1,3-Dichloropropane	150.000	149.401	0.4	100	0.00
50	T	Dibromochloromethane	150.000	174.954	-16.6	100	0.00
51	T	1,2-Dibromoethane	150.000	155.330	-3.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114281.D
Acq On : 31 Jan 2022 9:00 pm
Operator : CM
Sample : ICAL 8260 150W
Misc : SAMP 8260B_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 01 11:54:37 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	Mpcc	Chlorobenzene	150.000	150.420	-0.3	100	0.00
53	T	1,1,1,2-Tetrachloroethane	150.000	169.982	-13.3	100	0.00
54	ccc	Ethylbenzene	150.000	156.749	-4.5	100	0.00
55	T	m,p-Xylene	300.000	315.889	-5.3	100	0.00
56	T	o-Xylene	150.000	162.240	-8.2	100	0.00
57	T	Styrene	150.000	169.176	-12.8	100	0.00
58	pcc	Bromoform	-1.000	161.120	0.0	100	0.00
59	S	4-Bromofluorobenzene	50.000	50.697	-1.4	100	0.00
60	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
61	T	Bromobenzene	150.000	144.589	3.6	100	0.00
62	pcc	1,1,2,2-Tetrachloroethane	150.000	145.926	2.7	100	0.00
63	T	1,2,3-Trichloropropane	150.000	148.529	1.0	100	0.00
64	T	Isopropylbenzene	150.000	156.491	-4.3	100	0.00
65	T	n-Propylbenzene	150.000	149.545	0.3	100	0.00
66	T	trans-1,4-Dichloro-2-butene	300.000	345.954	-15.3	100	0.00
67	T	2-Chlorotoluene	150.000	148.817	0.8	100	0.00
68	T	4-Chlorotoluene	150.000	147.940	1.4	100	0.00
69	T	1,3,5-Trimethylbenzene	150.000	162.393	-8.3	100	0.00
70	T	tert-Butylbenzene	150.000	166.861	-11.2	100	0.00
71	T	1,2,4-Trimethylbenzene	150.000	161.828	-7.9	100	0.00
72	T	sec-Butylbenzene	150.000	170.619	-13.7	100	0.00
73	T	1,3-Dichlorobenzene	150.000	154.562	-3.0	100	0.00
74	T	4-Isopropyltoluene	150.000	175.239	-16.8	100	0.00
75	T	1,4-Dichlorobenzene	150.000	150.844	-0.6	100	0.00
76	T	1,2-Dichlorobenzene	150.000	156.767	-4.5	100	0.00
77	T	n-Butylbenzene	150.000	181.971	-21.3#	100	0.00
78	T	1,2-Dibromo-3-chloropropane	-1.000	175.862	0.0	100	0.00
79	T	1,2,4-Trichlorobenzene	-1.000	207.214	0.0	100	0.00
80	T	Hexachlorobutadiene	-1.000	212.821	0.0	100	0.00
81	T	Naphthalene	-1.000	238.688	0.0	100	0.00
82	T	1,2,3-Trichlorobenzene	-1.000	223.235	0.0	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114283.D
Acq On : 31 Jan 2022 9:51 pm
Operator : CM
Sample : ICAL 8260 200W
Misc : SAMP 8260B_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 01 11:55:02 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	200.000	200.199	-0.1	100	0.00
3	pcc	Chloromethane	200.000	179.768	10.1	100	0.00
4	ccc	Vinyl chloride	200.000	196.304	1.8	100	0.00
5	T	Bromomethane	200.000	191.935	4.0	100	0.00
6	T	Chloroethane	200.000	189.636	5.2	100	0.00
7	T	Trichlorofluoromethane	200.000	196.286	1.9	100	0.00
8	T	Acrolein	200.000	190.175	4.9	100	0.00
9	Mccc	1,1-Dichloroethene	200.000	207.003	-3.5	100	0.00
10		Freon-113	200.000	200.286	-0.1	100	0.00
11	T	Acetone	-1.000	283.756	0.0	0	0.00
12	T	Iodomethane	400.000	421.507	-5.4	100	0.00
13	T	Carbon disulfide	400.000	443.616	-10.9	100	0.00
14		Methyl acetate	-1.000	183.059	0.0	100	0.00
15	T	Vinyl acetate	400.000	454.031	-13.5	100	0.00
16	T	Methylene chloride	200.000	197.118	1.4	100	0.00
17	T	Acrylonitrile	200.000	179.759	10.1	100	0.00
18		Methyl tert-butyl ether	200.000	209.665	-4.8	100	0.00
19	T	trans-1,2-Dichloroethene	200.000	206.613	-3.3	100	0.00
20	pcc	1,1-Dichloroethane	200.000	201.897	-0.9	100	0.00
21	T	2,2-Dichloropropane	200.000	205.270	-2.6	100	0.00
22	T	cis-1,2-Dichloroethene	200.000	208.993	-4.5	100	0.00
23	T	2-Butanone	400.000	354.975	11.3	100	0.00
24	T	Bromochloromethane	200.000	204.933	-2.5	100	0.00
25	ccc	Chloroform	200.000	204.898	-2.4	100	0.00
26		Cyclohexane	200.000	206.633	-3.3	100	0.00
27	T	1,1,1-Trichloroethane	200.000	213.277	-6.6	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	47.773	4.5	100	0.00
30	T	1,1-Dichloropropene	200.000	210.851	-5.4	100	0.00
31	T	Carbon tetrachloride	200.000	225.723	-12.9	100	0.00
32	M	Benzene	200.000	203.103	-1.6	100	0.00
33	T	1,2-Dichloroethane	200.000	193.659	3.2	100	0.00
34	M	Trichloroethene	200.000	212.074	-6.0	100	0.00
35		Methylcyclohexane	200.000	207.794	-3.9	100	0.00
36	ccc	1,2-Dichloropropane	200.000	195.729	2.1	100	0.00
37	T	Dibromomethane	200.000	207.694	-3.8	100	0.00
38	T	Bromodichloromethane	200.000	227.260	-13.6	100	0.00
39	T	2-Chloroethyl vinyl ether	400.000	458.371	-14.6	100	0.00
40	T	cis-1,3-Dichloropropene	200.000	237.106	-18.6	100	0.00
41	T	4-Methyl-2-pentanone	400.000	409.465	-2.4	100	0.00
42	S	Toluene-d8	50.000	50.514	-1.0	100	0.00
43	Mccc	Toluene	200.000	208.745	-4.4	100	0.00
44	T	trans-1,3-Dichloropropene	200.000	245.529	-22.8#	100	0.00
45	T	1,1,2-Trichloroethane	200.000	209.712	-4.9	100	0.00
46	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
47	T	2-Hexanone	400.000	408.007	-2.0	100	0.00
48	T	Tetrachloroethene	200.000	210.726	-5.4	100	0.00
49	T	1,3-Dichloropropane	200.000	208.157	-4.1	100	0.00
50	T	Dibromochloromethane	200.000	249.034	-24.5#	100	0.00
51	T	1,2-Dibromoethane	200.000	217.027	-8.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114283.D
Acq On : 31 Jan 2022 9:51 pm
Operator : CM
Sample : ICAL 8260 200W
Misc : SAMP 8260B_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 01 11:55:02 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	Mpcc	Chlorobenzene	200.000	208.352	-4.2	100	0.00
53	T	1,1,1,2-Tetrachloroethane	200.000	234.375	-17.2	100	0.00
54	ccc	Ethylbenzene	200.000	214.444	-7.2	100	0.00
55	T	m,p-Xylene	400.000	430.152	-7.5	100	0.00
56	T	o-Xylene	200.000	213.588	-6.8	100	0.00
57	T	Styrene	200.000	225.438	-12.7	100	0.00
58	pcc	Bromoform	-1.000	221.385	0.0	100	0.00
59	S	4-Bromofluorobenzene	50.000	47.389	5.2	100	0.00
60	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
61	T	Bromobenzene	200.000	237.895	-18.9	100	0.00
62	pcc	1,1,2,2-Tetrachloroethane	200.000	236.200	-18.1	100	0.00
63	T	1,2,3-Trichloropropane	200.000	248.709	-24.4#	100	0.00
64	T	Isopropylbenzene	200.000	252.485	-26.2#	100	0.00
65	T	n-Propylbenzene	200.000	235.379	-17.7	100	0.00
66	T	trans-1,4-Dichloro-2-butene	-1.000	562.152	0.0	0	0.00
67	T	2-Chlorotoluene	200.000	227.429	-13.7	100	0.00
68	T	4-Chlorotoluene	200.000	223.037	-11.5	100	0.00
69	T	1,3,5-Trimethylbenzene	200.000	222.203	-11.1	100	0.00
70	T	tert-Butylbenzene	200.000	224.123	-12.1	100	0.00
71	T	1,2,4-Trimethylbenzene	200.000	215.427	-7.7	100	0.00
72	T	sec-Butylbenzene	200.000	217.618	-8.8	100	0.00
73	T	1,3-Dichlorobenzene	200.000	218.376	-9.2	100	0.00
74	T	4-Isopropyltoluene	200.000	217.240	-8.6	100	0.00
75	T	1,4-Dichlorobenzene	200.000	210.057	-5.0	100	0.00
76	T	1,2-Dichlorobenzene	200.000	208.033	-4.0	100	0.00
77	T	n-Butylbenzene	200.000	225.177	-12.6	100	0.00
78	T	1,2-Dibromo-3-chloropropane	-1.000	237.661	0.0	100	0.00
79	T	1,2,4-Trichlorobenzene	-1.000	296.610	0.0	100	0.00
80	T	Hexachlorobutadiene	-1.000	313.785	0.0	100	0.00
81	T	Naphthalene	-1.000	343.917	0.0	100	0.00
82	T	1,2,3-Trichlorobenzene	-1.000	349.996	0.0	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114289.D
Acq On : 1 Feb 2022 9:58 am
Operator : CM
Sample : ICAL 8260 001W
Misc : SAMP 8260B_W
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 01 11:50:12 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	1.000	0.967	3.3	100	0.00
3	pcc	Chloromethane	1.000	1.252	-25.2#	100	0.01
4	ccc	Vinyl chloride	1.000	1.038	-3.8	100	0.00
5	T	Bromomethane	1.000	1.200	-20.0	100	0.00
6	T	Chloroethane	1.000	1.056	-5.6	100	0.00
7	T	Trichlorofluoromethane	1.000	0.968	3.2	100	0.00
8	T	Acrolein	-1.000	1.312	0.0	100	0.00
9	Mccc	1,1-Dichloroethene	1.000	0.956	4.4	100	0.00
10		Freon-113	1.000	0.872	12.8	100	0.00
11	T	Acetone	-1.000	3.034	0.0	0	0.00
12	T	Iodomethane	2.000	1.874	6.3	100	0.00
13	T	Carbon disulfide	2.000	1.640	18.0	100	0.00
14		Methyl acetate	1.000	0.873	12.7	100	0.00
15	T	Vinyl acetate	2.000	1.549	22.6#	100	0.00
16	T	Methylene chloride	1.000	0.867	13.3	100	0.00
17	T	Acrylonitrile	1.000	0.986	1.4	100	0.00
18		Methyl tert-butyl ether	1.000	0.845	15.5	100	0.00
19	T	trans-1,2-Dichloroethene	1.000	0.838	16.2	100	0.00
20	pcc	1,1-Dichloroethane	1.000	0.906	9.4	100	0.00
21	T	2,2-Dichloropropane	1.000	0.948	5.2	100	0.00
22	T	cis-1,2-Dichloroethene	1.000	0.938	6.2	100	0.00
23	T	2-Butanone	2.000	1.565	21.8#	100	0.00
24	T	Bromochloromethane	1.000	0.850	15.0	100	0.00
25	ccc	Chloroform	1.000	0.949	5.1	100	0.00
26		Cyclohexane	1.000	0.858	14.2	100	0.00
27	T	1,1,1-Trichloroethane	1.000	0.921	7.9	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	49.686	0.6	100	0.00
30	T	1,1-Dichloropropene	1.000	0.981	1.9	100	0.00
31	T	Carbon tetrachloride	1.000	0.876	12.4	100	0.00
32	M	Benzene	1.000	0.915	8.5	100	0.00
33	T	1,2-Dichloroethane	1.000	0.943	5.7	100	0.00
34	M	Trichloroethene	1.000	0.960	4.0	100	0.00
35		Methylcyclohexane	1.000	0.876	12.4	100	0.00
36	ccc	1,2-Dichloropropane	1.000	1.014	-1.4	100	0.00
37	T	Dibromomethane	1.000	0.905	9.5	100	0.00
38	T	Bromodichloromethane	1.000	0.881	11.9	100	0.00
39	T	2-Chloroethyl vinyl ether	2.000	1.516	24.2#	100	-0.01
40	T	cis-1,3-Dichloropropene	1.000	0.795	20.5#	100	0.00
41	T	4-Methyl-2-pentanone	2.000	1.467	26.6#	100	0.00
42	S	Toluene-d8	50.000	48.916	2.2	100	0.00
43	Mccc	Toluene	1.000	0.939	6.1	100	0.00
44	T	trans-1,3-Dichloropropene	1.000	0.756	24.4#	100	0.00
45	T	1,1,2-Trichloroethane	1.000	0.904	9.6	100	0.00
46	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
47	T	2-Hexanone	2.000	1.474	26.3#	100	0.00
48	T	Tetrachloroethene	1.000	0.979	2.1	100	0.00
49	T	1,3-Dichloropropane	1.000	0.897	10.3	100	0.00
50	T	Dibromochloromethane	1.000	0.714	28.6#	100	0.00
51	T	1,2-Dibromoethane	1.000	0.986	1.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114289.D
Acq On : 1 Feb 2022 9:58 am
Operator : CM
Sample : ICAL 8260 001W
Misc : SAMP 8260B_W
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 01 11:50:12 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	Mpcc	Chlorobenzene	1.000	0.943	5.7	100	0.00
53	T	1,1,1,2-Tetrachloroethane	1.000	0.772	22.8#	100	0.00
54	ccc	Ethylbenzene	1.000	0.894	10.6	100	0.00
55	T	m,p-Xylene	2.000	1.701	14.9	100	0.00
56	T	o-Xylene	1.000	0.820	18.0	100	0.00
57	T	Styrene	1.000	0.767	23.3#	100	0.00
58	pcc	Bromoform	1.000	1.441	-44.1#	100	0.00
59	S	4-Bromofluorobenzene	50.000	51.114	-2.2	100	0.00
60	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
61	T	Bromobenzene	1.000	0.876	12.4	100	0.00
62	pcc	1,1,2,2-Tetrachloroethane	1.000	0.787	21.3	100	0.00
63	T	1,2,3-Trichloropropane	1.000	0.699	30.1#	100	0.00
64	T	Isopropylbenzene	1.000	0.754	24.6#	100	0.00
65	T	n-Propylbenzene	1.000	0.835	16.5	100	0.00
66	T	trans-1,4-Dichloro-2-butene	-1.000	0.000	0.0	0	-8.77#
67	T	2-Chlorotoluene	1.000	0.865	13.5	100	0.00
68	T	4-Chlorotoluene	1.000	0.808	19.2	100	0.00
69	T	1,3,5-Trimethylbenzene	1.000	0.775	22.5#	100	0.00
70	T	tert-Butylbenzene	1.000	0.775	22.5#	100	0.00
71	T	1,2,4-Trimethylbenzene	1.000	0.790	21.0#	100	0.00
72	T	sec-Butylbenzene	1.000	0.789	21.1#	100	0.00
73	T	1,3-Dichlorobenzene	1.000	0.898	10.2	100	0.00
74	T	4-Isopropyltoluene	1.000	0.799	20.1#	100	0.00
75	T	1,4-Dichlorobenzene	1.000	0.975	2.5	100	0.00
76	T	1,2-Dichlorobenzene	1.000	0.991	0.9	100	0.00
77	T	n-Butylbenzene	1.000	0.837	16.3	100	0.00
78	T	1,2-Dibromo-3-chloropropane	1.000	1.122	-12.2	100	0.00
79	T	1,2,4-Trichlorobenzene	1.000	1.241	-24.1#	100	0.00
80	T	Hexachlorobutadiene	1.000	1.383	-38.3#	100	0.00
81	T	Naphthalene	1.000	0.945	5.5	100	0.00
82	T	1,2,3-Trichlorobenzene	1.000	1.338	-33.8#	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 2

