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Remedial Action Contract

Remedial Action
Quarterly Progress Report - Year 1 Quarter 3

Old Roosevelt Field Contaminated Groundwater Area Superfund Site

Remedial Action

Garden City, New York

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CDM Smith

Table of Contents

Section 1 Introduction.....1-1

1.1 Purpose.....1-1
1.2 Background.....1-1

Section 2 Summary of Site Operations.....2-1

2.1 Groundwater Extraction.....2-1
2.2 Treatment Plant.....2-1
2.3 Recharge Basin.....2-2

Section 3 Summary of Monitoring Activities.....3-1

3.1 Process Water Influent and Effluent Sampling.....3-1
3.2 Air Monitoring.....3-3
3.3 Groundwater Level Measurements.....3-3
3.4 Quarterly Groundwater Sampling.....3-4
3.5 Quality Assurance/Quality Control.....3-5

Section 4 Effectiveness of Treatment and Control Systems.....4-1

4.1 Treatment Operations.....4-1
4.2 Specific Problems Incurred and Recommended Solutions.....4-2
4.2.1 VFD Faults.....4-2
4.2.2 Extraction Well Downtime.....4-2

Section 5 References.....5-1

List of Tables

2-1 Summary of Daily Extraction Rates
2-2 Summary of Monthly Extraction and Discharge Rates
2-3 Summary of Quarterly Extraction and Discharge Rates
3-1 Process Sampling Schedule
3-2 Y1Q3 Process Influent Sampling Analytical Results – VOCs and pH
3-3 Y1Q3 Process Influent Sampling Analytical Results – Metals, TKN, TSS, TDS
3-4 Y1Q3 Process Effluent Sampling Analytical Results – VOCs and pH
3-5 Y1Q3 Process Effluent Sampling Analytical Results – Metals, TKN, TSS, TDS
3-6A Synoptic Groundwater Elevation Measurements – Multiport Wells
3-6B Synoptic Groundwater Elevation Measurements – Conventional Wells
3-7 Y1Q3 Groundwater Sampling Analytical Results
3-8 Y1Q3 Groundwater Sampling Water Quality Parameters
3-9 Y1Q3 Trip Blank Sample Analytical Results – Process Sampling
3-10 Y1Q3 Blank Sample Analytical Results – Groundwater Sampling

List of Figures

1-1 Site Location Map
1-2 Site Map
2-1 Multiport Well, Monitoring Well, and Supply Well Locations
2-2 Daily Average Extraction Well Flow Rates
3-1 Groundwater Treatment System Effluent pH Trend Chart
3-2A GWX-10019 Hydrograph
3-2B GWX-10020 Hydrograph
3-2C MW-1S Hydrograph
3-2D MW-1I Hydrograph
3-2E MW-2S Hydrograph
3-2F MW-2I Hydrograph
3-2G MW-3S Hydrograph
3-2H MW-3I Hydrograph
3-2I SVP-5 Port 2 Hydrograph
3-2J SVP-10 Port 2 Hydrograph
3-3 Summary of Analytical Data

Appendices (included on attached CD)

Appendix A New York State Pollutant Discharge Elimination System for Discharge to Groundwater Permit Equivalent
Appendix B Y1Q3 Monthly Operation and Maintenance Summary Reports
Appendix C Y1Q3 Data Quality Assessment

List of Acronyms

µg/L	micrograms per liter
1,1-DCE	1,1-dichloroethene
Arrowhead	Arrowhead Contracting, Inc.
bgs	below ground surface
CDM Smith	CDM Federal Programs Corporation
cis-1,2-DCE	cis-1,2-dichloroethene
COC	contaminant of concern
DESA	Division of Environmental Science and Assessment
EPA	United States Environmental Protection Agency
gpm	gallons per minute
ITP	Initial Testing Program
msl	mean sea level
NYSDEC	New York State Department of Environmental Conservation
O&M	operation and maintenance
PCE	tetrachloroethene
PEQ	permit equivalent
PID	photoionization detector
PLC	programmable logic controller
QA	quality assurance
QAPP	Quality Assurance Project Plan
QC	quality control
RA	Remedial Action
RAC2	Remedial Action Contract 2
RI	Remedial Investigation
ROD	Record of Decision
SPDES-DGW	State Pollutant Discharge Elimination System for Remediation Discharges to Groundwater
SU	standard unit
TCE	trichloroethene
U.S.	United States
VOC	volatile organic compound
Y1Q1	Year 1 Quarter 1
Y1Q2	Year 1 Quarter 2
Y1Q3	Year 1 Quarter 3

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Section 1
Introduction

This Remedial Action (RA) Progress Report presents a summary of operations and monitoring activities at the Old Roosevelt Field Contaminated Groundwater Area Superfund Site (the Site) during the Year 1 Quarter 3 (Y1Q3) period. This report also presents groundwater monitoring results and an evaluation of the effectiveness of the existing groundwater extraction, treatment, and recharge system, which was constructed to hydraulically control and remediate the contaminated groundwater plume. The Y1Q3 reporting period is from August 1st to September 30th, 2012. The Y1Q3 reporting period was shortened to two months to account for the one-month extension of the Year 1 Quarter 1 (Y1Q1) reporting period (January 1st through April 30th, 2012).

This report was prepared by CDM Federal Programs Corporation (CDM Smith) pursuant to Subtask 9.3 of the Work Plan for the Environmental Protection Agency (EPA) Remedial Action Contract 2 (RAC2), Region 2, Work Assignment 023-RARA-02PE. CDM Smith performed the quarterly groundwater monitoring program in accordance with the approved Quality Assurance Project Plan (QAPP) (CDM Smith 2010). Operation, maintenance, and process sampling of the groundwater treatment system was performed by CDM Smith's RA subcontractor, Arrowhead Contracting, Inc. (Arrowhead), under CDM Smith's direction.

1.1 Purpose

This RA Progress Report is presented in support of the following objectives:

- Confirm achievement of remedial system performance requirements, as specified in the RA subcontract documents (i.e., specifications, drawings, approved RA subcontractor submittals)
- Provide data for assessing RA progress and to support decisions regarding treatment system operations and maintenance (O&M) and optimization
- Confirm compliance with the New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) for Discharge to Groundwater (DGW) permit equivalent (PEQ) requirements (Appendix A)

At this time, a sufficient quantity of analytical data has not been collected for analysis of contaminant concentration trends. Therefore, this report presents data only. In the first Annual RA Progress Report, mass removal rates and cumulative mass removal will be calculated and presented. Additionally, a capture zone analysis for the extraction wells will be presented to assess hydraulic capture of the contaminant plume, as well as an evaluation of extraction well efficiency over time.

1.2 Background

The Site is comprised of an area of groundwater contamination spanning across several properties within the Village of Garden City, in central Nassau County, New York. Shown in Figures 1-1 and 1-2 the Site is located on the eastern side of Clinton Road, south of the intersection with Old Country

Road. It includes a thin strip of open space along Clinton Road (known as Hazelhurst Park), a large retail shopping mall with a number of restaurants, and a movie theater. Several office buildings share parking spaces with the shopping mall. Village of Garden City water supply wells (GWP-10 and GWP-11) and two stormwater recharge basins are located in the immediate vicinity of the Site. The Pembrook recharge basin, to the east, is situated on property owned by the mall. The recharge basin to the south is Nassau County storm water basin #124.

The Site was historically used for aviation activities from 1911 to 1951 by the United States (U.S.) military and commercial aviation companies. The Site was historically known as "Hempstead Plains Field" until 1918 when the U.S. Army changed the name to "Roosevelt Field." Soon after the aviation facilities were closed in 1951, further development was planned. The Roosevelt Field Shopping Center was constructed at the Site and opened in 1957. The Village of Garden City installed supply wells GWP-10 and GWP-11 in 1952, at what had been the southwest corner of the former airfield. These two wells were put into service in 1953. Over the following years, several other supply wells and cooling water wells were installed and operated at the former Roosevelt Field. In the late 1970s and early 1980s, investigations conducted by Nassau County found contaminants TCE and PCE in supply wells GWP-10 and GWP-11. High levels of contamination also were found in cooling water wells at the Site. The Site was listed on the National Priority List on May 11, 2000.

From June 2005 to December 2006, under the EPA RAC2, CDM Smith performed a remedial investigation (RI) at the Site (CDM Smith 2007a) to investigate the extent of groundwater contamination and to characterize the site geology and hydrogeology settings. The Site-related contaminants of concern (COCs) were identified during the RI, including trichloroethene (TCE), tetrachloroethene (PCE), cis-1,2-dichloroethene (cis-1,2-DCE), 1,1-dichloroethene (1,1-DCE), and carbon tetrachloride.

A Focused Feasibility Study was subsequently carried out by CDM Smith (CDM Smith 2007b). On September 28, 2007, a ROD was issued for the Site calling for the following (EPA 2007):

- Extraction of contaminated groundwater followed by ex-situ treatment and discharge of treated water to a nearby recharge basin
- Installation of vapor mitigation systems at commercial buildings (if necessary)
- Evaluation of the wellhead treatment at two Garden City supply wells
- Implementation of institutional controls
- Development of a site management plan
- Long-term monitoring
- Five-year reviews

The ROD specified the cleanup criteria for each of the five Site-related COCs (TCE, PCE, cis-1,2-DCE, 1,1-DCE, and carbon tetrachloride) as 5 micrograms per liter (µg/L).

In September 2009 CDM Smith completed the Remedial Design (RD) consisting of a groundwater extraction and ex-situ treatment system to achieve hydraulic control of the volatile organic compound (VOC) source area and remediate the plume (CDM Smith 2009). The RA was completed in December 2011 including installation of three extraction wells, construction of a water treatment plant, and a discharge outfall to recharge basin 124 (Figure 1-2). O&M of the remedy is ongoing. The remedy is subject to a SPDES-DGW PEQ, which conveys to EPA the applicable provisions of the Water Pollution Control Act and NYSDEC regulations.

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Section 2

Summary of Site Operations

2.1 Groundwater Extraction

The groundwater extraction system consists of three extraction wells, EW-1S, EW-1I, and EW-1D, located in a cluster on the western border of the property at 300 Garden City Plaza, as shown on Figure 2-1. These extraction wells were installed with the objective to achieve hydraulic control and capture of contaminant plume at the Site. Screened intervals for extraction wells EW-1S, EW-1I, and EW-1D are -125 to -185 feet above mean sea level (msl) (210 to 270 feet below ground surface [bgs]), -195 to -255 feet msl (280 to 340 feet bgs), and -265 to -325 feet msl (350 to 410 feet bgs), respectively. Design pumping rates for EW-1S, EW-1I, and EW-1D are 60 gallons per minute (gpm), 60 gpm, and 80 gpm, respectively. Site operations, including groundwater extraction, began on January 1, 2012 after completion of the Initial Testing Program (ITP).

During Y1Q3, extraction well EW-1S operated at an average flow rate of 60 gpm, extraction well EW-1I operated at an average flow rate of 58 gpm, and extraction well EW-1D operated at an average flow rate of 120 gpm. The average flow rate for each extraction well was computed by dividing total volume extracted during the operational period by total well pump operating time. However, it should be noted that EW-1I was taken offline during Y1Q2 on June 5th due to an observed decrease in flowrate, and EW-1I remained offline during Y1Q3 until September 26th. A detailed discussion of downtime for EW-1I is provided in Section 4.2.2. An evaluation of extraction well efficiency over time will be presented in the Annual RA Progress Report.

All water was treated via air stripping and discharged to stormwater recharge basin #124. Tables 2-1, 2-2, and 2-3 summarize daily, monthly, and quarterly extraction rates for the reporting period, respectively. A graphical depiction of daily average extraction well flow rates throughout Y1Q3 is provided as Figure 2-2.

2.2 Treatment Plant

The treatment plant is designed for removal of VOCs. It includes an influent tank, duplex bag filtration system to remove suspended solids, air stripper to remove VOCs, and chemical metering system for pH adjustment prior to discharge. The treatment plant is capable of continuously treating a maximum of 250 gpm. O&M of the treatment plant and recharge basin is conducted by Arrowhead.

The process treatment system was non-operational for maintenance purposes on several occasions throughout the operational period, totaling approximately 4.83 days, which equates to an operational uptime of 92.1%. This meets the 90% minimum system uptime performance requirement of the contract specifications. A detailed discussion of system downtime is provided in Section 4.

2.3 Recharge Basin

The treated effluent from the air stripper is pumped into an existing storm sewer structure located along Clinton Road via an underground 4-inch high-density polyethylene effluent pipe. The storm water is conveyed from the storm sewer structure southward to Nassau County storm water basin #124. The recharge basin is located approximately 800 feet south of the treatment facility. The recharge basin's dimensions are approximately 400-feet by 400-feet by 10-feet deep.

Monthly and quarterly discharge estimates to the recharge basin are presented Tables 2-2 and 2-3, respectively.

Section 3

Summary of Monitoring Activities

3.1 Process Water Influent and Effluent Sampling

The influent to and effluent from the treatment plant were sampled during Y1Q3 in accordance with the requirements of the SPDES-DGW PEQ, issued by NYSDEC on June 2, 2010. A copy of the SPDES-DGW PEQ is provided as Appendix A. Sampling frequencies for the individual extraction wells (EW-1S, EW-1I, and EW-1D), combined influent, and effluent are summarized in Table 3-1 for each analysis utilized.

Samples were collected for the following analyses:

- Target Compound List VOCs using EPA Method 524.2
- Oil and Grease using EPA Method 1664A
- Target Analyte List metals using EPA Method 200.7
- Mercury using EPA method 245.1
- Nitrate + nitrite (as N) using EPA Method 353.2
- Total dissolved solids using EPA Method 2540C
- Total suspended solids using EPA Method 2540D

In August 2012, process samples, including quality assurance/quality control (QA/QC) samples, were analyzed and validated by the Division of Environmental Science and Assessment (DESA) laboratory. In September 2012, VOC analyses were performed by Shealy Environmental Services, Inc., metals and mercury analyses were performed by Test America Laboratories, Inc., and all other analyses were performed by DESA. September 2012 samples were validated by DESA or EPA's subcontractor.

Oil & Grease samples were collected for combined influent during February, March, May, and June of 2012. Oil & Grease was not detected in any combined influent samples, and was therefore not monitored during Y1Q3.

The SPDES-DGW PEQ requires monitoring for total cyanide on a quarterly basis. No sample was collected for cyanide during the period documented in this report (August and September of 2012). A sample for cyanide was collected and analyzed in October 2012 to meet the third-quarter sampling requirement for the SPDES-DGW PEQ. This sample will be documented in the Annual RA Progress Report.

Process Water Influent

Process system influent sample results for Y1Q3 are compared to the ROD cleanup criteria in Tables 3-2 and 3-3. All influent samples exhibited concentrations greater than the ROD groundwater cleanup criteria for TCE and PCE, specified as 5 µg/L for each compound. Additionally, with the exception of the sample collected from EW-1S on September 11, 2012, all influent samples exhibited concentrations greater than the ROD groundwater cleanup criteria of 5 µg/L for cis-1,2-DCE. Carbon tetrachloride and 1,1-DCE were not detected above the ROD groundwater cleanup criteria (5 µg/L for each compound) in any influent samples.

Consistent with historic results, TCE and PCE exhibited the highest concentrations. TCE concentrations ranged from 79 µg/L (EW-1D) to 150 µg/L (EW-1S), and PCE concentrations ranged from 18 µg/L (EW-1S) to 140 µg/L (EW-1D). Cis-1,2-DCE was reported at concentrations ranging from 4.7 µg/L (EW-1S) to 8 µg/L (EW-1D). Extraction well EW-1I was offline during Y1Q3 (as discussed in Section 4.2.2), which historically has exhibited the highest concentrations of PCE and cis-1,2-DCE.

At this time, a sufficient quantity of analytical data has not been collected to establish contaminant concentration trends. An evaluation will be conducted after the completion of additional sampling.

Process Water Effluent

Process system effluent sample results for Y1Q3 are compared to the PEQ criteria in Tables 3-4 and 3-5. Y1Q3 effluent samples did not exhibit concentrations greater than the PEQ criteria for any of the parameters listed in the SPDES-DGW PEQ.

TCE was detected above the detection limit of 0.5 µg/L in the samples collected on August 15th (3.0 µg/L) and August 22nd (3.5 µg/L), and PCE was detected above the detection limit of 0.5 µg/L in the samples collected on August 15th (1.9 µg/L) and August 22nd (2 µg/L). On September 11th, TCE was detected in the effluent sample at an estimated concentration of 0.31 µg/L. No other detections of TCE or PCE were observed in September. Copper, zinc, nitrite + nitrate (as N), and total dissolved solids were all detected in the effluent samples at concentrations below the PEQ criteria.

Effluent TCE and PCE concentrations began a gradual rise starting in May 2012. In early September 2012, the treatment system was inspected to determine the cause of the rise in VOC effluent concentrations. It was determined that clogging of the screen on the blower air intake was restricting airflow into the air stripper, thereby reducing VOC removal efficiency. The screen was replaced and reduced VOC effluent concentrations were achieved.

pH Monitoring

Continuous pH monitoring was performed during the reporting period to ensure that effluent was within the PEQ range of 6.5 to 8.5 standard units (SU). Effluent pH was within the PEQ-required range for the entire reporting period, with a minimum pH of 6.81 SU, and a maximum pH of 7.12 SU. A trend chart presenting the continuous pH effluent readings is provided as Figure 3-1. Manual pH readings measured at the time of process sample collection are presented in Tables 3-2 and 3-4. Manual readings indicated that all influent samples were below 6.5 SU; however, air stripping raised the pH of

influent process water to within the permit limits prior to discharge without the need for chemical addition, as discussed in Section 4.1.

3.2 Air Monitoring

In accordance with NYSDEC regulation 6 NYCRR Subpart 201-3.3, air strippers at a Superfund site are considered trivial activities, and the owner and operator of such trivial activities are exempt from obtaining an NYSDEC air pollution control State Facility permit. However, the owner and/or operator of an exempt source is required to certify that it is properly operated, and must maintain on-site records. Therefore, the discharge of toxic air pollutants, such as PCE and TCE, needs to meet the regulatory requirements specified in the NYSDEC Air Toxics Program.

Based on modeling performed during design of the treatment system, and sampling of effluent during treatment system startup, it has been determined that VOC concentrations in the air stripper effluent are far below applicable short-term or annual guidance concentrations. During the reporting period, photoionization detector (PID) readings were collected from the air stripper effluent stack on a weekly basis to monitor VOC emissions. PID measurements are reported in the monthly O&M Reports, provided as Appendix B.

Monthly samples of discharge air were collected during Y1Q3 from the air stripper effluent stack to confirm that the emission rate was in compliance with the State criteria for total VOCs of 25 tons/year. Samples were analyzed for VOCs in accordance with EPA Method TO-15. Samples were collected on August 25th and September 26th; sample results indicated emission rates of 0.22 tons/year and 0.18 tons/year, respectively. These results are well below the State criteria. Air sampling results are provided in Arrowhead's O&M Reports, included as Appendix B.

3.3 Groundwater Level Measurements

Synoptic groundwater level measurements are performed quarterly for multi-port wells SVP-2, SVP-3, SVP-4, SVP-5, SVP-9, SVP-10, and SVP-11. Measurements were performed in Ports 1-10 of each of these wells except for SVP-3 where only ports 1-7 were measured. During Y1Q3, additional water level measurements were collected at MW-1S, MW-1I, MW-2S, MW-2I, MW-3S, and MW-3I. These additional water level measurements were collected by request of the Nassau County Department of Public Works to aid in their performance of a regional groundwater study, as was approved by EPA. Figure 2-1 depicts the locations of all wells associated with the Site. All multiport well port depths and groundwater elevations are shown on Table 3-6A. All conventional monitoring well groundwater elevations are shown on Table 3-6B.

Groundwater levels during pre-remedial operations indicated a horizontal groundwater flow to the south. Pre-remedial operations water level elevation data collected from the multiport wells indicated that the vertical groundwater flow was downward. Further to the south, the vertical gradients became greater (CDM Smith 2009).

Groundwater level measurements for Y1Q3 were collected on September 26th (multiport wells) and 27th (conventional wells). Consistent with data collected since the onset of remedial operations, Y1Q3 results indicate that groundwater elevations in the vicinity of the extraction wells were affected by

pumping. Site-wide groundwater level elevations increased between Y1Q2 and Y1Q3 with differences ranging from -2.54 feet (SVP-2 port 10) to 1.76 feet (SVP-11 port 1). In general, larger groundwater elevation increases were observed as port depth increased in the multiport wells. The largest elevation differences were observed in SVP-11 which is located south of the extraction wells, and SVP-10 which is located in the immediate vicinity of the extraction wells. This is likely attributable to decreased pumping demand of Garden City water supply wells GWP-10 and GWP-11 after the peak summer months. EW-1I was offline for maintenance during collection of the Y1Q3 groundwater level measurements.

Continuous groundwater measurements were recorded by transducers in wells GWX-10019, GWX-10020, MW-01S, MW-01I, MW-02S, MW-02I, MW-03S, MW-03I, SVP-5 port 2, SVP-10 port 2. Figures 3-2A through 3-2J show hydrographs of the water levels during the reporting period in feet msl. In general, the dominant influence on groundwater levels Site-wide is the pumping of municipal wells GWP-10 and GWP-11. Groundwater levels in Site wells followed a general upward trend. There are also several brief periods during which groundwater levels sharply rose. These periods generally correspond to precipitation events. Constant fluctuations in the water levels depicted on the hydrographs can be attributed to normal, diurnal fluctuations in water levels.

3.4 Quarterly Groundwater Sampling

Quarterly groundwater samples were collected from ports 2-7 of multi-port monitoring well SVP-4, ports 1-7 of multi-port well SVP-10, and from wells GWX-10019, MW-01S, and MW-01I. The location of each well is shown in Figure 2-1. All groundwater samples were sent to the Shealy Environmental Services, Inc. laboratory for VOC analysis using EPA Method 524.2. Analytical results are presented in Table 3-7 with exceedances of the ROD cleanup criteria highlighted. Water quality parameters including pH, dissolved oxygen, oxidation-reduction potential, specific conductivity, temperature, and turbidity were recorded during groundwater sampling. Water quality parameter data at the time of sampling are presented in Table 3-8.

Concentrations above the ROD cleanup criteria were observed in all groundwater samples with the exception of the sample from port 6 of SVP-10. TCE and PCE were the most frequently detected compounds, and exhibited the highest concentrations. A summary of exceedances of the ROD cleanup criteria for each well is provided below:

- **GWX-10019** – GWX-10019 is a Nassau County monitoring well located west of the Garden City Plaza office complex and is screened from -137.5 to -142.5 feet msl (223 to 228 feet bgs). TCE and cis-1,2-DCE exceeded their cleanup criteria at 20 µg/L and 36 µg/L, respectively.

- **MW-1S and MW-1I** – MW-1S and MW-1I are located in a cluster east of 400 Garden City Plaza; MW-1S is screened from -148.7 to -158.7 feet msl (235 to 245 feet bgs), and MW-1I well is screened from -218.5 to -228.5 feet msl (305 to 315 feet bgs). At MW-1S, TCE was detected at 150 µg/L. In MW-1I, TCE, PCE, and cis-1,2-DCE exceeded their criteria at 240 µg/L, 20 µg/L, and 18 µg/L, respectively.

- **SVP-4** – SVP-4 is located west of 200 Garden City Plaza. Samples were collected from ports 2 through 7. Port elevations are shown on Table 3-6A. PCE exceeded its criterion in all ports with

concentrations ranging from 13 µg/L (port 7) to 100 µg/L (port 4). TCE exceeded its criterion in all ports with concentrations ranging from 7.9 µg/L (port 2) to 48 µg/L (port 7).

- **SVP-10** – SVP-10 is located on the west side of the Garden City Plaza office complex (near existing well GWX-10019). Samples were collected from ports 1 through 7. Port elevations are shown on Table 3-6A. TCE exceeded the ROD cleanup criterion in 6 ports, with concentrations ranging from 14 µg/L (port 1) to 700 µg/L (port 2). PCE exceeded its criterion in 4 ports, with concentrations ranging from 21 µg/L (port 2) to 420 µg/L (port 3). Cis-1,2-DCE exceeded its criterion in 5 ports, with concentrations ranging from 7 µg/L (port 1) to 63 µg/L (port 2).

At this time a sufficient quantity of analytical data has not been collected for evaluation of contaminant concentration trends. In general, comparable results to the RA baseline sampling, Y1Q1 sampling, and Y1Q2 sampling were observed at GWX-10019, MW-1I, and SVP-4. However, at MW-1S and SVP-10 significant fluctuations in contaminant concentrations were observed:

- MW-1S – The baseline sampling results for TCE, PCE, and cis-1,2-DCE were 340 µg/L, 2.3 µg/L and 5.7 µg/L, respectively. No VOCs were detected in the Y1Q1 or Y1Q2 samples. During Y1Q3, TCE and PCE concentrations returned to levels comparable to the baseline sampling results (150 µg/L for TCE, and 1.7 µg/L for PCE).

- SVP-10 - TCE concentrations between Y1Q1 and Y1Q3 increased from 22 µg/L to 310 µg/L in port 4, and from 69 µg/L to 350 µg/L in port 5. During the baseline RA sampling PCE concentrations at ports 4 and 5 were 12 µg/L and 4.1 µg/L, respectively. After the onset of remedial operations, PCE concentrations in ports 4 and 5 spiked to 390 µg/L and 350 µg/L in Y1Q1, respectively, and have since dropped to 120 µg/L and 34 µg/L in Y1Q3, respectively.

A box map presenting the baseline RA and quarterly sampling data for TCE and PCE is provided as Figure 3-3.

3.5 Quality Assurance/Quality Control

Y1Q3 process, groundwater, and QA/QC samples were validated by the DESA laboratory or EPA's validation subcontractors. CDM Smith completed the Data Quality Assessment for quarterly process and groundwater sample data to determine whether they meet the quality objectives and user requirements outlined in the Old Roosevelt Field Final QAPP (CDM Smith 2010). The Data Quality Assessment is provided as Appendix C. All data from Y1Q3 are considered usable with the data validation qualifiers added. None of the sample results were rejected. QA/QC samples collected during the Y1Q3 sampling activities included trip blanks and field blanks, and field duplicates.

Groundwater treatment process samples were collected by Arrowhead. Trip blanks were collected at a minimum frequency of one per shipment and analyzed for VOCs. The trip blank results associated with groundwater treatment process samples are included in Table 3-9. Field blanks were not collected in association with the groundwater treatment process samples because samples were collected directly from the sample ports. Duplicate groundwater samples are required at a minimum frequency of five percent for process sample collection; no field duplicates were needed during the sampling events in Y1Q3 to fulfill this requirement.

Quarterly groundwater samples were collected by CDM Smith. Trip blanks were collected at a minimum frequency of one per shipment, and field blanks were collected at a minimum frequency of one per decontamination event during the Y1Q3 groundwater sampling event. Trip blanks and field blanks were analyzed for VOCs. The trip and field blank results are included in Table 3-10. Duplicate groundwater samples were required at a minimum frequency of five percent, resulting in the collection of one duplicate sample for SVP-4-5, coded as SVP-104-5. The field duplicate sample results are included within the quarterly groundwater sampling results (Table 3-7).

The process trip blank sample on September 11th exhibited a low estimated detection of chloromethane (0.27 µg/L), and the process trip blank sample on September 26th exhibited low estimated detections of chloromethane (0.19 µg/L) and TCE (0.084 µg/L). Chloromethane was not detected in any of the process samples, and is believed to be a laboratory contaminant. No VOCs were detected in any other trip blank samples, or any of the field blank samples. All field and trip blanks were below the contract-required quantitation limit.

Section 4

Effectiveness of Treatment and Control Systems

4.1 Treatment Operations

The information presented in this Quarterly Progress Report shows that the treatment system is operating as designed. Effluent concentrations of all analytes were below effluent discharge criteria in all monthly samples in accordance with the SPDES-DGW PEQ requirements. Full-scale operations during the reporting period demonstrate that the recharge basin has sufficient capacity to recharge the treated effluent at the current flow rate.

During the 61-day Y1Q3 period, the process system was non-operational for maintenance purposes on several occasions totaling a time of approximately 4.83 days. This equates to an operational uptime of 92.1% over Y1Q3.

During the month of August, the plant experienced 0 hours of planned shutdown time and 37 hours of unplanned shutdown time, resulting in an operational uptime of 95.0% for the month.

- On August 15th, a high level alarm in the storm sewer manhole used for effluent discharge resulted in a plant shutdown. The high level alarm was the result of a brief heavy rainfall that flooded Clinton Road and the storm drain. After the water receded the plant was restarted with no other alarm conditions noted.