Evaluate Continuing Calibration Report

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114290.D
Acq On : 1 Feb 2022 10:23 am
Operator : CM
Sample : ICAL 8260 002W
Misc : SAMP 8260B_W
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 01 11:51:07 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	2.000	1.644	17.8	100	0.00
3	pcc	Chloromethane	2.000	1.881	5.9	100	0.00
4	ccc	Vinyl chloride	2.000	1.956	2.2	100	0.00
5	T	Bromomethane	2.000	1.868	6.6	100	0.00
6	T	Chloroethane	2.000	2.007	-0.4	100	0.00
7	T	Trichlorofluoromethane	2.000	1.767	11.7	100	0.00
8	T	Acrolein	-1.000	1.999	0.0	100	0.00
9	Mccc	1,1-Dichloroethene	2.000	1.845	7.8	100	0.00
10		Freon-113	2.000	1.899	5.0	100	0.00
11	T	Acetone	-1.000	6.087	0.0	0	0.00
12	T	Iodomethane	4.000	3.691	7.7	100	0.00
13	T	Carbon disulfide	4.000	3.261	18.5	100	0.00
14		Methyl acetate	2.000	2.112	-5.6	100	0.00
15	T	Vinyl acetate	4.000	3.245	18.9	100	0.00
16	T	Methylene chloride	2.000	2.409	-20.4#	100	0.00
17	T	Acrylonitrile	2.000	2.216	-10.8	100	0.00
18		Methyl tert-butyl ether	2.000	1.813	9.4	100	0.00
19	T	trans-1,2-Dichloroethene	2.000	1.807	9.7	100	0.00
20	pcc	1,1-Dichloroethane	2.000	1.973	1.3	100	0.00
21	T	2,2-Dichloropropane	2.000	1.912	4.4	100	0.00
22	T	cis-1,2-Dichloroethene	2.000	1.814	9.3	100	0.00
23	T	2-Butanone	4.000	4.258	-6.5	100	0.00
24	T	Bromochloromethane	2.000	2.121	-6.0	100	0.00
25	ccc	Chloroform	2.000	1.837	8.2	100	0.00
26		Cyclohexane	2.000	1.751	12.5	100	0.00
27	T	1,1,1-Trichloroethane	2.000	1.777	11.2	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	48.831	2.3	100	0.00
30	T	1,1-Dichloropropene	2.000	1.852	7.4	100	0.00
31	T	Carbon tetrachloride	2.000	1.737	13.1	100	0.00
32	M	Benzene	2.000	1.945	2.7	100	0.00
33	T	1,2-Dichloroethane	2.000	1.993	0.3	100	0.00
34	M	Trichloroethene	2.000	1.795	10.3	100	0.00
35		Methylcyclohexane	2.000	1.661	16.9	100	0.00
36	ccc	1,2-Dichloropropane	2.000	1.869	6.6	100	0.00
37	T	Dibromomethane	2.000	1.936	3.2	100	0.00
38	T	Bromodichloromethane	2.000	1.625	18.8	100	0.00
39	T	2-Chloroethyl vinyl ether	4.000	3.499	12.5	100	0.00
40	T	cis-1,3-Dichloropropene	2.000	1.629	18.6	100	0.00
41	T	4-Methyl-2-pentanone	4.000	3.601	10.0	100	0.00
42	S	Toluene-d8	50.000	49.099	1.8	100	0.00
43	Mccc	Toluene	2.000	2.020	-1.0	100	0.00
44	T	trans-1,3-Dichloropropene	2.000	1.612	19.4	100	0.00
45	T	1,1,2-Trichloroethane	2.000	2.151	-7.5	100	0.00
46	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
47	T	2-Hexanone	4.000	3.501	12.5	100	0.00
48	T	Tetrachloroethene	2.000	2.009	-0.4	100	0.00
49	T	1,3-Dichloropropane	2.000	2.017	-0.8	100	0.00
50	T	Dibromochloromethane	2.000	1.723	13.8	100	0.00
51	T	1,2-Dibromoethane	2.000	1.776	11.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114290.D
Acq On : 1 Feb 2022 10:23 am
Operator : CM
Sample : ICAL 8260 002W
Misc : SAMP 8260B_W
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 01 11:51:07 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	Mpcc	Chlorobenzene	2.000	1.986	0.7	100	0.00
53	T	1,1,1,2-Tetrachloroethane	2.000	1.599	20.1#	100	0.00
54	ccc	Ethylbenzene	2.000	1.810	9.5	100	0.00
55	T	m,p-Xylene	4.000	3.623	9.4	100	0.00
56	T	o-Xylene	2.000	1.759	12.1	100	0.00
57	T	Styrene	2.000	1.683	15.8	100	0.00
58	pcc	Bromoform	2.000	2.088	-4.4	100	0.00
59	S	4-Bromofluorobenzene	50.000	49.313	1.4	100	0.00
60	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
61	T	Bromobenzene	2.000	2.009	-0.4	100	0.00
62	pcc	1,1,2,2-Tetrachloroethane	2.000	1.792	10.4	100	0.00
63	T	1,2,3-Trichloropropane	2.000	1.846	7.7	100	0.00
64	T	Isopropylbenzene	2.000	1.721	13.9	100	0.00
65	T	n-Propylbenzene	2.000	1.873	6.3	100	0.00
66	T	trans-1,4-Dichloro-2-butene	-1.000	2.420	0.0	0	0.00
67	T	2-Chlorotoluene	2.000	1.872	6.4	100	0.00
68	T	4-Chlorotoluene	2.000	1.957	2.1	100	0.00
69	T	1,3,5-Trimethylbenzene	2.000	1.766	11.7	100	0.00
70	T	tert-Butylbenzene	2.000	1.703	14.8	100	0.00
71	T	1,2,4-Trimethylbenzene	2.000	1.830	8.5	100	0.00
72	T	sec-Butylbenzene	2.000	1.696	15.2	100	0.00
73	T	1,3-Dichlorobenzene	2.000	1.912	4.4	100	0.00
74	T	4-Isopropyltoluene	2.000	1.631	18.4	100	0.00
75	T	1,4-Dichlorobenzene	2.000	2.018	-0.9	100	0.00
76	T	1,2-Dichlorobenzene	2.000	1.862	6.9	100	0.00
77	T	n-Butylbenzene	2.000	1.552	22.4#	100	0.00
78	T	1,2-Dibromo-3-chloropropane	2.000	1.914	4.3	100	0.00
79	T	1,2,4-Trichlorobenzene	2.000	1.870	6.5	100	0.00
80	T	Hexachlorobutadiene	2.000	1.552	22.4#	100	0.00
81	T	Naphthalene	2.000	1.745	12.7	100	0.00
82	T	1,2,3-Trichlorobenzene	2.000	1.718	14.1	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114291.D
Acq On : 1 Feb 2022 11:02 am
Operator : CM
Sample : ICAL 8260 005W
Misc : SAMP 8260B_W
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 01 11:52:06 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	5.000	4.529	9.4	100	0.00
3	pcc	Chloromethane	5.000	4.753	4.9	100	0.00
4	ccc	Vinyl chloride	5.000	4.515	9.7	100	0.00
5	T	Bromomethane	5.000	4.495	10.1	100	0.00
6	T	Chloroethane	5.000	4.723	5.5	100	0.00
7	T	Trichlorofluoromethane	5.000	4.701	6.0	100	0.00
8	T	Acrolein	5.000	4.079	18.4	100	0.00
9	Mccc	1,1-Dichloroethene	5.000	4.595	8.1	100	0.00
10		Freon-113	5.000	4.532	9.4	100	0.00
11	T	Acetone	10.000	11.029	-10.3	100	0.00
12	T	Iodomethane	10.000	8.799	12.0	100	0.00
13	T	Carbon disulfide	10.000	8.600	14.0	100	0.00
14		Methyl acetate	5.000	4.574	8.5	100	0.00
15	T	Vinyl acetate	10.000	8.598	14.0	100	0.00
16	T	Methylene chloride	5.000	4.801	4.0	100	0.00
17	T	Acrylonitrile	5.000	4.371	12.6	100	0.00
18		Methyl tert-butyl ether	5.000	4.562	8.8	100	0.00
19	T	trans-1,2-Dichloroethene	5.000	4.709	5.8	100	0.00
20	pcc	1,1-Dichloroethane	5.000	4.501	10.0	100	0.00
21	T	2,2-Dichloropropane	5.000	4.584	8.3	100	0.00
22	T	cis-1,2-Dichloroethene	5.000	4.525	9.5	100	0.00
23	T	2-Butanone	10.000	9.480	5.2	100	0.00
24	T	Bromochloromethane	5.000	4.638	7.2	100	0.00
25	ccc	Chloroform	5.000	4.618	7.6	100	0.00
26		Cyclohexane	5.000	4.597	8.1	100	0.00
27	T	1,1,1-Trichloroethane	5.000	4.454	10.9	100	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
29	S	Dibromofluoromethane	50.000	49.978	0.0	100	0.00
30	T	1,1-Dichloropropene	5.000	4.148	17.0	100	0.00
31	T	Carbon tetrachloride	5.000	4.145	17.1	100	0.00
32	M	Benzene	5.000	4.719	5.6	100	0.00
33	T	1,2-Dichloroethane	5.000	4.750	5.0	100	0.00
34	M	Trichloroethene	5.000	4.746	5.1	100	0.00
35		Methylcyclohexane	5.000	4.414	11.7	100	0.00
36	ccc	1,2-Dichloropropane	5.000	4.974	0.5	100	0.00
37	T	Dibromomethane	5.000	4.562	8.8	100	0.00
38	T	Bromodichloromethane	5.000	4.438	11.2	100	0.00
39	T	2-Chloroethyl vinyl ether	10.000	9.064	9.4	100	0.00
40	T	cis-1,3-Dichloropropene	5.000	4.399	12.0	100	0.00
41	T	4-Methyl-2-pentanone	10.000	8.735	12.7	100	0.00
42	S	Toluene-d8	50.000	49.992	0.0	100	0.00
43	Mccc	Toluene	5.000	4.875	2.5	100	0.00
44	T	trans-1,3-Dichloropropene	5.000	4.210	15.8	100	0.00
45	T	1,1,2-Trichloroethane	5.000	4.729	5.4	100	0.00
46	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
47	T	2-Hexanone	10.000	8.902	11.0	100	0.00
48	T	Tetrachloroethene	5.000	4.653	6.9	100	0.00
49	T	1,3-Dichloropropane	5.000	4.613	7.7	100	0.00
50	T	Dibromochloromethane	5.000	4.071	18.6	100	0.00
51	T	1,2-Dibromoethane	5.000	4.502	10.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114291.D
Acq On : 1 Feb 2022 11:02 am
Operator : CM
Sample : ICAL 8260 005W
Misc : SAMP 8260B_W
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 01 11:52:06 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	Mpcc	Chlorobenzene	5.000	4.919	1.6	100	0.00
53	T	1,1,1,2-Tetrachloroethane	5.000	4.102	18.0	100	0.00
54	ccc	Ethylbenzene	5.000	4.646	7.1	100	0.00
55	T	m,p-Xylene	10.000	9.372	6.3	100	0.00
56	T	o-Xylene	5.000	4.498	10.0	100	0.00
57	T	Styrene	5.000	4.353	12.9	100	0.00
58	pcc	Bromoform	5.000	3.840	23.2#	100	0.00
59	S	4-Bromofluorobenzene	50.000	50.296	-0.6	100	0.00
60	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
61	T	Bromobenzene	5.000	4.875	2.5	100	0.00
62	pcc	1,1,2,2-Tetrachloroethane	5.000	4.668	6.6	100	0.00
63	T	1,2,3-Trichloropropane	5.000	4.649	7.0	100	0.00
64	T	Isopropylbenzene	5.000	4.351	13.0	100	0.00
65	T	n-Propylbenzene	5.000	4.661	6.8	100	0.00
66	T	trans-1,4-Dichloro-2-butene	10.000	8.488	15.1	100	0.00
67	T	2-Chlorotoluene	5.000	4.814	3.7	100	0.00
68	T	4-Chlorotoluene	5.000	4.895	2.1	100	0.00
69	T	1,3,5-Trimethylbenzene	5.000	4.807	3.9	100	0.00
70	T	tert-Butylbenzene	5.000	4.592	8.2	100	0.00
71	T	1,2,4-Trimethylbenzene	5.000	4.726	5.5	100	0.00
72	T	sec-Butylbenzene	5.000	4.501	10.0	100	0.00
73	T	1,3-Dichlorobenzene	5.000	4.667	6.7	100	0.00
74	T	4-Isopropyltoluene	5.000	4.454	10.9	100	0.00
75	T	1,4-Dichlorobenzene	5.000	4.599	8.0	100	0.00
76	T	1,2-Dichlorobenzene	5.000	4.646	7.1	100	0.00
77	T	n-Butylbenzene	5.000	4.112	17.8	100	0.00
78	T	1,2-Dibromo-3-chloropropane	5.000	4.291	14.2	100	0.00
79	T	1,2,4-Trichlorobenzene	5.000	4.107	17.9	100	0.00
80	T	Hexachlorobutadiene	5.000	4.424	11.5	100	0.00
81	T	Naphthalene	5.000	3.822	23.6#	100	0.00
82	T	1,2,3-Trichlorobenzene	5.000	4.347	13.1	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data Path : C:\MS-15\New\Raw Data\220201\
Data File : V1521114292.D
Acq On : 1 Feb 2022 11:41 am
Operator : CM
Sample : ICV 8260 020W
Misc : BLANK
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 01 11:58:01 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:55:52 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Pentafluorobenzene	50.000	50.000	0.0	104	0.00
2	T	Dichlorodifluoromethane	20.000	19.225	3.9	93	0.00
3	pcc	Chloromethane	20.000	19.934	0.3	106	0.00
4	ccc	Vinyl chloride	20.000	18.640	6.8	96	0.00
5	T	Bromomethane	20.000	18.566	7.2	99	0.00
6	T	Chloroethane	20.000	19.148	4.3	102	0.00
7	T	Trichlorofluoromethane	20.000	20.038	-0.2	98	0.00
8	T	Acrolein	20.000	19.459	2.7	94	0.00
9	Mccc	1,1-Dichloroethene	20.000	19.293	3.5	99	0.00
10		Freon-113	20.000	19.698	1.5	97	0.00
11	T	Acetone	40.000	35.513	11.2	83	0.00
12	T	Iodomethane	40.000	39.210	2.0	100	0.00
13	T	Carbon disulfide	40.000	39.827	0.4	101	0.00
14		Methyl acetate	20.000	19.770	1.2	91	0.00
15	T	Vinyl acetate	40.000	40.066	-0.2	96	0.00
16	T	Methylene chloride	20.000	20.514	-2.6	111	0.00
17	T	Acrylonitrile	20.000	18.358	8.2	90	0.00
18		Methyl tert-butyl ether	20.000	19.984	0.1	102	0.00
19	T	trans-1,2-Dichloroethene	20.000	20.391	-2.0	99	0.00
20	pcc	1,1-Dichloroethane	20.000	19.450	2.8	99	0.00
21	T	2,2-Dichloropropane	20.000	21.758	-8.8	114	0.00
22	T	cis-1,2-Dichloroethene	20.000	19.829	0.9	99	0.00
23	T	2-Butanone	40.000	38.826	2.9	84	0.00
24	T	Bromochloromethane	20.000	19.902	0.5	101	0.00
25	ccc	Chloroform	20.000	19.401	3.0	98	0.00
26		Cyclohexane	20.000	19.221	3.9	96	0.00
27	T	1,1,1-Trichloroethane	20.000	19.812	0.9	101	0.00
28	I	1,4-Difluorobenzene	50.000	50.000	0.0	97	0.00
29	S	Dibromofluoromethane	50.000	50.441	-0.9	100	0.00
30	T	1,1-Dichloropropene	20.000	20.360	-1.8	97	0.00
31	T	Carbon tetrachloride	20.000	20.466	-2.3	103	0.00
32	M	Benzene	20.000	20.106	-0.5	95	0.00
33	T	1,2-Dichloroethane	20.000	20.644	-3.2	98	0.00
34	M	Trichloroethene	20.000	19.330	3.4	91	0.00
35		Methylcyclohexane	20.000	20.316	-1.6	93	0.00
36	ccc	1,2-Dichloropropane	20.000	20.126	-0.6	96	0.00
37	T	Dibromomethane	20.000	20.192	-1.0	95	0.00
38	T	Bromodichloromethane	20.000	20.762	-3.8	102	0.00
39	T	2-Chloroethyl vinyl ether	40.000	41.440	-3.6	95	0.00
40	T	cis-1,3-Dichloropropene	20.000	20.644	-3.2	100	0.00
41	T	4-Methyl-2-pentanone	40.000	42.817	-7.0	93	0.00
42	S	Toluene-d8	50.000	49.916	0.2	98	0.00
43	Mccc	Toluene	20.000	19.805	1.0	96	0.00
44	T	trans-1,3-Dichloropropene	20.000	20.816	-4.1	98	0.00
45	T	1,1,2-Trichloroethane	20.000	20.325	-1.6	98	0.00
46	I	Chlorobenzene-d5	50.000	50.000	0.0	98	0.00
47	T	2-Hexanone	40.000	42.894	-7.2	89	0.00
48	T	Tetrachloroethene	20.000	19.605	2.0	96	0.00
49	T	1,3-Dichloropropane	20.000	21.011	-5.1	100	0.00
50	T	Dibromochloromethane	20.000	20.211	-1.1	100	0.00
51	T	1,2-Dibromoethane	20.000	20.209	-1.0	96	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MS-15\New\Raw Data\220201\
Data File : V1521114292.D
Acq On : 1 Feb 2022 11:41 am
Operator : CM
Sample : ICV 8260 020W
Misc : BLANK
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 01 11:58:01 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:55:52 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	Mpcc	Chlorobenzene	20.000	20.022	-0.1	96	0.00
53	T	1,1,1,2-Tetrachloroethane	20.000	20.707	-3.5	98	0.00
54	ccc	Ethylbenzene	20.000	20.298	-1.5	95	0.00
55	T	m,p-Xylene	40.000	41.347	-3.4	96	0.00
56	T	o-Xylene	20.000	21.025	-5.1	98	0.00
57	T	Styrene	20.000	21.110	-5.5	99	0.00
58	pcc	Bromoform	20.000	17.066	14.7	97	0.00
59	S	4-Bromofluorobenzene	50.000	51.382	-2.8	100	0.00
60	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
61	T	Bromobenzene	20.000	19.535	2.3	97	0.00
62	pcc	1,1,2,2-Tetrachloroethane	20.000	20.497	-2.5	96	0.00
63	T	1,2,3-Trichloropropane	20.000	21.399	-7.0	102	0.00
64	T	Isopropylbenzene	20.000	20.513	-2.6	97	0.00
65	T	n-Propylbenzene	20.000	20.298	-1.5	95	0.00
66	T	trans-1,4-Dichloro-2-butene	40.000	40.776	-1.9	109	0.00
67	T	2-Chlorotoluene	20.000	20.654	-3.3	100	0.00
68	T	4-Chlorotoluene	20.000	20.492	-2.5	97	0.00
69	T	1,3,5-Trimethylbenzene	20.000	21.067	-5.3	99	0.00
70	T	tert-Butylbenzene	20.000	20.543	-2.7	97	0.00
71	T	1,2,4-Trimethylbenzene	20.000	20.874	-4.4	97	0.00
72	T	sec-Butylbenzene	20.000	20.474	-2.4	93	0.00
73	T	1,3-Dichlorobenzene	20.000	20.566	-2.8	102	0.00
74	T	4-Isopropyltoluene	20.000	20.730	-3.7	95	0.00
75	T	1,4-Dichlorobenzene	20.000	19.744	1.3	97	0.00
76	T	1,2-Dichlorobenzene	20.000	19.655	1.7	97	0.00
77	T	n-Butylbenzene	20.000	20.423	-2.1	95	0.00
78	T	1,2-Dibromo-3-chloropropane	20.000	17.127	14.4	91	0.00
79	T	1,2,4-Trichlorobenzene	20.000	18.423	7.9	93	0.00
80	T	Hexachlorobutadiene	20.000	18.649	6.8	93	0.00
81	T	Naphthalene	20.000	18.724	6.4	87	0.00
82	T	1,2,3-Trichlorobenzene	20.000	17.372	13.1	91	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114276.D
Acq On : 31 Jan 2022 6:55 pm
Operator : CM
Sample : ICAL 8260 010W
Misc : SAMP 8260B_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 01 11:53:03 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.630	168	419676	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	5.198	114	633029	50.00	ug/L		0.00
46) Chlorobenzene-d5	7.576	117	589064	50.00	ug/L		0.00
60) 1,4-Dichlorobenzene-d4	9.652	152	310780	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	4.621	113	248158	50.36	ug/L		0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 100.72%				
42) Toluene-d8	6.367	98	789018	49.23	ug/L		0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 98.46%				
59) 4-Bromofluorobenzene	8.600	95	347361	49.60	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 99.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.556	85	52806	10.29	ug/L		96
3) Chloromethane	1.739	50	31740	10.21	ug/L		97
4) Vinyl chloride	1.848	62	34024	9.88	ug/L		91
5) Bromomethane	2.160	94	25795	9.21	ug/L		97
6) Chloroethane	2.243	64	20164	9.95	ug/L		91
7) Trichlorofluoromethane	2.474	101	71302	10.03	ug/L	#	95
8) Acrolein	2.821	56	5070	9.92	ug/L		91
9) 1,1-Dichloroethene	2.904	96	27185	9.44	ug/L		92
10) Freon-113	2.904	101	32808	10.04	µg/L		98
11) Acetone	2.943	58	3526	21.81	ug/L		92
12) Iodomethane	3.036	142	88786	19.10	ug/L		95
13) Carbon disulfide	3.093	76	167757	18.79	ug/L		100
14) Methyl acetate	3.206	43	18811	10.55	µg/L		94
15) Vinyl acetate	3.851	43	102650	19.00	ug/L		98
16) Methylene chloride	3.289	84	35445	9.28	ug/L		91
17) Acrylonitrile	3.479	53	11044	10.54	ug/L		82
18) Methyl tert-butyl ether	3.498	73	96161	9.86	µg/L		97
19) trans-1,2-Dichloroethene	3.501	96	29012	9.54	ug/L		92
20) 1,1-Dichloroethane	3.831	63	70181	9.90	ug/L		98
21) 2,2-Dichloropropane	4.271	77	46489	9.00	ug/L		94
22) cis-1,2-Dichloroethene	4.265	96	30820	9.43	ug/L		95
23) 2-Butanone	4.274	72	4638	23.66	ug/L		68
24) Bromochloromethane	4.451	128	13769	9.71	ug/L		95
25) Chloroform	4.496	83	70443	9.75	ug/L		98
26) Cyclohexane	4.698	56	58370	10.24	µg/L		96
27) 1,1,1-Trichloroethane	4.653	97	61461	9.41	ug/L	#	72
30) 1,1-Dichloropropene	4.772	110	13490	9.52	ug/L		99
31) Carbon tetrachloride	4.778	119	43803	8.89	ug/L		99
32) Benzene	4.932	78	123509	9.90	ug/L		99
33) 1,2-Dichloroethane	4.945	62	63553	10.26	ug/L		95
34) Trichloroethene	5.413	130	26687	9.29	ug/L		91
35) Methylcyclohexane	5.567	55	44496	9.72	µg/L		96
36) 1,2-Dichloropropane	5.596	63	33611	9.84	ug/L		96
37) Dibromomethane	5.689	93	19935	9.95	ug/L		97
38) Bromodichloromethane	5.799	83	40802	8.91	ug/L		93
39) 2-Chloroethyl vinyl ether	6.010	63	30993	18.93	µg/L		91
40) cis-1,3-Dichloropropene	6.148	75	45768	9.29	ug/L		95
41) 4-Methyl-2-pentanone	6.257	43	42122	20.74	ug/L		94
43) Toluene	6.424	92	73432	9.49	ug/L		100
44) trans-1,3-Dichloropropene	6.588	75	37804	8.55	ug/L		90
45) 1,1,2-Trichloroethane	6.739	83	20533	9.64	ug/L		86
47) 2-Hexanone	6.934	43	24519	21.05	ug/L		96

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114276.D
Acq On : 31 Jan 2022 6:55 pm
Operator : CM
Sample : ICAL 8260 010W
Misc : SAMP 8260B_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 01 11:53:03 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

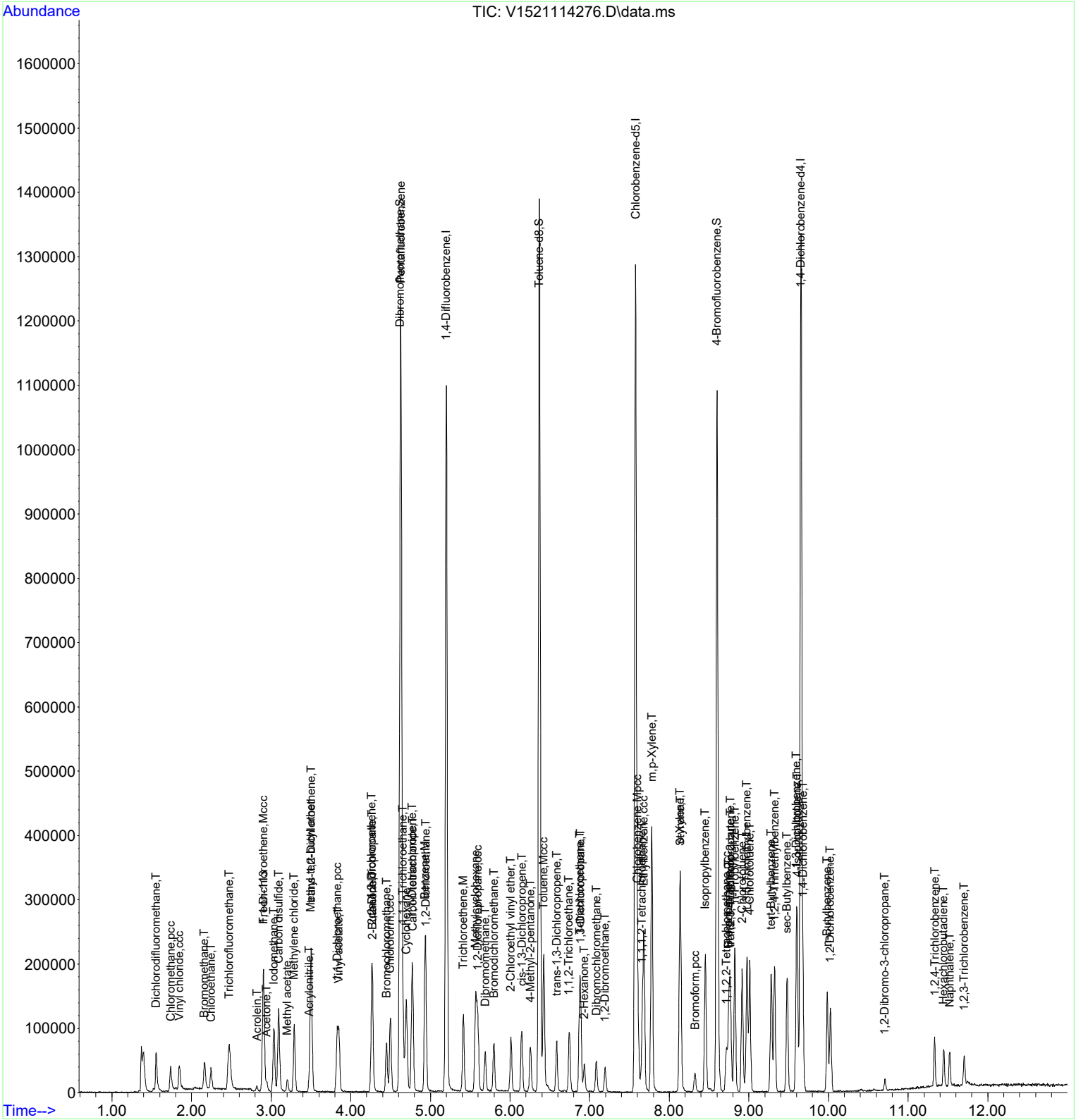
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
48) Tetrachloroethene	6.877	166	32229	9.64 ug/L		98
49) 1,3-Dichloropropane	6.886	76	46071	10.31 ug/L		99
50) Dibromochloromethane	7.085	129	22351	9.00 ug/L		96
51) 1,2-Dibromoethane	7.194	107	22844	9.72 ug/L		96
52) Chlorobenzene	7.602	112	75314	9.50 ug/L		99
53) 1,1,1,2-Tetrachloroethane	7.660	131	25126	9.40 ug/L		96
54) Ethylbenzene	7.679	91	139896	9.46 ug/L		95
55) m,p-Xylene	7.782	91	230788	19.52 ug/L		99
56) o-Xylene	8.131	91	116863	9.68 ug/L		97
57) Styrene	8.141	104	77742	9.56 ug/L		100
58) Bromoform	8.327	173	13568	8.26 ug/L		98
61) Bromobenzene	8.748	156	31177	9.51 ug/L		92
62) 1,1,2,2-Tetrachloroethane	8.715	83	30003	10.37 ug/L		98
63) 1,2,3-Trichloropropane	8.767	75	49331	9.93 ug/L		100
64) Isopropylbenzene	8.452	105	125512	9.69 ug/L		94
65) n-Propylbenzene	8.825	91	165388	9.90 ug/L		100
66) trans-1,4-Dichloro-2-b...	8.770	124	2422	16.54 ug/L		63
67) 2-Chlorotoluene	8.914	91	98210	9.76 ug/L		93
68) 4-Chlorotoluene	9.011	91	121032	10.09 ug/L		99
69) 1,3,5-Trimethylbenzene	8.975	105	100640	9.77 ug/L		99
70) tert-Butylbenzene	9.280	119	91072	9.89 ug/L		93
71) 1,2,4-Trimethylbenzene	9.322	105	102474	9.80 ug/L		100
72) sec-Butylbenzene	9.479	105	109029	9.67 ug/L		92
73) 1,3-Dichlorobenzene	9.598	146	51735	9.71 ug/L		97
74) 4-Isopropyltoluene	9.608	119	90463	9.60 ug/L		97
75) 1,4-Dichlorobenzene	9.678	146	53725	9.76 ug/L		96
76) 1,2-Dichlorobenzene	10.021	146	45839	9.74 ug/L		90
77) n-Butylbenzene	9.983	91	77103	9.09 ug/L		95
78) 1,2-Dibromo-3-chloropr...	10.708	75	4073	9.34 ug/L	#	74
79) 1,2,4-Trichlorobenzene	11.334	180	16055	8.64 ug/L		90
80) Hexachlorobutadiene	11.446	225	8775	9.11 ug/L		94
81) Naphthalene	11.523	128	30426	9.14 ug/L		100
82) 1,2,3-Trichlorobenzene	11.706	180	11462	8.88 ug/L		89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114276.D
Acq On : 31 Jan 2022 6:55 pm
Operator : CM
Sample : ICAL 8260 010W
Misc : SAMP 8260B_W
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 01 11:53:03 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114277.D
Acq On : 31 Jan 2022 7:20 pm
Operator : CM
Sample : ICAL 8260 020W
Misc : SAMP 8260B_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 01 11:53:29 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.630	168	413586	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	5.202	114	634327	50.00	ug/L		0.00
46) Chlorobenzene-d5	7.576	117	596637	50.00	ug/L		0.00
60) 1,4-Dichlorobenzene-d4	9.652	152	321539	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	4.618	113	242002	49.01	ug/L		0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 98.02%				
42) Toluene-d8	6.366	98	794975	49.50	ug/L		0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 99.00%				
59) 4-Bromofluorobenzene	8.603	95	359036	50.62	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 101.24%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.556	85	108049	21.37	ug/L		91
3) Chloromethane	1.739	50	59675	19.49	ug/L		99
4) Vinyl chloride	1.845	62	68639	20.22	ug/L		98
5) Bromomethane	2.163	94	53765	19.49	ug/L		100
6) Chloroethane	2.243	64	38692	19.38	ug/L		100
7) Trichlorofluoromethane	2.468	101	149141	21.28	ug/L		99
8) Acrolein	2.821	56	10810	21.46	ug/L		87
9) 1,1-Dichloroethene	2.901	96	57308	20.19	ug/L		89
10) Freon-113	2.904	101	67618	20.99	µg/L		98
11) Acetone	2.939	58	7095	44.54	ug/L		86
12) Iodomethane	3.032	142	185366	40.46	ug/L		100
13) Carbon disulfide	3.093	76	358977	40.79	ug/L		100
14) Methyl acetate	3.202	43	39492	22.47	µg/L	#	86
15) Vinyl acetate	3.851	43	229459	43.10	ug/L		98
16) Methylene chloride	3.289	84	67329	19.03	ug/L		93
17) Acrylonitrile	3.485	53	21777	21.09	ug/L		93
18) Methyl tert-butyl ether	3.501	73	196103	20.40	µg/L		99
19) trans-1,2-Dichloroethene	3.501	96	63922	21.32	ug/L		94
20) 1,1-Dichloroethane	3.831	63	142892	20.45	ug/L		98
21) 2,2-Dichloropropane	4.271	77	100925	19.83	ug/L		95
22) cis-1,2-Dichloroethene	4.268	96	66869	20.75	ug/L		96
23) 2-Butanone	4.268	72	9282	48.06	ug/L		93
24) Bromochloromethane	4.448	128	28400	20.33	ug/L		94
25) Chloroform	4.499	83	145687	20.47	ug/L		97
26) Cyclohexane	4.695	56	116685	20.77	µg/L		97
27) 1,1,1-Trichloroethane	4.650	97	131220	20.39	ug/L		85
30) 1,1-Dichloropropene	4.768	110	28957	20.40	ug/L		95
31) Carbon tetrachloride	4.778	119	95664	19.37	ug/L		90
32) Benzene	4.929	78	256500	20.52	ug/L		98
33) 1,2-Dichloroethane	4.942	62	126598	20.39	ug/L		98
34) Trichloroethene	5.410	130	59183	20.56	ug/L		92
35) Methylcyclohexane	5.567	55	96961	21.14	µg/L		97
36) 1,2-Dichloropropane	5.593	63	69598	20.33	ug/L		99
37) Dibromomethane	5.686	93	41369	20.60	ug/L		99
38) Bromodichloromethane	5.795	83	91139	19.87	ug/L		95
39) 2-Chloroethyl vinyl ether	6.010	63	69766	42.53	µg/L		100
40) cis-1,3-Dichloropropene	6.145	75	98549	19.97	ug/L		96
41) 4-Methyl-2-pentanone	6.254	43	90752	44.59	ug/L		99
43) Toluene	6.424	92	154733	19.96	ug/L		99
44) trans-1,3-Dichloropropene	6.585	75	91089	20.57	ug/L		97
45) 1,1,2-Trichloroethane	6.745	83	42891	20.10	ug/L		93
47) 2-Hexanone	6.934	43	56004	47.46	ug/L		93

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114277.D
Acq On : 31 Jan 2022 7:20 pm
Operator : CM
Sample : ICAL 8260 020W
Misc : SAMP 8260B_W
ALS Vial : 9 Sample Multiplier: 1

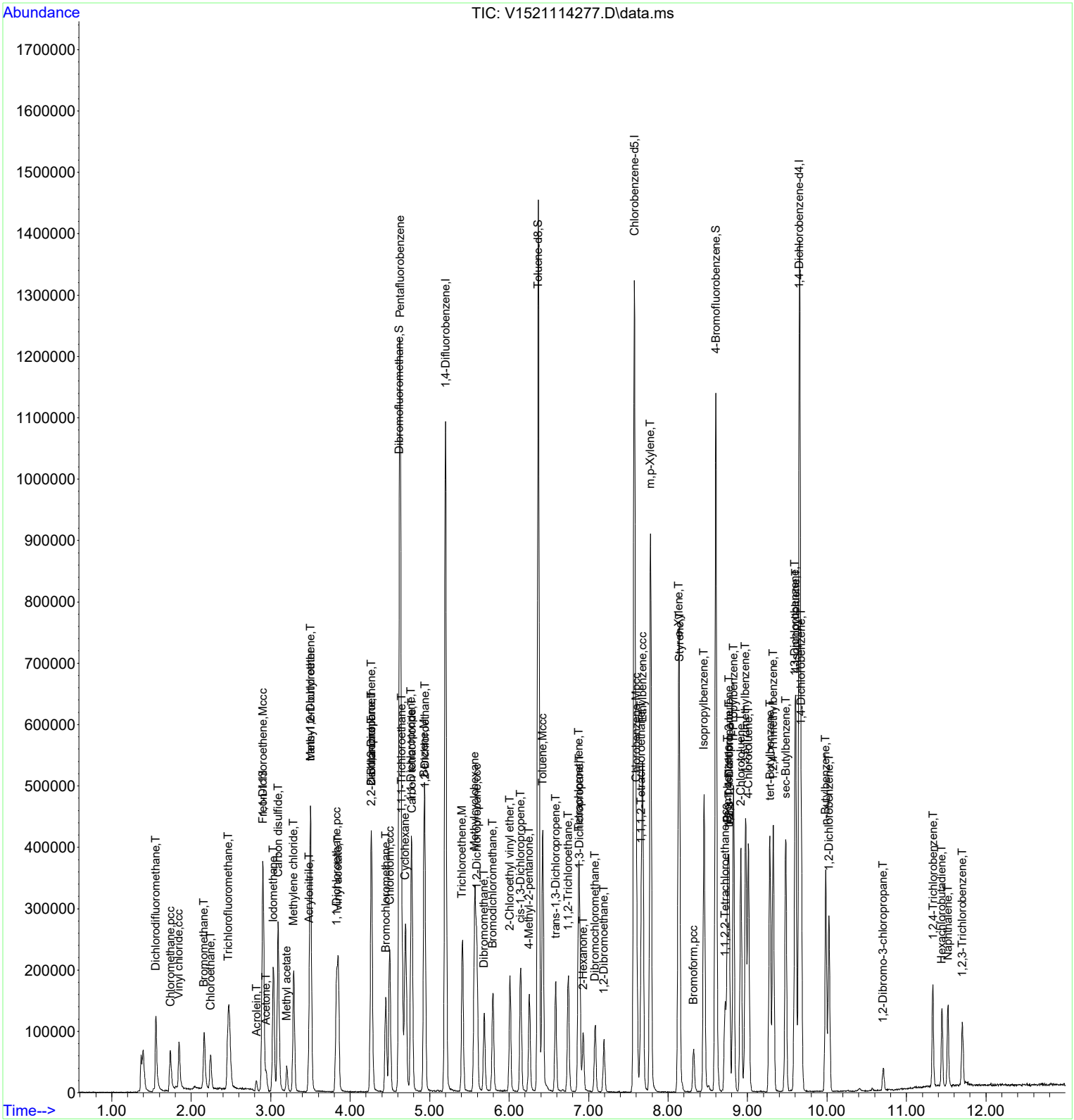
Quant Time: Feb 01 11:53:29 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) Tetrachloroethene	6.873	166	67969	20.07	ug/L	99
49) 1,3-Dichloropropane	6.890	76	93683	20.71	ug/L	97
50) Dibromochloromethane	7.082	129	49743	19.77	ug/L	100
51) 1,2-Dibromoethane	7.194	107	49243	20.69	ug/L	98
52) Chlorobenzene	7.602	112	163790	20.40	ug/L	97
53) 1,1,1,2-Tetrachloroethane	7.663	131	56357	20.82	ug/L	96
54) Ethylbenzene	7.682	91	315622	21.07	ug/L	98
55) m,p-Xylene	7.778	91	509655	42.55	ug/L	99
56) o-Xylene	8.131	91	256850	21.01	ug/L	98
57) Styrene	8.144	104	172250	20.91	ug/L	92
58) Bromoform	8.321	173	30317	17.24	ug/L	96
61) Bromobenzene	8.751	156	67933	20.03	ug/L	96
62) 1,1,2,2-Tetrachloroethane	8.719	83	63656	21.27	ug/L	98
63) 1,2,3-Trichloropropane	8.770	75	107229	20.87	ug/L	95
64) Isopropylbenzene	8.452	105	283729	21.18	ug/L	98
65) n-Propylbenzene	8.824	91	368406	21.31	ug/L	98
66) trans-1,4-Dichloro-2-b...	8.770	124	5657	37.34	ug/L	85
67) 2-Chlorotoluene	8.914	91	214330	20.59	ug/L	97
68) 4-Chlorotoluene	9.011	91	262607	21.15	ug/L	99
69) 1,3,5-Trimethylbenzene	8.975	105	226737	21.28	ug/L	98
70) tert-Butylbenzene	9.283	119	202173	21.21	ug/L	99
71) 1,2,4-Trimethylbenzene	9.322	105	231686	21.42	ug/L	99
72) sec-Butylbenzene	9.482	105	256030	21.94	ug/L	99
73) 1,3-Dichlorobenzene	9.598	146	110878	20.12	ug/L	94
74) 4-Isopropyltoluene	9.607	119	213011	21.86	ug/L	98
75) 1,4-Dichlorobenzene	9.675	146	115904	20.36	ug/L	98
76) 1,2-Dichlorobenzene	10.025	146	98737	20.27	ug/L	94
77) n-Butylbenzene	9.983	91	188219	21.44	ug/L	99
78) 1,2-Dibromo-3-chloropr...	10.708	75	8442	18.72	ug/L	81
79) 1,2,4-Trichlorobenzene	11.334	180	38192	19.86	ug/L	95
80) Hexachlorobutadiene	11.446	225	19687	19.95	ug/L	95
81) Naphthalene	11.523	128	73696	21.41	ug/L	100
82) 1,2,3-Trichlorobenzene	11.703	180	25330	18.96	ug/L	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114277.D
Acq On : 31 Jan 2022 7:20 pm
Operator : CM
Sample : ICAL 8260 020W
Misc : SAMP 8260B_W
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 01 11:53:29 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114278.D
Acq On : 31 Jan 2022 7:45 pm
Operator : CM
Sample : ICAL 8260 050W
Misc : SAMP 8260B_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 01 11:53:57 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.630	168	390261	50.00	ug/L	0.00
28) 1,4-Difluorobenzene	5.198	114	588862	50.00	ug/L	0.00
46) Chlorobenzene-d5	7.576	117	564916	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	9.652	152	323050	50.00	ug/L	0.00
System Monitoring Compounds						
29) Dibromofluoromethane	4.618	113	239124	52.16	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 104.32%			
42) Toluene-d8	6.367	98	751407	50.40	ug/L	0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 100.80%			
59) 4-Bromofluorobenzene	8.600	95	341074	50.78	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 101.56%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.556	85	261176	54.74	ug/L	100
3) Chloromethane	1.739	50	149813	51.84	ug/L	100
4) Vinyl chloride	1.852	62	168301	52.54	ug/L	100
5) Bromomethane	2.169	94	140696	54.05	ug/L	100
6) Chloroethane	2.246	64	101700	53.99	ug/L	100
7) Trichlorofluoromethane	2.471	101	359752	54.40	ug/L	100
8) Acrolein	2.824	56	25729	54.13	ug/L	100
9) 1,1-Dichloroethene	2.904	96	147167	54.96	ug/L	100
10) Freon-113	2.904	101	168488	55.44	µg/L	100
11) Acetone	2.949	58	14964	99.55	ug/L	97
12) Iodomethane	3.036	142	478929	110.78	ug/L	100
13) Carbon disulfide	3.093	76	952797	114.74	ug/L	100
14) Methyl acetate	3.206	43	85495	51.55	µg/L	99
15) Vinyl acetate	3.851	43	572665	113.98	ug/L	100
16) Methylene chloride	3.289	84	173187	53.99	ug/L	100
17) Acrylonitrile	3.485	53	51726	53.10	ug/L	100
18) Methyl tert-butyl ether	3.498	73	518713	57.18	µg/L	100
19) trans-1,2-Dichloroethene	3.504	96	159580	56.41	ug/L	100
20) 1,1-Dichloroethane	3.828	63	365256	55.39	ug/L	100
21) 2,2-Dichloropropane	4.271	77	266389	55.46	ug/L	100
22) cis-1,2-Dichloroethene	4.265	96	166072	54.62	ug/L	100
23) 2-Butanone	4.268	72	18863	103.50	ug/L	99
24) Bromochloromethane	4.451	128	72068	54.66	ug/L	100
25) Chloroform	4.499	83	367669	54.75	ug/L	100
26) Cyclohexane	4.698	56	297252	56.06	µg/L	100
27) 1,1,1-Trichloroethane	4.653	97	340995	56.15	ug/L	100
30) 1,1-Dichloropropene	4.772	110	72925	55.35	ug/L	100
31) Carbon tetrachloride	4.778	119	261200	56.98	ug/L	100
32) Benzene	4.932	78	621082	53.52	ug/L	100
33) 1,2-Dichloroethane	4.942	62	310326	53.85	ug/L	100
34) Trichloroethene	5.413	130	145002	54.27	ug/L	100
35) Methylcyclohexane	5.567	55	243881	57.28	µg/L	100
36) 1,2-Dichloropropane	5.593	63	169695	53.39	ug/L	99
37) Dibromomethane	5.686	93	100681	54.00	ug/L	100
38) Bromodichloromethane	5.795	83	241391	56.69	ug/L	100
39) 2-Chloroethyl vinyl ether	6.014	63	166363	109.24	µg/L	100
40) cis-1,3-Dichloropropene	6.148	75	254056	55.45	ug/L	100
41) 4-Methyl-2-pentanone	6.254	43	216364	114.51	ug/L	100
43) Toluene	6.424	92	370488	51.49	ug/L	100
44) trans-1,3-Dichloropropene	6.585	75	232250	56.49	ug/L	100
45) 1,1,2-Trichloroethane	6.742	83	101006	51.00	ug/L	100
47) 2-Hexanone	6.931	43	123470	110.52	ug/L	100

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114278.D
Acq On : 31 Jan 2022 7:45 pm
Operator : CM
Sample : ICAL 8260 050W
Misc : SAMP 8260B_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 01 11:53:57 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

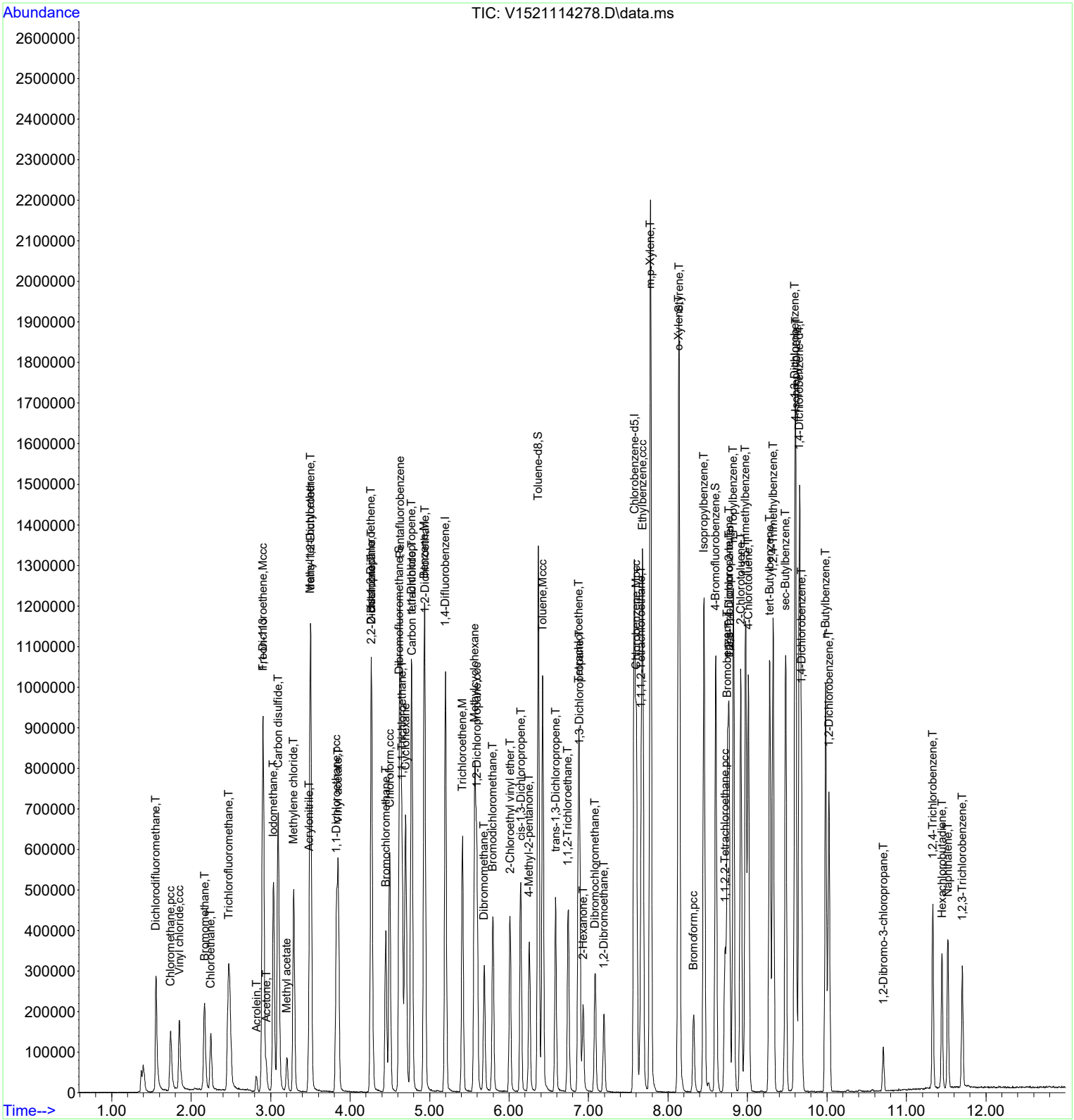
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) Tetrachloroethene	6.877	166	164342	51.26	ug/L	100
49) 1,3-Dichloropropane	6.886	76	223694	52.22	ug/L	100
50) Dibromochloromethane	7.082	129	134761	56.58	ug/L	100
51) 1,2-Dibromoethane	7.194	107	119935	53.22	ug/L	100
52) Chlorobenzene	7.602	112	394920	51.95	ug/L	100
53) 1,1,1,2-Tetrachloroethane	7.663	131	147892	57.71	ug/L	100
54) Ethylbenzene	7.682	91	772444	54.47	ug/L	100
55) m,p-Xylene	7.778	91	1234059	108.82	ug/L	100
56) o-Xylene	8.131	91	659284	56.96	ug/L	100
57) Styrene	8.141	104	449767	57.66	ug/L	100
58) Bromoform	8.321	173	87391	50.80	ug/L	100
61) Bromobenzene	8.748	156	173084	50.81	ug/L	100
62) 1,1,2,2-Tetrachloroethane	8.719	83	161175	53.61	ug/L	100
63) 1,2,3-Trichloropropane	8.767	75	279505	54.14	ug/L	100
64) Isopropylbenzene	8.452	105	741433	55.09	ug/L	100
65) n-Propylbenzene	8.821	91	915984	52.72	ug/L	100
66) trans-1,4-Dichloro-2-b...	8.767	124	16451	108.09	ug/L	100
67) 2-Chlorotoluene	8.914	91	557592	53.32	ug/L	100
68) 4-Chlorotoluene	9.011	91	659354	52.87	ug/L	100
69) 1,3,5-Trimethylbenzene	8.975	105	597864	55.86	ug/L	100
70) tert-Butylbenzene	9.277	119	542737	56.67	ug/L	100
71) 1,2,4-Trimethylbenzene	9.322	105	607004	55.86	ug/L	100
72) sec-Butylbenzene	9.479	105	665257	56.74	ug/L	100
73) 1,3-Dichlorobenzene	9.598	146	298634	53.93	ug/L	100
74) 4-Isopropyltoluene	9.607	119	565101	57.72	ug/L	100
75) 1,4-Dichlorobenzene	9.678	146	297277	51.97	ug/L	100
76) 1,2-Dichlorobenzene	10.025	146	262129	53.56	ug/L	100
77) n-Butylbenzene	9.983	91	513614	58.23	ug/L	100
78) 1,2-Dibromo-3-chloropr...	10.711	75	24515	54.11	ug/L	100
79) 1,2,4-Trichlorobenzene	11.331	180	105940	54.83	ug/L	100
80) Hexachlorobutadiene	11.449	225	52422	53.16	ug/L	100
81) Naphthalene	11.523	128	211850	61.25	ug/L	100
82) 1,2,3-Trichlorobenzene	11.703	180	73114	54.48	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114278.D
Acq On : 31 Jan 2022 7:45 pm
Operator : CM
Sample : ICAL 8260 050W
Misc : SAMP 8260B_W
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 01 11:53:57 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114279.D
Acq On : 31 Jan 2022 8:10 pm
Operator : CM
Sample : ICAL 8260 100W
Misc : SAMP 8260B_W
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 01 11:54:14 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.630	168	401683	50.00	ug/L	0.00
28) 1,4-Difluorobenzene	5.202	114	601027	50.00	ug/L	0.00
46) Chlorobenzene-d5	7.576	117	567388	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	9.656	152	312904	50.00	ug/L	0.00
System Monitoring Compounds						
29) Dibromofluoromethane	4.621	113	248140	53.03	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 106.06%			
42) Toluene-d8	6.370	98	771734	50.71	ug/L	0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 101.42%			
59) 4-Bromofluorobenzene	8.603	95	338582	50.19	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 100.38%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.556	85	543907	110.76	ug/L	97
3) Chloromethane	1.739	50	297125	99.89	ug/L	97
4) Vinyl chloride	1.851	62	358475	108.72	ug/L	98
5) Bromomethane	2.166	94	285075	106.40	ug/L	95
6) Chloroethane	2.246	64	203218	104.82	ug/L	95
7) Trichlorofluoromethane	2.474	101	726420	106.71	ug/L	100
8) Acrolein	2.817	56	50576	103.37	ug/L	100
9) 1,1-Dichloroethene	2.904	96	305739	110.93	ug/L	94
10) Freon-113	2.901	101	345735	110.52	µg/L	99
11) Acetone	2.946	58	25803	166.77	ug/L	73
12) Iodomethane	3.036	142	989711	222.43	ug/L	100
13) Carbon disulfide	3.093	76	2040601	238.74	ug/L	100
14) Methyl acetate	3.202	43	167122	97.91	µg/L	98
15) Vinyl acetate	3.851	43	1160615	224.44	ug/L	98
16) Methylene chloride	3.289	84	346085	105.97	ug/L	97
17) Acrylonitrile	3.485	53	98183	97.92	ug/L	98
18) Methyl tert-butyl ether	3.498	73	1030235	110.34	µg/L	99
19) trans-1,2-Dichloroethene	3.504	96	322024	110.60	ug/L	99
20) 1,1-Dichloroethane	3.831	63	731749	107.80	ug/L	99
21) 2,2-Dichloropropane	4.271	77	554829	112.24	ug/L	97
22) cis-1,2-Dichloroethene	4.265	96	343644	109.81	ug/L	92
23) 2-Butanone	4.268	72	34789	185.46	ug/L	95
24) Bromochloromethane	4.447	128	143953	106.09	ug/L	96
25) Chloroform	4.499	83	752477	108.87	ug/L	99
26) Cyclohexane	4.698	56	601261	110.18	µg/L	96
27) 1,1,1-Trichloroethane	4.650	97	688343	110.12	ug/L	98
30) 1,1-Dichloropropene	4.772	110	147565	109.72	ug/L	99
31) Carbon tetrachloride	4.775	119	555312	118.69	ug/L	97
32) Benzene	4.932	78	1260324	106.40	ug/L	98
33) 1,2-Dichloroethane	4.942	62	607325	103.25	ug/L	98
34) Trichloroethene	5.413	130	287708	105.51	ug/L	95
35) Methylcyclohexane	5.567	55	497581	114.49	µg/L	94
36) 1,2-Dichloropropane	5.593	63	331296	102.12	ug/L	98
37) Dibromomethane	5.689	93	198111	104.10	ug/L	93
38) Bromodichloromethane	5.798	83	496615	114.27	ug/L	99
39) 2-Chloroethyl vinyl ether	6.010	63	326211	209.86	µg/L	98
40) cis-1,3-Dichloropropene	6.148	75	526641	112.61	ug/L	100
41) 4-Methyl-2-pentanone	6.254	43	414051	214.70	ug/L	99
43) Toluene	6.424	92	749851	102.10	ug/L	96
44) trans-1,3-Dichloropropene	6.585	75	480548	114.51	ug/L	98
45) 1,1,2-Trichloroethane	6.745	83	201791	99.82	ug/L	99
47) 2-Hexanone	6.931	43	233532	208.13	ug/L	99