During the month of September the plant operated with 2 hours of planned shutdown time and 77 hours of unplanned shutdown time, resulting in an operational uptime of 89.1% for the month.

- During the month of September, the plant experienced multiple shutdowns due to electrical faults of the variable frequency drives (VFDs) for transfer pumps P-1 and P-2. VFD electrical faults are discussed in detail in Section 4.2.1.
- On September 26th, the system was shut down for cleaning of the y-strainers for each extraction well, as discussed Section 4.2.2.

During Y1Q3, treatment plant effluent pH was within the PEQ range of 6.5 to 8.5 SU without the need for adjustment using sodium hydroxide (caustic). A caustic injection system was installed as part of the RD based on pH levels from the extraction wells, which are below the discharge criteria. However, operational data indicate that the pH change as a result of air stripping, an anticipated result, is sufficient to meet the PEQ discharge requirements. Continuous pH monitoring is performed to ensure that the treatment plant effluent remains within the PEQ range, and the caustic system is set to automatically operate if needed. During Y1Q3, no additional pH adjustment was required beyond the air stripper, and the caustic injection system was not triggered. Continuous pH monitoring results are discussed in Section 3.1.

4.2 Specific Problems Incurred and Recommended Solutions

4.2.1 VFD Faults

During September, the plant experienced multiple shutdowns due to electrical faults of the VFDs for transfer pumps P-1 and P-2. Variations in service voltage supplied by the Long Island Power Authority resulted in the VFD faults. Faults occurred primarily during periods of peak electrical demand (early afternoon). Faults are automatically trigged at the VFDs as a safety feature of to prevent damage to the units. These faults require a reset from the local VFD panel prior to restarting the plant. The operator cannot access the VFD panel via remote communication and must be physically present at the plant to perform a system restart.

During Y1Q2, Arrowhead investigated a solution to the problem with the VFD manufacturer (Allen-Bradley) (CDM Smith 2012). Several VFD settings were modified and the common mode jumper was removed from each drive. Neither change resulted in elimination of VFD faults. Allen-Bradley recommended the installation of a 3% impedance input line reactor for each drive. Impedance input line reactors need to be sized for each VFD, and the VFDs will be replaced as a part of Southern Plume RA construction. Therefore, impedance input line reactors have not been installed at this time.

4.2.2 Extraction Well Downtime

Extraction well EW-1I was taken offline on June 5th, 2012 to investigate the reduced flow rate observed by the plant operators. Several investigations, tests, and attempted corrective actions were performed during Y1Q2, as discussed in the Y1Q2 Quarterly Progress Report (CDM Smith 2012).

On September 26th, 2012, Arrowhead inspected the y-strainer in the well vault at EW-1I to assess blockage that might result in the lack of flow. Arrowhead found a large build-up of iron in the screen which was determined to be the reason for the lack of flow from the well. The screen was cleaned using DPA solution and the pump was returned to service. In the process of removing the screen, the plug for the y-strainer was damaged. Arrowhead took the plug out of the EW 1S y-strainer to use in EW-1I until a replacement part arrives. Arrowhead also found iron buildup in EW-1S and EW-1D. The screens for both wells were cleaned. Extraction wells EW-1D and EW-1I were returned to service, and EW-1S remained offline for the remainder of the month while a new plug was ordered for its y-strainer.

Section 5

References

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Table 2-1
Summary of Daily Extraction and Discharge Rates
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, New York

Extraction Well	EW-1D			EW-1I			EW-1S			Combined Influent/Effluent
Date and Time	Daily Total Extraction (gallons)	Operational Average Flowrate (gpm)	Daily Operating Time (hours)	Daily Total Extraction (gallons)	Operational Average Flowrate (gpm)	Daily Operating Time (hours)	Daily Total Extraction (gallons)	Operational Average Flowrate (gpm)	Daily Operating Time (hours)	Daily Total Extraction (gallons)
Wednesday, 8/1/2012	172,780	120	24	NA	NA	NA	86,390	60	24	259,170
Thursday, 8/2/2012	172,700	120	24	NA	NA	NA	86,350	60	24	259,050
Friday, 8/3/2012	132,920	120	18	NA	NA	NA	66,460	60	18	199,380
Saturday, 8/4/2012	172,640	120	24	NA	NA	NA	86,320	60	24	258,960
Sunday, 8/5/2012	130,966	116	19	NA	NA	NA	65,480	58	19	196,446
Monday, 8/6/2012	130,326	122	18	NA	NA	NA	65,166	61	18	195,492
Tuesday, 8/7/2012	111,250	111	17	NA	NA	NA	55,628	56	17	166,878
Wednesday, 8/8/2012	172,580	120	24	NA	NA	NA	86,290	60	24	258,870
Thursday, 8/9/2012	172,020	119	24	NA	NA	NA	86,018	60	24	258,038
Friday, 8/10/2012	172,054	119	24	NA	NA	NA	86,030	60	24	258,084
Saturday, 8/11/2012	171,966	119	24	NA	NA	NA	85,984	60	24	257,950
Sunday, 8/12/2012	172,640	120	24	NA	NA	NA	86,320	60	24	258,960
Monday, 8/13/2012	170,368	119	24	NA	NA	NA	85,184	60	24	255,552
Tuesday, 8/14/2012	172,940	126	23	NA	NA	NA	86,470	63	23	259,410
Wednesday, 8/15/2012	155,424	119	22	NA	NA	NA	77,720	60	22	233,144
Thursday, 8/16/2012	172,700	120	24	NA	NA	NA	86,350	60	24	259,050
Friday, 8/17/2012	172,016	119	24	NA	NA	NA	86,006	60	24	258,022
Saturday, 8/18/2012	172,108	120	24	NA	NA	NA	86,054	60	24	258,162
Sunday, 8/19/2012	165,210	116	24	NA	NA	NA	82,602	58	24	247,812
Monday, 8/20/2012	172,640	120	24	NA	NA	NA	86,320	60	24	258,960
Tuesday, 8/21/2012	171,904	119	24	NA	NA	NA	85,952	60	24	257,856
Wednesday, 8/22/2012	171,882	119	24	3,241	12	5	85,940	60	24	261,063
Thursday, 8/23/2012	161,964	117	23	NA	NA	NA	80,982	59	23	242,946
Friday, 8/24/2012	172,016	119	24	NA	NA	NA	86,014	60	24	258,030
Saturday, 8/25/2012	172,660	120	24	NA	NA	NA	86,330	60	24	258,990
Sunday, 8/26/2012	155,202	109	24	NA	NA	NA	77,610	55	24	232,812
Monday, 8/27/2012	172,640	120	24	NA	NA	NA	86,320	60	24	258,960
Tuesday, 8/28/2012	173,078	120	24	NA	NA	NA	86,516	60	24	259,594
Wednesday, 8/29/2012	172,180	120	24	NA	NA	NA	86,090	60	24	258,270
Thursday, 8/30/2012	169,608	119	24	NA	NA	NA	84,806	59	24	254,414
Friday, 8/31/2012	113,660	123	15	NA	NA	NA	56,832	61	16	170,492
Saturday, 9/1/2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sunday, 9/2/2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Monday, 9/3/2012	68,088	120	9	NA	NA	NA	34,042	60	9	102,130
Tuesday, 9/4/2012	172,480	120	24	NA	NA	NA	86,240	60	24	258,720
Wednesday, 9/5/2012	172,080	120	24	NA	NA	NA	86,042	60	24	258,122
Thursday, 9/6/2012	172,640	120	24	NA	NA	NA	86,320	60	24	258,960
Friday, 9/7/2012	154,042	120	21	NA	NA	NA	77,020	60	21	231,062
Saturday, 9/8/2012	172,186	120	24	NA	NA	NA	86,094	60	24	258,280
Sunday, 9/9/2012	172,640	120	24	NA	NA	NA	86,320	60	24	258,960
Monday, 9/10/2012	172,192	120	24	NA	NA	NA	86,096	60	24	258,288
Tuesday, 9/11/2012	172,840	120	24	NA	NA	NA	86,420	60	24	259,260
Wednesday, 9/12/2012	154,550	120	21	NA	NA	NA	77,272	60	21	231,822
Thursday, 9/13/2012	171,735	119	24	NA	NA	NA	85,872	60	24	257,607
Friday, 9/14/2012	171,735	119	24	NA	NA	NA	85,872	60	24	257,607
Saturday, 9/15/2012	172,640	120	24	NA	NA	NA	86,320	60	24	258,960
Sunday, 9/16/2012	172,660	120	24	NA	NA	NA	86,330	60	24	258,990
Monday, 9/17/2012	172,700	120	24	NA	NA	NA	86,350	60	24	259,050
Tuesday, 9/18/2012	172,520	120	24	NA	NA	NA	86,260	60	24	258,780
Wednesday, 9/19/2012	172,720	120	24	NA	NA	NA	86,360	60	24	259,080
Thursday, 9/20/2012	172,640	120	24	NA	NA	NA	86,320	60	24	258,960
Friday, 9/21/2012	172,660	120	24	NA	NA	NA	86,330	60	24	258,990
Saturday, 9/22/2012	172,720	120	24	NA	NA	NA	86,360	60	24	259,080
Sunday, 9/23/2012	157,122	119	22	NA	NA	NA	78,564	60	22	235,686
Monday, 9/24/2012	172,660	120	24	NA	NA	NA	86,330	60	24	258,990
Tuesday, 9/25/2012	172,660	120	24	NA	NA	NA	86,330	60	24	258,990
Wednesday, 9/26/2012	157,248	120	22	36,349	60	10	48,224	60	13	241,821
Thursday, 9/27/2012	123,898	120	17	61,962	60	17	NA	NA	NA	185,860
Friday, 9/28/2012	172,700	120	24	86,350	60	24.0	NA	NA	NA	259,050
Saturday, 9/29/2012	172,640	120	24	86,320	60	24.0	NA	NA	NA	258,960
Sunday, 9/30/2012	172,660	120	24	86,330	60	24	NA	NA	NA	258,990

Table 2-2
Summary of Monthly Extraction and Discharge Rates
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, New York

		EW-1D			EW-1I			EW-1S			Combined Influent		
Period	Period Start Date	Total Extracted (gal)	Operational Time (hours)	Operational Average Flow Rate (gpm)	Total Extracted (gal)	Operational Time (hours)	Operational Average Flow Rate (gpm)	Total Extracted (gal)	Operational Time (hours)	Operational Average Flow Rate (gpm)	Monthly Total Extracted/ Discharge (gal)	Period Length (days)	Monthly Average Extraction / Discharge Rate[1] (gpm)
January 2012	Sunday, 1/1/2012	3,012,802	453.4	111	1,871,342	427.8	73	1,536,837	453.3	57	6,420,981	31	143.8
February 2012	Wednesday, 2/1/2012	3,757,323	639.1	98	2,487,744	639.1	65	2,005,829	639.2	52	8,250,896	29	197.6
March 2012	Thursday, 3/1/2012	1,175,249	247	79	2,508,004	686	61	2,441,720	670	61	6,124,973	31	137.2
April 2012	Sunday, 4/1/2012	0	0	0	2,584,470	718	60	2,584,452	718	60	5,168,922	30	119.7
May 2012	Tuesday, 5/1/2012	0	0	0	2,435,937	629	64	2,627,651	632	69	5,063,588	31	113.4
June 2012	Friday, 6/1/2012	3,774,687	531	118	47,900	32	25	2,297,920	608	63	6,120,507	30	141.7
July 2012	Sunday, 7/1/2012	5,086,961	718	118	0	0	0	2,573,828	717	60	7,660,789	31	171.6
August 2012	Wednesday, 8/1/2012	5,045,042	706	119	3,241	5	12	2,522,534	704	60	7,570,817	31	169.6
September 2012	Saturday, 9/1/2012	4,610,056	641	120	357,311	99	60	1,953,688	543	60	6,921,055	30	160.2
Lifetime Total		26,462,120	3,935.0	112.1	12,295,949	3,235.7	63.3	20,544,458	5,683.8	60.2	59,302,528	274.0	150.3

Notes:

1) Monthly average extraction rates are calculated over the entire period length, which includes system uptime and downtime.

Abbreviations:

gal - gallons

gpm - gallons per minute

Table 2-3
Summary of Quarterly Extraction and Discharge Rates
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, New York

		EW-1D			EW-1I			EW-1S			Combined Influent		
Quarter	Period Dates	Total Extracted (gal)	Operational Time (hours)	Operational Average Flow Rate (gpm)	Total Extracted (gal)	Operational Time (hours)	Operational Average Flow Rate (gpm)	Total Extracted (gal)	Operational Time (hours)	Operational Average Flow Rate (gpm)	Quarterly Total Extracted/ Discharged (gal)	Period Length (days)	Quarterly Average Extraction/ Discharge Rate[1] (gpm)
Y1Q1	January 2012 to April 2012	7,945,374	1,339.3	98.9	9,451,560	2,470.6	63.8	8,568,837	2,480.0	57.6	25,965,772	121.0	149.0
Y1Q2	May 2012 to July 2012	8,861,648	1,249	118.3	2,483,837	661	62.6	7,499,399	1,957	63.9	18,844,884	92	142.2
Y1Q3	August 2012 to September 2012	9,655,098	1,347	119.5	360,552	104	57.9	4,476,222	1,247	59.8	14,491,872	61	165.0

Notes:

1) Quarterly average extraction rates are calculated over the entire period length, which includes system uptime and downtime.

Abbreviations:

gal - gallons

gpm - gallons per minute

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Table 3-1
Process Sampling Schedule
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York

Sampling Location	Biweekly		Monthly					Quarterly	
	VOCs	Oil & Grease	VOCs	TAL Metals	TSS	TDS	NO_2/NO_3	Mercury	Cyanide
EW-1S			X						
EW-1I			X						
EW-1D			X						
Combined Influent	X			X	X	X	X	X	X
Combined Effluent	X	X		X	X	X	X	X	X

Abbreviations:
NO_2/NO_3 - nitrite/nitrate
TAL - target analyte list
TDS - total dissolved soilds
TSS - total suspended solids
VOC - volatile organic compound

Notes:
1) This table presents the monitoring schedule based on laboratory analysis types. The required sampling frequencies for individual compounds are listed in the SPEDES-DWG Permit Equivalency.
2) During Y1Q3, non-required combined influent and effluent mercury samples were collected on August 15th and September 11th, 2012.
3) Oil & Grease samples for combined influent were collected in February, March, May and June of Year 1. Oil & Grease was not detected in any combined influent samples, and it is therefore no longer monitored.

Table 3-2
Y1Q3 Process Influent Sampling Analytical Results - VOCs and pH
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York

Chemical	ROD Cleanup Criteria (µg/l)	Sample ID Location Unit \\ Date	CI-120815 CI 8/15/2012	EW-1D-120815 EW-1D 8/15/2012	EW-1S-120815 EW-1S 8/15/2012	CI-120822 CI 8/22/2012	CI-120911 CI 9/11/2012
1,1,1-Trichloroethane	NC	µg/l	0.5 U	0.61	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NC	µg/l	0.66	1	0.5 U	0.59	0.96
1,1,2-Trichloroethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	NC	µg/l	1.1	1.8	0.5 U	1	1.2
1,1-Dichloroethene	5	µg/l	2.1	3.4	0.5 U	2	2.1
1,2,3-Trichlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane (EDB)	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone (Mek)	NC	µg/l	5 U	5 U	5 U	5 U	5 U
2-Hexanone	NC	µg/l	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone (MIBK)	NC	µg/l	5 U	5 U	5 U	5 U	5 U
Acetone	NC	µg/l	5 U	5 U	5 U	5 U	5 U
Benzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	5	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.35 J
Chlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	NC	µg/l	0.5 U	0.6	0.5 U	0.5 U	0.46 J
Chloromethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,2-Dichloroethene	5	µg/l	6.7	8	5.2	6.6	6
Cis-1,3-Dichloropropene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	NC	µg/l	11	16	2.4	12	11
Ethylbenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
m,p-Xylene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl Acetate	NC	µg/l	1 U	1 U	1 U	1 U	0.5 U
Methyl Tert-Butyl Ether (MTBE)	NC	µg/l	4.7	0.68	11	5	4.5
Methylcyclohexane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
O-Xylene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	5	µg/l	91	140	18	92	71
Toluene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	NC	µg/l	1.2	2	0.5 U	1	1.1
Trans-1,3-Dichloropropene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	µg/l	110	89	150	120	100
Trichlorofluoromethane	NC	µg/l	21	34	1.5	21	14
pH[1]	6.5 ≤ pH ≤ 8.5	SU	5.49	5.37	5.36	6.13	5.52

Note:
1) pH criteria is the effluent permit criteria

Abbreviations:

J - result is estimated	CI- combined influent
K - result is biased high	DUP - duplicate
L - result is biased low	EW - extraction well
NJ - result is tentatively identified	mg/l - milligram per liter
U - result is non-detect	NA - not analyzed
ROD - Record of Decision	NC - no criteria
	SU - standard unit

Result Above ROD Cleanup Criteria

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Table 3-2
Y1Q3 Process Influent Sampling Analytical Results - VOCs and pH
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York

Chemical	ROD Cleanup Criteria (µg/l)	Sample ID Location Unit \\ Date	EW-1D-120911 EW-1D 9/11/2012	EW-1S-120911 EW-1S 9/11/2012	CI-120926 CI 9/26/2012
1,1,1-Trichloroethane	NC	µg/l	0.5 U	0.085 J	0.3 J
1,1,2,2-Tetrachloroethane	NC	µg/l	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NC	µg/l	1.4	0.5 U	0.27 J
1,1,2-Trichloroethane	NC	µg/l	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	NC	µg/l	1.8	0.18 J	0.91 J
1,1-Dichloroethene	5	µg/l	2.7	0.5 U	0.5 U
1,2,3-Trichlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 UJ
1,2,4-Trichlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 UJ
1,2-Dibromo-3-Chloropropane	NC	µg/l	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane (EDB)	NC	µg/l	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 UJ
1,2-Dichloroethane	NC	µg/l	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	NC	µg/l	0.5 U	0.5 U	0.5 UJ
1,3-Dichlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 UJ
1,4-Dichlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 UJ
2-Butanone (Mek)	NC	µg/l	5 U	5 U	5 U
2-Hexanone	NC	µg/l	5 U	5 U	5 U
4-Methyl-2-Pentanone (MIBK)	NC	µg/l	5 U	5 U	5 U
Acetone	NC	µg/l	5 U	5 U	5 U
Benzene	NC	µg/l	0.19 J	0.13 J	0.5 UJ
Bromochloromethane	NC	µg/l	0.5 U	0.5 U	0.5 UJ
Bromodichloromethane	NC	µg/l	0.5 U	0.5 U	0.5 UJ
Bromoform	NC	µg/l	0.5 U	0.5 U	0.5 UJ
Bromomethane	NC	µg/l	0.5 U	0.5 U	0.5 U
Carbon Disulfide	NC	µg/l	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	5	µg/l	0.45 J	0.5 U	0.5 U
Chlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 UJ
Chloroethane	NC	µg/l	0.5 U	0.5 U	0.5 U
Chloroform	NC	µg/l	0.6	0.22 J	0.5 UJ
Chloromethane	NC	µg/l	0.5 U	0.5 U	0.5 U
Cis-1,2-Dichloroethene	5	µg/l	6.8	4.7	5
Cis-1,3-Dichloropropene	NC	µg/l	0.5 U	0.5 U	0.5 U
Cyclohexane	NC	µg/l	0.5 U	0.5 U	0.5 UJ
Dibromochloromethane	NC	µg/l	0.5 U	0.5 U	0.5 UJ
Dichlorodifluoromethane	NC	µg/l	14	2.3	2.9
Ethylbenzene	NC	µg/l	0.5 U	0.5 U	0.5 UJ
Isopropylbenzene	NC	µg/l	0.5 U	0.5 U	0.5 UJ
m,p-Xylene	NC	µg/l	0.5 U	0.5 U	0.5 UJ
Methyl Acetate	NC	µg/l	0.5 U	0.5 U	0.5 U
Methyl Tert-Butyl Ether (MTBE)	NC	µg/l	0.72	11	3.5
Methylcyclohexane	NC	µg/l	0.5 U	0.5 U	0.5 UJ
Methylene Chloride	NC	µg/l	0.5 U	0.5 U	0.5 U
O-Xylene	NC	µg/l	0.5 U	0.5 U	0.5 UJ
Styrene	NC	µg/l	0.5 U	0.5 U	0.5 UJ
Tetrachloroethene	5	µg/l	120	19	110
Toluene	NC	µg/l	0.5 U	0.5 U	0.5 UJ
Trans-1,2-Dichloroethene	NC	µg/l	1.7	0.15 J	0.86
Trans-1,3-Dichloropropene	NC	µg/l	0.5 U	0.5 U	0.5 U
Trichloroethene	5	µg/l	79	150	120
Trichlorofluoromethane	NC	µg/l	21	1.3	9.5
pH[1]	6.5 ≤ pH ≤ 8.5	SU	5.35	5.39	5.86

Note:
1) pH criteria is the effluent permit criteria

Abbreviations:

J - result is estimated	CI- combined influent
K - result is biased high	DUP - duplicate
L - result is biased low	EW - extraction well
NJ - result is tentatively identified	mg/l - milligram per liter
U - result is non-detect	NA - not analyzed
ROD - Record of Decision	NC - no criteria
	SU - standard unit

Result Above ROD Cleanup Criteria

Table 3-3
Y1Q3 Process Influent Sampling Analytical Results - Metals, TKN, TSS, TDS
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York

Chemical	Sample ID Location Unit \\ Date	CI-120815 CI 8/15/2012	CI-120911 CI 9/11/2012
Aluminum	µg/l	100 U	200 U
Antimony	µg/l	20 U	60 U
Arsenic	µg/l	8 U	10 U
Barium	µg/l	100 U	200 U
Beryllium	µg/l	3 U	5 U
Cadmium	µg/l	3 U	5 U
Calcium	µg/l	16000	16200
Chromium	µg/l	5 U	10 U
Cobalt	µg/l	20 U	3.1 J
Copper	µg/l	10 U	3.4 J
Cyanide	µg/l	NA	NA
Iron	µg/l	1100	26.7 J
Lead	µg/l	8 U	10 U
Magnesium	µg/l	6900	7090
Manganese	µg/l	14	15 UJ
Mercury	µg/l	0.2 U	0.2 U
Nickel	µg/l	20 U	11.6 J
Potassium	µg/l	3500	3850 J
Selenium	µg/l	20 U	35 U
Silver	µg/l	5 U	10 UJ
Sodium	µg/l	43000	41100
Thallium	µg/l	20 U	25 U
Vanadium	µg/l	20 U	50 U
Zinc	µg/l	160	133
Nitrate + Nitrite (as N)	mg/l	4.8	4.4
Total Dissolved Solids	mg/l	280	240
Total Suspended Solids	mg/l	10 U	10 U

Abbreviations:

J - result is estimated
K - result is biased high
L - result is biased low
NJ - result is tentatively identified
U - result is non-detect

EW - extraction well
mg/l - milligram per liter
NA - not analyzed
µg/l - microgram per liter
CI- combined influent
DUP - duplicate

Table 3-4
Y1Q3 Process Effluent Sampling Analytical Results - VOCs and pH
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York

Chemical	DGW Permit Effluent Criteria (µg/l)	Sample ID Location Unit \\ Date	EFF-120815 EFF 8/15/2012	EFF-120822 EFF 8/22/2012	EFF-120911 EFF 9/11/2012	EFF-120926 EFF 9/26/2012
1,1,1-Trichloroethane	5	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	5	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane (Edb)	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone (Mek)	NC	µg/l	5 U	5 U	5 U	5 U
2-Hexanone	NC	µg/l	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone (Mibk)	NC	µg/l	5 U	5 U	5 U	5 U
Acetone	NC	µg/l	5 U	5 U	5 U	5 U
Benzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,2-Dichloroethene	5	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,3-Dichloropropene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
m,p-Xylene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Methyl Acetate	NC	µg/l	1 U	1 U	0.5 U	0.5 U
Methyl Tert-Butyl Ether (Mtbe)	NC	µg/l	1.6	1.9	1.3	0.95
Methylcyclohexane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Oil & Grease	15	mg/l	5 U	5 UL	5 U	5 U
O-Xylene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	5	µg/l	1.9	2	0.5 U	0.5 U
Toluene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	µg/l	3	3.5	0.31 J	0.5 U
Trichlorofluoromethane	5	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
pH	6.5 ≤ pH ≤ 8.5	SU	6.61	6.89	6.63	6.57

Abbreviations:

J - result is estimated
K - result is biased high
L - result is biased low
NJ - result is tentatively identified
U - result is non-detect

µg/l - microgram per liter
CI- combined influent
DGW - discharge to groundwater
mg/L - milligram per liter
NA - not analyzed
NC - no criteria

Result Above Permit Criteria

CDM Smith

Table 3-5
Y1Q3 Process Effluent Sampling Analytical Results - Metals, TKN, TSS, TDS
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York

Chemical	DGW Permit Effluent Criteria (µg/l)	Sample ID Location Unit \\ Date	EFF-120815 EFF 8/15/2012	EFF-120911 EFF 9/11/2012
Aluminum	NC	µg/l	100 U	200 U
Antimony	NC	µg/l	20 U	60 U
Arsenic	NC	µg/l	8 U	10 U
Barium	NC	µg/l	100 U	200 U
Beryllium	NC	µg/l	3 U	5 U
Cadmium	NC	µg/l	3 U	5 U
Calcium	NC	µg/l	16000	16300
Chromium	100	µg/l	5 U	10 U
Cobalt	NC	µg/l	20 U	2.8 J
Copper	1000	µg/l	10 U	1.5 J
Cyanide	400	µg/l	NA	NA
Iron	600	µg/l	50 U	100 U
Lead	50	µg/l	8 U	10 U
Magnesium	NC	µg/l	6700	7160
Manganese	NC	µg/l	13	15 UJ
Mercury	1.4	µg/l	0.2 U	0.2 U
Nickel	NC	µg/l	20 U	4.1 J
Potassium	NC	µg/l	3500	3970 J
Selenium	NC	µg/l	20 U	35 U
Silver	100	µg/l	5 U	10 UJ
Sodium	NC	µg/l	41000	42900
Thallium	NC	µg/l	20 U	25 U
Vanadium	NC	µg/l	20 U	50 U
Zinc	5000	µg/l	110	113
Nitrate + Nitrite (as N)	20	mg/l	4.9	4.5
Total Dissolved Solids	1000	mg/l	240	220
Total Suspended Solids	50	mg/l	10 U	10 U

Abbreviations:

J - result is estimated
K - result is biased high
L - result is biased low
NJ - result is tentatively identified
U - result is non-detect

µg/l - microgram per liter
CI- combined influent
DGW - discharge to groundwater
mg/L - milligram per liter
NA - not analyzed
NC - no criteria

Result Above Permit Criteria

CDM Smith

Table 3-6A
Synoptic Groundwater Elevation Measurements - Multiport Wells
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York