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114279.D
Acq On : 31 Jan 2022 8:10 pm
Operator : CM
Sample : ICAL 8260 100W
Misc : SAMP 8260B_W
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 01 11:54:14 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

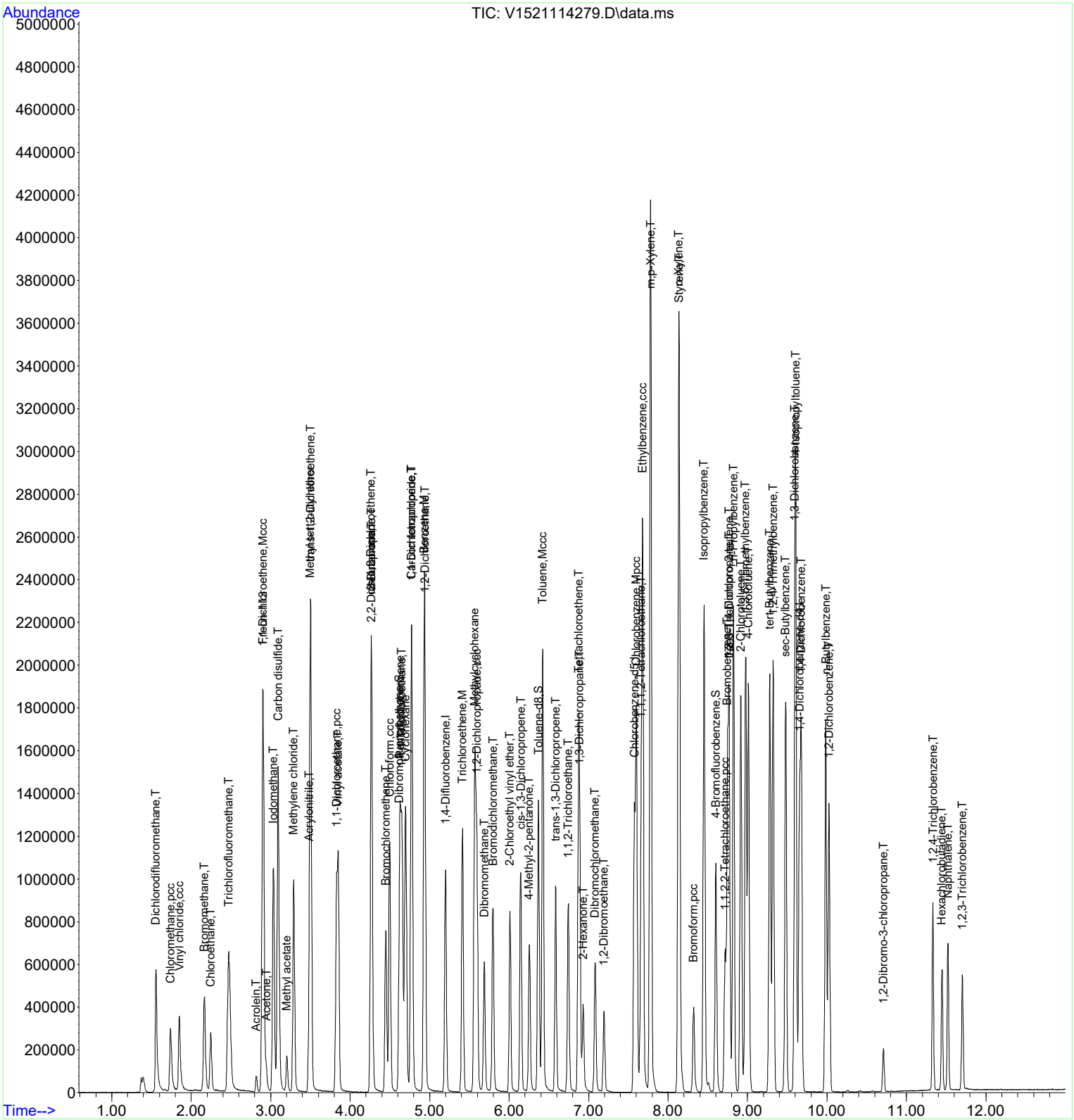
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) Tetrachloroethene	6.877	166	338107	105.00 ug/L	96
49) 1,3-Dichloropropane	6.889	76	440365	102.35 ug/L	98
50) Dibromochloromethane	7.082	129	281877	117.83 ug/L	98
51) 1,2-Dibromoethane	7.194	107	233947	103.37 ug/L	100
52) Chlorobenzene	7.602	112	783288	102.60 ug/L	99
53) 1,1,1,2-Tetrachloroethane	7.663	131	300404	116.71 ug/L	96
54) Ethylbenzene	7.679	91	1516950	106.51 ug/L	100
55) m,p-Xylene	7.782	91	2392522	210.05 ug/L	100
56) o-Xylene	8.134	91	1271873	109.40 ug/L	97
57) Styrene	8.141	104	870279	111.09 ug/L	100
58) Bromoform	8.321	173	181759	104.33 ug/L	98
61) Bromobenzene	8.747	156	337343	102.23 ug/L	92
62) 1,1,2,2-Tetrachloroethane	8.715	83	307574	105.62 ug/L	99
63) 1,2,3-Trichloropropane	8.770	75	547783	109.55 ug/L	94
64) Isopropylbenzene	8.452	105	1407192	107.96 ug/L	99
65) n-Propylbenzene	8.824	91	1705177	101.33 ug/L	99
66) trans-1,4-Dichloro-2-b...	8.770	124	34092	231.27 ug/L	92
67) 2-Chlorotoluene	8.917	91	1048024	103.47 ug/L	99
68) 4-Chlorotoluene	9.011	91	1219642	100.96 ug/L	99
69) 1,3,5-Trimethylbenzene	8.975	105	1065931	102.82 ug/L	100
70) tert-Butylbenzene	9.280	119	964425	103.97 ug/L	98
71) 1,2,4-Trimethylbenzene	9.322	105	1078771	102.50 ug/L	100
72) sec-Butylbenzene	9.479	105	1179634	103.87 ug/L	97
73) 1,3-Dichlorobenzene	9.595	146	554900	103.45 ug/L	96
74) 4-Isopropyltoluene	9.607	119	978860	103.22 ug/L	99
75) 1,4-Dichlorobenzene	9.675	146	557869	100.68 ug/L	99
76) 1,2-Dichlorobenzene	10.025	146	476898	100.59 ug/L	98
77) n-Butylbenzene	9.986	91	922510	107.99 ug/L	98
78) 1,2-Dibromo-3-chloropr...	10.711	75	48724	111.03 ug/L	95
79) 1,2,4-Trichlorobenzene	11.334	180	196370	104.93 ug/L	99
80) Hexachlorobutadiene	11.446	225	93870	98.42 ug/L	98
81) Naphthalene	11.523	128	404904	120.86 ug/L	100
82) 1,2,3-Trichlorobenzene	11.703	180	131021	100.80 ug/L	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114279.D
Acq On : 31 Jan 2022 8:10 pm
Operator : CM
Sample : ICAL 8260 100W
Misc : SAMP 8260B_W
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 01 11:54:14 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114281.D
Acq On : 31 Jan 2022 9:00 pm
Operator : CM
Sample : ICAL 8260 150W
Misc : SAMP 8260B_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 01 11:54:37 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.627	168	446782	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	5.202	114	688063	50.00	ug/L		0.00
46) Chlorobenzene-d5	7.576	117	696171	50.00	ug/L		0.00
60) 1,4-Dichlorobenzene-d4	9.656	152	410178	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	4.618	113	263414	49.18	ug/L		0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 98.36%				
42) Toluene-d8	6.370	98	899716	51.64	ug/L		0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 103.28%				
59) 4-Bromofluorobenzene	8.600	95	419604	50.70	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 101.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.553	85	822810	150.64	ug/L		97
3) Chloromethane	1.736	50	460051	139.05	ug/L		96
4) Vinyl chloride	1.848	62	529773	144.46	ug/L		99
5) Bromomethane	2.163	94	431884	144.92	ug/L		96
6) Chloroethane	2.243	64	308728	143.16	ug/L		97
7) Trichlorofluoromethane	2.474	101	1141157	150.72	ug/L	#	98
8) Acrolein	2.817	56	85903	157.85	ug/L		97
9) 1,1-Dichloroethene	2.901	96	462418	150.84	ug/L		99
10) Freon-113	2.904	101	523553	150.47	µg/L		98
11) Acetone	2.946	58	44594	259.13	ug/L		84
12) Iodomethane	3.033	142	1514340	305.98	ug/L		98
13) Carbon disulfide	3.093	76	3125116	328.72	ug/L		100
14) Methyl acetate	3.203	43	275639	145.18	µg/L		99
15) Vinyl acetate	3.848	43	1949872	339.01	ug/L		99
16) Methylene chloride	3.289	84	523442	144.54	ug/L		99
17) Acrylonitrile	3.482	53	164381	147.39	ug/L		98
18) Methyl tert-butyl ether	3.498	73	1611268	155.15	µg/L		97
19) trans-1,2-Dichloroethene	3.501	96	500252	154.47	ug/L		93
20) 1,1-Dichloroethane	3.828	63	1132783	150.04	ug/L		99
21) 2,2-Dichloropropane	4.268	77	849113	154.43	ug/L		98
22) cis-1,2-Dichloroethene	4.265	96	540116	155.16	ug/L		98
23) 2-Butanone	4.261	72	60738	291.10	ug/L		93
24) Bromochloromethane	4.448	128	225300	149.27	ug/L		95
25) Chloroform	4.496	83	1155009	150.23	ug/L		96
26) Cyclohexane	4.698	56	936840	154.34	µg/L		95
27) 1,1,1-Trichloroethane	4.650	97	1093337	157.26	ug/L		98
30) 1,1-Dichloropropene	4.769	110	238413	154.85	ug/L		98
31) Carbon tetrachloride	4.778	119	895250	167.14	ug/L		99
32) Benzene	4.932	78	2038815	150.35	ug/L		100
33) 1,2-Dichloroethane	4.942	62	997480	148.13	ug/L		99
34) Trichloroethene	5.414	130	484794	155.29	ug/L		95
35) Methylcyclohexane	5.568	55	785472	157.87	µg/L		95
36) 1,2-Dichloropropane	5.593	63	550916	148.33	ug/L		99
37) Dibromomethane	5.686	93	337009	154.68	ug/L		94
38) Bromodichloromethane	5.795	83	836704	168.17	ug/L		95
39) 2-Chloroethyl vinyl ether	6.010	63	621173	349.07	µg/L		98
40) cis-1,3-Dichloropropene	6.145	75	933698	174.40	ug/L		100
41) 4-Methyl-2-pentanone	6.254	43	727692	329.61	ug/L		99
43) Toluene	6.424	92	1304492	155.15	ug/L		95
44) trans-1,3-Dichloropropene	6.585	75	871529	181.41	ug/L		97
45) 1,1,2-Trichloroethane	6.745	83	360552	155.79	ug/L		100
47) 2-Hexanone	6.931	43	451368	327.85	ug/L		96

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114281.D
Acq On : 31 Jan 2022 9:00 pm
Operator : CM
Sample : ICAL 8260 150W
Misc : SAMP 8260B_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 01 11:54:37 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

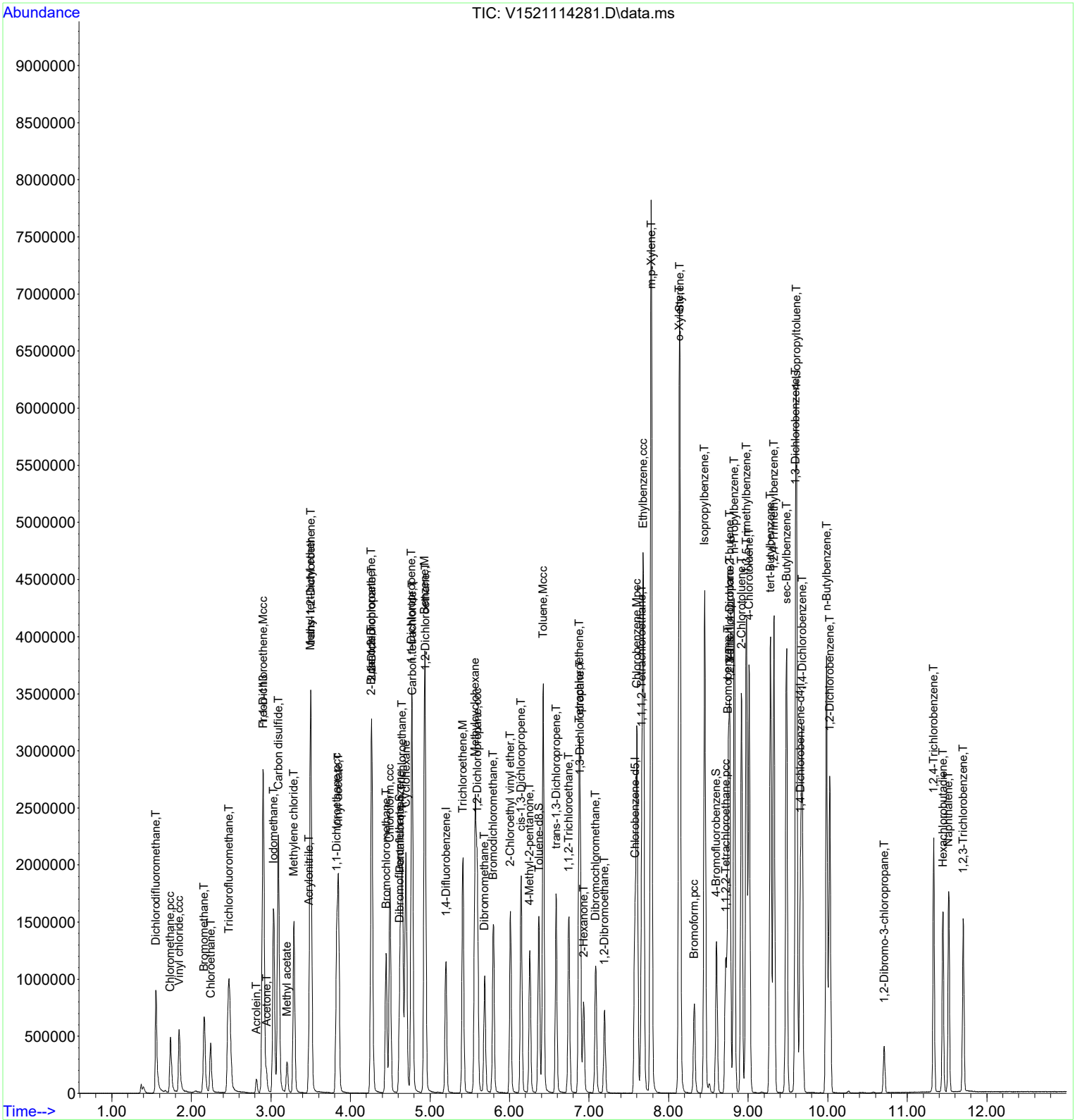
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) Tetrachloroethene	6.874	166	586424	148.42 ug/L	99
49) 1,3-Dichloropropane	6.890	76	788683	149.40 ug/L	97
50) Dibromochloromethane	7.082	129	513525	174.95 ug/L	96
51) 1,2-Dibromoethane	7.194	107	431354	155.33 ug/L	99
52) Chlorobenzene	7.602	112	1409074	150.42 ug/L	99
53) 1,1,1,2-Tetrachloroethane	7.663	131	536833	169.98 ug/L	99
54) Ethylbenzene	7.682	91	2739144	156.75 ug/L	98
55) m,p-Xylene	7.782	91	4414753	315.89 ug/L	100
56) o-Xylene	8.131	91	2314285	162.24 ug/L	99
57) Styrene	8.141	104	1626179	169.18 ug/L	99
58) Bromoform	8.321	173	345382	161.12 ug/L	99
61) Bromobenzene	8.748	156	625438	144.59 ug/L	93
62) 1,1,2,2-Tetrachloroethane	8.719	83	557059	145.93 ug/L	100
63) 1,2,3-Trichloropropane	8.770	75	973586	148.53 ug/L	86
64) Isopropylbenzene	8.452	105	2673938	156.49 ug/L	100
65) n-Propylbenzene	8.825	91	3298741	149.54 ug/L	99
66) trans-1,4-Dichloro-2-b...	8.767	124	66852	345.95 ug/L	89
67) 2-Chlorotoluene	8.914	91	1975912	148.82 ug/L	98
68) 4-Chlorotoluene	9.011	91	2342775	147.94 ug/L	99
69) 1,3,5-Trimethylbenzene	8.979	105	2206821	162.39 ug/L	98
70) tert-Butylbenzene	9.280	119	2028928	166.86 ug/L	99
71) 1,2,4-Trimethylbenzene	9.325	105	2232643	161.83 ug/L	100
72) sec-Butylbenzene	9.482	105	2540056	170.62 ug/L	97
73) 1,3-Dichlorobenzene	9.595	146	1086747	154.56 ug/L	96
74) 4-Isopropyltoluene	9.608	119	2178398	175.24 ug/L	97
75) 1,4-Dichlorobenzene	9.678	146	1095665	150.84 ug/L	98
76) 1,2-Dichlorobenzene	10.025	146	974238	156.77 ug/L	97
77) n-Butylbenzene	9.986	91	2037827	181.97 ug/L	99
78) 1,2-Dibromo-3-chloropr...	10.711	75	101167	175.86 ug/L	90
79) 1,2,4-Trichlorobenzene	11.331	180	508352	207.21 ug/L	99
80) Hexachlorobutadiene	11.449	225	265824	212.82 ug/L	99
81) Naphthalene	11.520	128	1048236	238.69 ug/L	100
82) 1,2,3-Trichlorobenzene	11.703	180	380373	223.23 ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114281.D
Acq On : 31 Jan 2022 9:00 pm
Operator : CM
Sample : ICAL 8260 150W
Misc : SAMP 8260B_W
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 01 11:54:37 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114283.D
Acq On : 31 Jan 2022 9:51 pm
Operator : CM
Sample : ICAL 8260 200W
Misc : SAMP 8260B_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 01 11:55:02 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.630	168	465018	50.00	ug/L	0.00
28) 1,4-Difluorobenzene	5.202	114	725905	50.00	ug/L	0.00
46) Chlorobenzene-d5	7.576	117	702002	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	9.652	152	322769	50.00	ug/L	0.00
System Monitoring Compounds						
29) Dibromofluoromethane	4.618	113	269971	47.77	ug/L	0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 95.54%			
42) Toluene-d8	6.366	98	928431	50.51	ug/L	0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 101.02%			
59) 4-Bromofluorobenzene	8.600	95	395511	47.39	ug/L	0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 94.78%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.556	85	1138127	200.20	ug/L	97
3) Chloromethane	1.739	50	619024	179.77	ug/L	96
4) Vinyl chloride	1.848	62	749298	196.30	ug/L	96
5) Bromomethane	2.163	94	595343	191.93	ug/L	94
6) Chloroethane	2.243	64	425639	189.64	ug/L	95
7) Trichlorofluoromethane	2.474	101	1546844	196.29	ug/L	98
8) Acrolein	2.821	56	107718	190.17	ug/L	88
9) 1,1-Dichloroethene	2.901	96	660478	207.00	ug/L	91
10) Freon-113	2.901	101	725338	200.29	µg/L	98
11) Acetone	2.942	58	50826	283.76	ug/L	92
12) Iodomethane	3.032	142	2171268	421.51	ug/L	99
13) Carbon disulfide	3.093	76	4389538	443.62	ug/L	100
14) Methyl acetate	3.202	43	361739	183.06	µg/L	99
15) Vinyl acetate	3.851	43	2718030	454.03	ug/L	98
16) Methylene chloride	3.289	84	741346	197.12	ug/L	96
17) Acrylonitrile	3.478	53	208662	179.76	ug/L	99
18) Methyl tert-butyl ether	3.498	73	2266234	209.66	µg/L	96
19) trans-1,2-Dichloroethene	3.504	96	696436	206.61	ug/L	93
20) 1,1-Dichloroethane	3.828	63	1586522	201.90	ug/L	99
21) 2,2-Dichloropropane	4.268	77	1174729	205.27	ug/L	100
22) cis-1,2-Dichloroethene	4.265	96	757181	208.99	ug/L	97
23) 2-Butanone	4.268	72	77088	354.97	ug/L	94
24) Bromochloromethane	4.447	128	321931	204.93	ug/L	92
25) Chloroform	4.496	83	1639558	204.90	ug/L	100
26) Cyclohexane	4.698	56	1305427	206.63	µg/L	93
27) 1,1,1-Trichloroethane	4.653	97	1543305	213.28	µg/L	97
30) 1,1-Dichloropropene	4.772	110	342484	210.85	ug/L	95
31) Carbon tetrachloride	4.775	119	1275551	225.72	ug/L	98
32) Benzene	4.932	78	2905564	203.10	ug/L	98
33) 1,2-Dichloroethane	4.942	62	1375815	193.66	ug/L	99
34) Trichloroethene	5.413	130	698473	212.07	ug/L	96
35) Methylcyclohexane	5.567	55	1090702	207.79	µg/L	92
36) 1,2-Dichloropropane	5.593	63	766951	195.73	ug/L	97
37) Dibromomethane	5.689	93	477400	207.69	ug/L	94
38) Bromodichloromethane	5.795	83	1192907	227.26	ug/L	96
39) 2-Chloroethyl vinyl ether	6.010	63	860532	458.37	µg/L	97
40) cis-1,3-Dichloropropene	6.148	75	1339256	237.11	ug/L	98
41) 4-Methyl-2-pentanone	6.254	43	953713	409.46	ug/L	96
43) Toluene	6.424	92	1851587	208.74	ug/L	96
44) trans-1,3-Dichloropropene	6.585	75	1244444	245.53	ug/L	96
45) 1,1,2-Trichloroethane	6.742	83	512043	209.71	ug/L	99
47) 2-Hexanone	6.931	43	566425	408.01	ug/L	99

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114283.D
Acq On : 31 Jan 2022 9:51 pm
Operator : CM
Sample : ICAL 8260 200W
Misc : SAMP 8260B_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 01 11:55:02 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