Well ID	Port	Ground Surface Elevation (feet above msl)	Measurement Port Depth (feet bgs)	Port Elevation (feet msl)	Y1Q3 Groundwater Sampling - September 26, 2012				
					Atm. Pressure (psi)	Fluid Pressure-Outside Casing (psi)	Pressure Head (feet)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)
SVP-2	1	88.39	450	-361.61	14.62	196.38	419.77	30.68	57.71
	2	88.39	413	-324.61	14.62	180.43	382.93	30.48	57.91
	3	88.39	373	-284.61	14.62	163.19	343.12	30.25	58.14
	4	88.39	333	-244.61	14.62	145.9	303.19	30.14	58.25
	5	88.39	293	-204.61	14.62	128.62	263.28	30.00	58.39
	6	88.39	253	-164.61	14.62	111.35	223.39	29.84	58.55
	7	88.39	193	-104.61	14.62	85.47	163.63	29.55	58.84
	8	88.39	153	-64.61	14.62	68.29	123.95	29.18	59.21
	9	88.39	103	-14.61	14.62	46.81	74.34	28.74	59.65
	10	88.39	53	35.39	14.62	24.14	21.99	31.04	57.35
SVP-3	1	87.17	450	-362.83	14.61	197.59	422.59	27.87	59.3
	2	87.17	393	-305.83	14.61	172.99	365.77	27.62	59.55
	3	87.17	373	-285.83	14.61	164.35	345.82	27.55	59.62
	4	87.17	293	-205.83	14.61	129.97	266.42	26.86	60.31
	5	87.17	173	-85.83	14.61	78.29	147.07	26.09	61.08
	6	87.17	103	-15.83	14.61	48.15	77.46	25.62	61.55
	7	87.17	53	34.17	14.61	26.52	27.51	25.52	61.65
SVP-4	1	88.85	420	-331.15	14.63	183.69	390.44	29.98	58.87
	2	88.85	400	-311.15	14.63	175.04	370.46	29.93	58.92
	3	88.85	353	-264.15	14.63	154.81	323.74	29.60	59.25
	4	88.85	308	-219.15	14.63	135.39	278.89	29.41	59.44
	5	88.85	288	-199.15	14.63	126.79	259.03	29.25	59.6
	6	88.85	248	-159.15	14.63	109.53	219.17	29.07	59.78
	7	88.85	188	-99.15	14.63	83.74	159.61	28.56	60.29
	8	88.85	148	-59.15	14.63	66.51	119.82	28.31	60.54
	9	88.85	103	-14.15	14.63	47.09	74.97	28.11	60.74
	10	88.85	48	40.85	14.63	22.81	18.89	29.13	59.72
SVP-5	1	85.55	430	-344.45	14.64	188.68	401.94	28.49	57.06
	2	85.55	408	-322.45	14.64	178.79	379.10	29.31	56.24
	3	85.55	358	-272.45	14.64	157.1	329.01	29.34	56.21
	4	85.55	313	-227.45	14.64	137.76	284.34	28.96	56.59
	5	85.55	293	-207.45	14.64	129.28	264.76	28.53	57.02
	6	85.55	253	-167.45	14.64	112.18	225.27	27.98	57.57
	7	85.55	193	-107.45	14.64	86.86	166.79	26.39	59.16
	8	85.55	153	-67.45	14.64	69.84	127.48	25.65	59.9
	9	85.55	98	-12.45	14.64	46.33	73.19	24.89	60.66
	10	85.55	48	37.55	14.64	24.72	23.28	24.75	60.8
SVP-9	1	90.27	482	-391.73	14.63	210.33	451.96	30.52	59.75
	2	90.27	402	-311.73	14.63	175.78	372.17	30.23	60.04
	3	90.27	352	-261.73	14.63	154.2	322.33	30.01	60.26
	4	90.27	307	-216.73	14.63	134.73	277.37	29.93	60.34
	5	90.27	287	-196.73	14.63	126.08	257.39	29.88	60.39
	6	90.27	247	-156.73	14.63	108.76	217.39	29.84	60.43
	7	90.27	187	-96.73	14.63	82.92	157.71	29.45	60.82
	8	90.27	147	-56.73	14.63	65.77	118.11	29.02	61.25
	9	90.27	102	-11.73	14.63	46.41	73.39	28.68	61.59
	10	90.27	47	43.27	14.63	22.63	18.48	28.54	61.73

Table 3-6A
Synoptic Groundwater Elevation Measurements - Multiport Wells
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York

Well ID	Port	Ground Surface Elevation (feet above msl)	Measurement Port Depth (feet bgs)	Port Elevation (feet msl)	Y1Q3 Groundwater Sampling - September 26, 2012				
					Atm. Pressure (psi)	Fluid Pressure-Outside Casing (psi)	Pressure Head (feet)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)
SVP-10	1	87.83	482	-394.17	14.62	209.85	450.88	31.60	56.23
	2	87.83	402	-314.17	14.62	174.52	369.28	33.11	54.72
	3	87.83	352	-264.17	14.62	153.28	320.23	32.11	55.72
	4	87.83	307	-219.17	14.62	133.97	275.64	31.66	56.17
	5	87.83	287	-199.17	14.62	125.35	255.73	31.55	56.28
	6	87.83	247	-159.17	14.62	108.11	215.91	31.32	56.51
	7	87.83	187	-99.17	14.62	82.65	157.11	30.05	57.78
	8	87.83	147	-59.17	14.62	65.94	118.52	28.60	59.23
	9	87.83	102	-14.17	14.62	46.59	73.83	28.25	59.58
	10	87.83	47	40.83	14.62	22.75	18.78	28.24	59.59
SVP-11	1	80.32	482	-401.68	14.61	211.9	455.64	26.85	53.47
	2	80.32	402	-321.68	14.61	176.88	374.76	27.64	52.68
	3	80.32	352	-271.68	14.61	155.69	325.82	26.53	53.79
	4	80.32	307	-226.68	14.61	136.59	281.71	25.59	54.73
	5	80.32	287	-206.68	14.61	127.97	261.80	25.48	54.84
	6	80.32	247	-166.68	14.61	110.75	222.03	25.21	55.11
	7	80.32	187	-106.68	14.61	84.96	162.47	24.70	55.62
	8	80.32	147	-66.68	14.61	68.57	124.62	22.51	57.81
	9	80.32	102	-21.68	14.61	49.06	79.56	22.52	57.8
	10	80.32	47	33.32	14.61	25.24	24.55	22.48	57.84

Notes:
bgs = below ground surface
msl = mean sea level
Atm. = Atmospheric
psi = pounds per square inch
NA = not applicable

Table 3-6B
Synoptic Groundwater Elevation Measurements - Conventional Wells
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York

Well ID	Date	Time	Top of Casing Elevation (feet bgs)	Depth to Water (feet bgs)	Water Elevation (feet msl)
MW-1I	9/27/2012	11:07	86.36	29.00	57.36
MW-1S	9/27/2012	11:10	86.11	28.20	57.91
MW-2I	9/27/2012	11:17	86.59	29.09	57.50
MW-2S	9/27/2012	11:14	87.15	28.59	58.56
MW-3I	9/27/2012	11:23	79.09	22.72	56.37
MW-3S	9/27/2012	11:25	79.13	22.47	56.66

Notes:
bgs = below ground surface
msl = mean sea level

Table 3-7
Y1Q3 Groundwater Sampling Analytical Results
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York

Chemical	ROD Cleanup Criteria (µg/l)	Sample ID Location Unit \\ Date	GWX-10019/RAQ3 GWX-10019 9/25/2012	MW-01S/RAQ3 MW-1S 9/26/2012	MW-01I/RAQ3 MW-1I 9/26/2012	SVP-10-1/RAQ3 SVP/GWM-10-1 9/25/2012	SVP-10-2/RAQ3 SVP/GWM-10-2 9/25/2012	SVP-10-3/RAQ3 SVP/GWM-10-3 9/25/2012	SVP-10-4/RAQ3 SVP/GWM-10-4 9/25/2012
1,1,1-Trichloroethane	NC	µg/l	0.5 U	0.5 U	0.84	0.5 U	10 U	1.1	0.5 U
1,1,2,2-Tetrachloroethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
1,1,2-Trichloroethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 UJ	0.5 U	0.5 U
1,1-Dichloroethane	NC	µg/l	0.12 J	0.5 U	0.77	0.5 U	10 U	2.2	0.28 J
1,1-Dichloroethene	5	µg/l	0.5 U	0.5 U	3.9	0.5 U	10 U	7.7 J	0.5 U
1,2,3-Trichlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
1,2-Dibromoethane (EDB)	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
1,2-Dichlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
1,2-Dichloroethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.79
1,2-Dichloropropane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
1,3-Dichlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
1,4-Dichlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
2-Butanone (MEK)	NC	µg/l	5 U	5 U	5 U	5 U	100 U	5 U	5 U
2-Hexanone	NC	µg/l	5 U	5 U	5 U	5 U	100 U	5 U	5 U
4-Methyl-2-Pentanone (MIBK)	NC	µg/l	5 U	5 U	5 U	5 U	100 U	5 U	5 U
Acetone	NC	µg/l	5 U	3.7 J	5 U	5 U	100 U	5 U	5 U
Benzene	NC	µg/l	0.5 U	0.23 J	0.53	0.5 U	10 U	0.22 J	0.19 J
Bromochloromethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
Bromodichloromethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
Bromoform	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
Bromomethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 UJ	0.5 U	0.5 U
Carbon Disulfide	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
Carbon Tetrachloride	5	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
Chlorobenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
Chloroethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
Chloroform	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
Chloromethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	9	0.5 U
Cis-1,2-Dichloroethene	5	µg/l	36 J	2.6	18	7	63	8.3 J	7.7
Cis-1,3-Dichloropropene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 UJ	0.5 U	0.5 U
Cyclohexane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
Dibromochloromethane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
Dichlorodifluoromethane	NC	µg/l	1	0.55	7.2	0.5 U	10 U	34 J	2.1
Ethylbenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
Isopropylbenzene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
m,p-Xylene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
Methyl Acetate	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
Methyl Tert-Butyl Ether (MTBE)	NC	µg/l	4.5	7	0.5 U	0.5 U	10 U	0.5 U	12
Methylcyclohexane	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
Methylene Chloride	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	26	0.5 U	0.5 U
o-Xylene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
Styrene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
Tetrachloroethene	5	µg/l	2.7	1.7	20	0.35 J	21	420	120
Toluene	NC	µg/l	0.5 U	0.16 J	0.39 J	0.5 U	10 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	NC	µg/l	0.17 J	0.5 U	0.52	0.14 J	10 U	0.5 J	0.13 J
Trans-1,3-Dichloropropene	NC	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	10 UJ	0.5 U	0.5 U
Trichloroethene	5	µg/l	20	150	240	14	700	54	310
Trichlorofluoromethane	NC	µg/l	0.5 U	0.5 U	0.5 U	6.1	10 U	0.19 J	0.64
Vinyl Chloride	NC	µg/l	1.6	0.5 U	0.5 U	0.5 U	10 U	0.31 J	0.5 U

Abbreviations:

J - result is estimated
K - result biased high
L - result biased low
U - result is non-detect
Result above ROD Cleanup Criteria

ROD - Record of Decision
NA - not analyzed
NC - no criteria
µg/l - microgram per liter

CDM Smith

Table 3-7
Y1Q3 Groundwater Sampling Analytical Results
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York

Chemical	ROD Cleanup Criteria (µg/l)	Sample ID Location Unit \\ Date	SVP-10-5/RAQ3 SVP/GWM-10-5 9/25/2012	SVP-10-6/RAQ3 SVP/GWM-10-6 9/25/2012	SVP-10-7/RAQ3 SVP/GWM-10-7 9/25/2012	SVP-4-2/RAQ3 SVP/GWM-4-2 9/25/2012	SVP-4-3/RAQ3 SVP/GWM-4-3 9/25/2012	SVP-4-4/RAQ3 SVP/GWM-4-4 9/25/2012	SVP-4-5/RAQ3 SVP/GWM-4-5 9/25/2012	SVP-104-5/RAQ3 SVP/GWM-4-5 9/25/2012
1,1,1-Trichloroethane	NC	µg/l	10 U	0.5 U	0.5 U	0.4 J	0.18 J	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	NC	µg/l	10 U	0.5 U	0.5 U	1.5	0.41 J	0.2 J	0.22 J	0.14 J
1,1-Dichloroethene	5	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropane	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane (EDB)	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone (MEK)	NC	µg/l	100 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	NC	µg/l	100 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone (MIBK)	NC	µg/l	100 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	NC	µg/l	100 U	5 U	5 U	3.6 J	5 U	5 U	5 U	2.5 J
Benzene	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	5	µg/l	10 U	0.5 U	0.5 U	0.24 J	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	NC	µg/l	10 U	0.5 U	0.5 U	0.64 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,2-Dichloroethene	5	µg/l	8.7 J	0.18 J	4.4	0.6	3	2.6	2.9	2
Cis-1,3-Dichloropropene	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	NC	µg/l	10 U	0.5 U	0.5 U	0.55	5.3	6.8	6	4.4
Ethylbenzene	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
m,p-Xylene	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl Acetate	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl Tert-Butyl Ether (MTBE)	NC	µg/l	13	0.82	1.8	0.5 U	1.7	2	2	1.9
Methylcyclohexane	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	NC	µg/l	10 U	0.5 U	0.5 U	0.23 J	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	5	µg/l	34	0.5 U	1.6	19	66	100	86	61
Toluene	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.37 J	0.5 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	µg/l	350	1.4	40	7.9	28	38	33	25
Trichlorofluoromethane	NC	µg/l	10 U	0.5 U	0.5 U	6.7	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	NC	µg/l	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Abbreviations:

J - result is estimated
K - result biased high
L - result biased low
U - result is non-detect
Result above ROD Cleanup Criteria

ROD - Record of Decision
NA - not analyzed
NC - no criteria
µg/l - microgram per liter

CDM Smith

Table 3-7
Y1Q3 Groundwater Sampling Analytical Results
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York

Chemical	ROD Cleanup Criteria (µg/l)	Sample ID Location Unit \\ Date	SVP-4-6/RAQ3 SVP/GWM-4-6 9/25/2012	SVP-4-7/RAQ3 SVP/GWM-4-7 9/25/2012
1,1,1-Trichloroethane	NC	µg/l	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	NC	µg/l	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NC	µg/l	0.5 U	0.5 U
1,1,2-Trichloroethane	NC	µg/l	0.5 U	0.5 U
1,1-Dichloroethane	NC	µg/l	0.18 J	0.5 U
1,1-Dichloroethene	5	µg/l	0.5 U	0.5 U
1,2,3-Trichlorobenzene	NC	µg/l	0.5 U	0.5 U
1,2,4-Trichlorobenzene	NC	µg/l	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropane	NC	µg/l	0.5 U	0.5 U
1,2-Dibromoethane (EDB)	NC	µg/l	0.5 U	0.5 U
1,2-Dichlorobenzene	NC	µg/l	0.5 U	0.5 U
1,2-Dichloroethane	NC	µg/l	0.5 U	0.5 U
1,2-Dichloropropane	NC	µg/l	0.5 U	0.5 U
1,3-Dichlorobenzene	NC	µg/l	0.5 U	0.5 U
1,4-Dichlorobenzene	NC	µg/l	0.5 U	0.5 U
2-Butanone (MEK)	NC	µg/l	5 U	5 U
2-Hexanone	NC	µg/l	5 U	5 U
4-Methyl-2-Pentanone (MIBK)	NC	µg/l	5 U	5 U
Acetone	NC	µg/l	5 U	5 U
Benzene	NC	µg/l	0.5 U	0.5 U
Bromochloromethane	NC	µg/l	0.5 U	0.5 U
Bromodichloromethane	NC	µg/l	0.5 U	0.5 U
Bromoform	NC	µg/l	0.5 U	0.5 U
Bromomethane	NC	µg/l	0.5 U	0.5 U
Carbon Disulfide	NC	µg/l	0.5 U	0.5 U
Carbon Tetrachloride	5	µg/l	0.5 U	0.5 U
Chlorobenzene	NC	µg/l	0.5 U	0.5 U
Chloroethane	NC	µg/l	0.5 U	0.5 U
Chloroform	NC	µg/l	0.5 U	0.5 U
Chloromethane	NC	µg/l	0.5 U	0.5 U
Cis-1,2-Dichloroethene	5	µg/l	3.4	1.3
Cis-1,3-Dichloropropene	NC	µg/l	0.5 U	0.5 U
Cyclohexane	NC	µg/l	0.5 U	0.5 U
Dibromochloromethane	NC	µg/l	0.5 U	0.5 U
Dichlorodifluoromethane	NC	µg/l	4.9	1.4
Ethylbenzene	NC	µg/l	0.5 U	0.5 U
Isopropylbenzene	NC	µg/l	0.5 U	0.5 U
m,p-Xylene	NC	µg/l	0.5 U	0.5 U
Methyl Acetate	NC	µg/l	0.5 U	0.5 U
Methyl Tert-Butyl Ether (MTBE)	NC	µg/l	2.3	2.6
Methylcyclohexane	NC	µg/l	0.5 U	0.5 U
Methylene Chloride	NC	µg/l	0.5 U	0.5 U
o-Xylene	NC	µg/l	0.5 U	0.5 U
Styrene	NC	µg/l	0.5 U	0.5 U
Tetrachloroethene	5	µg/l	96	13
Toluene	NC	µg/l	0.5 U	0.5 U
Trans-1,2-Dichloroethene	NC	µg/l	0.5 U	0.5 U
Trans-1,3-Dichloropropene	NC	µg/l	0.5 U	0.5 U
Trichloroethene	5	µg/l	41	48
Trichlorofluoromethane	NC	µg/l	0.5 U	0.5 U
Vinyl Chloride	NC	µg/l	0.5 U	0.5 U

Abbreviations:

J - result is estimated
K - result biased high
L - result biased low
U - result is non-detect
Result above ROD Cleanup Criteria

ROD - Record of Decision
NA - not analyzed
NC - no criteria
µg/l - microgram per liter

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Table 3-8
Y1Q3 Groundwater Sampling Water Quality Parameters
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York

Well ID		Date	Time	pH	Specific Conductivity (mS/cm[c])	Dissolved Oxygen[1] (mg/L)	ORP (mV)	Temperature (°C)	Turbidity (NTU)
MW-01I		9/26/2012	12:25	5.15	0.271	1.14	177.3	18.96	2.15
MW-01S		9/26/2012	15:30	6.46	0.089	0.23	-34.6	19.51	41.8
GWX-10019		9/25/2012	16:45	6.79	0.637	0.29	-143.3	16.81	14.9
SVP-4	Port 2	9/25/2012	10:45	5.49	0.376	7.60	197.8	18.32	4.57
	Port 3	9/25/2012	11:00	5.63	0.397	5.59	182	19.34	1.17
	Port 4	9/25/2012	11:10	5.51	0.414	4.78	149	18.13	0.25
	Port 5	9/25/2012	11:25	5.20	0.425	11.57	134.9	20.96	1.44
	Port 6	9/25/2012	11:40	5.57	0.430	4.47	113.5	19.85	37.5
	Port 7	9/25/2012	11:50	5.62	0.460	4.59	130.7	18.31	5.67
SVP-10	Port 1	9/25/2012	13:28	6.32	0.245	9.17	80	17.45	0.35
	Port 2	9/25/2012	14:15	5.18	0.270	7.20	95.5	17.46	1.12
	Port 3	9/25/2012	14:28	5.13	0.271	6.31	109.9	17.08	0.29
	Port 4	9/25/2012	14:40	5.30	0.411	5.91	117.9	16.93	0.43
	Port 5	9/25/2012	14:50	5.03	0.395	6.01	134.1	17.18	0.55
	Port 6	9/25/2012	15:00	4.41	0.248	5.04	162.2	17.27	0.07
	Port 7	9/25/2012	15:10	5.27	0.747	5.53	137.1	17.63	1.18

Abbreviations:

°C - degrees Celsius

mg/L - milligrams per liter

mS/cm[c] - milli-Siemens per centimeter

mV - millivolts

NTU - nephelometric turbidity unit

ORP - oxidation-reduction potential

Table 3-9
Y1Q3 Trip Blank Sample Analytical Results - Process Sampling
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York

Chemical	Sample ID Unit \\ Date	TB-120815 8/15/2012	TB-120822 8/22/2012	TB-120911 9/11/2012	TB-120926 9/26/2012
1,1,1-Trichloroethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	µg/l	0.5 U	0.5 U	0.5 U	0.5 UJ
1,2,4-Trichlorobenzene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane (EDB)	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone (MEK)	µg/l	5 U	5 U	5 U	5 U
2-Hexanone	µg/l	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone (MIBK)	µg/l	5 U	5 U	5 U	5 U
Acetone	µg/l	5 U	5 U	5 U	5 U
Benzene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	µg/l	0.5 U	0.5 U	0.27 J	0.19 J
Cis-1,2-Dichloroethene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,3-Dichloropropene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
m,p-Xylene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Methyl Acetate	µg/l	1 U	1 U	0.5 U	0.5 U
Methyl Tert-Butyl Ether (MTBE)	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Methylcyclohexane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	µg/l	0.5 U	0.5 U	0.5 U	0.084 J
Trichlorofluoromethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	µg/l	0.5 U	0.5 U	0.5 U	0.5 U

Abbreviations:
J - result is estimated
L - result is biased low
U - result is non-detect
µg/l - microgram per liter

CDM Smith

Table 3-10
Y1Q2 Blank Sample Analytical Results – Groundwater Sampling
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York

Chemical	Sample ID Unit \\ Date	TB092512 9/25/2012	TB092612 9/26/2012	FB092512 9/25/2012	FB092612 9/26/2012
1,1,1-Trichloroethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	µg/l	0.5 UJ	0.5 U	0.5 UJ	0.5 U
1,2,4-Trichlorobenzene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane (EDB)	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone (MEK)	µg/l	5 U	5 U	5 U	5 U
2-Hexanone	µg/l	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone (MIBK)	µg/l	5 U	5 U	5 U	5 U
Acetone	µg/l	5 U	5 U	5 U	5 U
Benzene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,2-Dichloroethene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,3-Dichloropropene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
m,p-Xylene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Methyl Acetate	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Methyl Tert-Butyl Ether (MTBE)	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Methylcyclohexane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	µg/l	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	µg/l	0.5 U	0.5 U	0.5 U	0.5 U

Abbreviations:

J - result is estimated
L - result is biased low
U - result is non-detect

µg/l - microgram per liter

CDM Smith

adapted from NYSDEC Interactive Mapping Gateway: http://www.nygis.state.ny.us/gateway/index.html

CDM Smith

N

Figure 1-1
Site Location Map
Old Roosevelt Field Contaminated Groundwater Site
Garden City, New York

Path: C:\Work\Roosevelt Field\MXD\Garden_City_Revised_DP.mxd

Extraction Well
Pumping Well

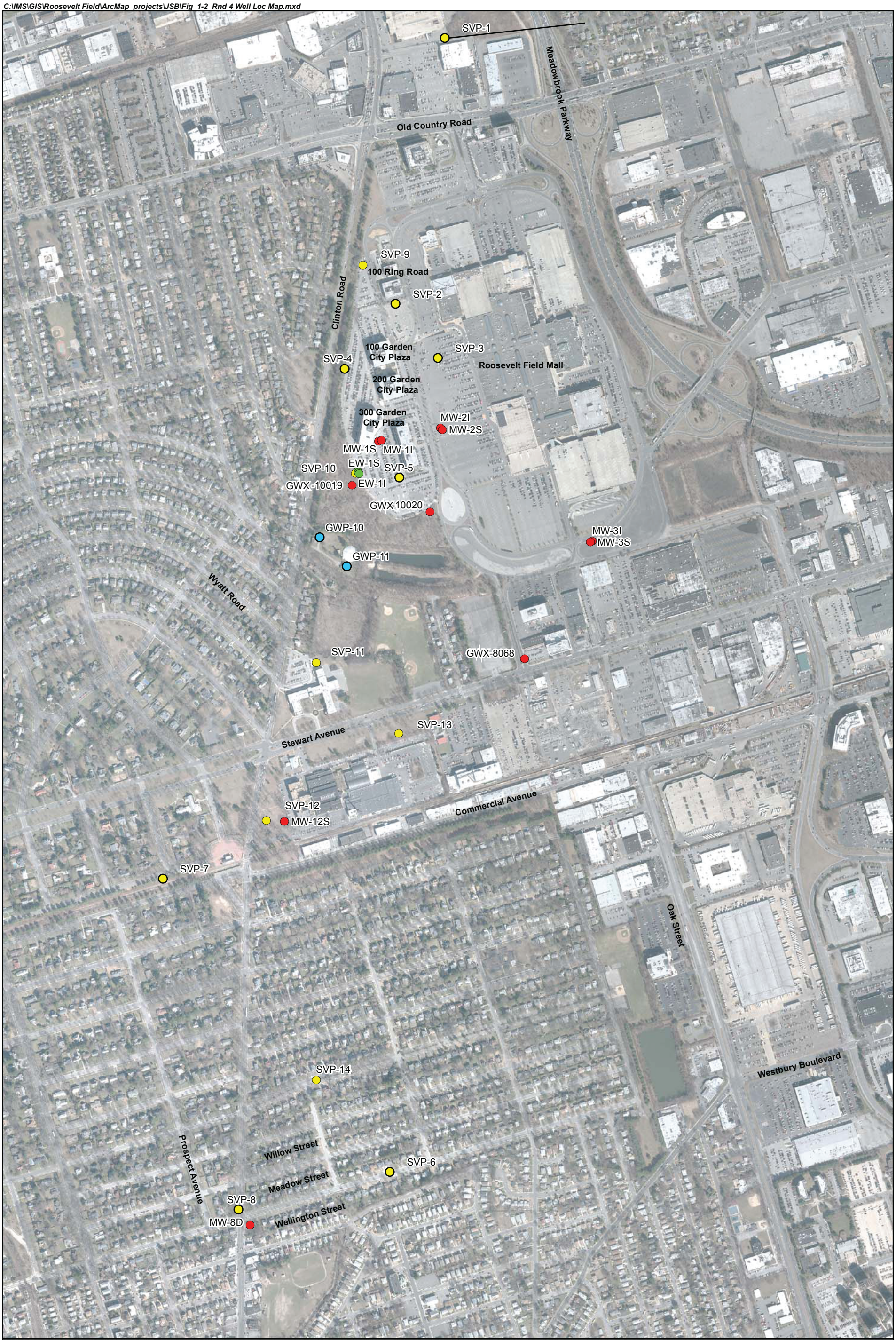
N

0 75 150
Feet

CDM Smith

Figure 1-2
Site Map
Old Roosevelt Field Contaminated Groundwater Site
Garden City, New York

C:\IMS\GIS\Roosevelt Field\ArcMap_projects\JSB\Fig_1-2_Rnd 4 Well Loc Map.mxd



- Municipal Pumping Well
- Multiport Well
- Conventional Well
- Extraction Well

N

0 350 700 Feet

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Figure 2-1
Multiport Well, Monitoring Well, and Supply Well Locations
Old Roosevelt Field Contaminated Groundwater Area Site
Garden City, New York

Figure 2-2
Daily Average Extraction Well Flowrates
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York

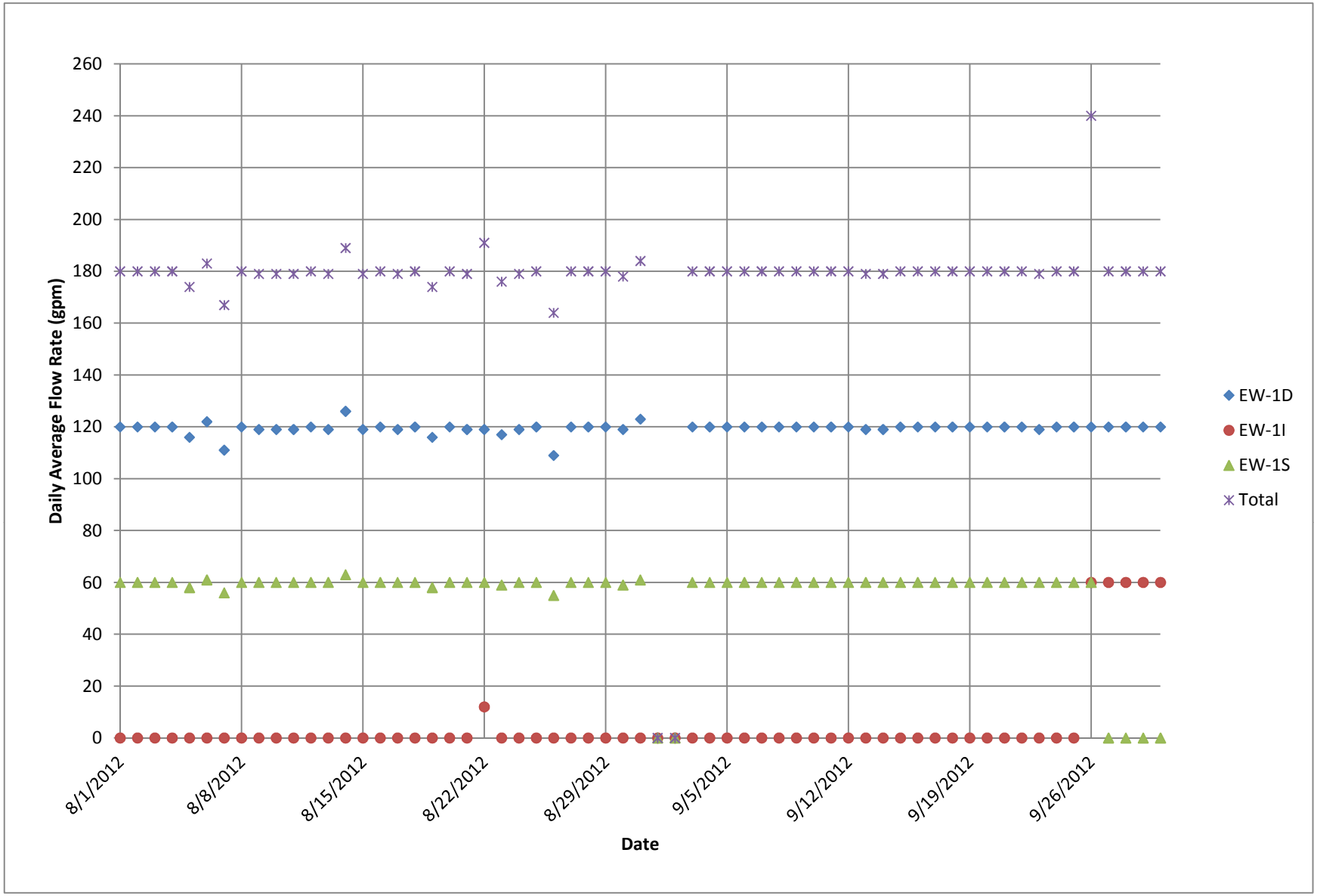

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Figure 3-1
Groundwater Treatment System Effluent pH Trend Chart
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York