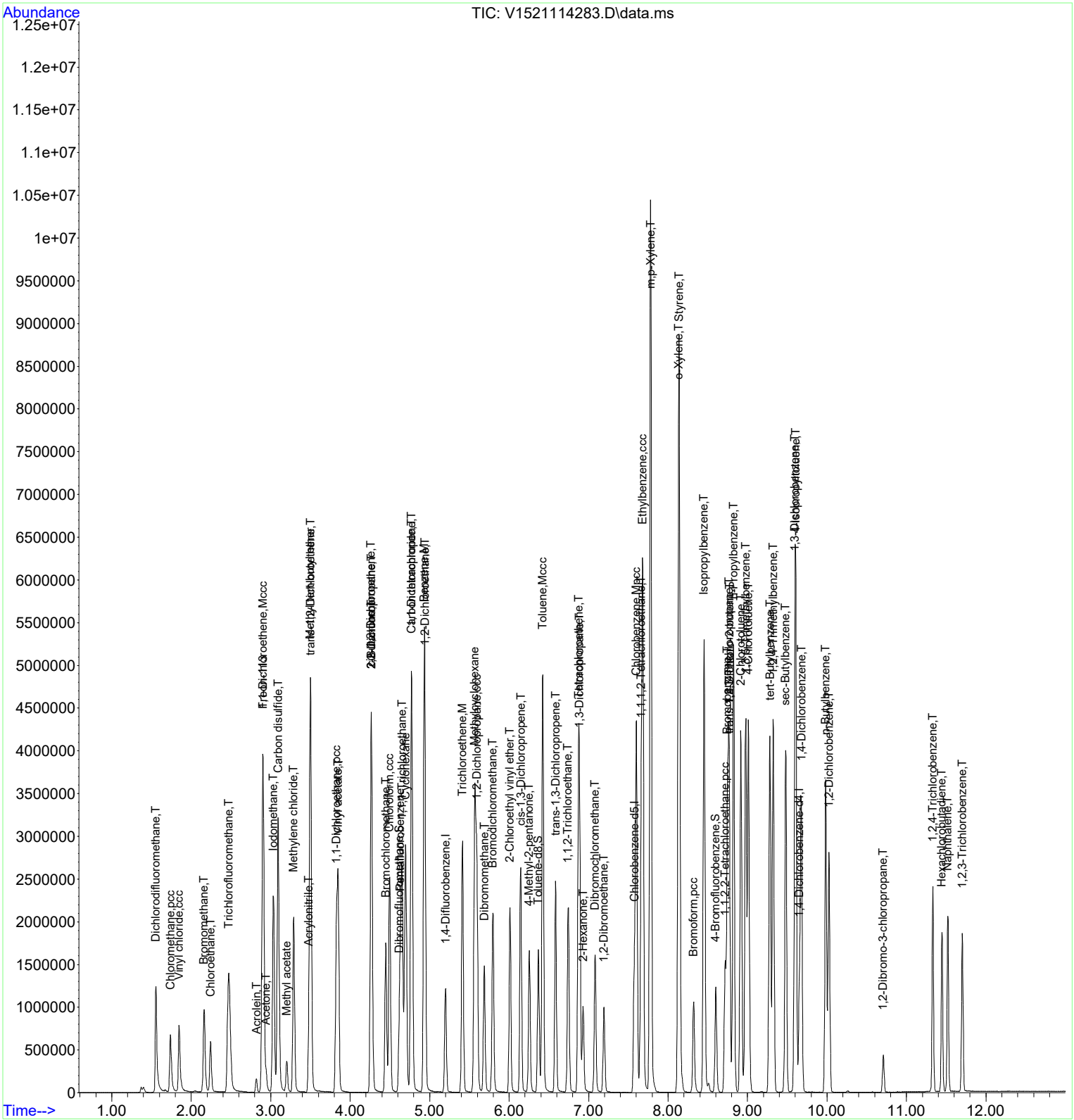
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) Tetrachloroethene	6.873	166	839569	210.73 ug/L	97
49) 1,3-Dichloropropane	6.886	76	1108058	208.16 ug/L	99
50) Dibromochloromethane	7.082	129	737087	249.03 ug/L	94
51) 1,2-Dibromoethane	7.194	107	607736	217.03 ug/L	97
52) Chlorobenzene	7.602	112	1968112	208.35 ug/L	96
53) 1,1,1,2-Tetrachloroethane	7.663	131	746396	234.37 ug/L	99
54) Ethylbenzene	7.682	91	3778731	214.44 ug/L	99
55) m,p-Xylene	7.782	91	6062006	430.15 ug/L	99
56) o-Xylene	8.131	91	3072267	213.59 ug/L	97
57) Styrene	8.141	104	2185129	225.44 ug/L	98
58) Bromoform	8.321	173	479207	221.38 ug/L	99
61) Bromobenzene	8.747	156	809754	237.90 ug/L	93
62) 1,1,2,2-Tetrachloroethane	8.719	83	709528	236.20 ug/L	99
63) 1,2,3-Trichloropropane	8.770	75	1282848	248.71 ug/L	94
64) Isopropylbenzene	8.452	105	3394820	252.48 ug/L	99
65) n-Propylbenzene	8.824	91	4085682	235.38 ug/L	99
66) trans-1,4-Dichloro-2-b...	8.773	124	85481	562.15 ug/L	83
67) 2-Chlorotoluene	8.914	91	2376187	227.43 ug/L	99
68) 4-Chlorotoluene	9.011	91	2779338	223.04 ug/L	100
69) 1,3,5-Trimethylbenzene	8.978	105	2376125	222.20 ug/L	98
70) tert-Butylbenzene	9.283	119	2144458	224.12 ug/L	98
71) 1,2,4-Trimethylbenzene	9.322	105	2338755	215.43 ug/L	99
72) sec-Butylbenzene	9.479	105	2549351	217.62 ug/L	98
73) 1,3-Dichlorobenzene	9.598	146	1208233	218.38 ug/L	97
74) 4-Isopropyltoluene	9.607	119	2125028	217.24 ug/L	98
75) 1,4-Dichlorobenzene	9.678	146	1200621	210.06 ug/L	98
76) 1,2-Dichlorobenzene	10.025	146	1017329	208.03 ug/L	95
77) n-Butylbenzene	9.983	91	1984305	225.18 ug/L	98
78) 1,2-Dibromo-3-chloropr...	10.708	75	107583	237.66 ug/L	95
79) 1,2,4-Trichlorobenzene	11.331	180	572599	296.61 ug/L	98
80) Hexachlorobutadiene	11.446	225	308332	313.78 ug/L	99
81) Naphthalene	11.520	128	1188506	343.92 ug/L	100
82) 1,2,3-Trichlorobenzene	11.703	180	469278	350.00 ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114283.D
Acq On : 31 Jan 2022 9:51 pm
Operator : CM
Sample : ICAL 8260 200W
Misc : SAMP 8260B_W
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 01 11:55:02 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114289.D
Acq On : 1 Feb 2022 9:58 am
Operator : CM
Sample : ICAL 8260 001W
Misc : SAMP 8260B_W
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 01 11:50:12 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.630	168	443197	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	5.202	114	645391	50.00	ug/L		0.00
46) Chlorobenzene-d5	7.576	117	614510	50.00	ug/L		0.00
60) 1,4-Dichlorobenzene-d4	9.656	152	352109	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	4.621	113	249638	49.69	ug/L		0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 99.38%				
42) Toluene-d8	6.370	98	799346	48.92	ug/L		0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 97.84%				
59) 4-Bromofluorobenzene	8.603	95	373433	51.11	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 102.22%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.559	85	5239	0.97	ug/L		93
3) Chloromethane	1.752	50	4108	1.25	ug/L		84
4) Vinyl chloride	1.858	62	3775	1.04	ug/L	#	69
5) Bromomethane	2.160	94	3548	1.20	ug/L	#	68
6) Chloroethane	2.249	64	2260	1.06	ug/L		98
7) Trichlorofluoromethane	2.480	101	7274	0.97	ug/L	#	84
8) Acrolein	2.817	56	708	1.31	ug/L	#	4
9) 1,1-Dichloroethene	2.901	96	2906	0.96	ug/L	#	59
10) Freon-113	2.910	101	3010	0.87	µg/L	#	75
11) Acetone	2.949	58	518	3.03	ug/L		61
12) Iodomethane	3.032	142	9202	1.87	ug/L		92
13) Carbon disulfide	3.093	76	15464	1.64	ug/L		100
14) Methyl acetate	3.212	43	1644m	0.87	µg/L		
15) Vinyl acetate	3.854	43	8838	1.55	ug/L		97
16) Methylene chloride	3.289	84	7445	0.87	ug/L		88
17) Acrylonitrile	3.482	53	1091	0.99	ug/L	#	52
18) Methyl tert-butyl ether	3.501	73	8710	0.85	µg/L		94
19) trans-1,2-Dichloroethene	3.501	96	2691	0.84	ug/L		98
20) 1,1-Dichloroethane	3.831	63	6786	0.91	ug/L	#	86
21) 2,2-Dichloropropane	4.261	77	5171	0.95	ug/L	#	79
22) cis-1,2-Dichloroethene	4.268	96	3238	0.94	ug/L	#	89
23) 2-Butanone	4.271	72	324	1.57	ug/L		59
24) Bromochloromethane	4.451	128	1273	0.85	ug/L		74
25) Chloroform	4.502	83	7238	0.95	ug/L	#	72
26) Cyclohexane	4.698	56	5164	0.86	µg/L	#	69
27) 1,1,1-Trichloroethane	4.653	97	6351	0.92	ug/L	#	1
30) 1,1-Dichloropropene	4.768	110	1417	0.98	ug/L	#	45
31) Carbon tetrachloride	4.781	119	4400	0.88	ug/L		90
32) Benzene	4.932	78	11641	0.92	ug/L		99
33) 1,2-Dichloroethane	4.942	62	5954	0.94	ug/L	#	95
34) Trichloroethene	5.413	130	2811	0.96	ug/L	#	78
35) Methylcyclohexane	5.567	55	4086	0.88	µg/L	#	93
36) 1,2-Dichloropropane	5.599	63	3534	1.01	ug/L	#	71
37) Dibromomethane	5.693	93	1849	0.90	ug/L		91
38) Bromodichloromethane	5.792	83	4111	0.88	ug/L	#	68
39) 2-Chloroethyl vinyl ether	6.004	63	2530	1.52	µg/L		86
40) cis-1,3-Dichloropropene	6.145	75	3992	0.79	ug/L	#	86
41) 4-Methyl-2-pentanone	6.251	43	3038	1.47	ug/L	#	92
43) Toluene	6.424	92	7402	0.94	ug/L		81
44) trans-1,3-Dichloropropene	6.585	75	3408	0.76	ug/L	#	86
45) 1,1,2-Trichloroethane	6.748	83	1963	0.90	ug/L	#	71
47) 2-Hexanone	6.931	43	1791	1.47	ug/L	#	68

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114289.D
Acq On : 1 Feb 2022 9:58 am
Operator : CM
Sample : ICAL 8260 001W
Misc : SAMP 8260B_W
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 01 11:50:12 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

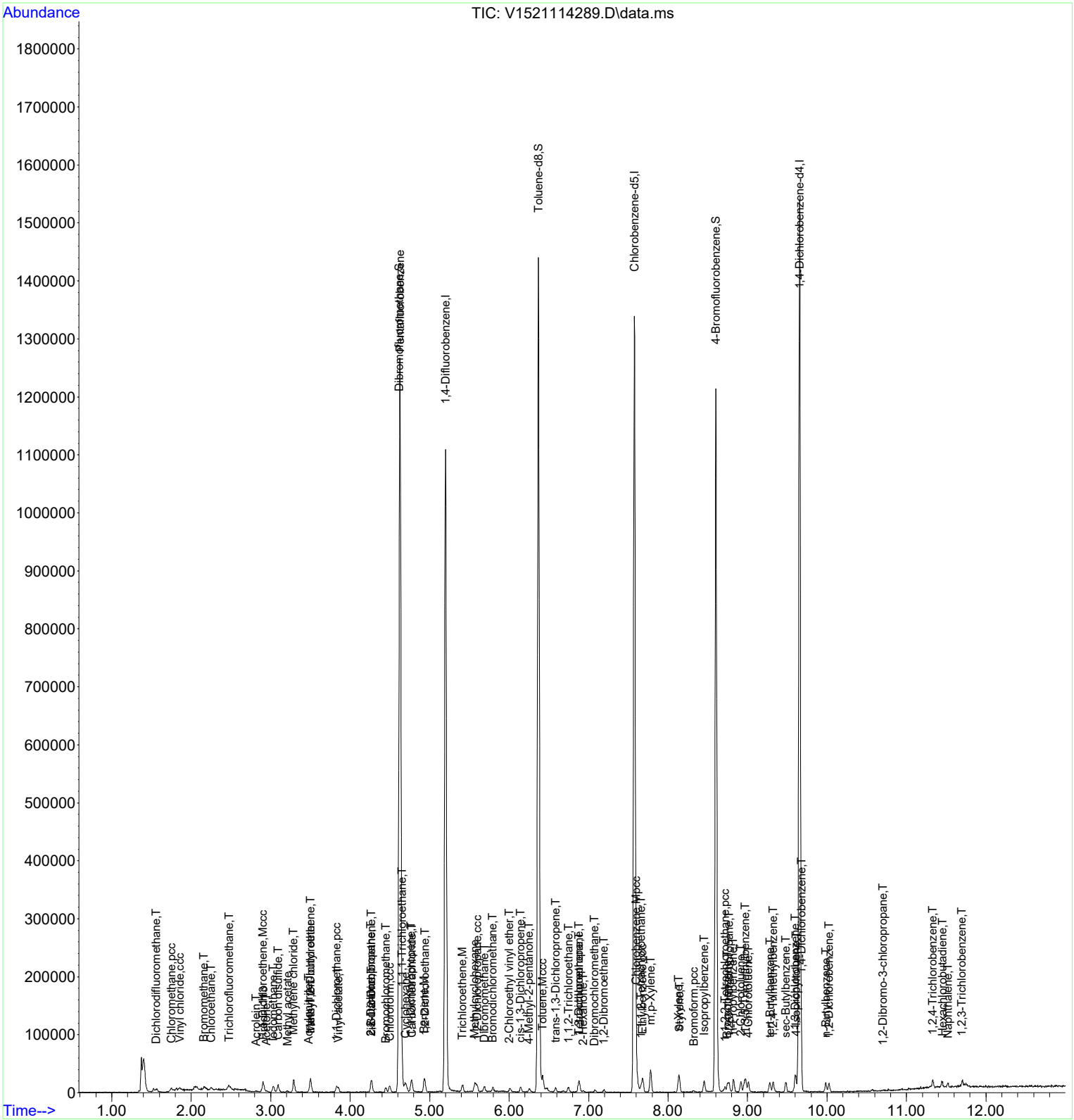
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) Tetrachloroethene	6.880	166	3415	0.98 ug/L #	71
49) 1,3-Dichloropropane	6.883	76	4181	0.90 ug/L	88
50) Dibromochloromethane	7.076	129	1851	0.71 ug/L #	56
51) 1,2-Dibromoethane	7.194	107	2417	0.99 ug/L #	98
52) Chlorobenzene	7.602	112	7801	0.94 ug/L	79
53) 1,1,1,2-Tetrachloroethane	7.666	131	2153	0.77 ug/L	92
54) Ethylbenzene	7.682	91	13790	0.89 ug/L	85
55) m,p-Xylene	7.782	91	20988	1.70 ug/L	96
56) o-Xylene	8.134	91	10321	0.82 ug/L	87
57) Styrene	8.144	104	6511	0.77 ug/L	89
58) Bromoform	8.324	173	1180	1.44 ug/L #	81
61) Bromobenzene	8.747	156	3252	0.88 ug/L	85
62) 1,1,2,2-Tetrachloroethane	8.715	83	2580	0.79 ug/L #	54
63) 1,2,3-Trichloropropane	8.767	75	3931	0.70 ug/L	84
64) Isopropylbenzene	8.455	105	11054	0.75 ug/L	89
65) n-Propylbenzene	8.821	91	15811	0.83 ug/L	96
66) trans-1,4-Dichloro-2-b...	0.000		0	N.D.	
67) 2-Chlorotoluene	8.917	91	9858	0.86 ug/L	87
68) 4-Chlorotoluene	9.014	91	10979	0.81 ug/L	94
69) 1,3,5-Trimethylbenzene	8.975	105	9040	0.77 ug/L	86
70) tert-Butylbenzene	9.283	119	8087	0.77 ug/L #	82
71) 1,2,4-Trimethylbenzene	9.322	105	9357	0.79 ug/L	82
72) sec-Butylbenzene	9.482	105	10088	0.79 ug/L	100
73) 1,3-Dichlorobenzene	9.601	146	5422	0.90 ug/L	92
74) 4-Isopropyltoluene	9.614	119	8530	0.80 ug/L	98
75) 1,4-Dichlorobenzene	9.678	146	6082	0.98 ug/L #	83
76) 1,2-Dichlorobenzene	10.025	146	5285	0.99 ug/L #	77
77) n-Butylbenzene	9.986	91	8047	0.84 ug/L	88
78) 1,2-Dibromo-3-chloropr...	10.705	75	554	1.12 ug/L #	43
79) 1,2,4-Trichlorobenzene	11.331	180	2614	1.24 ug/L	79
80) Hexachlorobutadiene	11.456	225	1667	1.38 ug/L #	79
81) Naphthalene	11.523	128	3561	0.94 ug/L	100
82) 1,2,3-Trichlorobenzene	11.700	180	1957	1.34 ug/L #	61

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114289.D
Acq On : 1 Feb 2022 9:58 am
Operator : CM
Sample : ICAL 8260 001W
Misc : SAMP 8260B_W
ALS Vial : 19 Sample Multiplier: 1

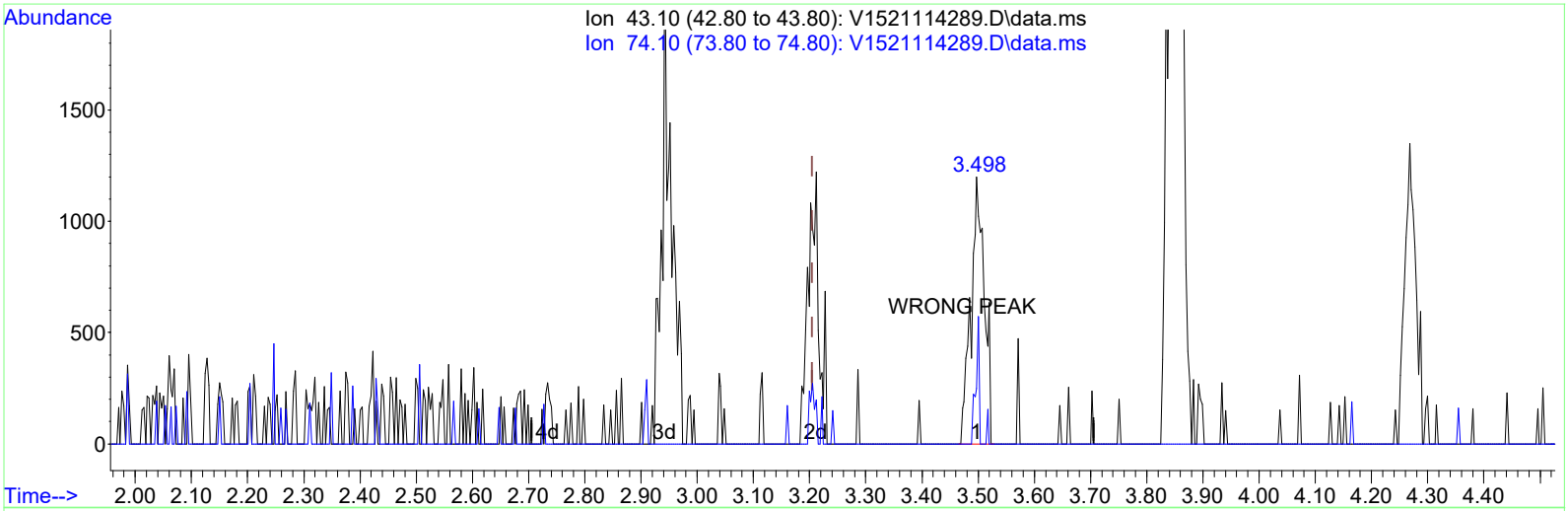
Quant Time: Feb 01 11:50:12 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

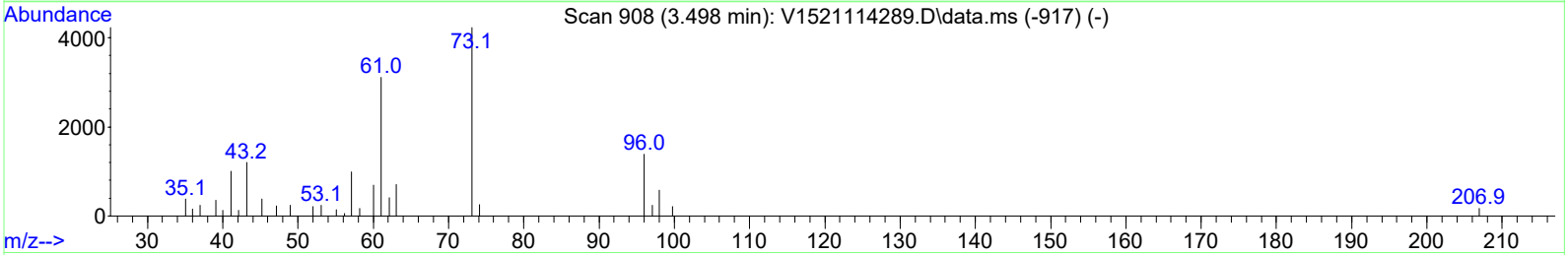


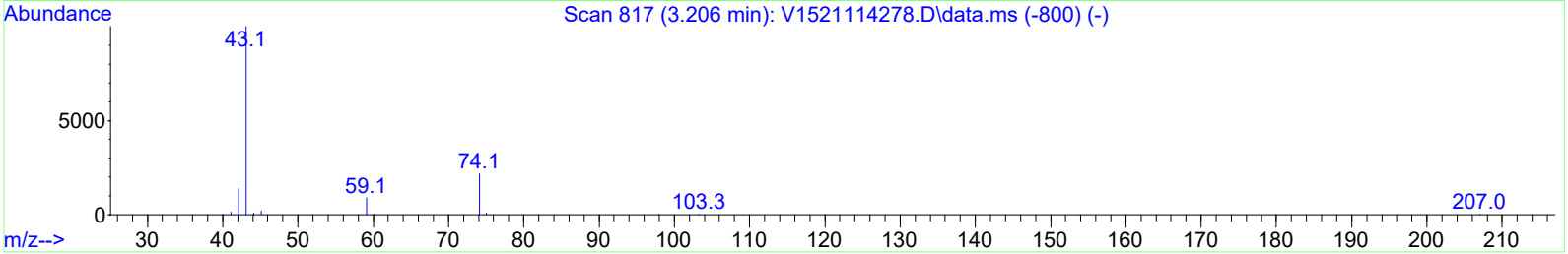
Quantitation Report (Qedit)

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114289.D
Acq On : 1 Feb 2022 9:58 am
Operator : CM
Sample : ICAL 8260 001W
Misc : SAMP 8260B_W
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 01 11:48:59 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration







TIC: V1521114289.D\data.ms

(14) Methyl acetate

3.498min (+ 0.292) 1.07 µg/L

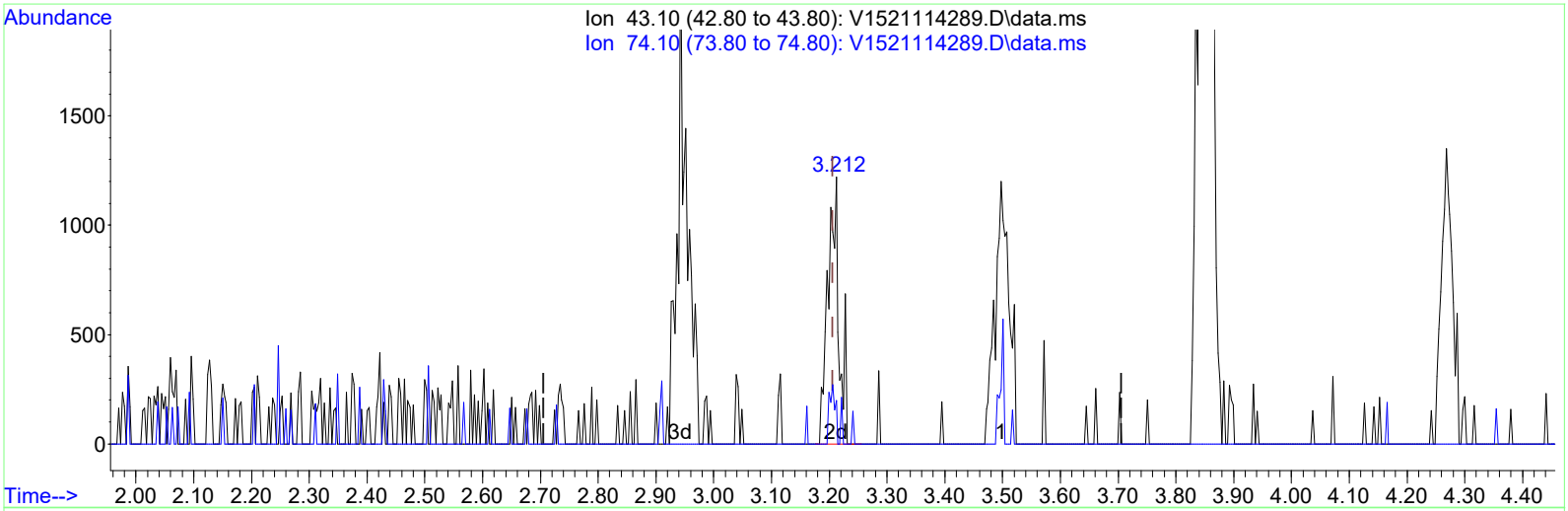
response 1998

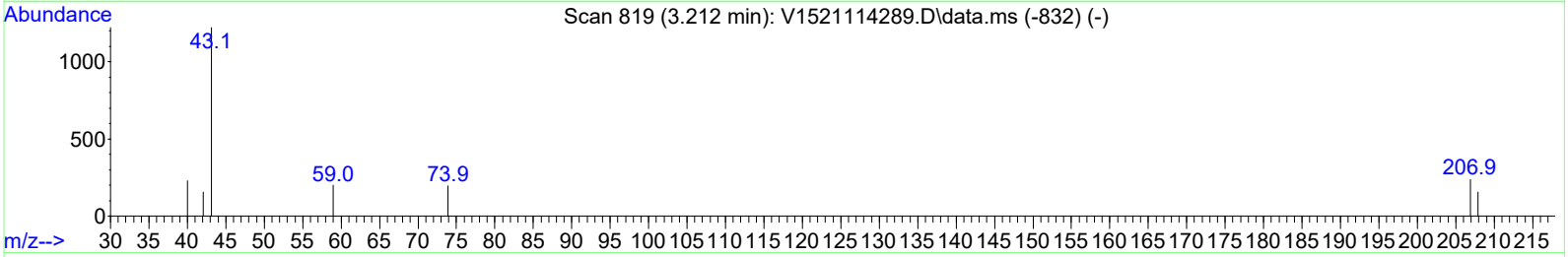
Ion	Exp%	Act%
43.10	100.00	100.00
74.10	21.90	20.75
0.00	0.00	0.00
0.00	0.00	0.00

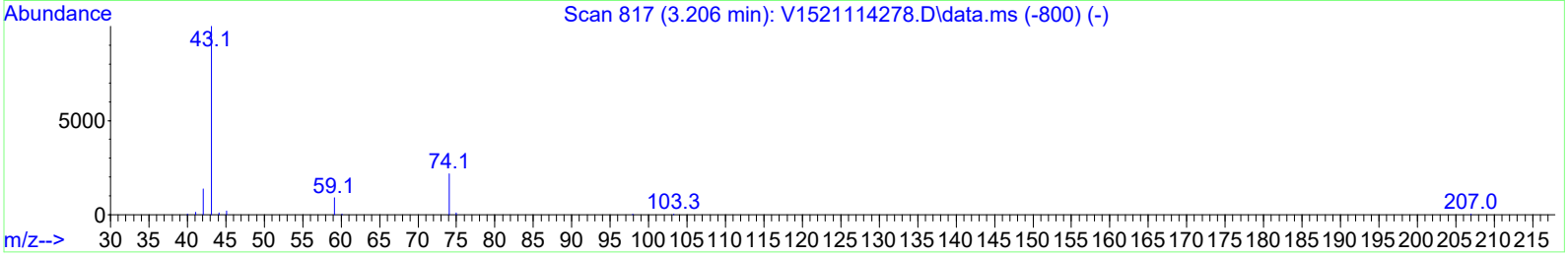
Quantitation Report (Qedit)

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114289.D
Acq On : 1 Feb 2022 9:58 am
Operator : CM
Sample : ICAL 8260 001W
Misc : SAMP 8260B_W
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 01 11:50:01 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration







TIC: V1521114289.D\data.ms

(14) Methyl acetate

3.212min (+ 0.006) 0.87 µg/L m

response 1644

Ion	Exp%	Act%
43.10	100.00	100.00
74.10	21.90	16.22#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114290.D
Acq On : 1 Feb 2022 10:23 am
Operator : CM
Sample : ICAL 8260 002W
Misc : SAMP 8260B_W
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 01 11:51:07 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.631	168	441003	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	5.202	114	650254	50.00	ug/L		0.00
46) Chlorobenzene-d5	7.576	117	624415	50.00	ug/L		0.00
60) 1,4-Dichlorobenzene-d4	9.652	152	316671	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	4.618	113	247193	48.83	ug/L		0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 97.66%				
42) Toluene-d8	6.367	98	808382	49.10	ug/L		0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 98.20%				
59) 4-Bromofluorobenzene	8.600	95	366081	49.31	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 98.62%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.556	85	8862	1.64	ug/L		95
3) Chloromethane	1.739	50	6142	1.88	ug/L		96
4) Vinyl chloride	1.852	62	7082	1.96	ug/L		97
5) Bromomethane	2.163	94	5496	1.87	ug/L		76
6) Chloroethane	2.243	64	4273	2.01	ug/L		99
7) Trichlorofluoromethane	2.465	101	13208	1.77	ug/L	#	85
8) Acrolein	2.824	56	1074	2.00	ug/L		97
9) 1,1-Dichloroethene	2.904	96	5582	1.84	ug/L		84
10) Freon-113	2.911	101	6523	1.90	µg/L	#	82
11) Acetone	2.943	58	1034	6.09	ug/L	#	50
12) Iodomethane	3.029	142	18033	3.69	ug/L	#	94
13) Carbon disulfide	3.090	76	30599	3.26	ug/L		100
14) Methyl acetate	3.203	43	3958m	2.11	µg/L		
15) Vinyl acetate	3.851	43	18420	3.24	ug/L		95
16) Methylene chloride	3.289	84	12875	2.41	ug/L		97
17) Acrylonitrile	3.485	53	2440	2.22	ug/L		86
18) Methyl tert-butyl ether	3.498	73	18588	1.81	µg/L		98
19) trans-1,2-Dichloroethene	3.504	96	5777	1.81	ug/L		86
20) 1,1-Dichloroethane	3.828	63	14701	1.97	ug/L		88
21) 2,2-Dichloropropane	4.271	77	10377	1.91	ug/L		94
22) cis-1,2-Dichloroethene	4.262	96	6234	1.81	ug/L	#	72
23) 2-Butanone	4.265	72	877	4.26	ug/L	#	40
24) Bromochloromethane	4.451	128	3160	2.12	ug/L		65
25) Chloroform	4.499	83	13941	1.84	ug/L		84
26) Cyclohexane	4.691	56	10492	1.75	µg/L		87
27) 1,1,1-Trichloroethane	4.656	97	12197	1.78	ug/L	#	21
30) 1,1-Dichloropropene	4.765	110	2695	1.85	ug/L	#	58
31) Carbon tetrachloride	4.778	119	8792	1.74	ug/L		82
32) Benzene	4.932	78	24931	1.95	ug/L		92
33) 1,2-Dichloroethane	4.945	62	12685	1.99	ug/L		99
34) Trichloroethene	5.414	130	5295	1.79	ug/L		93
35) Methylcyclohexane	5.564	55	7812	1.66	µg/L		89
36) 1,2-Dichloropropane	5.596	63	6561	1.87	ug/L	#	74
37) Dibromomethane	5.689	93	3986	1.94	ug/L		88
38) Bromodichloromethane	5.799	83	7643	1.63	ug/L	#	92
39) 2-Chloroethyl vinyl ether	6.010	63	5885	3.50	µg/L	#	83
40) cis-1,3-Dichloropropene	6.148	75	8242	1.63	ug/L		91
41) 4-Methyl-2-pentanone	6.254	43	7514	3.60	ug/L		94
43) Toluene	6.421	92	16053	2.02	ug/L		79
44) trans-1,3-Dichloropropene	6.585	75	7320	1.61	ug/L		99
45) 1,1,2-Trichloroethane	6.745	83	4704	2.15	ug/L		90
47) 2-Hexanone	6.941	43	4323	3.50	ug/L	#	75

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114290.D
Acq On : 1 Feb 2022 10:23 am
Operator : CM
Sample : ICAL 8260 002W
Misc : SAMP 8260B_W
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 01 11:51:07 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

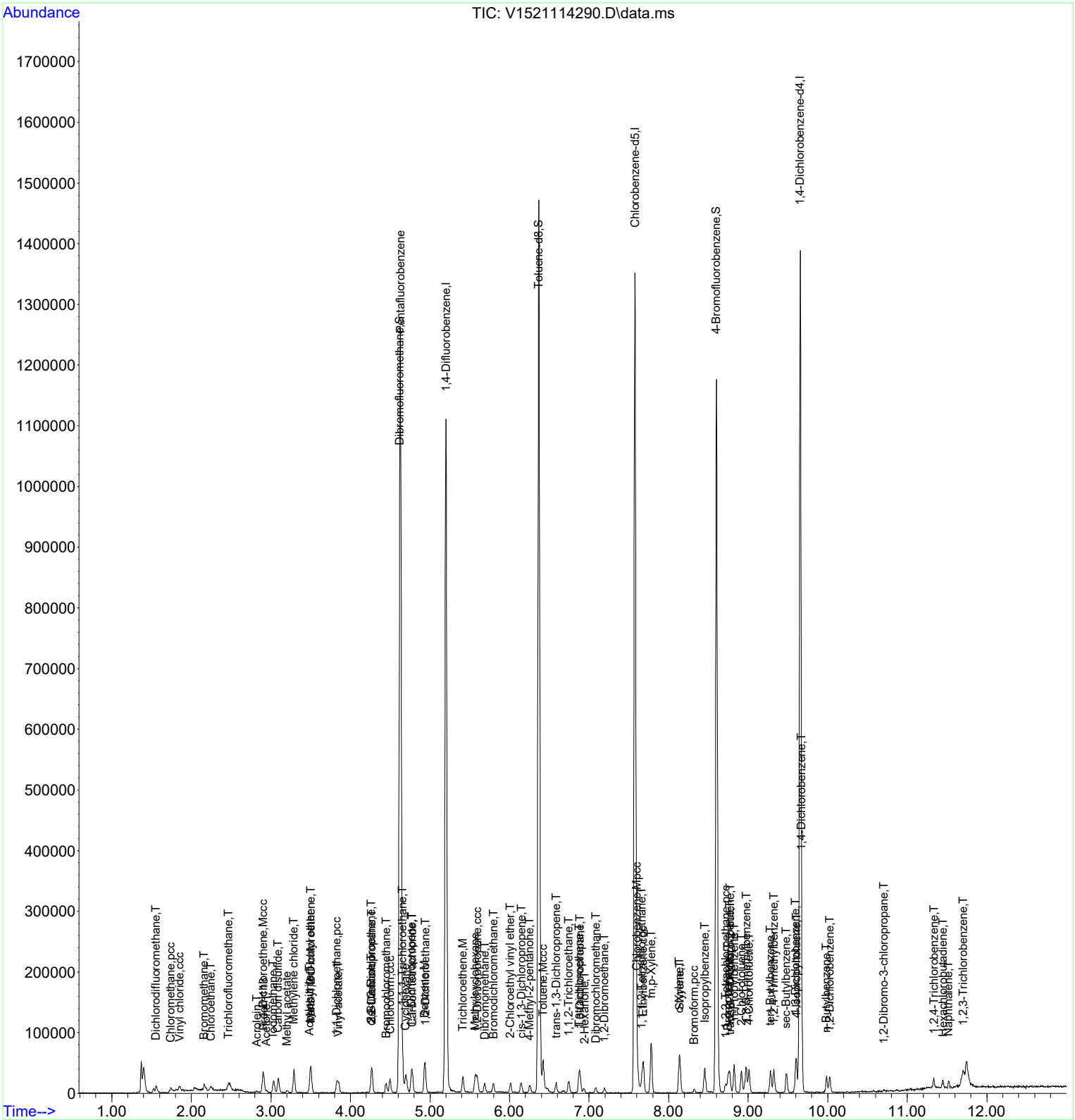
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) Tetrachloroethene	6.877	166	7118	2.01 ug/L	90
49) 1,3-Dichloropropane	6.886	76	9552	2.02 ug/L	94
50) Dibromochloromethane	7.085	129	4535	1.72 ug/L #	62
51) 1,2-Dibromoethane	7.194	107	4424	1.78 ug/L #	72
52) Chlorobenzene	7.602	112	16687	1.99 ug/L	99
53) 1,1,1,2-Tetrachloroethane	7.663	131	4530	1.60 ug/L	89
54) Ethylbenzene	7.682	91	28370	1.81 ug/L #	80
55) m,p-Xylene	7.782	91	45418	3.62 ug/L	95
56) o-Xylene	8.131	91	22501	1.76 ug/L	99
57) Styrene	8.138	104	14511	1.68 ug/L	94
58) Bromoform	8.321	173	2450	2.09 ug/L	95
61) Bromobenzene	8.744	156	6709	2.01 ug/L	85
62) 1,1,2,2-Tetrachloroethane	8.719	83	5281	1.79 ug/L	81
63) 1,2,3-Trichloropropane	8.767	75	9341	1.85 ug/L #	74
64) Isopropylbenzene	8.456	105	22698	1.72 ug/L	93
65) n-Propylbenzene	8.825	91	31889	1.87 ug/L	96
66) trans-1,4-Dichloro-2-b...	8.776	124	361	2.42 ug/L #	55
67) 2-Chlorotoluene	8.914	91	19189	1.87 ug/L	98
68) 4-Chlorotoluene	9.011	91	23926	1.96 ug/L	100
69) 1,3,5-Trimethylbenzene	8.979	105	18528	1.77 ug/L	97
70) tert-Butylbenzene	9.280	119	15987	1.70 ug/L	95
71) 1,2,4-Trimethylbenzene	9.322	105	19493	1.83 ug/L	95
72) sec-Butylbenzene	9.479	105	19488	1.70 ug/L	100
73) 1,3-Dichlorobenzene	9.598	146	10378	1.91 ug/L #	89
74) 4-Isopropyltoluene	9.608	119	15649	1.63 ug/L	91
75) 1,4-Dichlorobenzene	9.672	146	11314	2.02 ug/L	84
76) 1,2-Dichlorobenzene	10.025	146	8933	1.86 ug/L	93
77) n-Butylbenzene	9.980	91	13421	1.55 ug/L	89
78) 1,2-Dibromo-3-chloropr...	10.705	75	850	1.91 ug/L #	44
79) 1,2,4-Trichlorobenzene	11.334	180	3541	1.87 ug/L #	68
80) Hexachlorobutadiene	11.449	225	1662	1.55 ug/L	97
81) Naphthalene	11.520	128	5917	1.75 ug/L	100
82) 1,2,3-Trichlorobenzene	11.703	180	2260	1.72 ug/L #	42

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114290.D
Acq On : 1 Feb 2022 10:23 am
Operator : CM
Sample : ICAL 8260 002W
Misc : SAMP 8260B_W
ALS Vial : 20 Sample Multiplier: 1

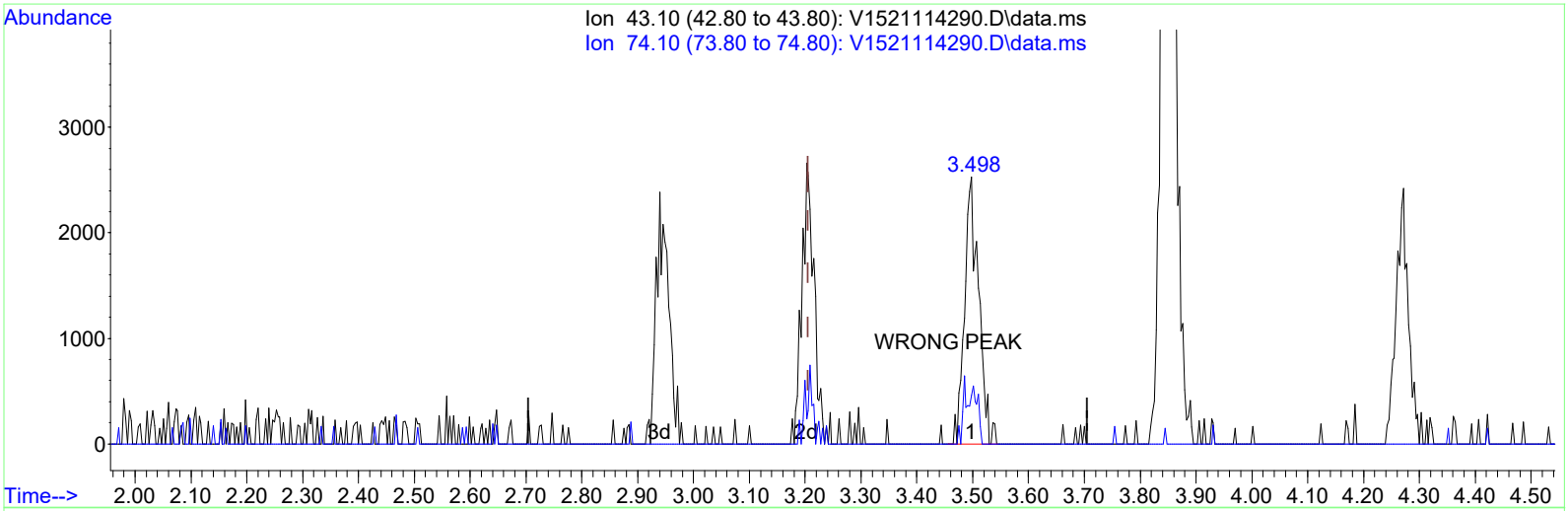
Quant Time: Feb 01 11:51:07 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

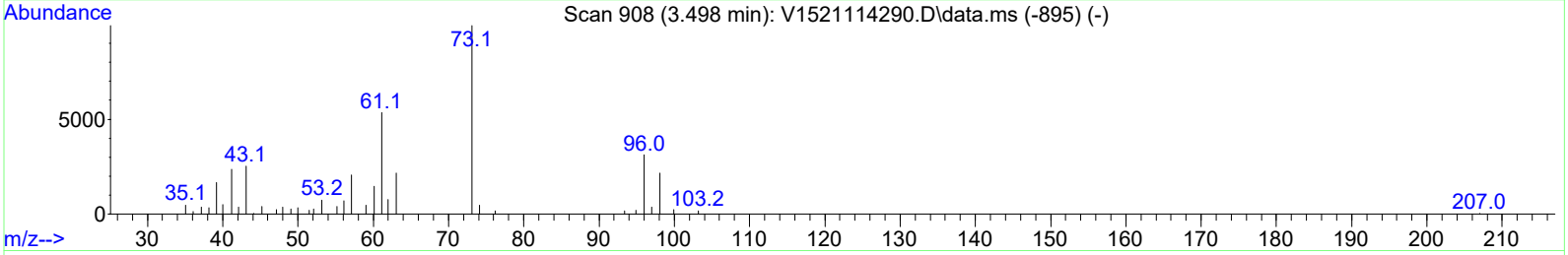


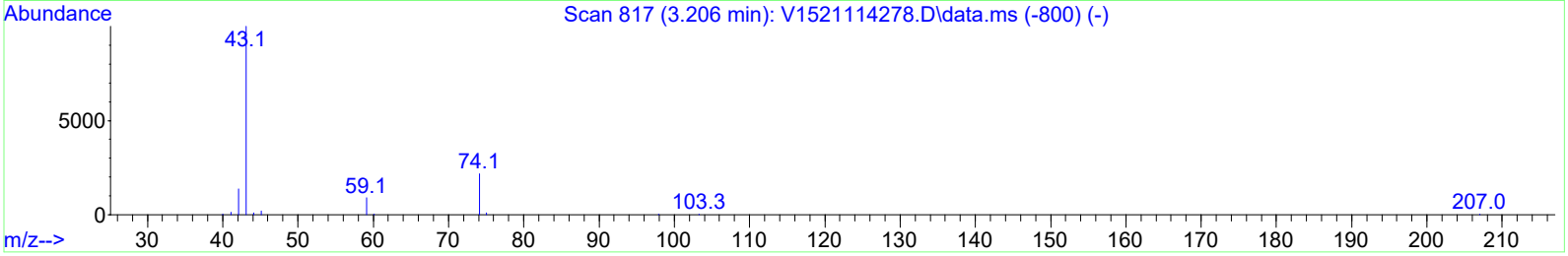
Quantitation Report (Qedit)

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114290.D
Acq On : 1 Feb 2022 10:23 am
Operator : CM
Sample : ICAL 8260 002W
Misc : SAMP 8260B_W
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 01 11:50:52 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration







TIC: V1521114290.D\data.ms

(14) Methyl acetate

3.498min (+ 0.292) 2.36 µg/L

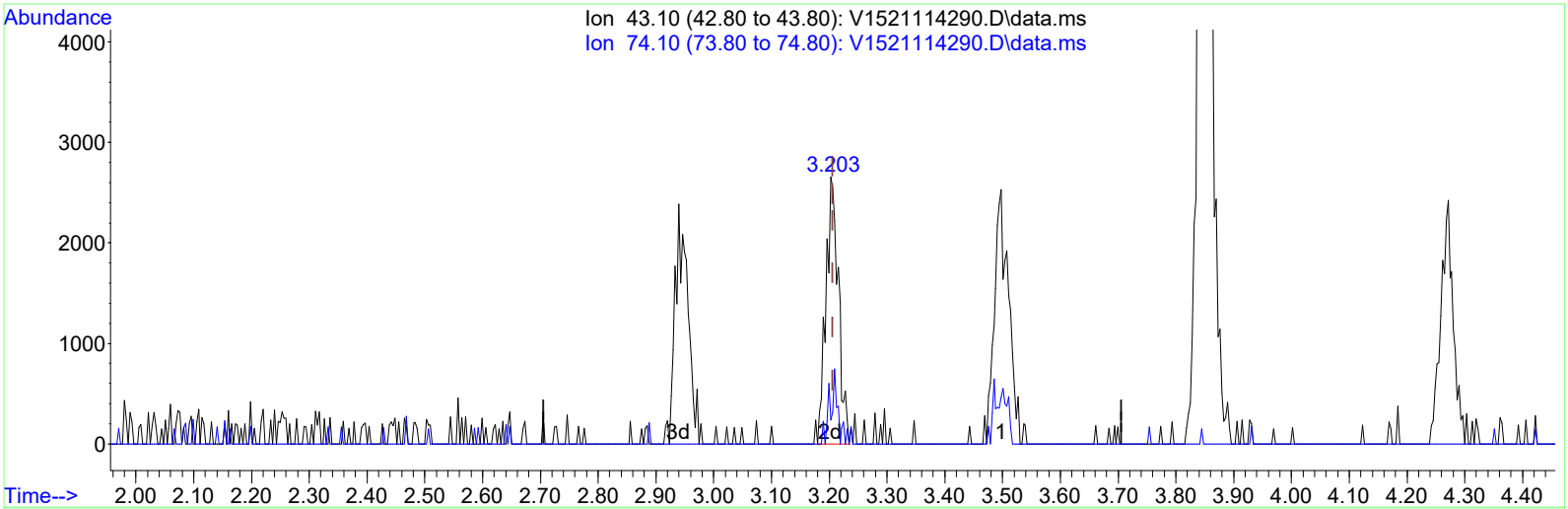
response 4419

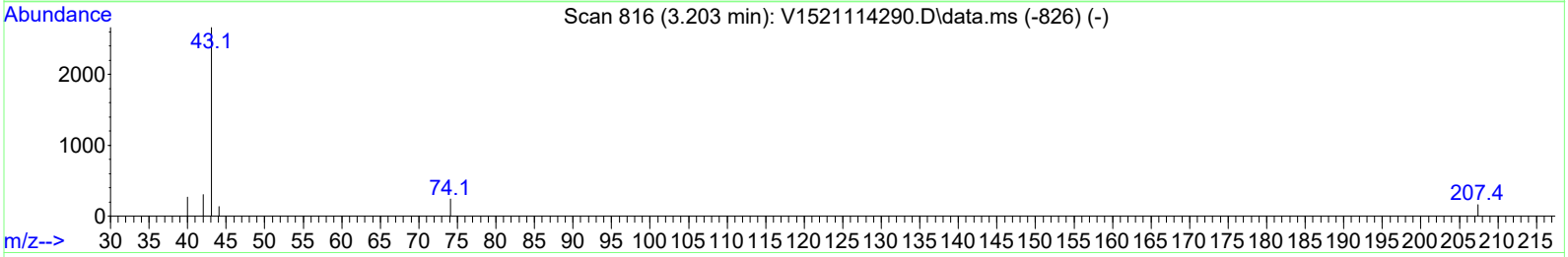
Ion	Exp%	Act%
43.10	100.00	100.00
74.10	21.90	18.21
0.00	0.00	0.00
0.00	0.00	0.00