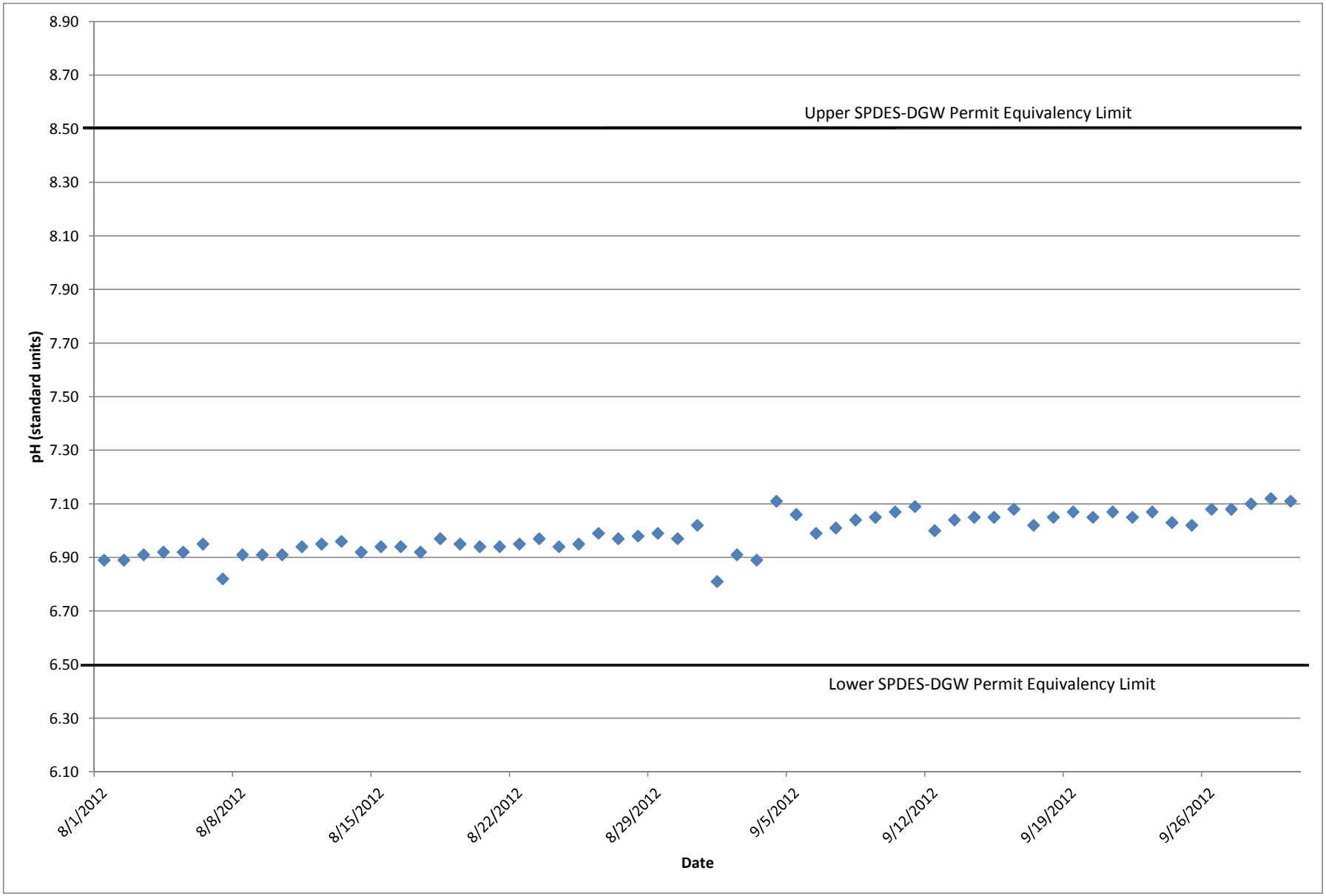

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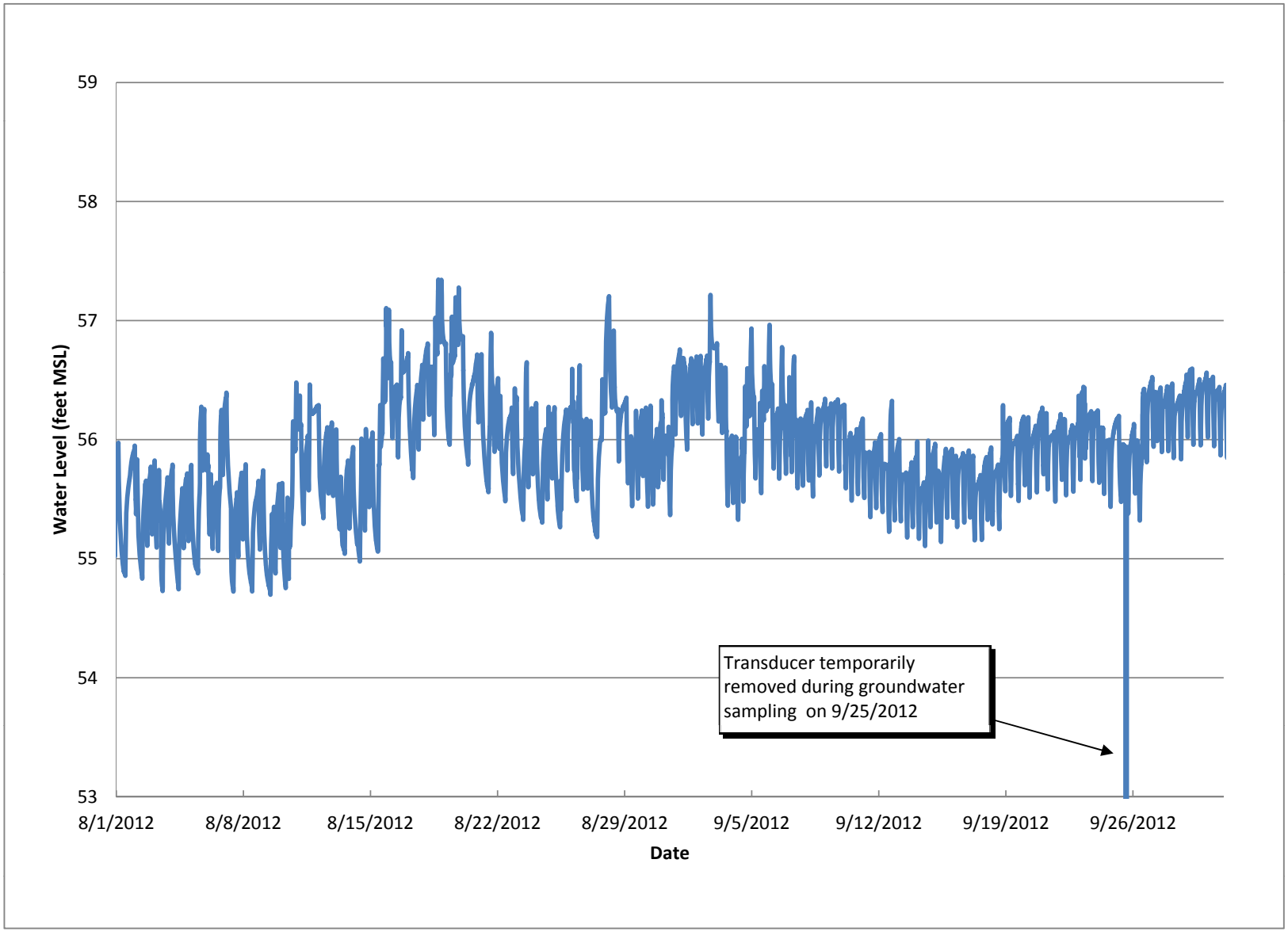
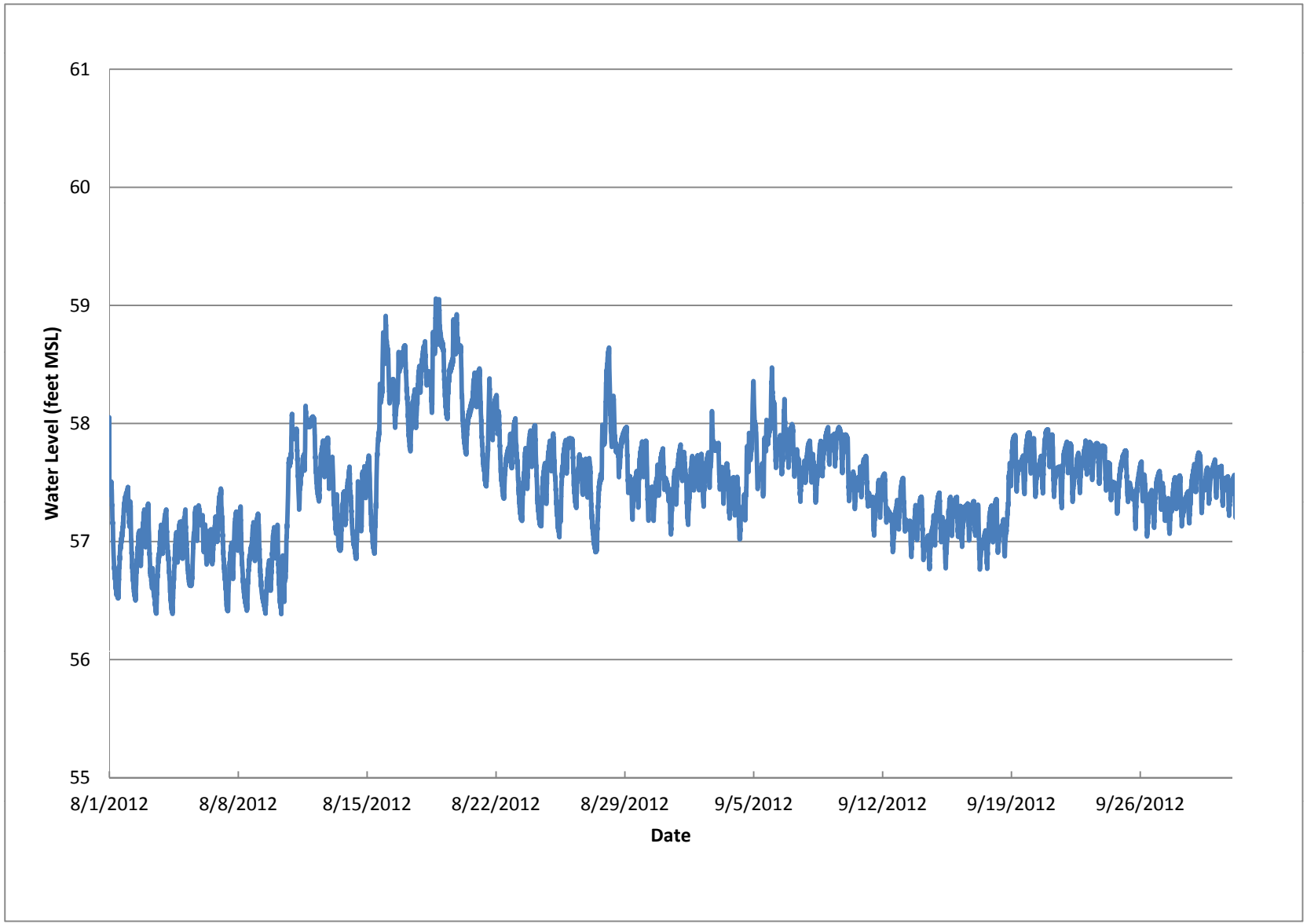
Figure 3-2A
GWX-10019 Hydrograph
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York



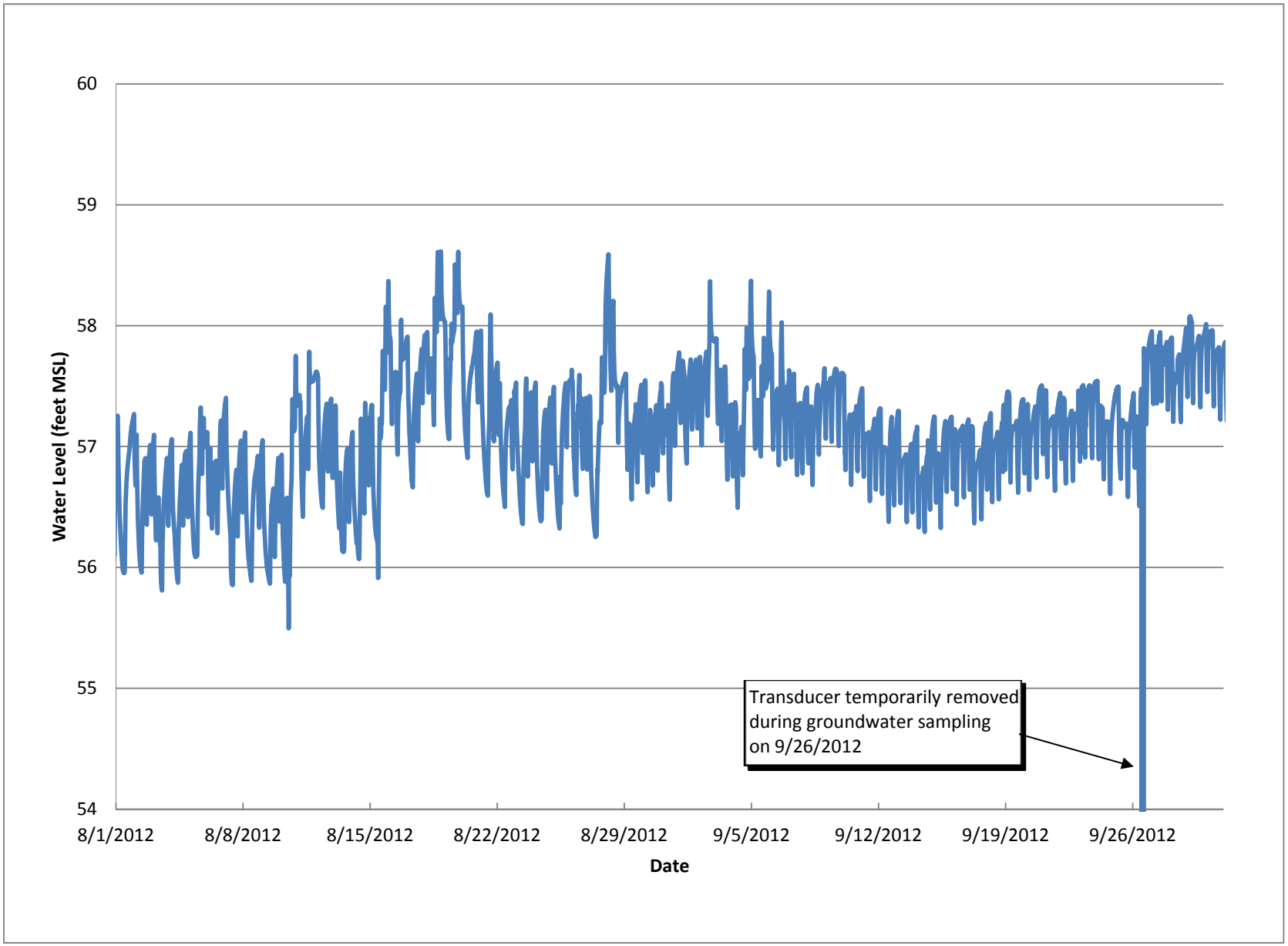
CDM Smith

Figure 3-2B
GWX-10020 Hydrograph
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York



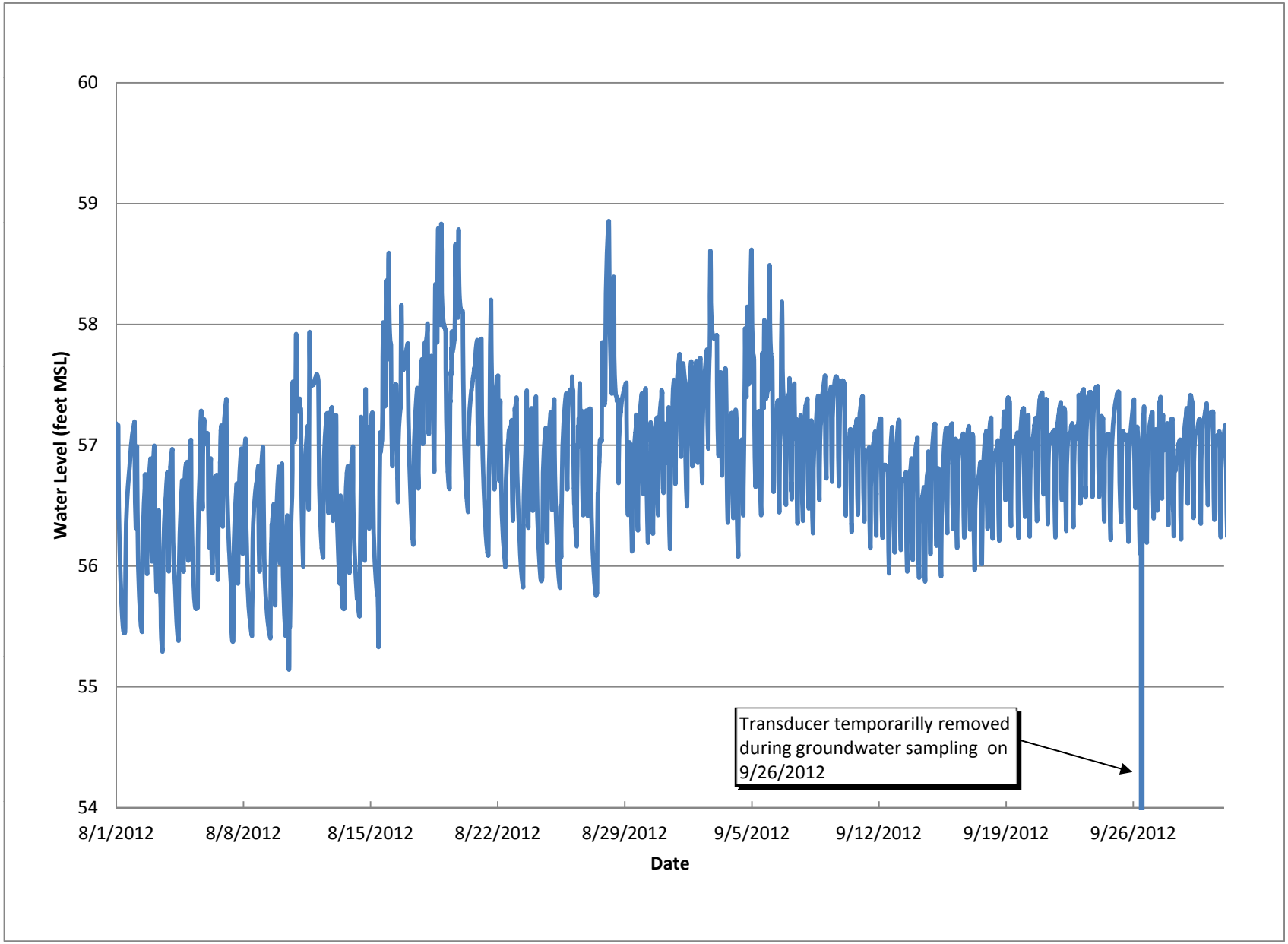
CDM Smith

Figure 3-2C
MW-1S Hydrograph
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York



CDM Smith

Figure 3-2D
MW-1I Hydrograph
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York



CDM Smith

Figure 3-2E
MW-2S Hydrograph
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York

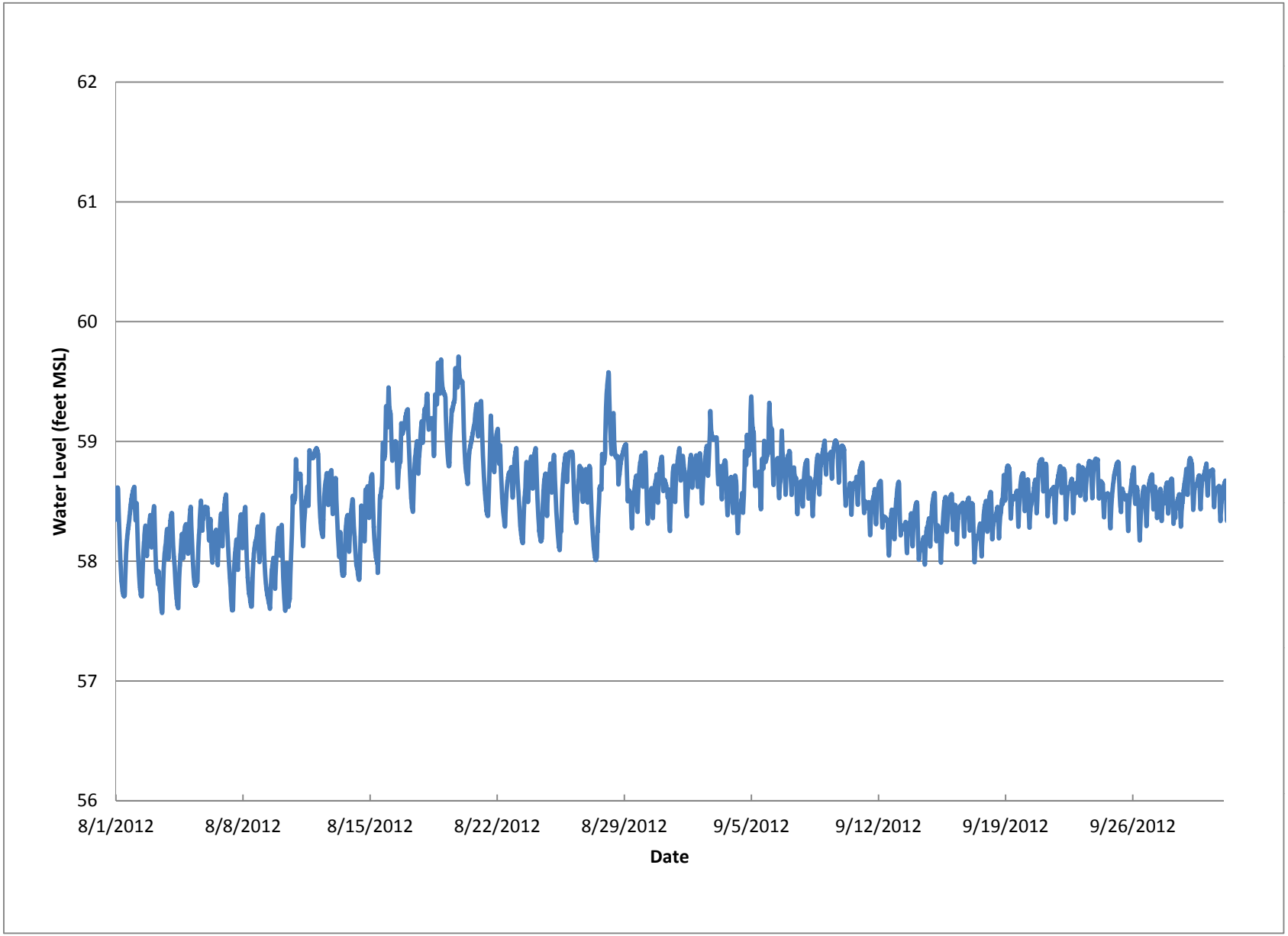


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Figure 3-2F
MW-2I Hydrograph
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York

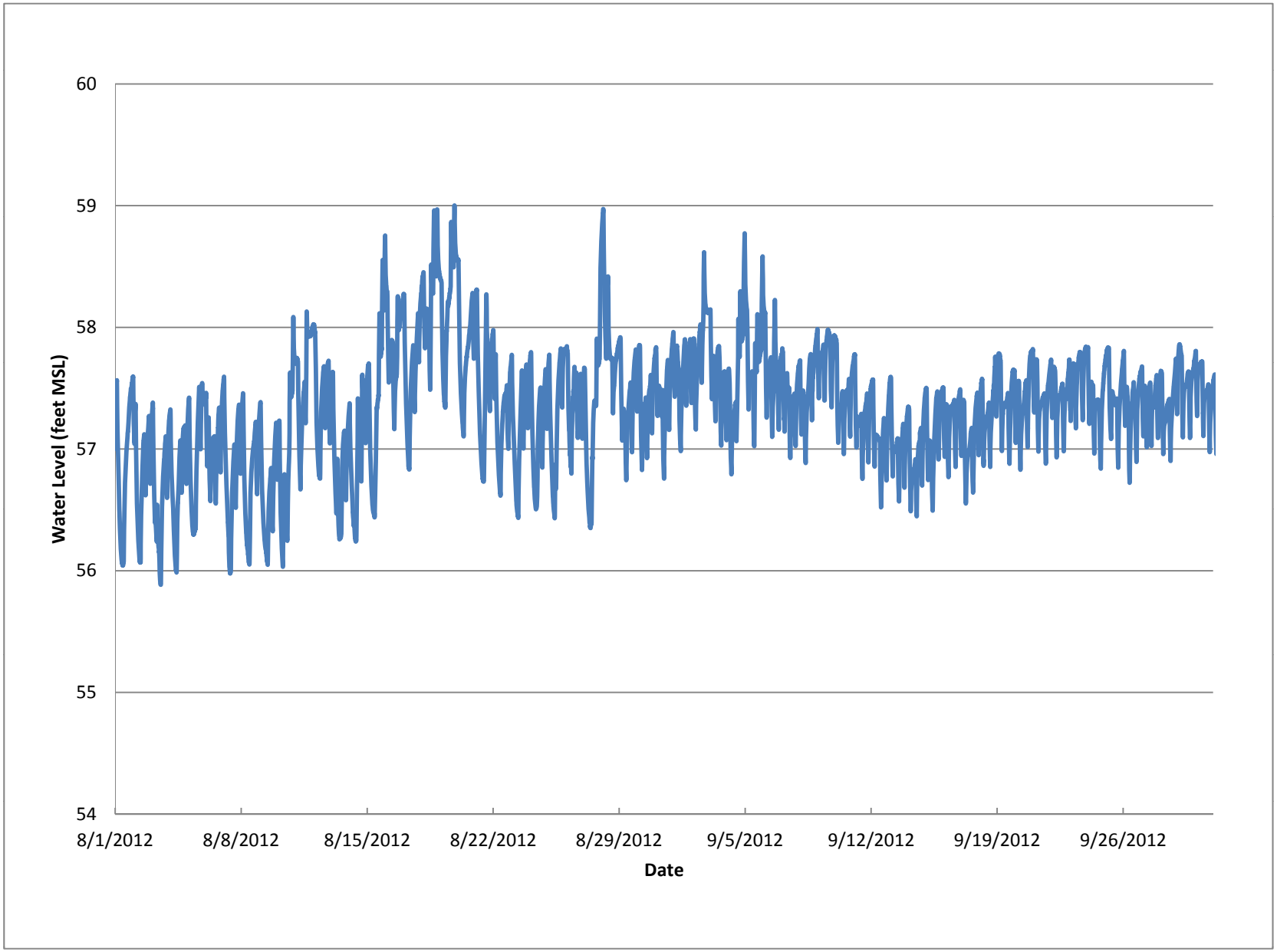

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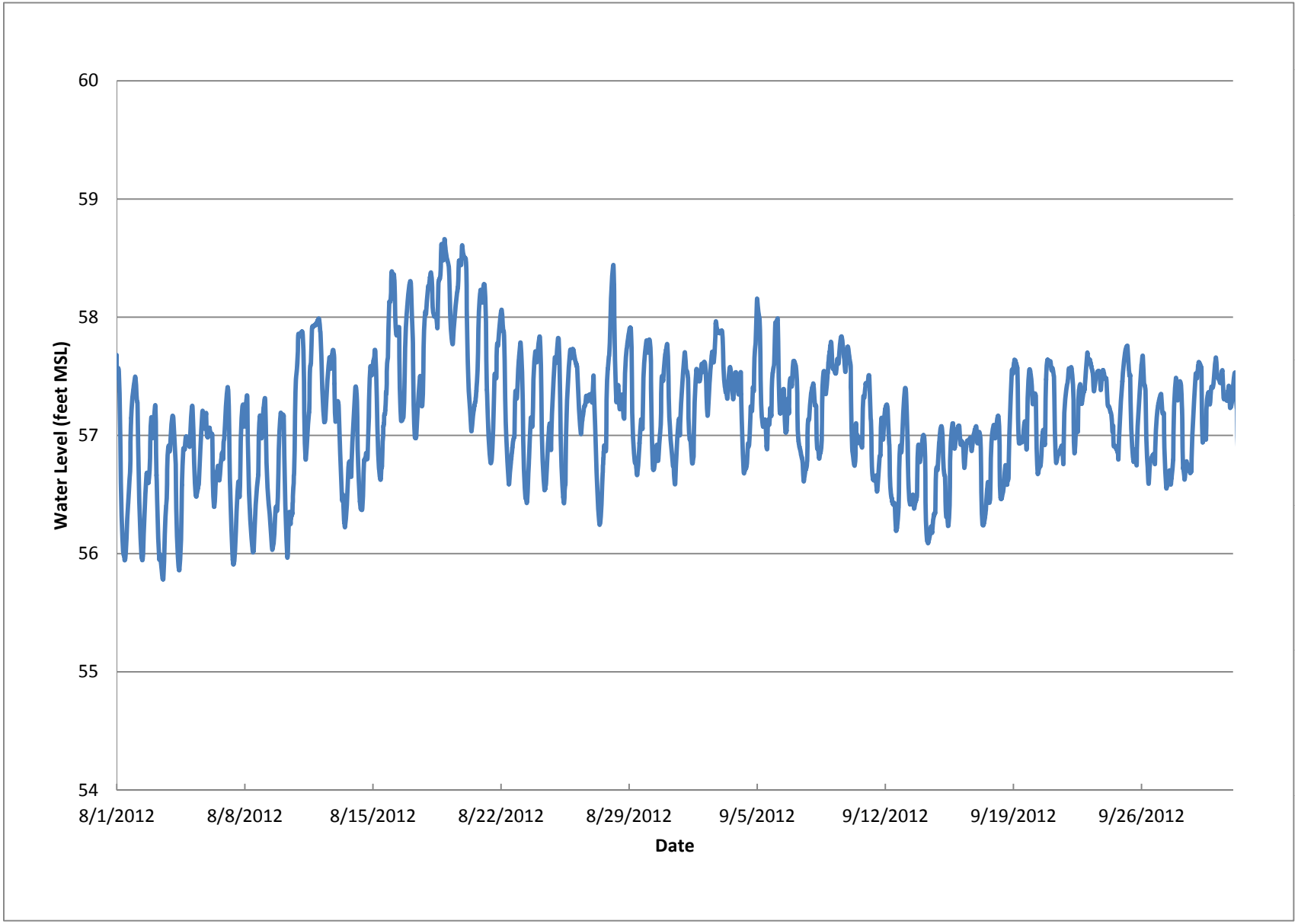
Figure 3-2G
MW-3S Hydrograph
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York