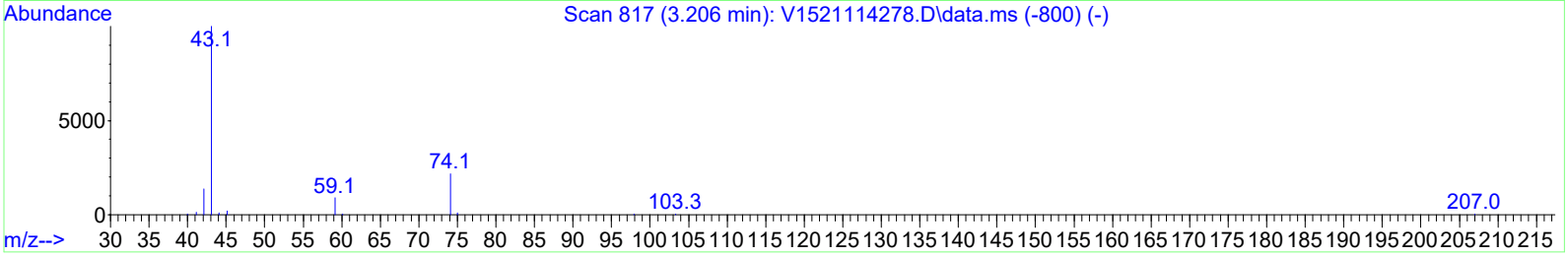
Quantitation Report (Qedit)

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114290.D
Acq On : 1 Feb 2022 10:23 am
Operator : CM
Sample : ICAL 8260 002W
Misc : SAMP 8260B_W
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 01 11:50:52 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration







TIC: V1521114290.D\data.ms

(14) Methyl acetate

3.203min (-0.003) 2.11 µg/L m

response 3958

Ion	Exp%	Act%
43.10	100.00	100.00
74.10	21.90	8.95#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114291.D
Acq On : 1 Feb 2022 11:02 am
Operator : CM
Sample : ICAL 8260 005W
Misc : SAMP 8260B_W
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 01 11:52:06 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.627	168	446998	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	5.198	114	655890	50.00	ug/L		0.00
46) Chlorobenzene-d5	7.576	117	634163	50.00	ug/L		0.00
60) 1,4-Dichlorobenzene-d4	9.652	152	326343	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	4.618	113	255190	49.98	ug/L		0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 99.96%				
42) Toluene-d8	6.366	98	830206	49.99	ug/L		0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 99.98%				
59) 4-Bromofluorobenzene	8.600	95	379206	50.30	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 100.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.553	85	24750	4.53	ug/L		94
3) Chloromethane	1.736	50	15734	4.75	ug/L		94
4) Vinyl chloride	1.845	62	16565	4.51	ug/L		94
5) Bromomethane	2.166	94	13402	4.49	ug/L		93
6) Chloroethane	2.240	64	10191	4.72	ug/L		92
7) Trichlorofluoromethane	2.474	101	35609	4.70	ug/L		94
8) Acrolein	2.821	56	2221	4.08	ug/L	#	35
9) 1,1-Dichloroethene	2.901	96	14094	4.60	ug/L		87
10) Freon-113	2.904	101	15776	4.53	µg/L		92
11) Acetone	2.939	58	1899	11.03	ug/L	#	50
12) Iodomethane	3.036	142	43570	8.80	ug/L		92
13) Carbon disulfide	3.090	76	81798	8.60	ug/L		100
14) Methyl acetate	3.199	43	8688m	4.57	µg/L		
15) Vinyl acetate	3.844	43	49477	8.60	ug/L		97
16) Methylene chloride	3.286	84	21644	4.80	ug/L		97
17) Acrylonitrile	3.482	53	4877	4.37	ug/L	#	77
18) Methyl tert-butyl ether	3.498	73	47397	4.56	µg/L		90
19) trans-1,2-Dichloroethene	3.498	96	15259	4.71	ug/L		91
20) 1,1-Dichloroethane	3.822	63	33999	4.50	ug/L		98
21) 2,2-Dichloropropane	4.268	77	25219	4.58	ug/L		98
22) cis-1,2-Dichloroethene	4.265	96	15760	4.53	ug/L		93
23) 2-Butanone	4.261	72	1979	9.48	ug/L		83
24) Bromochloromethane	4.444	128	7004	4.64	ug/L		92
25) Chloroform	4.496	83	35524	4.62	ug/L		99
26) Cyclohexane	4.695	56	27919	4.60	µg/L		99
27) 1,1,1-Trichloroethane	4.650	97	30982	4.45	ug/L	#	22
30) 1,1-Dichloropropene	4.772	110	6087	4.15	ug/L		83
31) Carbon tetrachloride	4.775	119	21164	4.14	ug/L		97
32) Benzene	4.929	78	61001	4.72	ug/L		96
33) 1,2-Dichloroethane	4.942	62	30493	4.75	ug/L		95
34) Trichloroethene	5.410	130	14123	4.75	ug/L		87
35) Methylcyclohexane	5.567	55	20934	4.41	µg/L		88
36) 1,2-Dichloropropane	5.596	63	17609	4.97	ug/L		89
37) Dibromomethane	5.686	93	9475	4.56	ug/L		86
38) Bromodichloromethane	5.795	83	21050	4.44	ug/L		85
39) 2-Chloroethyl vinyl ether	6.010	63	15375	9.06	µg/L	#	84
40) cis-1,3-Dichloropropene	6.145	75	22453	4.40	ug/L		96
41) 4-Methyl-2-pentanone	6.248	43	18384	8.74	ug/L	#	95
43) Toluene	6.424	92	39067	4.87	ug/L		83
44) trans-1,3-Dichloropropene	6.585	75	19281	4.21	ug/L		94
45) 1,1,2-Trichloroethane	6.742	83	10432	4.73	ug/L		87
47) 2-Hexanone	6.928	43	11164	8.90	ug/L	#	93

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114291.D
Acq On : 1 Feb 2022 11:02 am
Operator : CM
Sample : ICAL 8260 005W
Misc : SAMP 8260B_W
ALS Vial : 21 Sample Multiplier: 1

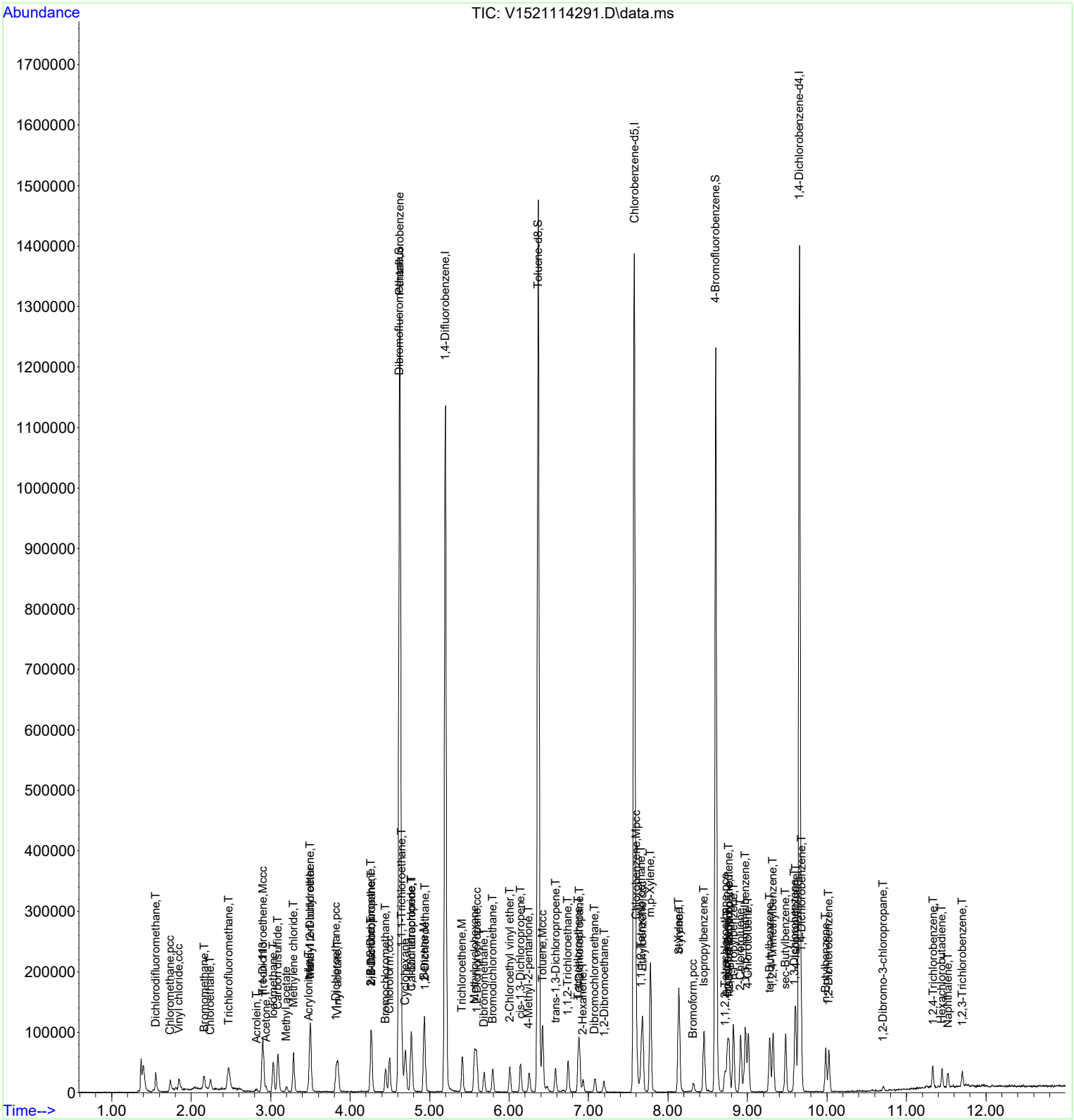
Quant Time: Feb 01 11:52:06 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
48) Tetrachloroethene	6.870	166	16748	4.65 ug/L		91
49) 1,3-Dichloropropane	6.886	76	22182	4.61 ug/L		96
50) Dibromochloromethane	7.076	129	10885	4.07 ug/L		77
51) 1,2-Dibromoethane	7.198	107	11389	4.50 ug/L	#	84
52) Chlorobenzene	7.599	112	41972	4.92 ug/L		92
53) 1,1,1,2-Tetrachloroethane	7.666	131	11801	4.10 ug/L	#	81
54) Ethylbenzene	7.679	91	73962	4.65 ug/L		96
55) m,p-Xylene	7.778	91	119313	9.37 ug/L		98
56) o-Xylene	8.131	91	58445	4.50 ug/L		96
57) Styrene	8.141	104	38117	4.35 ug/L		94
58) Bromoform	8.314	173	5928	3.84 ug/L		88
61) Bromobenzene	8.747	156	16776	4.87 ug/L		83
62) 1,1,2,2-Tetrachloroethane	8.719	83	14178	4.67 ug/L	#	96
63) 1,2,3-Trichloropropane	8.770	75	24243	4.65 ug/L		95
64) Isopropylbenzene	8.452	105	59155	4.35 ug/L		94
65) n-Propylbenzene	8.825	91	81803	4.66 ug/L		100
66) trans-1,4-Dichloro-2-b...	8.764	124	1305	8.49 ug/L	#	34
67) 2-Chlorotoluene	8.911	91	50855	4.81 ug/L		95
68) 4-Chlorotoluene	9.007	91	61678	4.90 ug/L		91
69) 1,3,5-Trimethylbenzene	8.972	105	51968	4.81 ug/L		97
70) tert-Butylbenzene	9.280	119	44427	4.59 ug/L		100
71) 1,2,4-Trimethylbenzene	9.319	105	51872	4.73 ug/L		98
72) sec-Butylbenzene	9.479	105	53317	4.50 ug/L		98
73) 1,3-Dichlorobenzene	9.591	146	26107	4.67 ug/L		88
74) 4-Isopropyltoluene	9.607	119	44053	4.45 ug/L		97
75) 1,4-Dichlorobenzene	9.678	146	26576	4.60 ug/L		92
76) 1,2-Dichlorobenzene	10.021	146	22970	4.65 ug/L		92
77) n-Butylbenzene	9.983	91	36640	4.11 ug/L		91
78) 1,2-Dibromo-3-chloropr...	10.708	75	1964	4.29 ug/L	#	70
79) 1,2,4-Trichlorobenzene	11.337	180	8016	4.11 ug/L		83
80) Hexachlorobutadiene	11.446	225	4564	4.42 ug/L		91
81) Naphthalene	11.523	128	13356	3.82 ug/L		100
82) 1,2,3-Trichlorobenzene	11.703	180	5893	4.35 ug/L		92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114291.D
Acq On : 1 Feb 2022 11:02 am
Operator : CM
Sample : ICAL 8260 005W
Misc : SAMP 8260B_W
ALS Vial : 21 Sample Multiplier: 1

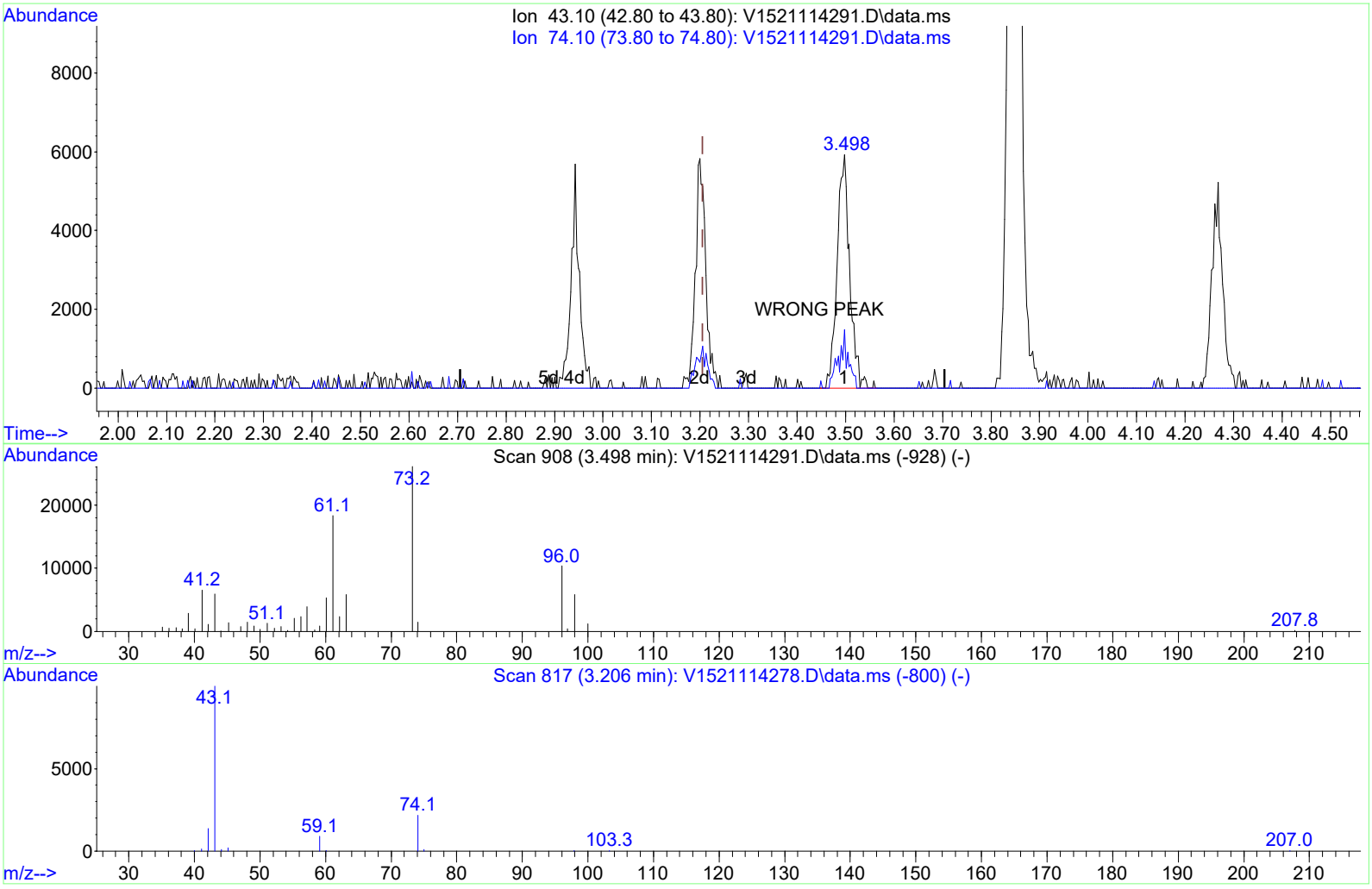
Quant Time: Feb 01 11:52:06 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114291.D
Acq On : 1 Feb 2022 11:02 am
Operator : CM
Sample : ICAL 8260 005W
Misc : SAMP 8260B_W
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 01 11:51:52 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration



TIC: V1521114291.D\data.ms

(14) Methyl acetate

3.498min (+ 0.292) 5.62 µg/L

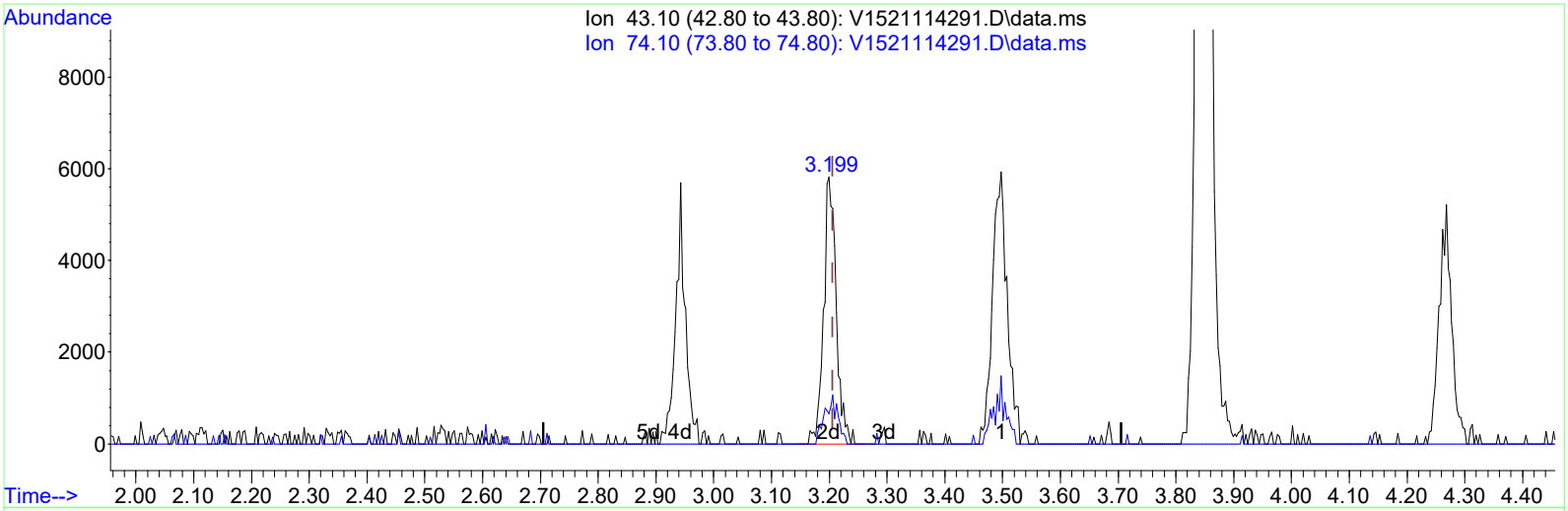
response 10676

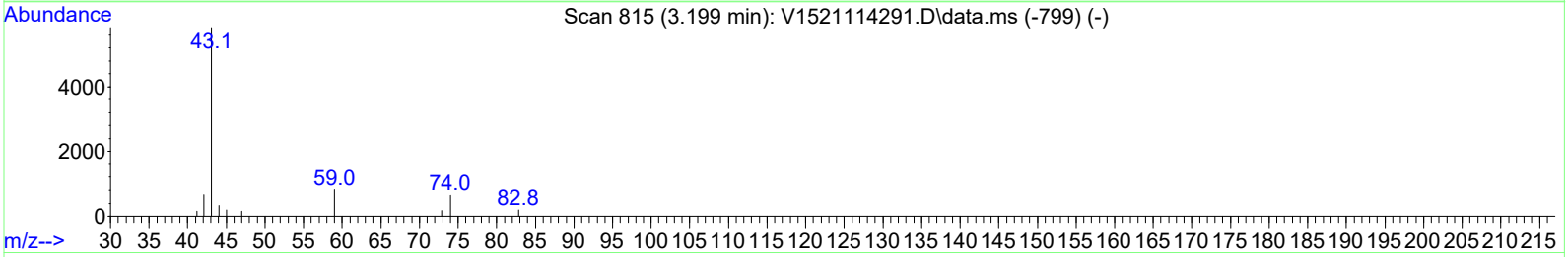
Ion	Exp%	Act%
43.10	100.00	100.00
74.10	21.90	25.10
0.00	0.00	0.00
0.00	0.00	0.00

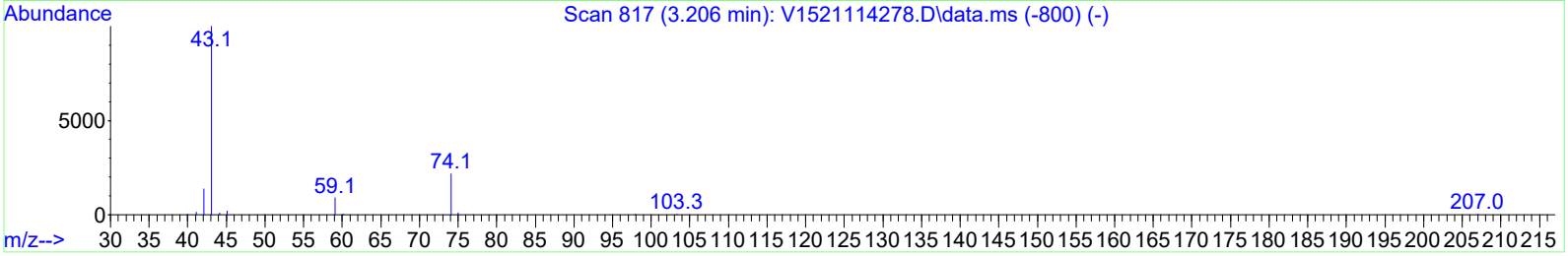
Quantitation Report (Qedit)