CDM Smith

Figure 3-2H
MW-3I Hydrograph
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York

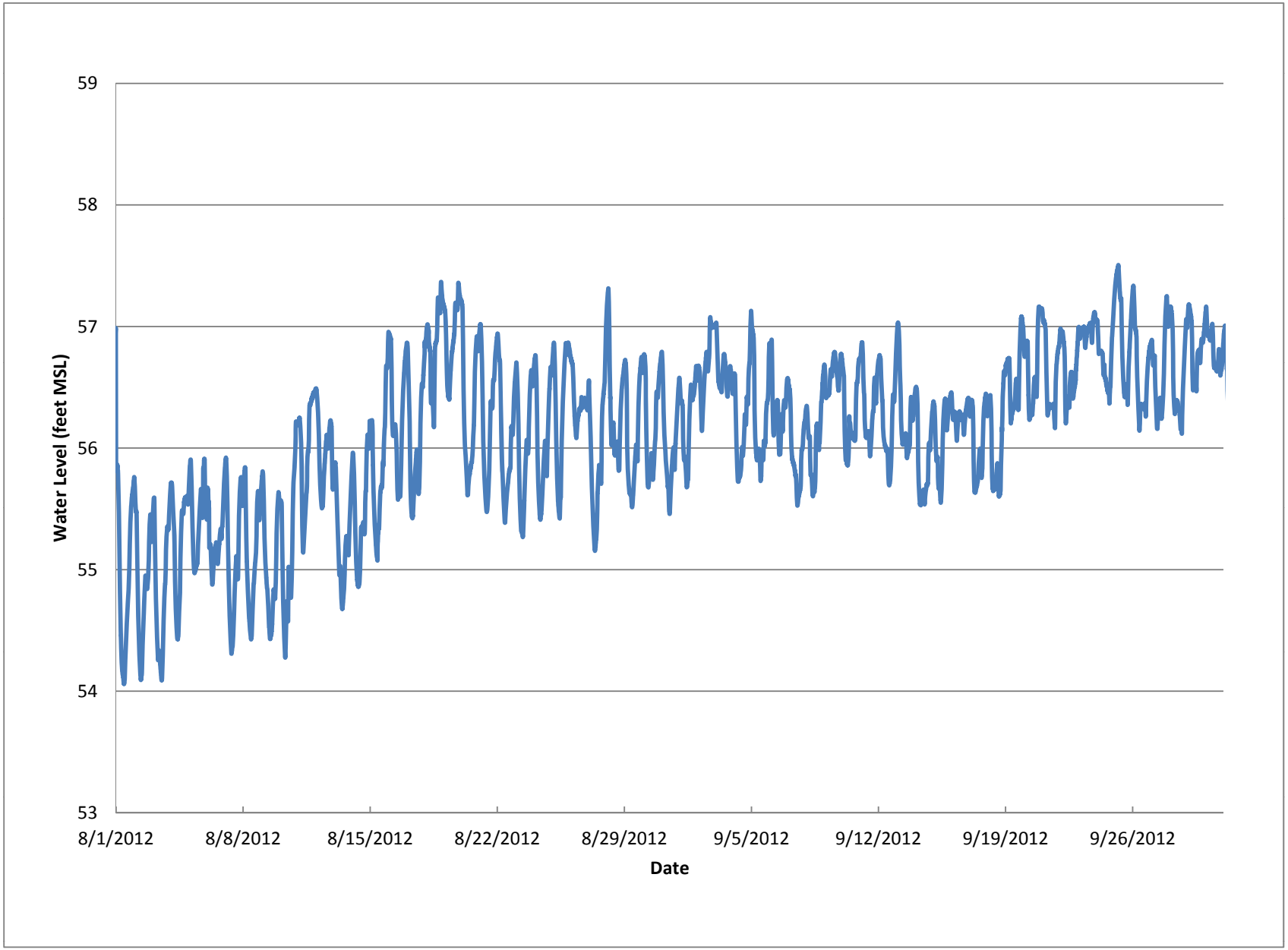


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Figure 3-2I
SVP-5 Port 2 Hydrograph
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York

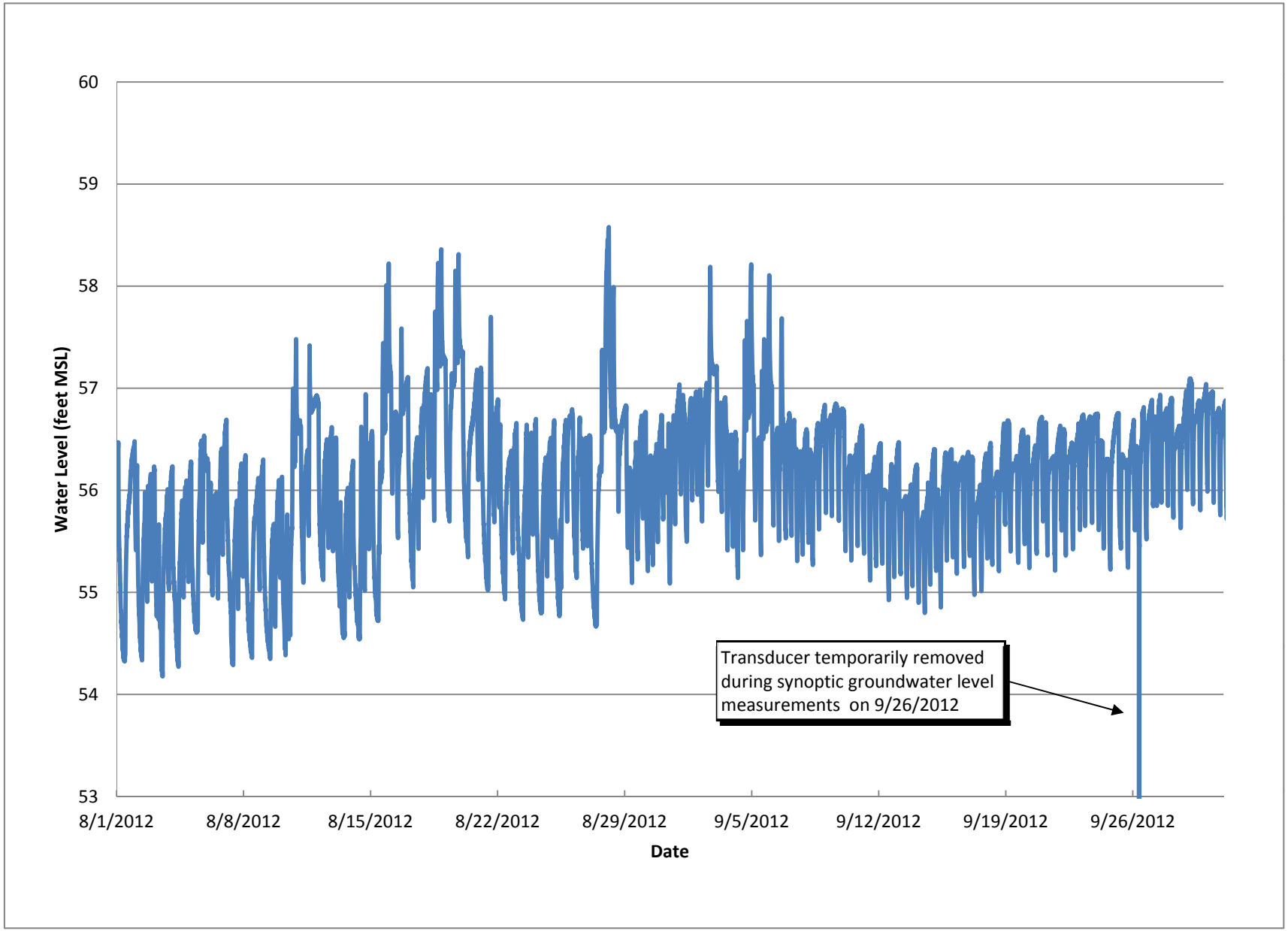

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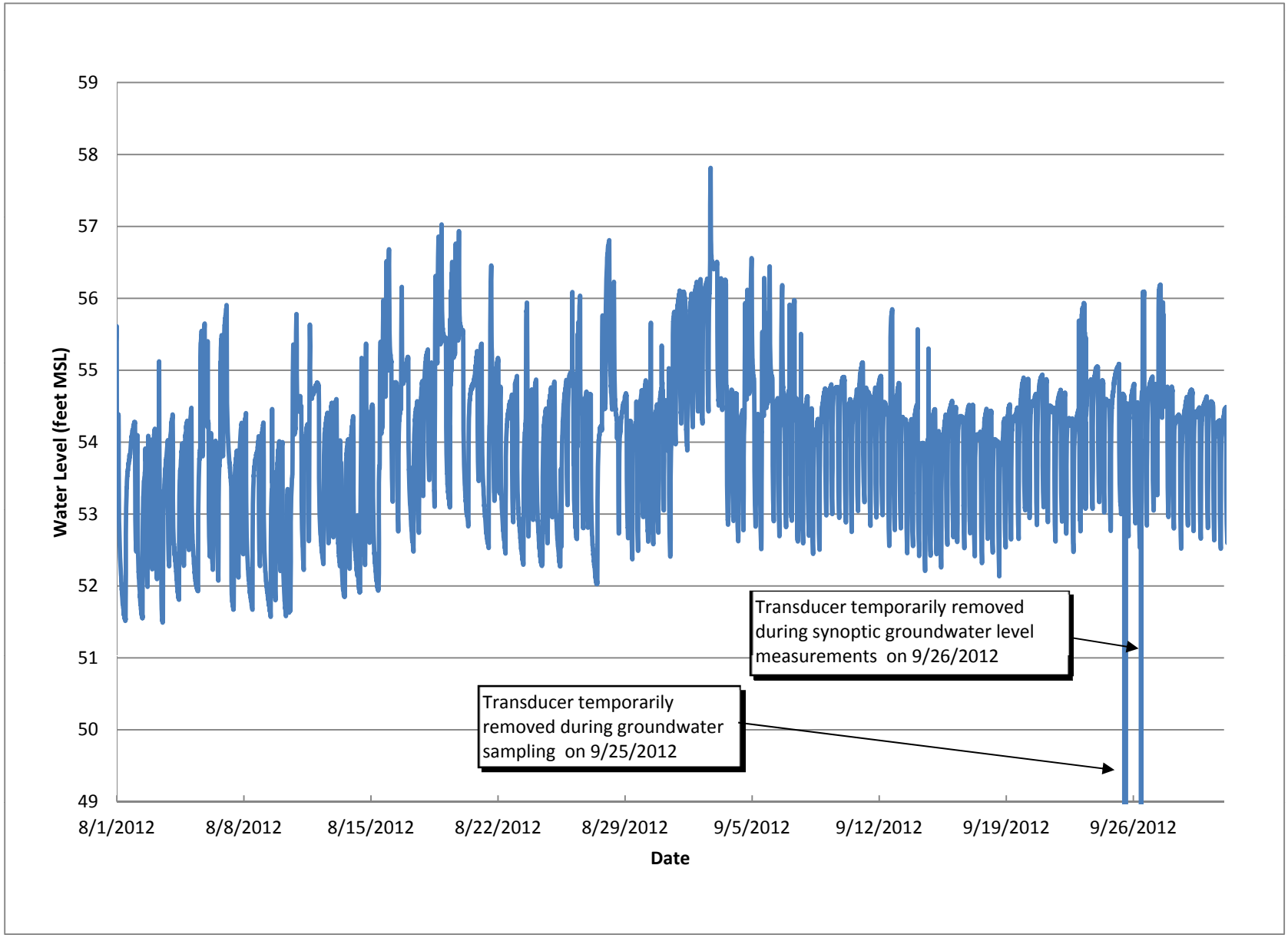
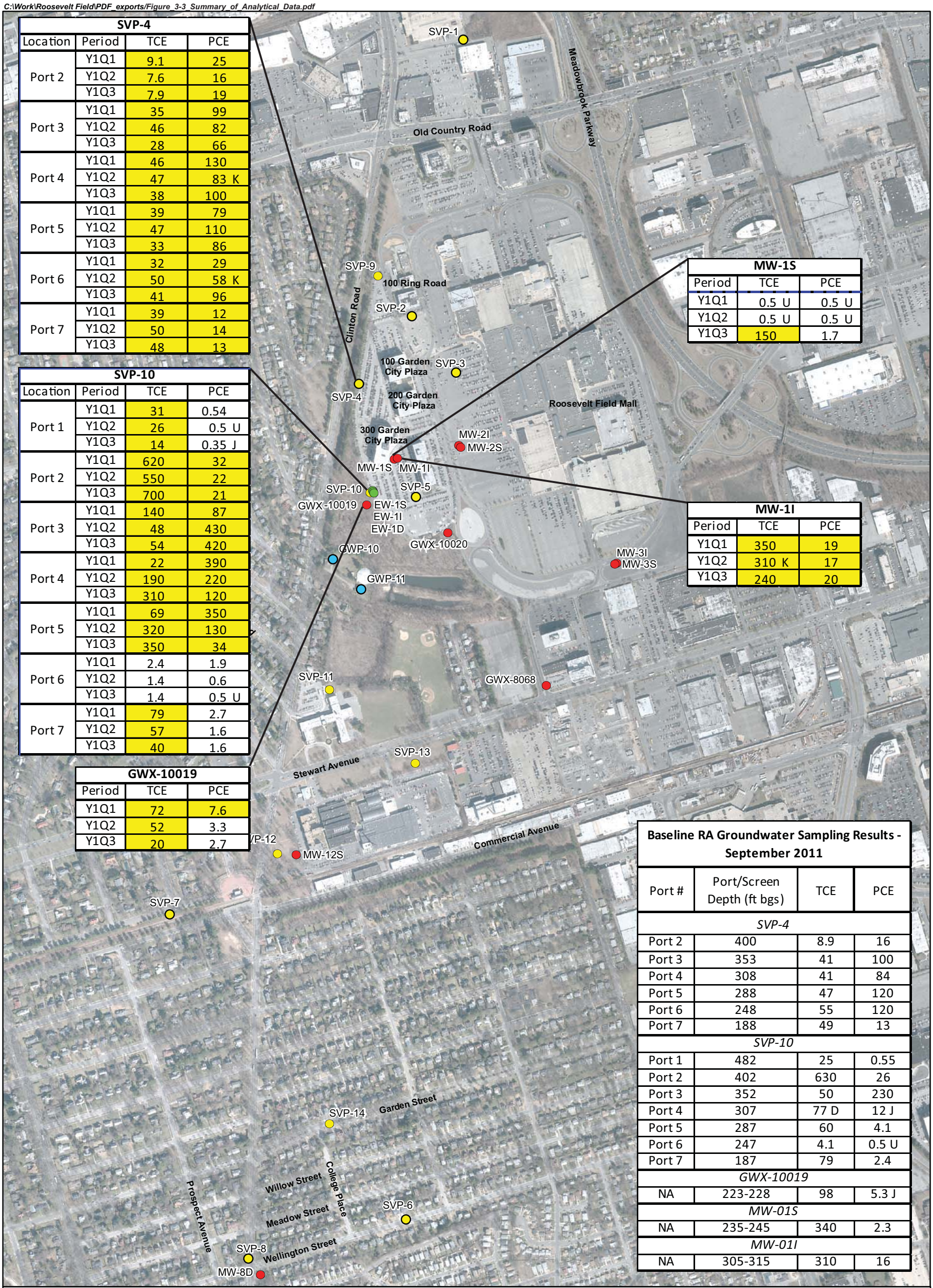
Figure 3-2J
SVP-10 Port 2 Hydrograph
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, Nassau County, New York



CDM Smith



SVP-4

Location	Period	TCE	PCE
Port 2	Y1Q1	9.1	25
	Y1Q2	7.6	16
	Y1Q3	7.9	19
Port 3	Y1Q1	35	99
	Y1Q2	46	82
	Y1Q3	28	66
Port 4	Y1Q1	46	130
	Y1Q2	47	83 K
	Y1Q3	38	100
Port 5	Y1Q1	39	79
	Y1Q2	47	110
	Y1Q3	33	86
Port 6	Y1Q1	32	29
	Y1Q2	50	58 K
	Y1Q3	41	96
Port 7	Y1Q1	39	12
	Y1Q2	50	14
	Y1Q3	48	13

SVP-10

Location	Period	TCE	PCE
Port 1	Y1Q1	31	0.54
	Y1Q2	26	0.5 U
	Y1Q3	14	0.35 J
Port 2	Y1Q1	620	32
	Y1Q2	550	22
	Y1Q3	700	21
Port 3	Y1Q1	140	87
	Y1Q2	48	430
	Y1Q3	54	420
Port 4	Y1Q1	22	390
	Y1Q2	190	220
	Y1Q3	310	120
Port 5	Y1Q1	69	350
	Y1Q2	320	130
	Y1Q3	350	34
Port 6	Y1Q1	2.4	1.9
	Y1Q2	1.4	0.6
	Y1Q3	1.4	0.5 U
Port 7	Y1Q1	79	2.7
	Y1Q2	57	1.6
	Y1Q3	40	1.6

GWX-10019

Period	TCE	PCE
Y1Q1	72	7.6
Y1Q2	52	3.3
Y1Q3	20	2.7

MW-1S

Period	TCE	PCE
Y1Q1	0.5 U	0.5 U
Y1Q2	0.5 U	0.5 U
Y1Q3	150	1.7

MW-1I

Period	TCE	PCE
Y1Q1	350	19
Y1Q2	310 K	17
Y1Q3	240	20

Baseline RA Groundwater Sampling Results - September 2011

Port #	Port/Screen Depth (ft bgs)	TCE	PCE
SVP-4			
Port 2	400	8.9	16
Port 3	353	41	100
Port 4	308	41	84
Port 5	288	47	120
Port 6	248	55	120
Port 7	188	49	13
SVP-10			
Port 1	482	25	0.55
Port 2	402	630	26
Port 3	352	50	230
Port 4	307	77 D	12 J
Port 5	287	60	4.1
Port 6	247	4.1	0.5 U
Port 7	187	79	2.4
GWX-10019			
NA	223-228	98	5.3 J
MW-01S			
NA	235-245	340	2.3
MW-01I			
NA	305-315	310	16

Legend:
- Municipal Pumping Well
- Multiport Well
- Conventional Well
- Extraction Well
- Result above cleanup criteria

Qualifiers:
J - result is estimated
K - result is biased high
U - result is non-detect

Abbreviations:
NA - not applicable
bgs - below ground surface
ft - feet
TCE - trichloroethene
PCE - tetrachloroethene

Sampling Dates:
Y1Q1 - April 3-4, 2012
Y1Q2 - July 17-18, 2012
Y1Q3 - September 25-26, 2012

N

0 350 700 Feet

Notes:
1) Full extraction/treatment system operations commenced on December 31, 2011.
2) All concentrations reported are in micrograms per liter (µg/L).
3) Highlighted cells indicate exceedance of the Record of Decision cleanup criteria (5 µg/L for TCE, 5 µg/L for PCE).

CDM Smith

Figure 3-3
Summary of Analytical Data
Old Roosevelt Contaminated Groundwater Site
Garden City, New York

Appendix A

New York State Pollutant Discharge Elimination System for Discharge to Groundwater Permit Equivalent

New York State Department of Environmental Conservation
Division of Water
Bureau of Water Permits
625 Broadway, 4th Floor
Albany, New York 12233-3505
Phone: (518) 402-8112 • **FAX:** (518) 402-9029
Website: www.dec.state.ny.us

Alexander B. Grannis
Commissioner

MEMORANDUM

TO: John Swartwout, Section C, DER
FROM: Paul Kolakowski, BWP, DOW
SUBJECT: Old Roosevelt Field, Site 1-30-051 - REVISED
DATE: June 2, 2010

In response to your request dated September 15, 2009 and supplemented by the March 11, 2010 letter (addressing upgradient iron sampling), attached please find effluent criteria for the above noted groundwater remediation discharge.

The DOW does not have any regulatory authority over a discharge from a State, PRP, or Federal Superfund Site. DER will be responsible for ensuring compliance with the attached effluent criteria and approval of all engineering submissions. Footnote 1 identifies the Bureau of Site Control as the place to send all effluent results, engineering submissions and modification requests. The Regional Water Engineer should be kept appraised of the status of this discharge and, in accordance with the attached criteria, receive a copy of the effluent results for informational purposes.

If you have any questions, please call me at 2-8104.

Attachments (Effluent Criteria, General Conditions)

cc: Bill Spitz, Regional Water Engineer, R-1 (w/Effluent Criteria)
J. Occidental, DOW (w/Effluent Criteria)

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning October 20, 2009

and lasting until October 19, 2014

the discharges from the treatment facility to Groundwater , Class GA shall be limited and monitored by the operator as specified below:

Outfall Number and Parameter	Discharge Limitations		Units	Minimum Monitoring Requirements	
	Daily Avg.	Daily Max		Measurement Frequency	Sample Type
Outfall 001 - Treated Groundwater Remediation Discharge to Groundwater, Class GA					
Flow	Monitor[1]	Monitor[1]	GPD	Continuous	Recorder
pH (range)	6.5 to 8.5		SU	Daily	Grab
Total Suspended Solids	Monitor	50	mg./l	Monthly	Grab
Total Dissolved Solids	Monitor	1000	mg./l	Monthly	Grab
Oil & Grease	Monitor	15	mg./l	2/Month	Grab
Nitrate + Nitrite (as N)	Monitor	20	mg./l	Monthly	Grab
Chromium, Total	Monitor	100	µg/l	Monthly	Grab
Copper, Total	Monitor	1000	µg/l	Quarterly	Grab
Cyanide, Total	Monitor	400	µg/l	Quarterly	Grab
Iron, Total - NET	Monitor	600[2]	µg/l	Monthly	Grab
Lead, Total	Monitor	50	µg/l	Monthly	Grab
Manganese - NET	Monitor	Monitor[2]	ug/l	Monthly	Grab

Superscripts refer to the footnotes

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number and Parameter	Discharge Limitations		Units	Minimum Monitoring Requirements	
	Daily Avg.	Daily Max		Measurement Frequency	Sample Type
Outfall 001 - cont'd:					
Mercury, Total	Monitor	1.4	µg/l	Quarterly	Grab
Silver, Total	Monitor	100	µg/l	Quarterly	Grab
Zinc, Total	Monitor	5000	µg/l	Quarterly	Grab
Dichlorodifluromethane	Monitor	5.0	µg/l	2/Month	Grab
1.1-Dichloroethene	Monitor	5.0	µg/l	2/Month	Grab
cis-1,2-Dichloroethylene	Monitor	5.0	µg/l	2/Month	Grab
trans-1,2-Dichloroethylene	Monitor	5.0	µg/l	2/Month	Grab
trichlorofloromethane	Monitor	5.0	µg/l	2/Month	Grab
Methyl tert-Butyl Ether (MTBE)	Monitor	Monitor	µg/l	2/Month	Grab
1,1,1-Trichloroethane	Monitor	5.0	µg/l	2/Month	Grab
Tetrachloroethylene (PCE)	Monitor	5.0	µg/l	2/Month	Grab
Trichloroethylene (TCE)	Monitor	5.0	µg/l	2/Month	Grab

Superscripts refer to the footnotes

*

Footnotes:

(1) The discharge rate may not exceed the effective treatment system design capacity.

(2) The sum of iron and manganese shall not exceed 1000 µg/l. NET limit applies and shall be calculated as effluent concentration minus the upgradient wells average concentration. The upgradient wells average concentration will be calculated based on the quarterly groundwater samples data collected from multiport wells SVP4, SVP-5 and SVP-10, and monitoring well GWX-10019.

Additional Conditions:

(1) Discharge is not authorized until such time as an engineering submission showing the method of treatment is approved by the Department. The discharge rate may not exceed the effective or design treatment system capacity. All monitoring data, engineering submissions and modification requests must be submitted to:

Chief, Section C
Remedial Bureau A
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233-7015

With a copy sent to:

Bill Spitz, RWE, R-1
NYSDEC
Building 40 - SUNY @ Stony Brook
Stony Brook, NY 11790 - 2356

(2) Only site generated wastewater is authorized for treatment and discharge.

(3) Authorization to discharge is valid only for the period noted above but may be renewed if appropriate. A request for renewal must be received 6 months prior to the expiration date to allow for a review of monitoring data and reassessment of monitoring requirements.

(4) Both concentration (mg/l or µg/l) and mass loadings (lbs/day) must be reported to the Department for all parameters except flow and pH.

(5) Any use of corrosion/scale inhibitors or biocidal-type compounds used in the treatment process must be approved by the department prior to use.

(6) This discharge and administration of this discharge must comply with the attached General Conditions.

(7) Samples and measurements , to comply with the monitoring requirements specified above, shall be taken from the final treated effluent prior to discharge to Groundwater , Class GA.

Appendix B

Y1Q3 Monthly Operation and Maintenance Summary Reports

AUGUST 2012 MONTHLY OPERATIONS AND MAINTENANCE SUMMARY
OLD ROOSEVELT FIELD SUPERFUND SITE
GARDEN CITY, NEW YORK

CDM Federal Programs Corporation
Subcontract No.
3320-023-001-CN-S

Submitted to:

CDM Federal Programs Corporation
110 Fieldcrest Ave. 6th Floor
Edison, New Jersey 08837

Submitted by:

Arrowhead Contracting, Inc.
10981 Eicher Drive
Lenexa, Kansas 66219

Table of Contents

List of Tables ii
List of Appendices ii
List of Acronyms iii
1.0 Introduction 1
2.0 Operation Activities 1
2.1 Operation Review 1
2.2 Planned Shutdowns 1
2.3 Unplanned Shutdowns 1
3.0 Compliance Sampling 1
3.1 Sampling Activities 2
3.2 Data Summary 2
4.0 Maintenance Activities 3
5.0 Operational Problems Encountered and Remedies 3
6.0 Health and Safety 4

List of Tables

Table	*Title*
2-1	Groundwater Treatment System Operation Summary
3-1	Monthly Sampling Summary
3-2	SPDES Permit Equivalent Parameter Analytical Summary, August 2012
3-3	Operating Values

List of Appendices

A	System Run Time Log
B	Compliance Sample Analytical Data - Air
C	Compliance Sample Analytical Data - Water
D	Compliance Sample Field Water Quality Logs

List of Acronyms

Arrowhead	Arrowhead Contracting, Inc.
CDM Smith	CDM Federal Programs Corp.
CFM	cubic feet per minute
EW	Extraction Well
°F	Degrees Fahrenheit
g/mol	gram per mol
gph	Gallons per hour
gpm	Gallons per minute
in.H_2O	inch of water
kWh	Kilowatt hours
lb/day	pound per day
µg/l	micrograms per liter
mg/l	milligrams per liter
NC	Not collected
NS	Not Sampled
O&M	Operation and maintenance
PLC	Programmable logic controller
ppbv	part per billion per volume
ppm	parts per million
PSI	pounds per square inch
SPDES	State Pollution Discharge Elimination System
SU	Standard Unit
TAL	Target Analyte List
TCL	Target Compound List
TDS	Total Dissolved Solids
TOC	Total Organic Carbon
TSS	Total Suspended Solids
U	Analyzed for but not detected
VOC	Volatile Organic Compound

1.0 Introduction

This report summarizes operation and maintenance activities for the groundwater treatment system at the Old Roosevelt Field (ORF) Superfund Site located in Garden City, New York during the month of August 2012. This document was prepared by Arrowhead Contracting, Inc. (Arrowhead) for CDM Federal Programs Corporation (CDM Smith) under Subcontract No. 3320-023-001-CN-S

2.0 Operation Activities

The system operated throughout the month of August with extraction well EW-1S operating with an average discharge rate of 61 gallons per minute (gpm) and well EW-1D operating at an average 122gpm. Extraction well EW-1I was out of service for the majority of the reporting period due to a low flow rate problem.

2.1 Operation Review

During the reporting period, 7,570,817 gallons were extracted and treated via air stripping with discharge routed to stormwater basin #124. The plant operated this period with 0 hours of planned shutdown time and 37 hours of unplanned shutdown time resulting in operation 95.03% of the month. Refer to Table 2-1 for a summary of plant operation and Appendix A for the control system data summary.

2.2 Planned Shutdowns

There were zero planned shutdowns during the month of August.

2.3 Unplanned Shutdowns

There were 6 unplanned shutdowns totaling 37 hours for the month of August. The shutdowns were due to the various problems as discussed in Section 5.0.

3.0 Compliance Sampling

Sampling conducted this month consisted of the routine bi-monthly water samples and one air sample. All water samples were submitted to the EPA Region 2 laboratory for analysis while the air sample was submitted to the project subcontract laboratory, Test America located in Burlington, Vermont.

3.1 Sampling Activities

Monthly Operation and Maintenance (O&M) water samples were collected on August 15th and 22nd. Per the SPDES permit equivalent, samples are collected for selected parameters twice per month, while samples required for monitoring system performance are collected once per month. Table 3-1 summarizes the required sample frequency and analyte list from each applicable sample location. Influent samples were not collected from EW-1I due to the well being down.

One sample of discharge air was collected on August 25th from a sample port located after the air stripper. The sample was analyzed for Volatile Organic Compounds (VOCs) by EPA Method TO-15. The complete analytical data package can be found in Appendix B. The following table presents a summary of the results:

Location	Constituent	Effluent Air Concentration (ppbv)	Molecular Weight (g/mol)	Air flow Rate (CFM)	Emissions Rate (lb/day)
Air Stripper Effluent	Dichlorodifluoromethane	43	120.91	2,400	0.04585
	Trichlorofluoromethane	95	137.37	2,400	0.11508
	1,1-Dichloroethene	13	96.94	2,400	0.01111
	Methyl tert-butyl ether	6.6	88.15	2,400	0.00513
	cis-1,2-Dichloroethene	34	96.95	2,400	0.02907
	Tetrachloroethene (PCE)	360	165.82	2,400	0.52639
	Trichloroethene (TCE)	430	131.38	2,400	0.49816

3.2 Data Summary

Review of analytical data from bi-monthly compliance sampling indicates the plant met the discharge requirements for all regulated volatile organic compounds (VOCs), applicable metals, and wet chemistry parameters in the water samples. Refer to Table 3-2 for a summary of permit equivalent analyte results and Appendix C for a complete analytical data package. Water quality measurements taken during each sampling event are attached in Appendix D.

Data validation was completed by EPA Region 2 laboratory on all water samples, with qualifiers added as required. The case narrative for the laboratory report identified the following comment:

- Oil and Grease, Sample 1208066-02 was qualified with an “L” due to matrix spike recovery below the laboratory acceptable limits.

Additionally, the following was noted related to reporting limits:

- The laboratory was able to achieve the Contract Required Quantitation Limits (CRQLs) where applicable, for each analyte requested, except for the following – Trace Volatile Organic Compounds.
- Work Order 1208002: The CRQL for Trans-1,3-Dichloropropene in water is 0.5mg/l (SOM1.2-Trace). The laboratory Reporting Limits were raised due to problems associated with the initial calibration curve for all samples.
- Work Order 1208054 and 1208066: The CRQL for Methyl Acetate in water is 0.5mg/l (SOM1.2-Trace). The laboratory reporting limits were raised due to problems associated with the initial calibration curve for samples 1208054-01 through 1208054-05 and 1208066-01 through 1208066-03.

Operating parameters not monitored by the programmable logic controller (PLC) were collected on a weekly basis with the data summarized in Table 3-3.

4.0 Maintenance Activities

All maintenance performed during this period was within the Scope of Work and consisted of routine maintenance activities.

Routine maintenance completed during this reporting period included the following:

- Replacement of filter elements in bag filter housings BF-1 and BF-2:
    - August 5th – Changed 6 bag filters
    - August 13th – Changed 6 bag filters
    - August 18th – Changed 6 bag filters
    - August 26th – Changed 6 bags filters

5.0 Operational Problems Encountered and Remedies

On August 15th a high level alarm from the effluent outfall resulted in a plant shutdown. The high level alarm was the result of a brief, very heavy, rainfall that flooded Clinton Road and the storm drain used for the effluent outfall. After the water receded the plant was restarted with no other associated alarm conditions noted.

6.0 Health and Safety

All work was done according to the project health and safety plan. No injuries or reported incidents occurred during the reporting period.

Operators Verification: On behalf of Arrowhead Contracting Inc., I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as may be noted above.

Doug Ronk: _____

Project Manager

Table 2-1
Old Roosevelt Field Superfund Site
Groundwater Treatment System
Operation Summary
August 2012

Item	January 2012	February 2012	March 2012	April 2012	May 2012	June 2012	July 2012	August 2012	Cummulative	Notes
Calender days in period	31	29	31	30	31	30	31	31	244	
Treatment Plant										
- Run time hours	600	650	707	719	672	615	718	707	5388	
- Uptime %	80.65%	93.39%	95.03%	99.86%	90.37%	85.42%	96.51%	95.03%	92.01%	
Treatment System Downtime (hours)										
- Planned	122	46	35	1	7	15	4	0	230	
- Unplanned	22	0	2	0	65	90	22	37	238	
Well IW-1D										
- Gallons extracted	3,012,802	3,757,323	1,175,249	0	0	3,774,687	5,086,961	5,045,042	21,852,064	*Well IW-1D was removed from service from 3/13/2012 to 6/6/2012
- Average Flow (gpm)	111	98	80	0	0	118	118	122	110	
Well IW-1I										
- Gallons extracted	1,871,342	2,487,744	2,508,002	2,584,468	2,435,937	47,900	0	3,241	11,938,633	
- Average Flow (gpm)	73	65	61	60	62	25	0	12	63	
Well IW-1S										
- Gallons extracted	1,536,837	2,005,829	2,441,717	2,584,452	2,627,651	2,297,920	2,573,828	2,522,534	18,590,767	
- Average Flow (gpm)	57	52	61	60	67	63	60	61	60	
Combined Influent										
- Gallons extracted	6,420,981	8,250,896	6,124,968	5,168,920	5,063,588	6,120,507	7,660,789	7,570,817	52,381,465	

Legend:
gpm - gallons per minute
NA - Data not available
* - Refer to the March 2012 O&M report for explanation for EW-1D shutdown

Table 3-1
Old Roosevelt Field Superfund Site
Groundwater Treatment Plant
Monthly Sampling Summary

Location	Sample Analysis															
	TCL VOC's (SOM0.12)		TAL Metals and Mercury (ISM01.3)		TSS (2540D)		TDS (2540C)		Oil and Grease (see note) (1664a)		Nirate and Nitrite (as N) (353.2)		Total Cyanide (see note) (ISM01.3)		Dissovled Oxygen/Temperature/Conductivity/pH/Turbidity/ORP	
	Week 2	Week 4	Week 2	Week 4	Week 2	Week 4	Week 2	Week 4	Week 2	Week 4	Week 2	Week 4	Week 2	Week 4	Week 2	Week 4
Influent Samples																
- EW-1S	✓														✓	✓
- EW-1I	✓														✓	✓
- EW-1D	✓														✓	✓
- Combined Influent (CI)	✓	✓	✓		✓		✓		✓	✓	✓		✓		✓	✓
Effluent Samples																
- Post air stripper and after caustic injection (EFF)	✓	✓	✓		✓		✓		✓	✓	✓		✓		✓	✓

Notes:

Cyanide sample to be collected only in the following week 2 monthly sampling: January, April, July, and October.

Oil and grease sample to be collected from combined influent (CI) in the following week 2 monthly sampling: February, March, May, and June.

Table 3-2
Old Roosevelt Field Superfund Site
Groundwater Treatment Plant
SPDES Permit Equivalent Parameter Analytical Summary
August 2012

Parameter	Influent Samples												Effluent Samples*				Discharge Permit Equivalent Limit		Notes
	Week 2**								Week 4**				Week 2**		Week 4**				
	EW-1I		EW-1S		EW-1D		Combined Influent		Combined Influent										
pH	NS	SU	5.36	SU	5.37	SU	5.49	SU	6.13	SU	6.61	SU	6.89	SU	6.5 to 8.5	SU	pH values from water quality log in Appendix D
Dichlorodifluromethane	NS	µg/l	2.4	µg/l	16	µg/l	11	µg/l	12	µg/l	0.50 U	µg/l	NS	µg/l	5.0	µg/l	
1,1-Dichloroethane	NS	µg/l	0.50 U	µg/l	1.8	µg/l	1.1	µg/l	1.0	µg/l	0.50 U	µg/l	NS	µg/l	5.0	µg/l	
cis-1,2-Dichloroethylene	NS	µg/l	5.2	µg/l	8.0	µg/l	6.7	µg/l	6.6	µg/l	0.50 U	µg/l	NS	µg/l	5.0	µg/l	
trans-1,2-Dichloroethylene	NS	µg/l	0.50 U	µg/l	2.0	µg/l	1.2	µg/l	1.0	µg/l	0.50 U	µg/l	NS	µg/l	5.0	µg/l	
trichlorofloromethane	NS	µg/l	1.5	µg/l	34	µg/l	21	µg/l	21	µg/l	0.50 U	µg/l	NS	µg/l	5.0	µg/l	
Methyl tert-Butyl Ether (MTBE)	NS	µg/l	11	µg/l	0.68	µg/l	4.70	µg/l	5.0	µg/l	1.6	µg/l	1.9	µg/l	monitor		
1,1,1-Trichloroethane	NS	µg/l	0.50 U	µg/l	0.61	µg/l	0.50 U	µg/l	0.50 U	µg/l	0.50 U	µg/l	NS	µg/l	5.0	µg/l	
Tetrachloroethlyene (PCE)	NS	µg/l	18	µg/l	140	µg/l	91	µg/l	92	µg/l	1.9	µg/l	2.0	µg/l	5.0	µg/l	
Trichloroethylene (TCE)	NS	µg/l	150	µg/l	89	µg/l	110	µg/l	120	µg/l	3.0	µg/l	3.5	µg/l	5.0	µg/l	
Total Suspended Solids	NS	mg/l	NS	mg/l	NS	mg/l	10 U	mg/l	NS	mg/l	10 U	mg/l	NS	mg/l	50	mg/l	
Total Dissolved Solids	NS	mg/l	NS	mg/l	NS	mg/l	280	mg/l	NS	mg/l	240	mg/l	NS	mg/l	1000	mg/l	
Oil & Grease	NS	mg/l	NS	mg/l	NS	mg/l	NS	mg/l	NS	mg/l	5.0 U	mg/l	5.0 UL	mg/l	15.0	mg/l	
Nitrate + Nitrite (as N)	NS	mg/l	NS	mg/l	NS	mg/l	4.8	mg/l	NS	mg/l	4.9	mg/l	NS	mg/l	20	mg/l	
Chromium, Total	NS	µg/l	NS	µg/l	NS	µg/l	5.0 U	µg/l	NS	µg/l	5.0 U	µg/l	NS	µg/l	100	µg/l	
Copper, Total	NS	µg/l	NS	µg/l	NS	µg/l	10 U	µg/l	NS	µg/l	10 U	µg/l	NS	µg/l	1000	µg/l	
Cyanide, Total	NS	µg/l	NS	µg/l	NS	µg/l	NS	µg/l	NS	µg/l	NS	µg/l	NS	µg/l	400	µg/l	
Iron, Total -NET	NS	µg/l	NS	µg/l	NS	µg/l	1100	µg/l	NS	µg/l	50 U	µg/l	NS	µg/l	600	µg/l	
Lead, Total	NS	µg/l	NS	µg/l	NS	µg/l	8.0 U	µg/l	NS	µg/l	8.0 U	µg/l	NS	µg/l	50	µg/l	
Manganese - NET	NS	µg/l	NS	µg/l	NS	µg/l	14	µg/l	NS	µg/l	13	µg/l	NS	µg/l	monitor		
Mercury, Total	NS	µg/l	NS	µg/l	NS	µg/l	0.20 U	µg/l	NS	µg/l	0.20 U	µg/l	NS	µg/l	1.4	µg/l	
Silver, Total	NS	µg/l	NS	µg/l	NS	µg/l	5.0 U	µg/l	NS	µg/l	5.0 U	µg/l	NS	µg/l	100	µg/l	
Zinc, Total	NS	µg/l	NS	µg/l	NS	µg/l	160	µg/l	NS	µg/l	110	µg/l	NS	µg/l	5000	µg/l	

Notes:
Refer to Appendix B for complete analytical data packages.
D - Sample was analyzed at a higher dilution factor
ITP - Initial Testing Program
J - Indicates an estimated value
U - Analyzed for but not detected
L - The reported value may be biased low
K - The reported value may be biased high
NS - Not Sampled
µg/l - micrograms per liter
mg/l -milligrams per liter
SPDES - State Pollutant Discharge Elimination System
SU - Standard Unit
* - Effluent sample is point of compliance with SPDES permit equivalent
** - Week 2 sample collected 8/15/2012, week 4 sample collected 8/22/2012. Analytes for each sampling event per SPDES permit equivalent requirements.

Table 3-3
Old Roosevelt Field
Groundwater Treatment Plant
Operating Values

Parameter	Date: 8/3/12 Reading		Date: 8/15/12 Reading		Date: 8/22/12 Reading		Date: 8/28/12 Reading	
Caustic tank T-2 level	275	gallons	275	gallons	275	gallons	275	gallons
Caustic metering pump discharge pressure	NC	psi	NC	psi	NC	psi	NC	psi
Pump P-1 discharge pressure	2	psi	2	psi	2	psi	2	psi
Pump P-2 discharge pressure	10	psi	10	psi	10	psi	7	psi
Air stripper blower discharge temp	89	°F	88	°F	89	°F	90	°F
Air stripper blower differential pressure	11	in H_2O	10	in H_2O	10	in H_2O	10	in H_2O
VOC level in discharge air	74	ppm	81	ppm	80	ppm	97	ppm
Kilowatt hours (meter reading x40)*	166,540	kWh	172,640	kWh	177,480	kWh	181,440	kWh
Effluent pH	6.90	SU	6.93	SU	6.92	SU	6.97	SU

Legend:
NC - Not Collected
ppm - Parts per million
psi - Pounds per square inch
°F - Degrees Fahrenheit
kWh - Kilowatt hour
in H_2O – Inches water column
SU - Standard Unit
VOC - Volatile Organic Compound
*Spot reading multiplied by factor of 40 per manufacturer's direction

Appendix A
System Run Time Log

Appendix A
Old Roosevelt Field Superfund Site
Groundwater Treatment Plant
System Runtime Log
August 2012

Day	Maximum Bag Filter Differential Pressure psi	Average Effluent pH SU	Well EW-1D daily total discharge gallons	Well EW-1D Aveage Flow Rate gpm	Well EW-1D Average Water Table Elevation ft, amsl	Well EW-1I daily total discharge gallons	Well EW-1I Average Flow Rate gpm	Well EW-1I Average Water Table Elevation ft, amsl	Well EW-1S daily total discharge gallons	Well EW-1S Average Flow Rate gpm	Well EW-1S Average Water Table Elevation ft, amsl	Notes
1	0.71	6.91	172,780	120	188.39	NA	NA	201.35	86,390	60	187.89	
2	0.77	6.89	172,700	120	188.22	NA	NA	201.35	86,350	60	187.79	
3	1.48	6.87	132,920	120	188.99	NA	NA	201.35	66,460	60	188.38	
4	4.10	6.91	172,640	120	188.17	NA	NA	201.35	86,320	60	187.73	
5	10.8	6.88	130,966	116	189.37	NA	NA	201.35	65,480	58	188.60	
6	19.7	6.90	130,326	122	189.68	NA	NA	201.35	65,166	61	188.77	
7	1.76	6.95	111,250	111	189.73	NA	NA	201.35	55,628	56	188.90	
8	0.71	6.90	172,580	120	188.20	NA	NA	201.35	86,290	60	187.69	
9	0.98	6.91	172,020	119	188.08	NA	NA	201.35	86,018	60	187.62	
10	2.60	6.92	172,054	119	188.41	NA	NA	201.35	86,030	60	187.84	
11	6.78	6.94	171,966	119	189.30	NA	NA	201.35	85,984	60	188.50	
12	12.6	6.95	172,640	120	188.88	NA	NA	201.35	86,320	60	188.31	
13	16.0	6.95	170,368	119	188.34	NA	NA	201.35	85,184	60	187.94	
14	0.71	6.93	172,940	126	188.37	NA	NA	201.35	86,470	63	187.93	
15	0.98	6.92	155,424	119	189.36	NA	NA	201.35	77,720	60	188.63	
16	2.14	6.95	172,700	120	189.76	NA	NA	201.35	86,350	60	188.94	
17	6.60	6.94	172,016	119	189.13	NA	NA	201.35	86,006	60	188.65	
18	15.1	6.97	172,108	120	190.17	NA	NA	201.35	86,054	60	189.26	
19	20.7	6.97	165,210	116	190.13	NA	NA	201.35	82,602	58	189.30	
20	0.76	6.93	172,640	120	189.37	NA	NA	201.35	86,320	60	188.81	
21	0.82	6.96	171,904	119	189.04	NA	NA	201.35	85,952	60	188.57	
22	1.38	6.94	171,882	119	188.82	3,241	12	201.35	85,940	60	188.39	
23	5.59	6.93	161,964	117	188.84	NA	NA	201.35	80,982	59	188.42	
24	10.3	6.94	172,016	119	188.66	NA	NA	201.35	86,014	60	188.23	
25	18.1	6.96	172,660	120	188.68	NA	NA	201.35	86,330	60	188.24	
26	21.3	6.99	155,202	109	189.45	NA	NA	201.35	77,610	55	188.75	
27	0.81	6.97	172,640	120	188.81	NA	NA	172.60	86,320	60	188.23	
28	0.80	6.98	173,078	120	190.22	NA	NA	145.72	86,516	60	189.09	
29	0.82	6.99	172,180	120	189.12	NA	NA	145.72	86,090	60	188.45	
30	1.66	7.00	169,608	119	189.03	NA	NA	145.72	84,806	59	188.40	
31	0.86	6.96	113,660	123	190.61	NA	NA	145.72	56,832	61	189.54	

Legend

gpm	gallons per minute
SU	Standard unit
ft, amsl	Feet above mean sea level
max	maximum
avg	average
NA	system/pump was not operating
ND	no data available

Appendix B

Compliance Sample Analytical Data – Air

ANALYTICAL REPORT

Job Number: 200-12423-1

SDG Number: 200-12423

Job Description: Old Roosevelt - Air Only

For:
Arrowhead Contracting
10981 Eicher
Lenexa, KS 66219

Attention: Mr. Doug Ronk

Approved for release.
Rayburn J Lavigne
Project Manager I
8/31/2012 8:49 AM

Rayburn J Lavigne
Project Manager I
rayburnj.lavigne@testamericainc.com
08/31/2012

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

Table of Contents

Cover Title Page 1

Data Summaries 4

Report Narrative 4

Manual Integration Summary 5

Sample Summary 7

Executive Summary 8

Method Summary 9

Method / Analyst Summary 10

Sample Datasheets 11

QC Data Summary 14

Data Qualifiers 20

QC Association Summary 21

Lab Chronicle 22

Reagent Traceability 23

Certification Summary 91

Organic Sample Data 92

Air - GC/MS VOA 92

Method TO15 92

Method TO15 QC Summary 93

Method TO15 Sample Data 100

Standards Data 119

Method TO15 ICAL Data 119

Method TO15 CCAL Data 170

Raw QC Data 184

Method TO15 Tune Data 184

Method TO15 Blank Data 192

Table of Contents

Method TO15 LCS/LCSD Data 200

Method TO15 Run Logs 206

Method TO15 Prep Data 210

Air Canister Dilution 211

Pre-shipment Certification 212

LCS Data 213

Blank Data 215

Tune Data 223

IS/RT Data 225

Clean Canister Data 227

ICAL Data 235

ICV/CCV Data 245

Run Logs 251

Shipping and Receiving Documents 255

Client Chain of Custody 256

Sample Receipt Checklist 258

CASE NARRATIVE

Client: Arrowhead Contracting

Project: Old Roosevelt - Air Only

Report Number: 200-12423-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 08/23/2012; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS - TO-15

Sample AS-EFF-120822 was analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The sample was analyzed on 08/29/2012.

Sample AS-EFF-120822[16X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the VOC analysis.

All quality control parameters were within the acceptance limits.

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Instrument ID: C.i Analysis Batch Number: 43490

Lab Sample ID: IC 200-43490/3 Client Sample ID:

Date Analyzed: 08/14/12 18:13 Lab File ID: ckz003.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	5.13	Poor chromatography	ahk	08/14/12 22:55
Carbon tetrachloride	12.78	Poor chromatography		

Lab Sample ID: IC 200-43490/4 Client Sample ID:

Date Analyzed: 08/14/12 19:07 Lab File ID: ckz004.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	8.95	Poor chromatography		
Methyl tert-butyl ether	9.66	Poor chromatography		
n-Butanol	14.24	Analyte misidentified by the data system	ahk	08/14/12 23:01
trans-1,3-Dichloropropene	17.23	Poor chromatography		
n-Nonane	19.79	Peak not found by the data system	ahk	08/14/12 23:02
n-Dodecane	25.46	Peak not found by the data system	ahk	08/14/12 23:02

Lab Sample ID: IC 200-43490/5 Client Sample ID:

Date Analyzed: 08/14/12 20:00 Lab File ID: ckz005.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Butanol	14.24	Peak not found by the data system	ahk	08/14/12 23:04

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Instrument ID: C.i Analysis Batch Number: 44151

Lab Sample ID: 200-12423-1 Client Sample ID: AS-EFF-120822

Date Analyzed: 08/29/12 08:28 Lab File ID: ckzj024.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon tetrachloride	12.77	Baseline event	wrd	08/29/12 11:10
Toluene	16.73	Baseline event	wrd	08/29/12 11:10

SAMPLE SUMMARY

Client: Arrowhead Contracting

Job Number: 200-12423-1
Sdg Number: 200-12423

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-12423-1	AS-EFF-120822	Air	08/22/2012 1420	08/23/2012 1000

EXECUTIVE SUMMARY - Detections

Client: Arrowhead Contracting

Job Number: 200-12423-1
Sdg Number: 200-12423

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-12423-1	**AS-EFF-120822**					
Dichlorodifluoromethane		43		7.8	ppb v/v	TO-15
Dichlorodifluoromethane		210		38	ug/m3	TO-15
Trichlorofluoromethane		95		3.1	ppb v/v	TO-15
Trichlorofluoromethane		540		17	ug/m3	TO-15
1,1-Dichloroethene		13		3.1	ppb v/v	TO-15
1,1-Dichloroethene		51		12	ug/m3	TO-15
Methyl tert-butyl ether		6.6		3.1	ppb v/v	TO-15
Methyl tert-butyl ether		24		11	ug/m3	TO-15
trans-1,2-Dichloroethene		6.5		3.1	ppb v/v	TO-15
trans-1,2-Dichloroethene		26		12	ug/m3	TO-15
1,1-Dichloroethane		6.3		3.1	ppb v/v	TO-15
1,1-Dichloroethane		25		13	ug/m3	TO-15
cis-1,2-Dichloroethene		34		3.1	ppb v/v	TO-15
cis-1,2-Dichloroethene		130		12	ug/m3	TO-15
Trichloroethene		430		3.1	ppb v/v	TO-15
Trichloroethene		2300		17	ug/m3	TO-15
Tetrachloroethene		360		3.1	ppb v/v	TO-15
Tetrachloroethene		2400		21	ug/m3	TO-15

METHOD SUMMARY

Client: Arrowhead Contracting

Job Number: 200-12423-1
Sdg Number: 200-12423

Description	Lab Location	Method	Preparation Method
Matrix: Air			
Volatile Organic Compounds in Ambient Air	TAL BUR	EPA TO-15	
Collection via Summa Canister	TAL BUR		Summa Canister

Lab References:

TAL BUR = TestAmerica Burlington

Method References:

EPA = US Environmental Protection Agency

METHOD / ANALYST SUMMARY

Client: Arrowhead Contracting

Job Number: 200-12423-1
Sdg Number: 200-12423

Method	Analyst	Analyst ID
EPA TO-15	Desjardins, William R	WRD

Client: Arrowhead Contracting

Job Number: 200-12423-1
Sdg Number: 200-12423

Client Sample ID: **AS-EFF-120822**

Lab Sample ID: 200-12423-1
Client Matrix: Air

Date Sampled: 08/22/2012 1420
Date Received: 08/23/2012 1000

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44151	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ckzj024.d
Dilution:	15.5			Initial Weight/Volume:	51 mL
Analysis Date:	08/29/2012 0828			Final Weight/Volume:	200 mL
Prep Date:	08/29/2012 0828			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	43		7.8
1,2-Dichlorotetrafluoroethane	3.1	U	3.1
Chloromethane	7.8	U	7.8
Vinyl chloride	3.1	U	3.1
1,3-Butadiene	3.1	U	3.1
Bromomethane	3.1	U	3.1
Chloroethane	7.8	U	7.8
Trichlorofluoromethane	95		3.1
1,1-Dichloroethene	13		3.1
Acetone	78	U	78
Isopropyl alcohol	78	U	78
Carbon disulfide	7.8	U	7.8
Methylene Chloride	7.8	U	7.8
Methyl tert-butyl ether	6.6		3.1
trans-1,2-Dichloroethene	6.5		3.1
n-Hexane	3.1	U	3.1
1,1-Dichloroethane	6.3		3.1
Methyl Ethyl Ketone	7.8	U	7.8
cis-1,2-Dichloroethene	34		3.1
Chloroform	3.1	U	3.1
Tetrahydrofuran	78	U	78
1,1,1-Trichloroethane	3.1	U	3.1
Cyclohexane	3.1	U	3.1
Carbon tetrachloride	3.1	U	3.1
Benzene	3.1	U	3.1
1,2-Dichloroethane	3.1	U	3.1
n-Heptane	3.1	U	3.1
Trichloroethene	430		3.1
1,2-Dichloropropane	3.1	U	3.1
Bromodichloromethane	3.1	U	3.1
cis-1,3-Dichloropropene	3.1	U	3.1
methyl isobutyl ketone	7.8	U	7.8
Toluene	3.1	U	3.1
trans-1,3-Dichloropropene	3.1	U	3.1
1,1,2-Trichloroethane	3.1	U	3.1
Tetrachloroethene	360		3.1
Methyl Butyl Ketone (2-Hexanone)	7.8	U	7.8
Dibromochloromethane	3.1	U	3.1
1,2-Dibromoethane	3.1	U	3.1
Chlorobenzene	3.1	U	3.1
Ethylbenzene	3.1	U	3.1
m,p-Xylene	7.8	U	7.8
Xylene, o-	3.1	U	3.1
Xylene (total)	3.1	U	3.1
Styrene	3.1	U	3.1
Bromoform	3.1	U	3.1