Data Path : C:\MS-15\New\Raw Data\220131\
Data File : V1521114291.D
Acq On : 1 Feb 2022 11:02 am
Operator : CM
Sample : ICAL 8260 005W
Misc : SAMP 8260B_W
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 01 11:51:52 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:47:49 2022
Response via : Initial Calibration







TIC: V1521114291.D\data.ms

(14) Methyl acetate

3.199min (-0.007) 4.57 µg/L m

response 8688

Ion	Exp%	Act%
43.10	100.00	100.00
74.10	21.90	11.17#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\MS-15\New\Raw Data\220201\
Data File : V1521114292.D
Acq On : 1 Feb 2022 11:41 am
Operator : CM
Sample : ICV 8260 020W
Misc : BLANK
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 01 11:58:01 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:55:52 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.631	168	428531	50.00	ug/L		0.00
28) 1,4-Difluorobenzene	5.199	114	616206	50.00	ug/L		0.00
46) Chlorobenzene-d5	7.576	117	586386	50.00	ug/L		0.00
60) 1,4-Dichlorobenzene-d4	9.652	152	320979	50.00	ug/L		0.00
System Monitoring Compounds							
29) Dibromofluoromethane	4.618	113	241973	50.44	ug/L		0.00
Spiked Amount 50.000	Range 79 - 127		Recovery = 100.88%				
42) Toluene-d8	6.367	98	778795	49.92	ug/L		0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 99.84%				
59) 4-Bromofluorobenzene	8.600	95	358213	51.38	ug/L		0.00
Spiked Amount 50.000	Range 75 - 127		Recovery = 102.76%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.556	85	100718	19.22	ug/L		96
3) Chloromethane	1.743	50	63256	19.93	ug/L		99
4) Vinyl chloride	1.848	62	65566	18.64	ug/L		96
5) Bromomethane	2.166	94	53070	18.57	ug/L		87
6) Chloroethane	2.243	64	39606	19.15	ug/L		97
7) Trichlorofluoromethane	2.474	101	145523	20.04	ug/L	#	93
8) Acrolein	2.817	56	10157	19.46	ug/L		100
9) 1,1-Dichloroethene	2.901	96	56729	19.29	ug/L		94
10) Freon-113	2.904	101	65739	19.70	µg/L		98
11) Acetone	2.949	58	5862	35.51	ug/L		75
12) Iodomethane	3.036	142	186133	39.21	ug/L		99
13) Carbon disulfide	3.090	76	363161	39.83	ug/L		100
14) Methyl acetate	3.203	43	36001m	19.77	µg/L		
15) Vinyl acetate	3.848	43	221031	40.07	ug/L		96
16) Methylene chloride	3.289	84	74874	20.51	ug/L		95
17) Acrylonitrile	3.482	53	19638	18.36	ug/L	#	91
18) Methyl tert-butyl ether	3.495	73	199052	19.98	µg/L		98
19) trans-1,2-Dichloroethene	3.501	96	63339	20.39	ug/L		89
20) 1,1-Dichloroethane	3.825	63	140844	19.45	ug/L		98
21) 2,2-Dichloropropane	4.268	77	114745	21.76	ug/L		95
22) cis-1,2-Dichloroethene	4.265	96	66205	19.83	ug/L		93
23) 2-Butanone	4.268	72	7770	38.83	ug/L		97
24) Bromochloromethane	4.451	128	28811	19.90	ug/L		85
25) Chloroform	4.493	83	143060	19.40	ug/L		96
26) Cyclohexane	4.698	56	111900	19.22	µg/L	#	95
27) 1,1,1-Trichloroethane	4.650	97	132111	19.81	ug/L		85
30) 1,1-Dichloropropene	4.769	110	28073	20.36	ug/L		98
31) Carbon tetrachloride	4.778	119	98176	20.47	ug/L		97
32) Benzene	4.932	78	244163	20.11	ug/L		98
33) 1,2-Dichloroethane	4.942	62	124500	20.64	ug/L		99
34) Trichloroethene	5.417	130	54042	19.33	ug/L		95
35) Methylcyclohexane	5.571	55	90523	20.32	µg/L		99
36) 1,2-Dichloropropane	5.590	63	66946	20.13	ug/L		96
37) Dibromomethane	5.686	93	39398	20.19	ug/L		91
38) Bromodichloromethane	5.792	83	92513	20.76	ug/L		95
39) 2-Chloroethyl vinyl ether	6.010	63	66042	41.44	µg/L		93
40) cis-1,3-Dichloropropene	6.145	75	98982	20.64	ug/L		97
41) 4-Methyl-2-pentanone	6.254	43	84658	42.82	ug/L		95
43) Toluene	6.424	92	149121	19.80	ug/L		91
44) trans-1,3-Dichloropropene	6.585	75	89559	20.82	ug/L		95
45) 1,1,2-Trichloroethane	6.745	83	42126	20.32	ug/L		97
47) 2-Hexanone	6.931	43	49741	42.89	ug/L		95

Data Path : C:\MS-15\New\Raw Data\220201\
Data File : V1521114292.D
Acq On : 1 Feb 2022 11:41 am
Operator : CM
Sample : ICV 8260 020W
Misc : BLANK
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 01 11:58:01 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:55:52 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) Tetrachloroethene	6.874	166	65246	19.61 ug/L	95
49) 1,3-Dichloropropane	6.890	76	93427	21.01 ug/L	95
50) Dibromochloromethane	7.079	129	49969	20.21 ug/L	95
51) 1,2-Dibromoethane	7.194	107	47270	20.21 ug/L	94
52) Chlorobenzene	7.602	112	157977	20.02 ug/L	99
53) 1,1,1,2-Tetrachloroethane	7.660	131	55083	20.71 ug/L	99
54) Ethylbenzene	7.682	91	298762	20.30 ug/L	99
55) m,p-Xylene	7.778	91	486728	41.35 ug/L	100
56) o-Xylene	8.131	91	252619	21.03 ug/L	98
57) Styrene	8.141	104	170920	21.11 ug/L	99
58) Bromoform	8.321	173	29483	17.07 ug/L	99
61) Bromobenzene	8.748	156	66124	19.53 ug/L	91
62) 1,1,2,2-Tetrachloroethane	8.715	83	61231	20.50 ug/L	94
63) 1,2,3-Trichloropropane	8.770	75	109762	21.40 ug/L	89
64) Isopropylbenzene	8.456	105	274287	20.51 ug/L	100
65) n-Propylbenzene	8.821	91	350376	20.30 ug/L	98
66) trans-1,4-Dichloro-2-b...	8.770	124	6166	40.78 ug/L	86
67) 2-Chlorotoluene	8.914	91	214599	20.65 ug/L	99
68) 4-Chlorotoluene	9.011	91	253947	20.49 ug/L	99
69) 1,3,5-Trimethylbenzene	8.975	105	224025	21.07 ug/L	100
70) tert-Butylbenzene	9.280	119	195470	20.54 ug/L	96
71) 1,2,4-Trimethylbenzene	9.319	105	225358	20.87 ug/L	98
72) sec-Butylbenzene	9.479	105	238516	20.47 ug/L	98
73) 1,3-Dichlorobenzene	9.595	146	113154	20.57 ug/L	97
74) 4-Isopropyltoluene	9.608	119	201656	20.73 ug/L	100
75) 1,4-Dichlorobenzene	9.675	146	112226	19.74 ug/L	99
76) 1,2-Dichlorobenzene	10.025	146	95583	19.65 ug/L	94
77) n-Butylbenzene	9.986	91	178975	20.42 ug/L	97
78) 1,2-Dibromo-3-chloropr...	10.708	75	7710	17.13 ug/L	86
79) 1,2,4-Trichlorobenzene	11.334	180	35368	18.42 ug/L	88
80) Hexachlorobutadiene	11.449	225	18382	18.65 ug/L	94
81) Naphthalene	11.523	128	64346	18.72 ug/L	100
82) 1,2,3-Trichlorobenzene	11.703	180	23163	17.37 ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data File : V1521114292.D
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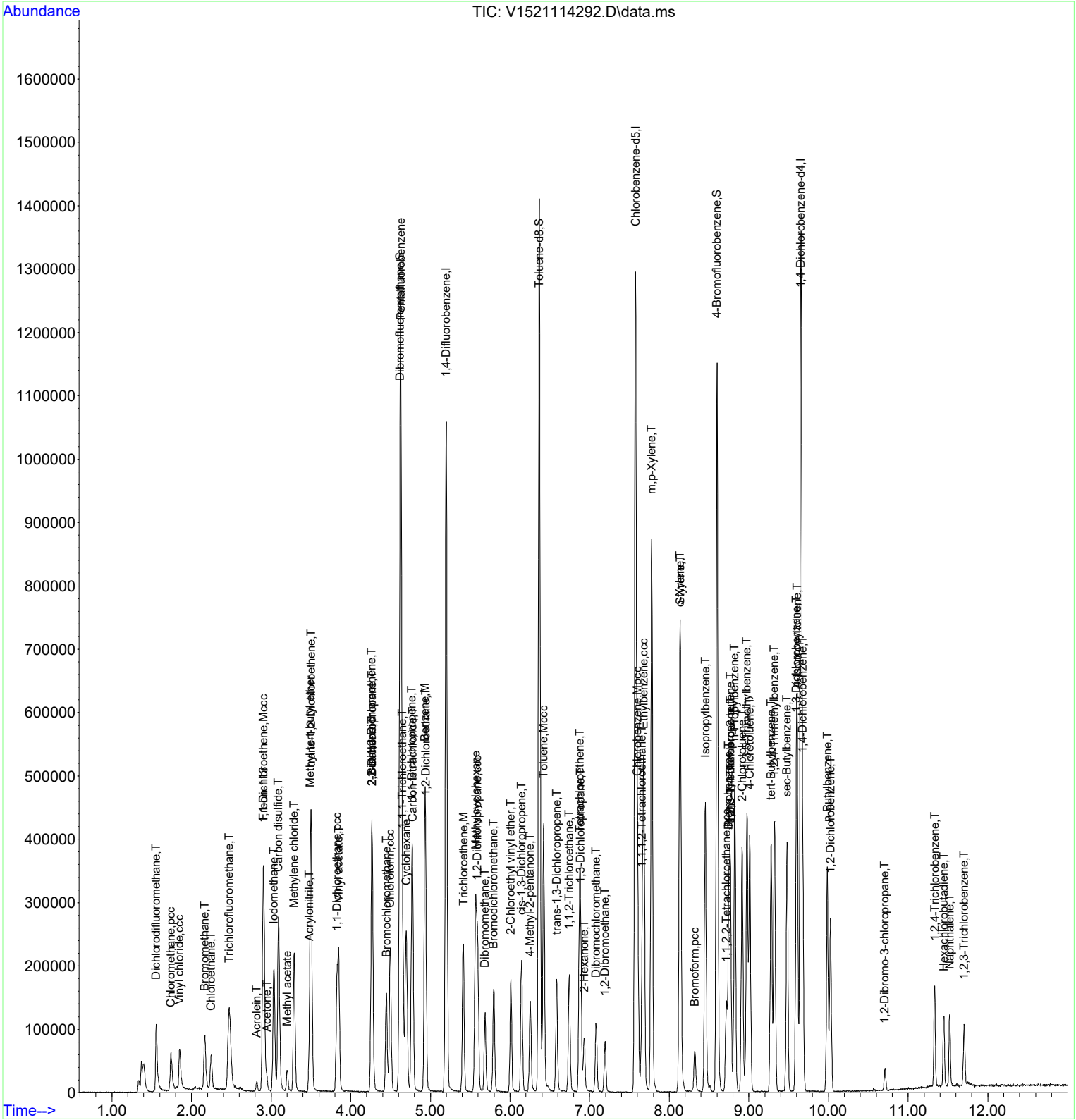
Sample : ICV 8260 020W
Misc : BLANK
ALS Vial : 22 Sample Multiplier: 1

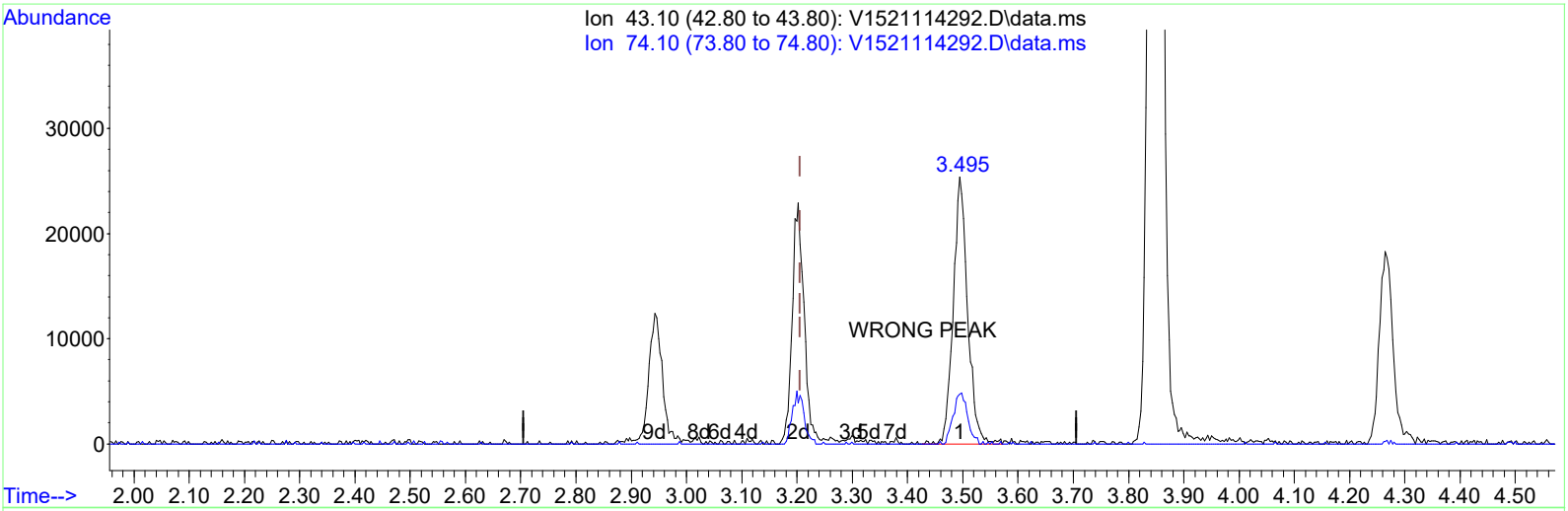
Quant Time: Feb 01 11:58:01 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:55:52 2022
Response via : Initial Calibration

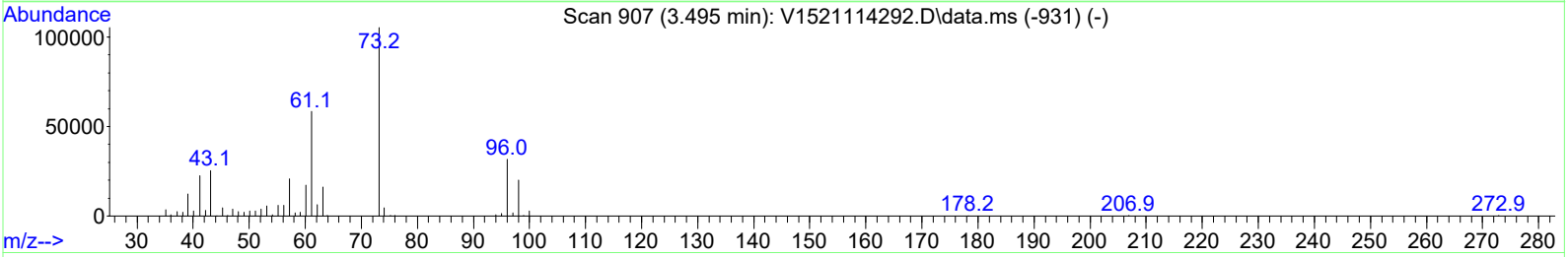


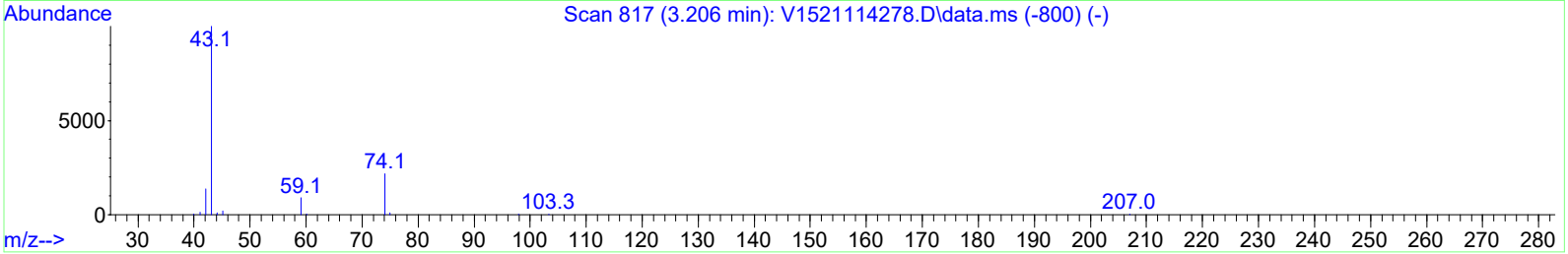
Quantitation Report (Qedit)

Data Path : C:\MS-15\New\Raw Data\220201\
Data File : V1521114292.D
Acq On : 1 Feb 2022 11:41 am
Operator : CM
Sample : ICV 8260 020W
Misc : BLANK
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 01 11:57:19 2022
Quant Method : C:\MS-15\New\Calculation Methods\MS-15_VW013122.M
Quant Title : 8260D/624.1 Purgeable organics calibration.
QLast Update : Tue Feb 01 11:55:52 2022
Response via : Initial Calibration







TIC: V1521114292.D\data.ms

(14) Methyl acetate

3.495min (+ 0.289) 25.15 µg/L

response 45805

Ion	Exp%	Act%
43.10	100.00	100.00
74.10	21.90	18.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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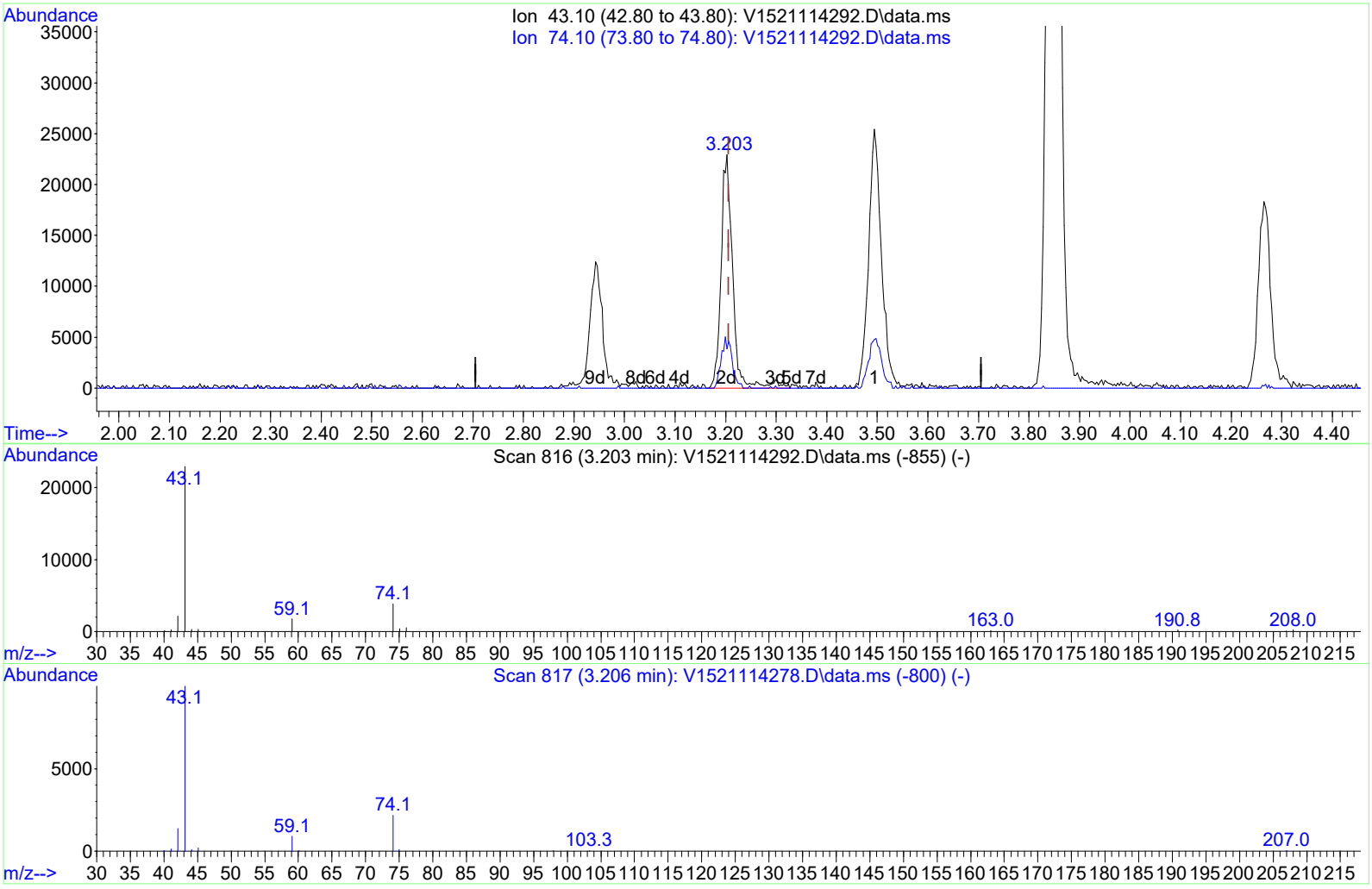

TIC: V1521114292.D\data.ms

(14) Methyl acetate

3.203min (-0.003) 19.77 µg/L m

response 36001

Ion	Exp%	Act%
43.10	100.00	100.00
74.10	21.90	16.84#
0.00	0.00	0.00
0.00	0.00	0.00

Analytical Environmental Services, Inc.

PREP BATCH REPORT

Prep Start Date: **3/2/2022 12:54:00 P**
Prep End Date: **3/3/2022 12:53:00 P**

Prep Batch **331888** Prep Code: **5030** Technician: **Carlos Martinez**

Prep Factor Units: **mL / mL**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
2202M07-006B	LEACHATE		5	0	0	5	1.000	3/2/2022	3/3/2022
The prep HoldTime was exceeded by 0.0861 days.									
2202T19-001A	LEACHATE		5	0	0	5	1.000	3/2/2022	3/3/2022
2202T48-006A	LEACHATE		5	0	0	5	1.000	3/2/2022	3/3/2022
2202U60-001A	LEACHATE		5	0	0	5	1.000	3/2/2022	3/3/2022
2202U65-001A	LEACHATE		5	0	0	5	1.000	3/2/2022	3/3/2022
2202U66-001A	LEACHATE		5	0	0	5	1.000	3/2/2022	3/3/2022
2202V22-001A	LEACHATE		5	0	0	5	1.000	3/2/2022	3/3/2022
2202V22-001ADUP	LEACHATE		5	0	0	5	1.000	3/2/2022	3/3/2022
2202V46-001A	LEACHATE		5	0	0	5	1.000	3/2/2022	3/3/2022
2202W70-001A	LEACHATE		5	0	0	5	1.000	3/2/2022	3/3/2022
2202W70-001AMS	LEACHATE		5	0	0	5	1.000	3/2/2022	3/3/2022
LCS-331888			5	0	0	5	1.000	3/2/2022	3/3/2022
MB-331888	MB-331699		5	0	0	5	1.000	3/2/2022	3/3/2022

End of Data Package