Client: Arrowhead Contracting

Job Number: 200-12423-1
Sdg Number: 200-12423

Client Sample ID: **AS-EFF-120822**

Lab Sample ID: 200-12423-1
Client Matrix: Air

Date Sampled: 08/22/2012 1420
Date Received: 08/23/2012 1000

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44151	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ckzj024.d
Dilution:	15.5			Initial Weight/Volume:	51 mL
Analysis Date:	08/29/2012 0828			Final Weight/Volume:	200 mL
Prep Date:	08/29/2012 0828			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Cumene	3.1	U	3.1
1,1,2,2-Tetrachloroethane	3.1	U	3.1
n-Propylbenzene	3.1	U	3.1
4-Ethyltoluene	3.1	U	3.1
1,3,5-Trimethylbenzene	3.1	U	3.1
1,2,4-Trimethylbenzene	3.1	U	3.1
1,3-Dichlorobenzene	3.1	U	3.1
1,4-Dichlorobenzene	3.1	U	3.1
Benzyl chloride	3.1	U	3.1
1,2-Dichlorobenzene	3.1	U	3.1
1,2,4-Trichlorobenzene	7.8	U	7.8
Hexachlorobutadiene	3.1	U	3.1

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	210		38
1,2-Dichlorotetrafluoroethane	22	U	22
Chloromethane	16	U	16
Vinyl chloride	7.9	U	7.9
1,3-Butadiene	6.9	U	6.9
Bromomethane	12	U	12
Chloroethane	20	U	20
Trichlorofluoromethane	540		17
1,1-Dichloroethene	51		12
Acetone	180	U	180
Isopropyl alcohol	190	U	190
Carbon disulfide	24	U	24
Methylene Chloride	27	U	27
Methyl tert-butyl ether	24		11
trans-1,2-Dichloroethene	26		12
n-Hexane	11	U	11
1,1-Dichloroethane	25		13
Methyl Ethyl Ketone	23	U	23
cis-1,2-Dichloroethene	130		12
Chloroform	15	U	15
Tetrahydrofuran	230	U	230
1,1,1-Trichloroethane	17	U	17
Cyclohexane	11	U	11
Carbon tetrachloride	20	U	20
Benzene	9.9	U	9.9
1,2-Dichloroethane	13	U	13
n-Heptane	13	U	13
Trichloroethene	2300		17
1,2-Dichloropropane	14	U	14
Bromodichloromethane	21	U	21
cis-1,3-Dichloropropene	14	U	14
methyl isobutyl ketone	32	U	32

Client: Arrowhead Contracting

Job Number: 200-12423-1
Sdg Number: 200-12423

Client Sample ID: **AS-EFF-120822**

Lab Sample ID: 200-12423-1
Client Matrix: Air

Date Sampled: 08/22/2012 1420
Date Received: 08/23/2012 1000

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44151	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ckzj024.d
Dilution:	15.5			Initial Weight/Volume:	51 mL
Analysis Date:	08/29/2012 0828			Final Weight/Volume:	200 mL
Prep Date:	08/29/2012 0828			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
Toluene	12	U	12
trans-1,3-Dichloropropene	14	U	14
1,1,2-Trichloroethane	17	U	17
Tetrachloroethene	2400		21
Methyl Butyl Ketone (2-Hexanone)	32	U	32
Dibromochloromethane	26	U	26
1,2-Dibromoethane	24	U	24
Chlorobenzene	14	U	14
Ethylbenzene	13	U	13
m,p-Xylene	34	U	34
Xylene, o-	13	U	13
Xylene (total)	13	U	13
Styrene	13	U	13
Bromoform	32	U	32
Cumene	15	U	15
1,1,2,2-Tetrachloroethane	21	U	21
n-Propylbenzene	15	U	15
4-Ethyltoluene	15	U	15
1,3,5-Trimethylbenzene	15	U	15
1,2,4-Trimethylbenzene	15	U	15
1,3-Dichlorobenzene	19	U	19
1,4-Dichlorobenzene	19	U	19
Benzyl chloride	16	U	16
1,2-Dichlorobenzene	19	U	19
1,2,4-Trichlorobenzene	58	U	58
Hexachlorobutadiene	33	U	33

Client: Arrowhead Contracting

Job Number: 200-12423-1
Sdg Number: 200-12423

Method Blank - Batch: 200-44151

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-44151/4	Analysis Batch:	200-44151	Instrument ID:	C.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	ckzj004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	08/28/2012 1434	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	08/28/2012 1434			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Dichlorodifluoromethane	0.50	U	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20
Chloromethane	0.50	U	0.50
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.20	U	0.20
Bromomethane	0.20	U	0.20
Chloroethane	0.50	U	0.50
Trichlorofluoromethane	0.20	U	0.20
1,1-Dichloroethene	0.20	U	0.20
Acetone	5.0	U	5.0
Isopropyl alcohol	5.0	U	5.0
Carbon disulfide	0.50	U	0.50
Methylene Chloride	0.50	U	0.50
Methyl tert-butyl ether	0.20	U	0.20
trans-1,2-Dichloroethene	0.20	U	0.20
n-Hexane	0.20	U	0.20
1,1-Dichloroethane	0.20	U	0.20
Methyl Ethyl Ketone	0.50	U	0.50
cis-1,2-Dichloroethene	0.20	U	0.20
Chloroform	0.20	U	0.20
Tetrahydrofuran	5.0	U	5.0
1,1,1-Trichloroethane	0.20	U	0.20
Cyclohexane	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
Benzene	0.20	U	0.20
1,2-Dichloroethane	0.20	U	0.20
n-Heptane	0.20	U	0.20
Trichloroethene	0.20	U	0.20
1,2-Dichloropropane	0.20	U	0.20
Bromodichloromethane	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
methyl isobutyl ketone	0.50	U	0.50
Toluene	0.20	U	0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Tetrachloroethene	0.20	U	0.20
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50
Dibromochloromethane	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Ethylbenzene	0.20	U	0.20
m,p-Xylene	0.50	U	0.50
Xylene, o-	0.20	U	0.20
Xylene (total)	0.20	U	0.20
Styrene	0.20	U	0.20

Client: Arrowhead Contracting

Job Number: 200-12423-1
Sdg Number: 200-12423

Method Blank - Batch: 200-44151

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-44151/4	Analysis Batch:	200-44151	Instrument ID:	C.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	ckzj004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	08/28/2012 1434	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	08/28/2012 1434			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Bromoform	0.20	U	0.20
Cumene	0.20	U	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20
n-Propylbenzene	0.20	U	0.20
4-Ethyltoluene	0.20	U	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20
1,2,4-Trimethylbenzene	0.20	U	0.20
1,3-Dichlorobenzene	0.20	U	0.20
1,4-Dichlorobenzene	0.20	U	0.20
Benzyl chloride	0.20	U	0.20
1,2-Dichlorobenzene	0.20	U	0.20
1,2,4-Trichlorobenzene	0.50	U	0.50
Hexachlorobutadiene	0.20	U	0.20

Client: Arrowhead Contracting

Job Number: 200-12423-1
Sdg Number: 200-12423

Method Blank - Batch: 200-44151

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-44151/4	Analysis Batch:	200-44151	Instrument ID:	C.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	ckzj004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	08/28/2012 1434	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	08/28/2012 1434			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Dichlorodifluoromethane	2.5	U	2.5
1,2-Dichlorotetrafluoroethane	1.4	U	1.4
Chloromethane	1.0	U	1.0
Vinyl chloride	0.51	U	0.51
1,3-Butadiene	0.44	U	0.44
Bromomethane	0.78	U	0.78
Chloroethane	1.3	U	1.3
Trichlorofluoromethane	1.1	U	1.1
1,1-Dichloroethene	0.79	U	0.79
Acetone	12	U	12
Isopropyl alcohol	12	U	12
Carbon disulfide	1.6	U	1.6
Methylene Chloride	1.7	U	1.7
Methyl tert-butyl ether	0.72	U	0.72
trans-1,2-Dichloroethene	0.79	U	0.79
n-Hexane	0.70	U	0.70
1,1-Dichloroethane	0.81	U	0.81
Methyl Ethyl Ketone	1.5	U	1.5
cis-1,2-Dichloroethene	0.79	U	0.79
Chloroform	0.98	U	0.98
Tetrahydrofuran	15	U	15
1,1,1-Trichloroethane	1.1	U	1.1
Cyclohexane	0.69	U	0.69
Carbon tetrachloride	1.3	U	1.3
Benzene	0.64	U	0.64
1,2-Dichloroethane	0.81	U	0.81
n-Heptane	0.82	U	0.82
Trichloroethene	1.1	U	1.1
1,2-Dichloropropane	0.92	U	0.92
Bromodichloromethane	1.3	U	1.3
cis-1,3-Dichloropropene	0.91	U	0.91
methyl isobutyl ketone	2.0	U	2.0
Toluene	0.75	U	0.75
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,2-Trichloroethane	1.1	U	1.1
Tetrachloroethene	1.4	U	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0
Dibromochloromethane	1.7	U	1.7
1,2-Dibromoethane	1.5	U	1.5
Chlorobenzene	0.92	U	0.92
Ethylbenzene	0.87	U	0.87
m,p-Xylene	2.2	U	2.2
Xylene, o-	0.87	U	0.87
Xylene (total)	0.87	U	0.87
Styrene	0.85	U	0.85

Client: Arrowhead Contracting

Job Number: 200-12423-1
Sdg Number: 200-12423

Method Blank - Batch: 200-44151

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-44151/4	Analysis Batch:	200-44151	Instrument ID:	C.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	ckzj004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	08/28/2012 1434	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	08/28/2012 1434			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Bromoform	2.1	U	2.1
Cumene	0.98	U	0.98
1,1,2,2-Tetrachloroethane	1.4	U	1.4
n-Propylbenzene	0.98	U	0.98
4-Ethyltoluene	0.98	U	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98
1,2,4-Trimethylbenzene	0.98	U	0.98
1,3-Dichlorobenzene	1.2	U	1.2
1,4-Dichlorobenzene	1.2	U	1.2
Benzyl chloride	1.0	U	1.0
1,2-Dichlorobenzene	1.2	U	1.2
1,2,4-Trichlorobenzene	3.7	U	3.7
Hexachlorobutadiene	2.1	U	2.1

Client: Arrowhead Contracting

Job Number: 200-12423-1
Sdg Number: 200-12423

Lab Control Sample - Batch: 200-44151

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	LCS 200-44151/3	Analysis Batch:	200-44151	Instrument ID:	C.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	ckzj003.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	08/28/2012 1341	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	08/28/2012 1341			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dichlorodifluoromethane	10.0	10.5	105	70 - 130	
1,2-Dichlorotetrafluoroethane	10.0	10.2	102	70 - 130	
Chloromethane	10.0	9.84	98	70 - 130	
Vinyl chloride	10.0	9.74	97	70 - 130	
1,3-Butadiene	10.0	10.2	102	70 - 130	
Bromomethane	10.0	9.70	97	70 - 130	
Chloroethane	10.0	9.55	95	70 - 130	
Trichlorofluoromethane	10.0	10.4	104	70 - 130	
1,1-Dichloroethene	10.0	10.8	108	70 - 130	
Acetone	10.0	10.9	109	70 - 130	
Isopropyl alcohol	10.0	10.6	106	70 - 130	
Carbon disulfide	10.0	10.1	101	70 - 130	
Methylene Chloride	10.0	10.2	102	70 - 130	
Methyl tert-butyl ether	10.0	10.8	108	70 - 130	
trans-1,2-Dichloroethene	10.0	9.92	99	70 - 130	
n-Hexane	10.0	9.76	98	70 - 130	
1,1-Dichloroethane	10.0	9.84	98	70 - 130	
Methyl Ethyl Ketone	10.0	10.4	104	70 - 130	
cis-1,2-Dichloroethene	10.0	9.87	99	70 - 130	
Chloroform	10.0	10.1	101	70 - 130	
Tetrahydrofuran	10.0	10.1	101	70 - 130	
1,1,1-Trichloroethane	10.0	10.3	103	70 - 130	
Cyclohexane	10.0	9.77	98	70 - 130	
Carbon tetrachloride	10.0	10.2	102	70 - 130	
Benzene	10.0	9.47	95	70 - 130	
1,2-Dichloroethane	10.0	10.4	104	70 - 130	
n-Heptane	10.0	9.48	95	70 - 130	
Trichloroethene	10.0	9.68	97	70 - 130	
1,2-Dichloropropane	10.0	9.41	94	70 - 130	
Bromodichloromethane	10.0	10.7	107	70 - 130	
cis-1,3-Dichloropropene	10.0	9.89	99	70 - 130	
methyl isobutyl ketone	10.0	11.0	110	70 - 130	
Toluene	10.0	9.79	98	70 - 130	
trans-1,3-Dichloropropene	10.0	10.5	105	70 - 130	
1,1,2-Trichloroethane	10.0	9.14	91	70 - 130	
Tetrachloroethene	10.0	9.87	99	70 - 130	
Methyl Butyl Ketone (2-Hexanone)	10.0	10.7	107	70 - 130	
Dibromochloromethane	10.0	11.0	110	70 - 130	
1,2-Dibromoethane	10.0	9.89	99	70 - 130	
Chlorobenzene	10.0	9.65	97	70 - 130	
Ethylbenzene	10.0	9.82	98	70 - 130	
m,p-Xylene	20.0	20.0	100	70 - 130	
Xylene, o-	10.0	9.94	99	70 - 130	
Styrene	10.0	10.5	105	70 - 130	
Bromoform	10.0	11.3	113	70 - 130	
Cumene	10.0	10.2	102	70 - 130	

Client: Arrowhead Contracting

Job Number: 200-12423-1
Sdg Number: 200-12423

Lab Control Sample - Batch: 200-44151

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	LCS 200-44151/3	Analysis Batch:	200-44151	Instrument ID:	C.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	ckzj003.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	08/28/2012 1341	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	08/28/2012 1341			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,2,2-Tetrachloroethane	10.0	9.34	93	70 - 130	
n-Propylbenzene	10.0	10.3	103	70 - 130	
4-Ethyltoluene	10.0	10.8	109	70 - 130	
1,3,5-Trimethylbenzene	10.0	10.0	100	70 - 130	
1,2,4-Trimethylbenzene	10.0	10.1	101	70 - 130	
1,3-Dichlorobenzene	10.0	10.2	102	70 - 130	
1,4-Dichlorobenzene	10.0	10.3	103	70 - 130	
Benzyl chloride	10.0	10.9	109	70 - 130	
1,2-Dichlorobenzene	10.0	10.1	101	70 - 130	
1,2,4-Trichlorobenzene	10.0	11.9	119	70 - 130	
Hexachlorobutadiene	10.0	11.6	116	70 - 130	

DATA REPORTING QUALIFIERS

Client: Arrowhead Contracting

Job Number: 200-12423-1
Sdg Number: 200-12423

Lab Section	Qualifier	Description
Air - GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.

Client: Arrowhead Contracting

Job Number: 200-12423-1
Sdg Number: 200-12423

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Air - GC/MS VOA					
Analysis Batch:200-44151					
LCS 200-44151/3	Lab Control Sample	T	Air	TO-15	
MB 200-44151/4	Method Blank	T	Air	TO-15	
200-12423-1	AS-EFF-120822	T	Air	TO-15	

Report Basis
T = Total

Client: Arrowhead Contracting

Job Number: 200-12423-1
SDG: 200-12423

Laboratory Chronicle

Lab ID: **200-12423-1** **Client ID:** **AS-EFF-120822**

Sample Date/Time: 08/22/2012 14:20 Received Date/Time: 08/23/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12423-A-1		200-44151		08/29/2012 08:28	15.5	TAL BUR	WRD
A:TO-15	200-12423-A-1		200-44151		08/29/2012 08:28	15.5	TAL BUR	WRD

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	MB 200-44151/4		200-44151		08/28/2012 14:34	1	TAL BUR	WRD
A:TO-15	MB 200-44151/4		200-44151		08/28/2012 14:34	1	TAL BUR	WRD

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	LCS 200-44151/3		200-44151		08/28/2012 13:41	1	TAL BUR	WRD
A:TO-15	LCS 200-44151/3		200-44151		08/28/2012 13:41	1	TAL BUR	WRD

Lab References:
TAL BUR = TestAmerica Burlington

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ATTO15CAL1w_00074	10/25/12	08/13/12	DI WATER, Lot 3142	15.463 L	ATTO15CAL6w_00052	155 mL	1,1,1-Trichloroethane	0.20044 ppb v/v
							1,1,2,2-Tetrachloroethane	0.20044 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	0.20044 ppb v/v
							1,1,2-Trichloroethane	0.20044 ppb v/v
							1,1-Dichloroethane	0.20044 ppb v/v
							1,1-Dichloroethene	0.20044 ppb v/v
							1,2,3-Trichlorobenzene	0.20044 ppb v/v
							1,2,3-Trichloropropane	0.20044 ppb v/v
							1,2,4-Trichlorobenzene	0.20044 ppb v/v
							1,2,4-Trimethylbenzene	0.20044 ppb v/v
							1,2-Dibromoethane	0.20044 ppb v/v
							1,2-Dichlorobenzene	0.20044 ppb v/v
							1,2-Dichloroethane	0.20044 ppb v/v
							1,2-Dichloropropane	0.20044 ppb v/v
							1,2-Dichlorotetrafluoroethane	0.20044 ppb v/v
							1,3,5-Trimethylbenzene	0.20044 ppb v/v
							1,3-Butadiene	0.20044 ppb v/v
							1,3-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dioxane	0.20044 ppb v/v
							2-Chlorotoluene	0.20044 ppb v/v
							2-Methyl-2-propanol	0.20044 ppb v/v
							2-Methylbutane	0.20044 ppb v/v
							3-Chloro-1-propene	0.20044 ppb v/v
							4-Ethyltoluene	0.20044 ppb v/v
							4-Isopropyltoluene	0.20044 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	0.20044 ppb v/v
							Acetonitrile	0.20044 ppb v/v
							Acrolein	0.20044 ppb v/v
							Acrylonitrile	0.20044 ppb v/v
							Alpha Methyl Styrene	0.20044 ppb v/v
							Benzene	0.20044 ppb v/v
							Benzyl chloride	0.20044 ppb v/v
							Bromodichloromethane	0.20044 ppb v/v
							Bromoform	0.20044 ppb v/v
							Bromomethane	0.20044 ppb v/v
							Butane	0.20044 ppb v/v
							Carbon disulfide	0.20044 ppb v/v
							Carbon tetrachloride	0.20044 ppb v/v
							Chlorobenzene	0.20044 ppb v/v
							Chlorodifluoromethane	0.20044 ppb v/v
							Chloroethane	0.20044 ppb v/v
							Chloroform	0.20044 ppb v/v
							Chloromethane	0.20044 ppb v/v
							cis-1,2-Dichloroethene	0.20044 ppb v/v
							cis-1,3-Dichloropropene	0.20044 ppb v/v
							Cumene	0.20044 ppb v/v
							Cyclohexane	0.20044 ppb v/v
							Dibromochloromethane	0.20044 ppb v/v
							Dibromomethane	0.20044 ppb v/v
							Dichlorodifluoromethane	0.20044 ppb v/v
							Dodecane	0.20044 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl acetate	0.20044 ppb v/v
							Ethyl ether	0.20044 ppb v/v
							Ethylbenzene	0.20044 ppb v/v
							Hexachlorobutadiene	0.20044 ppb v/v
							Isooctane	0.20044 ppb v/v
							Isopropyl alcohol	0.20044 ppb v/v
							m,p-Xylene	0.400879 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	0.20044 ppb v/v
							Methyl Ethyl Ketone	0.20044 ppb v/v
							methyl isobutyl ketone	0.20044 ppb v/v
							Methyl methacrylate	0.20044 ppb v/v
							Methyl tert-butyl ether	0.20044 ppb v/v
							Methylene Chloride	0.20044 ppb v/v
							n-Butanol	0.20044 ppb v/v
							n-Butylbenzene	0.20044 ppb v/v
							n-Decane	0.20044 ppb v/v
							n-Heptane	0.20044 ppb v/v
							n-Hexane	0.20044 ppb v/v
							n-Nonane	0.20044 ppb v/v
							n-Octane	0.20044 ppb v/v
							n-Propylbenzene	0.20044 ppb v/v
							Naphthalene	0.20044 ppb v/v
							Pentane	0.20044 ppb v/v
							Propene	0.20044 ppb v/v
							sec-Butylbenzene	0.20044 ppb v/v
							Styrene	0.20044 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	0.20044 ppb v/v
							Tetrachloroethene	0.20044 ppb v/v
							Tetrahydrofuran	0.20044 ppb v/v
							Toluene	0.20044 ppb v/v
							trans-1,2-Dichloroethene	0.20044 ppb v/v
							trans-1,3-Dichloropropene	0.20044 ppb v/v
							Trichloroethene	0.20044 ppb v/v
							Trichlorofluoromethane	0.20044 ppb v/v
							Undecane	0.20044 ppb v/v
							Vinyl acetate	0.20044 ppb v/v
							Vinyl bromide	0.20044 ppb v/v
							Vinyl chloride	0.20044 ppb v/v
							Xylene, o-	0.20044 ppb v/v
							Ethanol	0.400944 ppb v/v
.ATTO15CAL6w_00052	10/25/12	07/27/12	DI WATER, Lot 4943	15.463 L	ATTO15CALSTKi_00033	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,3-Trichlorobenzene	19.9961 ppb v/v
							1,2,3-Trichloropropane	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dibromoethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,2-Dichlorotetrafluoroethane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Butadiene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methyl-2-propanol	19.9961 ppb v/v
							2-Methylbutane	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Isopropyltoluene	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Acetonitrile	19.9961 ppb v/v
							Acrolein	19.9961 ppb v/v
							Acrylonitrile	19.9961 ppb v/v
							Alpha Methyl Styrene	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Benzyl chloride	19.9961 ppb v/v
							Bromodichloromethane	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butane	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodifluoromethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,2-Dichloroethene	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cumene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dibromochloromethane	19.9961 ppb v/v
							Dibromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Dodecane	19.9961 ppb v/v
							Ethyl acetate	19.9961 ppb v/v
							Ethyl ether	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m,p-Xylene	39.9922 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	19.9961 ppb v/v
							Methyl Ethyl Ketone	19.9961 ppb v/v
							methyl isobutyl ketone	19.9961 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	19.9961 ppb v/v
							n-Butanol	19.9961 ppb v/v
							n-Butylbenzene	19.9961 ppb v/v
							n-Decane	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							n-Hexane	19.9961 ppb v/v
							n-Nonane	19.9961 ppb v/v
							n-Octane	19.9961 ppb v/v
							n-Propylbenzene	19.9961 ppb v/v
							Naphthalene	19.9961 ppb v/v
							Pentane	19.9961 ppb v/v
							Propene	19.9961 ppb v/v
							sec-Butylbenzene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							tert-Butylbenzene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,2-Dichloroethene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Undecane	19.9961 ppb v/v
							Vinyl acetate	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Xylene, o-	19.9961 ppb v/v
					ATTO15EthCALw_00031	1237 mL	Ethanol	39.9987 ppb v/v
..ATTO15CALSTKi_00033	10/25/12	07/25/12	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00008	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodifluoromethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
...ATTO15CALs_00008	12/07/12	Spectra Gases, Lot cc-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodifluoromethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
..ATTO15EthCALw_00031	10/26/12	07/26/12	VOA Free Water, Lot 1020	37.5 ppb	ATTO15EthCALs_00005	18.75 uL	Ethanol	500 ppb v/v
...ATTO15EthCALs_00005	12/07/12	SIGMA, Lot 05796KM			(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL2w_00063	10/25/12	08/13/12	DI WATER, Lot 3611	15.463 L	ATTO15CAL6w_00052	387 mL	1,1,1-Trichloroethane	0.500453 ppb v/v
							1,1,2,2-Tetrachloroethane	0.500453 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	0.500453 ppb v/v
							1,1,2-Trichloroethane	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	0.500453 ppb v/v
							1,1-Dichloroethene	0.500453 ppb v/v
							1,2,3-Trichlorobenzene	0.500453 ppb v/v
							1,2,3-Trichloropropane	0.500453 ppb v/v
							1,2,4-Trichlorobenzene	0.500453 ppb v/v
							1,2,4-Trimethylbenzene	0.500453 ppb v/v
							1,2-Dibromoethane	0.500453 ppb v/v
							1,2-Dichlorobenzene	0.500453 ppb v/v
							1,2-Dichloroethane	0.500453 ppb v/v
							1,2-Dichloropropane	0.500453 ppb v/v
							1,2-Dichlorotetrafluoroethane	0.500453 ppb v/v
							1,3,5-Trimethylbenzene	0.500453 ppb v/v
							1,3-Butadiene	0.500453 ppb v/v
							1,3-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dioxane	0.500453 ppb v/v
							2-Chlorotoluene	0.500453 ppb v/v
							2-Methyl-2-propanol	0.500453 ppb v/v
							2-Methylbutane	0.500453 ppb v/v
							3-Chloro-1-propene	0.500453 ppb v/v
							4-Ethyltoluene	0.500453 ppb v/v
							4-Isopropyltoluene	0.500453 ppb v/v
							Acetone	0.500453 ppb v/v
							Acetonitrile	0.500453 ppb v/v
							Acrolein	0.500453 ppb v/v
							Acrylonitrile	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Alpha Methyl Styrene	0.500453 ppb v/v
							Benzene	0.500453 ppb v/v
							Benzyl chloride	0.500453 ppb v/v
							Bromodichloromethane	0.500453 ppb v/v
							Bromoform	0.500453 ppb v/v
							Bromomethane	0.500453 ppb v/v
							Butane	0.500453 ppb v/v
							Carbon disulfide	0.500453 ppb v/v
							Carbon tetrachloride	0.500453 ppb v/v
							Chlorobenzene	0.500453 ppb v/v
							Chlorodifluoromethane	0.500453 ppb v/v
							Chloroethane	0.500453 ppb v/v
							Chloroform	0.500453 ppb v/v
							Chloromethane	0.500453 ppb v/v
							cis-1,2-Dichloroethene	0.500453 ppb v/v
							cis-1,3-Dichloropropene	0.500453 ppb v/v
							Cumene	0.500453 ppb v/v
							Cyclohexane	0.500453 ppb v/v
							Dibromochloromethane	0.500453 ppb v/v
							Dibromomethane	0.500453 ppb v/v
							Dichlorodifluoromethane	0.500453 ppb v/v
							Dodecane	0.500453 ppb v/v
							Ethyl acetate	0.500453 ppb v/v
							Ethyl ether	0.500453 ppb v/v
							Ethylbenzene	0.500453 ppb v/v
							Hexachlorobutadiene	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isooctane	0.500453 ppb v/v
							Isopropyl alcohol	0.500453 ppb v/v
							m,p-Xylene	1.00091 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	0.500453 ppb v/v
							Methyl Ethyl Ketone	0.500453 ppb v/v
							methyl isobutyl ketone	0.500453 ppb v/v
							Methyl methacrylate	0.500453 ppb v/v
							Methyl tert-butyl ether	0.500453 ppb v/v
							Methylene Chloride	0.500453 ppb v/v
							n-Butanol	0.500453 ppb v/v
							n-Butylbenzene	0.500453 ppb v/v
							n-Decane	0.500453 ppb v/v
							n-Heptane	0.500453 ppb v/v
							n-Hexane	0.500453 ppb v/v
							n-Nonane	0.500453 ppb v/v
							n-Octane	0.500453 ppb v/v
							n-Propylbenzene	0.500453 ppb v/v
							Naphthalene	0.500453 ppb v/v
							Pentane	0.500453 ppb v/v
							Propene	0.500453 ppb v/v
							sec-Butylbenzene	0.500453 ppb v/v
							Styrene	0.500453 ppb v/v
							tert-Butylbenzene	0.500453 ppb v/v
							Tetrachloroethene	0.500453 ppb v/v
							Tetrahydrofuran	0.500453 ppb v/v
							Toluene	0.500453 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	0.500453 ppb v/v
							trans-1,3-Dichloropropene	0.500453 ppb v/v
							Trichloroethene	0.500453 ppb v/v
							Trichlorofluoromethane	0.500453 ppb v/v
							Undecane	0.500453 ppb v/v
							Vinyl acetate	0.500453 ppb v/v
							Vinyl bromide	0.500453 ppb v/v
							Vinyl chloride	0.500453 ppb v/v
							Xylene, o-	0.500453 ppb v/v
							Ethanol	5.01064 ppb v/v
					ATTO15EthCALw_00031	124 mL	Ethanol	5.01064 ppb v/v
.ATTO15CAL6w_00052	10/25/12	07/27/12	DI WATER, Lot 4943	15.463 L	ATTO15CALSTKi_00033	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,3-Trichlorobenzene	19.9961 ppb v/v
							1,2,3-Trichloropropane	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dibromoethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,2-Dichlorotetrafluoroethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Butadiene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methyl-2-propanol	19.9961 ppb v/v
							2-Methylbutane	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Isopropyltoluene	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Acetonitrile	19.9961 ppb v/v
							Acrolein	19.9961 ppb v/v
							Acrylonitrile	19.9961 ppb v/v
							Alpha Methyl Styrene	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Benzyl chloride	19.9961 ppb v/v
							Bromodichloromethane	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butane	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodifluoromethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,2-Dichloroethene	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cumene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dibromochloromethane	19.9961 ppb v/v
							Dibromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Dodecane	19.9961 ppb v/v
							Ethyl acetate	19.9961 ppb v/v
							Ethyl ether	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m,p-Xylene	39.9922 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	19.9961 ppb v/v
							Methyl Ethyl Ketone	19.9961 ppb v/v
							methyl isobutyl ketone	19.9961 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Butanol	19.9961 ppb v/v
							n-Butylbenzene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Decane	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							n-Hexane	19.9961 ppb v/v
							n-Nonane	19.9961 ppb v/v
							n-Octane	19.9961 ppb v/v
							n-Propylbenzene	19.9961 ppb v/v
							Naphthalene	19.9961 ppb v/v
							Pentane	19.9961 ppb v/v
							Propene	19.9961 ppb v/v
							sec-Butylbenzene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							tert-Butylbenzene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,2-Dichloroethene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Undecane	19.9961 ppb v/v
							Vinyl acetate	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
							Xylene, o-	19.9961 ppb v/v
					ATTO15EthCALw_00031	1237 mL	Ethanol	39.9987 ppb v/v
..ATTO15CALSTKi_00033	10/25/12	07/25/12	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00008	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluor oethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodifluoromethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
...ATTO15CALs_00008	12/07/12	Spectra Gases, Lot cc-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodifluoromethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
..ATTO15EthCALw_00031	10/26/12	07/26/12	VOA Free Water, Lot 1020	37.5 ppb	ATTO15EthCALs_00005	18.75 uL	Ethanol	500 ppb v/v
...ATTO15EthCALs_00005	12/07/12		SIGMA, Lot 05796KM		(Purchased Reagent)		Ethanol	1 mL/mL
.ATTO15EthCALw_00031	10/26/12	07/26/12	VOA Free Water, Lot 1020	37.5 ppb	ATTO15EthCALs_00005	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00005	12/07/12		SIGMA, Lot 05796KM		(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL3w_00076	10/25/12	07/27/12	DI WATER, Lot 3639	15.463 L	ATTO15CALSTKi_00033	386 mL	1,1,1-Trichloroethane	4.99256 ppb v/v
							1,1,2,2-Tetrachloroethane	4.99256 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	4.99256 ppb v/v
							1,1,2-Trichloroethane	4.99256 ppb v/v
							1,1-Dichloroethane	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	4.99256 ppb v/v
							1,2,3-Trichlorobenzene	4.99256 ppb v/v
							1,2,3-Trichloropropane	4.99256 ppb v/v
							1,2,4-Trichlorobenzene	4.99256 ppb v/v
							1,2,4-Trimethylbenzene	4.99256 ppb v/v
							1,2-Dibromoethane	4.99256 ppb v/v
							1,2-Dichlorobenzene	4.99256 ppb v/v
							1,2-Dichloroethane	4.99256 ppb v/v
							1,2-Dichloropropane	4.99256 ppb v/v
							1,2-Dichlorotetrafluoroethane	4.99256 ppb v/v
							1,3,5-Trimethylbenzene	4.99256 ppb v/v
							1,3-Butadiene	4.99256 ppb v/v
							1,3-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dioxane	4.99256 ppb v/v
							2-Chlorotoluene	4.99256 ppb v/v
							2-Methyl-2-propanol	4.99256 ppb v/v
							2-Methylbutane	4.99256 ppb v/v
							3-Chloro-1-propene	4.99256 ppb v/v
							4-Ethyltoluene	4.99256 ppb v/v
							4-Isopropyltoluene	4.99256 ppb v/v
							Acetone	4.99256 ppb v/v
							Acetonitrile	4.99256 ppb v/v
							Acrolein	4.99256 ppb v/v
							Acrylonitrile	4.99256 ppb v/v
							Alpha Methyl Styrene	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	4.99256 ppb v/v
							Benzyl chloride	4.99256 ppb v/v
							Bromodichloromethane	4.99256 ppb v/v
							Bromoform	4.99256 ppb v/v
							Bromomethane	4.99256 ppb v/v
							Butane	4.99256 ppb v/v
							Carbon disulfide	4.99256 ppb v/v
							Carbon tetrachloride	4.99256 ppb v/v
							Chlorobenzene	4.99256 ppb v/v
							Chlorodifluoromethane	4.99256 ppb v/v
							Chloroethane	4.99256 ppb v/v
							Chloroform	4.99256 ppb v/v
							Chloromethane	4.99256 ppb v/v
							cis-1,2-Dichloroethene	4.99256 ppb v/v
							cis-1,3-Dichloropropene	4.99256 ppb v/v
							Cumene	4.99256 ppb v/v
							Cyclohexane	4.99256 ppb v/v
							Dibromochloromethane	4.99256 ppb v/v
							Dibromomethane	4.99256 ppb v/v
							Dichlorodifluoromethane	4.99256 ppb v/v
							Dodecane	4.99256 ppb v/v
							Ethyl acetate	4.99256 ppb v/v
							Ethyl ether	4.99256 ppb v/v
							Ethylbenzene	4.99256 ppb v/v
							Hexachlorobutadiene	4.99256 ppb v/v
							Isooctane	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	4.99256 ppb v/v
							m,p-Xylene	9.98513 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	4.99256 ppb v/v
							Methyl Ethyl Ketone	4.99256 ppb v/v
							methyl isobutyl ketone	4.99256 ppb v/v
							Methyl methacrylate	4.99256 ppb v/v
							Methyl tert-butyl ether	4.99256 ppb v/v
							Methylene Chloride	4.99256 ppb v/v
							n-Butanol	4.99256 ppb v/v
							n-Butylbenzene	4.99256 ppb v/v
							n-Decane	4.99256 ppb v/v
							n-Heptane	4.99256 ppb v/v
							n-Hexane	4.99256 ppb v/v
							n-Nonane	4.99256 ppb v/v
							n-Octane	4.99256 ppb v/v
							n-Propylbenzene	4.99256 ppb v/v
							Naphthalene	4.99256 ppb v/v
							Pentane	4.99256 ppb v/v
							Propene	4.99256 ppb v/v
							sec-Butylbenzene	4.99256 ppb v/v
							Styrene	4.99256 ppb v/v
							tert-Butylbenzene	4.99256 ppb v/v
							Tetrachloroethene	4.99256 ppb v/v
							Tetrahydrofuran	4.99256 ppb v/v
							Toluene	4.99256 ppb v/v
							trans-1,2-Dichloroethene	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	4.99256 ppb v/v
							Trichloroethene	4.99256 ppb v/v
							Trichlorofluoromethane	4.99256 ppb v/v
							Undecane	4.99256 ppb v/v
							Vinyl acetate	4.99256 ppb v/v
							Vinyl bromide	4.99256 ppb v/v
							Vinyl chloride	4.99256 ppb v/v
							Xylene, o-	4.99256 ppb v/v
					ATTO15EthCALw_00031	309 mL	Ethanol	9.99159 ppb v/v
.ATTO15CALSTKi_00033	10/25/12	07/25/12	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00008	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodifluoromethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15CALs_00008	12/07/12	Spectra Gases, Lot cc-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	1 ppm v/v
							Chlorodifluoromethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00031	10/26/12	07/26/12	VOA Free Water, Lot 1020	37.5 ppb	ATTO15EthCALs_00005	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00005	12/07/12	SIGMA, Lot 05796KM			(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL4w_00208	10/25/12	07/27/12	DI WATER, Lot 3642	15.463 L	ATTO15CALSTKi_00033	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,3-Trichlorobenzene	9.99806 ppb v/v
							1,2,3-Trichloropropane	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dibromoethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,2-Dichlorotetrafluoroethane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Butadiene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dioxane	9.99806 ppb v/v
							2-Chlorotoluene	9.99806 ppb v/v
							2-Methyl-2-propanol	9.99806 ppb v/v
							2-Methylbutane	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chloro-1-propene	9.99806 ppb v/v
							4-Ethyltoluene	9.99806 ppb v/v
							4-Isopropyltoluene	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Acetonitrile	9.99806 ppb v/v
							Acrolein	9.99806 ppb v/v
							Acrylonitrile	9.99806 ppb v/v
							Alpha Methyl Styrene	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Benzyl chloride	9.99806 ppb v/v
							Bromodichloromethane	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Butane	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chlorodifluoromethane	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,2-Dichloroethene	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cumene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dibromochloromethane	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Dodecane	9.99806 ppb v/v
							Ethyl acetate	9.99806 ppb v/v
							Ethyl ether	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Isooctane	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							m,p-Xylene	19.9961 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	9.99806 ppb v/v
							Methyl Ethyl Ketone	9.99806 ppb v/v
							methyl isobutyl ketone	9.99806 ppb v/v
							Methyl methacrylate	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Butanol	9.99806 ppb v/v
							n-Butylbenzene	9.99806 ppb v/v
							n-Decane	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							n-Hexane	9.99806 ppb v/v
							n-Nonane	9.99806 ppb v/v
							n-Octane	9.99806 ppb v/v
							n-Propylbenzene	9.99806 ppb v/v
							Naphthalene	9.99806 ppb v/v
							Pentane	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Propene	9.99806 ppb v/v
							sec-Butylbenzene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							tert-Butylbenzene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,2-Dichloroethene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Undecane	9.99806 ppb v/v
							Vinyl acetate	9.99806 ppb v/v
							Vinyl bromide	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
							Xylene, o-	9.99806 ppb v/v
					ATTO15EthCALw_00031	464 mL	Ethanol	15.0036 ppb v/v
.ATTO15CALSTKi_00033	10/25/12	07/25/12	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00008	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodifluoromethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butanol	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15CALs_00008	12/07/12	Spectra Gases, Lot cc-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodifluoromethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00031	10/26/12	07/26/12	VOA Free Water, Lot 1020	37.5 ppb	ATTO15EthCALs_00005	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00005	12/07/12	SIGMA, Lot 05796KM			(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL4w_00212	10/25/12	08/21/12	DI WATER, Lot 3510	15.463 L	ATTO15CALSTKi_00033	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dibromoethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,2-Dichlorotetrafluoroethane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Butadiene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	9.99806 ppb v/v
							4-Ethyltoluene	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Benzyl chloride	9.99806 ppb v/v
							Bromodichloromethane	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,2-Dichloroethene	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cumene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dibromochloromethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							m,p-Xylene	19.9961 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	9.99806 ppb v/v
							Methyl Ethyl Ketone	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							methyl isobutyl ketone	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							n-Hexane	9.99806 ppb v/v
							n-Propylbenzene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,2-Dichloroethene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
							Xylene (total)	29.9942 ppb v/v
							Xylene, o-	9.99806 ppb v/v
.ATTO15CALSTKi_00033	10/25/12	07/25/12	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00008	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							Acetone	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene (total)	600 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15CALs_00008	12/07/12	Spectra Gases, Lot cc-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene (total)	3 ppm v/v
							Xylene, o-	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ATTO15CAL5w_00026	10/25/12	07/27/12	DI WATER, Lot 3089	15.463 L	ATTO15CALSTKi_00033	1160 mL	1,1,1-Trichloroethane	15.0036 ppb v/v
							1,1,2,2-Tetrachloroethane	15.0036 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	15.0036 ppb v/v
							1,1,2-Trichloroethane	15.0036 ppb v/v
							1,1-Dichloroethane	15.0036 ppb v/v
							1,1-Dichloroethene	15.0036 ppb v/v
							1,2,3-Trichlorobenzene	15.0036 ppb v/v
							1,2,3-Trichloropropane	15.0036 ppb v/v
							1,2,4-Trichlorobenzene	15.0036 ppb v/v
							1,2,4-Trimethylbenzene	15.0036 ppb v/v
							1,2-Dibromoethane	15.0036 ppb v/v
							1,2-Dichlorobenzene	15.0036 ppb v/v
							1,2-Dichloroethane	15.0036 ppb v/v
							1,2-Dichloropropane	15.0036 ppb v/v
							1,2-Dichlorotetrafluoroethane	15.0036 ppb v/v
							1,3,5-Trimethylbenzene	15.0036 ppb v/v
							1,3-Butadiene	15.0036 ppb v/v
							1,3-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dioxane	15.0036 ppb v/v
							2-Chlorotoluene	15.0036 ppb v/v
							2-Methyl-2-propanol	15.0036 ppb v/v
							2-Methylbutane	15.0036 ppb v/v
							3-Chloro-1-propene	15.0036 ppb v/v
							4-Ethyltoluene	15.0036 ppb v/v
							4-Isopropyltoluene	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	15.0036 ppb v/v
							Acetonitrile	15.0036 ppb v/v
							Acrolein	15.0036 ppb v/v
							Acrylonitrile	15.0036 ppb v/v
							Alpha Methyl Styrene	15.0036 ppb v/v
							Benzene	15.0036 ppb v/v
							Benzyl chloride	15.0036 ppb v/v
							Bromodichloromethane	15.0036 ppb v/v
							Bromoform	15.0036 ppb v/v
							Bromomethane	15.0036 ppb v/v
							Butane	15.0036 ppb v/v
							Carbon disulfide	15.0036 ppb v/v
							Carbon tetrachloride	15.0036 ppb v/v
							Chlorobenzene	15.0036 ppb v/v
							Chlorodifluoromethane	15.0036 ppb v/v
							Chloroethane	15.0036 ppb v/v
							Chloroform	15.0036 ppb v/v
							Chloromethane	15.0036 ppb v/v
							cis-1,2-Dichloroethene	15.0036 ppb v/v
							cis-1,3-Dichloropropene	15.0036 ppb v/v
							Cumene	15.0036 ppb v/v
							Cyclohexane	15.0036 ppb v/v
							Dibromochloromethane	15.0036 ppb v/v
							Dibromomethane	15.0036 ppb v/v
							Dichlorodifluoromethane	15.0036 ppb v/v
							Dodecane	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl acetate	15.0036 ppb v/v
							Ethyl ether	15.0036 ppb v/v
							Ethylbenzene	15.0036 ppb v/v
							Hexachlorobutadiene	15.0036 ppb v/v
							Isooctane	15.0036 ppb v/v
							Isopropyl alcohol	15.0036 ppb v/v
							m,p-Xylene	30.0071 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	15.0036 ppb v/v
							Methyl Ethyl Ketone	15.0036 ppb v/v
							methyl isobutyl ketone	15.0036 ppb v/v
							Methyl methacrylate	15.0036 ppb v/v
							Methyl tert-butyl ether	15.0036 ppb v/v
							Methylene Chloride	15.0036 ppb v/v
							n-Butanol	15.0036 ppb v/v
							n-Butylbenzene	15.0036 ppb v/v
							n-Decane	15.0036 ppb v/v
							n-Heptane	15.0036 ppb v/v
							n-Hexane	15.0036 ppb v/v
							n-Nonane	15.0036 ppb v/v
							n-Octane	15.0036 ppb v/v
							n-Propylbenzene	15.0036 ppb v/v
							Naphthalene	15.0036 ppb v/v
							Pentane	15.0036 ppb v/v
							Propene	15.0036 ppb v/v
							sec-Butylbenzene	15.0036 ppb v/v
							Styrene	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	15.0036 ppb v/v
							Tetrachloroethene	15.0036 ppb v/v
							Tetrahydrofuran	15.0036 ppb v/v
							Toluene	15.0036 ppb v/v
							trans-1,2-Dichloroethene	15.0036 ppb v/v
							trans-1,3-Dichloropropene	15.0036 ppb v/v
							Trichloroethene	15.0036 ppb v/v
							Trichlorofluoromethane	15.0036 ppb v/v
							Undecane	15.0036 ppb v/v
							Vinyl acetate	15.0036 ppb v/v
							Vinyl bromide	15.0036 ppb v/v
							Vinyl chloride	15.0036 ppb v/v
							Xylene, o-	15.0036 ppb v/v
					ATTO15EthCALw_00031	620 mL	Ethanol	20.0479 ppb v/v
.ATTO15CALSTKi_00033	10/25/12	07/25/12	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00008	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							2-Methylbutane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodifluoromethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15CALs_00008	12/07/12	Spectra Gases, Lot cc-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodifluoromethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00031	10/26/12	07/26/12	VOA Free Water, Lot 1020	37.5 ppb	ATTO15EthCALs_00005	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00005	12/07/12	SIGMA, Lot 05796KM			(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL6w_00052	10/25/12	07/27/12	DI WATER, Lot 4943	15.463 L	ATTO15CALSTKi_00033	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,3-Trichlorobenzene	19.9961 ppb v/v
							1,2,3-Trichloropropane	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dibromoethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,2-Dichlorotetrafluoroethane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Butadiene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methyl-2-propanol	19.9961 ppb v/v
							2-Methylbutane	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Isopropyltoluene	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Acetonitrile	19.9961 ppb v/v
							Acrolein	19.9961 ppb v/v
							Acrylonitrile	19.9961 ppb v/v
							Alpha Methyl Styrene	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Benzyl chloride	19.9961 ppb v/v
							Bromodichloromethane	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butane	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodifluoromethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,2-Dichloroethene	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cumene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dibromochloromethane	19.9961 ppb v/v
							Dibromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Dodecane	19.9961 ppb v/v
							Ethyl acetate	19.9961 ppb v/v
							Ethyl ether	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m,p-Xylene	39.9922 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	19.9961 ppb v/v
							Methyl Ethyl Ketone	19.9961 ppb v/v
							methyl isobutyl ketone	19.9961 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Butanol	19.9961 ppb v/v
							n-Butylbenzene	19.9961 ppb v/v
							n-Decane	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							n-Hexane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Nonane	19.9961 ppb v/v
							n-Octane	19.9961 ppb v/v
							n-Propylbenzene	19.9961 ppb v/v
							Naphthalene	19.9961 ppb v/v
							Pentane	19.9961 ppb v/v
							Propene	19.9961 ppb v/v
							sec-Butylbenzene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							tert-Butylbenzene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,2-Dichloroethene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Undecane	19.9961 ppb v/v
							Vinyl acetate	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
							Xylene, o-	19.9961 ppb v/v
					ATTO15EthCALw_00031	1237 mL	Ethanol	39.9987 ppb v/v
.ATTO15CALSTKi_00033	10/25/12	07/25/12	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00008	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodifluoromethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15CALs_00008	12/07/12	Spectra Gases, Lot cc-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodifluoromethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00031	10/26/12	07/26/12	VOA Free Water, Lot 1020	37.5 ppb	ATTO15EthCALs_00005	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00005	12/07/12	SIGMA, Lot 05796KM			(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL7w_00028	10/25/12	07/27/12	DI WATER, Lot 3649	15.463 L	ATTO15CALSTKi_00033	3092 mL	1,1,1-Trichloroethane	39.9922 ppb v/v
							1,1,2,2-Tetrachloroethane	39.9922 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	39.9922 ppb v/v
							1,1,2-Trichloroethane	39.9922 ppb v/v
							1,1-Dichloroethane	39.9922 ppb v/v
							1,1-Dichloroethene	39.9922 ppb v/v
							1,2,3-Trichlorobenzene	39.9922 ppb v/v
							1,2,3-Trichloropropane	39.9922 ppb v/v
							1,2,4-Trichlorobenzene	39.9922 ppb v/v
							1,2,4-Trimethylbenzene	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromoethane	39.9922 ppb v/v
							1,2-Dichlorobenzene	39.9922 ppb v/v
							1,2-Dichloroethane	39.9922 ppb v/v
							1,2-Dichloropropane	39.9922 ppb v/v
							1,2-Dichlorotetrafluoroethane	39.9922 ppb v/v
							1,3,5-Trimethylbenzene	39.9922 ppb v/v
							1,3-Butadiene	39.9922 ppb v/v
							1,3-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dioxane	39.9922 ppb v/v
							2-Chlorotoluene	39.9922 ppb v/v
							2-Methyl-2-propanol	39.9922 ppb v/v
							2-Methylbutane	39.9922 ppb v/v
							3-Chloro-1-propene	39.9922 ppb v/v
							4-Ethyltoluene	39.9922 ppb v/v
							4-Isopropyltoluene	39.9922 ppb v/v
							Acetone	39.9922 ppb v/v
							Acetonitrile	39.9922 ppb v/v
							Acrolein	39.9922 ppb v/v
							Acrylonitrile	39.9922 ppb v/v
							Alpha Methyl Styrene	39.9922 ppb v/v
							Benzene	39.9922 ppb v/v
							Benzyl chloride	39.9922 ppb v/v
							Bromodichloromethane	39.9922 ppb v/v
							Bromoform	39.9922 ppb v/v
							Bromomethane	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butane	39.9922 ppb v/v
							Carbon disulfide	39.9922 ppb v/v
							Carbon tetrachloride	39.9922 ppb v/v
							Chlorobenzene	39.9922 ppb v/v
							Chlorodifluoromethane	39.9922 ppb v/v
							Chloroethane	39.9922 ppb v/v
							Chloroform	39.9922 ppb v/v
							Chloromethane	39.9922 ppb v/v
							cis-1,2-Dichloroethene	39.9922 ppb v/v
							cis-1,3-Dichloropropene	39.9922 ppb v/v
							Cumene	39.9922 ppb v/v
							Cyclohexane	39.9922 ppb v/v
							Dibromochloromethane	39.9922 ppb v/v
							Dibromomethane	39.9922 ppb v/v
							Dichlorodifluoromethane	39.9922 ppb v/v
							Dodecane	39.9922 ppb v/v
							Ethyl acetate	39.9922 ppb v/v
							Ethyl ether	39.9922 ppb v/v
							Ethylbenzene	39.9922 ppb v/v
							Hexachlorobutadiene	39.9922 ppb v/v
							Isooctane	39.9922 ppb v/v
							Isopropyl alcohol	39.9922 ppb v/v
							m,p-Xylene	79.9845 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	39.9922 ppb v/v
							Methyl Ethyl Ketone	39.9922 ppb v/v
							methyl isobutyl ketone	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl methacrylate	39.9922 ppb v/v
							Methyl tert-butyl ether	39.9922 ppb v/v
							Methylene Chloride	39.9922 ppb v/v
							n-Butanol	39.9922 ppb v/v
							n-Butylbenzene	39.9922 ppb v/v
							n-Decane	39.9922 ppb v/v
							n-Heptane	39.9922 ppb v/v
							n-Hexane	39.9922 ppb v/v
							n-Nonane	39.9922 ppb v/v
							n-Octane	39.9922 ppb v/v
							n-Propylbenzene	39.9922 ppb v/v
							Naphthalene	39.9922 ppb v/v
							Pentane	39.9922 ppb v/v
							Propene	39.9922 ppb v/v
							sec-Butylbenzene	39.9922 ppb v/v
							Styrene	39.9922 ppb v/v
							tert-Butylbenzene	39.9922 ppb v/v
							Tetrachloroethene	39.9922 ppb v/v
							Tetrahydrofuran	39.9922 ppb v/v
							Toluene	39.9922 ppb v/v
							trans-1,2-Dichloroethene	39.9922 ppb v/v
							trans-1,3-Dichloropropene	39.9922 ppb v/v
							Trichloroethene	39.9922 ppb v/v
							Trichlorofluoromethane	39.9922 ppb v/v
							Undecane	39.9922 ppb v/v
							Vinyl acetate	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl bromide	39.9922 ppb v/v
							Vinyl chloride	39.9922 ppb v/v
							Xylene, o-	39.9922 ppb v/v
					ATTO15EthCALw_00031	3092 mL	Ethanol	99.9806 ppb v/v
.ATTO15CALSTKi_00033	10/25/12	07/25/12	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00008	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodifluoromethane	200 ppb v/v
							Chloroethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..ATTO15CALs_00008	12/07/12	Spectra Gases, Lot cc-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodifluoromethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00031	10/26/12	07/26/12	VOA Free Water, Lot 1020	37.5 ppb	ATTO15EthCALs_00005	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00005	12/07/12	SIGMA, Lot 05796KM			(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CISs_00005	11/15/15	Spectra, Lot CC-250115			(Purchased Reagent)		1,4-Difluorobenzene	100 ppb v/v
							Chlorobenzene-d5	100 ppb v/v
							Chlorobromomethane	100 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ATTO15LCSW_00219	10/25/12	07/27/12	DI WATER, Lot 3482	15.463 L	ATTO15LCSSTKi_00030	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dibromoethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,2-Dichlorotetrafluoroethane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Butadiene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v
							4-Ethyltoluene	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Benzyl chloride	9.99806 ppb v/v
							Bromodichloromethane	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,2-Dichloroethene	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cumene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dibromochloromethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							m,p-Xylene	19.9961 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	9.99806 ppb v/v
							Methyl Ethyl Ketone	9.99806 ppb v/v
							methyl isobutyl ketone	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							n-Hexane	9.99806 ppb v/v
							n-Propylbenzene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,2-Dichloroethene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
							Xylene (total)	29.9942 ppb v/v
							Xylene, o-	9.99806 ppb v/v
.ATTO15LCSSTKi_00030	10/25/12	07/25/12	DI WATER, Lot 4984	37.5 L	ATTO15LCSs_00010	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene (total)	600 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15LCSs_00010	12/07/12	Spectra Gases, Lot CC-230119			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene (total)	3 ppm v/v
							Xylene, o-	1 ppm v/v

Certification Summary

Client: Arrowhead Contracting
Project/Site: Old Roosevelt - Air Only

TestAmerica Job ID: 200-12423-1
SDG: 200-12423

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Burlington	ACLASS	DoD ELAP		ADE-1492
TestAmerica Burlington	Connecticut	State Program	1	PH-0751
TestAmerica Burlington	DE Haz. Subst. Cleanup Act	State Program	3	NA
TestAmerica Burlington	Florida	NELAC	4	E87467
TestAmerica Burlington	Louisiana	NELAC	6	176292
TestAmerica Burlington	Maine	State Program	1	VT00008
TestAmerica Burlington	Minnesota	NELAC	5	050-999-436
TestAmerica Burlington	New Hampshire	NELAC	1	200610
TestAmerica Burlington	New Jersey	NELAC	2	VT972
TestAmerica Burlington	New York	NELAC	2	10391
TestAmerica Burlington	Pennsylvania	NELAC	3	68-00489
TestAmerica Burlington	Rhode Island	State Program	1	LAO00298
TestAmerica Burlington	USDA	Federal		P330-11-00093
TestAmerica Burlington	Vermont	State Program	1	VT-4000
TestAmerica Burlington	Virginia	NELAC	3	460209

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method TO15

Volatile Organic Compounds (GC/MS) by Method TO15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Matrix: Air Level: Low Lab File ID: ckzj003.d

Lab ID: LCS 200-44151/3 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	10.5	105	70-130	
1,2-Dichlorotetrafluoroethane	10.0	10.2	102	70-130	
Chloromethane	10.0	9.84	98	70-130	
Vinyl chloride	10.0	9.74	97	70-130	
1,3-Butadiene	10.0	10.2	102	70-130	
Bromomethane	10.0	9.70	97	70-130	
Chloroethane	10.0	9.55	95	70-130	
Trichlorofluoromethane	10.0	10.4	104	70-130	
1,1-Dichloroethene	10.0	10.8	108	70-130	
Acetone	10.0	10.9	109	70-130	
Isopropyl alcohol	10.0	10.6	106	70-130	
Carbon disulfide	10.0	10.1	101	70-130	
Methylene Chloride	10.0	10.2	102	70-130	
Methyl tert-butyl ether	10.0	10.8	108	70-130	
trans-1,2-Dichloroethene	10.0	9.92	99	70-130	
n-Hexane	10.0	9.76	98	70-130	
1,1-Dichloroethane	10.0	9.84	98	70-130	
Methyl Ethyl Ketone	10.0	10.4	104	70-130	
cis-1,2-Dichloroethene	10.0	9.87	99	70-130	
Chloroform	10.0	10.1	101	70-130	
Tetrahydrofuran	10.0	10.1	101	70-130	
1,1,1-Trichloroethane	10.0	10.3	103	70-130	
Cyclohexane	10.0	9.77	98	70-130	
Carbon tetrachloride	10.0	10.2	102	70-130	
Benzene	10.0	9.47	95	70-130	
1,2-Dichloroethane	10.0	10.4	104	70-130	
n-Heptane	10.0	9.48	95	70-130	
Trichloroethene	10.0	9.68	97	70-130	
1,2-Dichloropropane	10.0	9.41	94	70-130	
Bromodichloromethane	10.0	10.7	107	70-130	
cis-1,3-Dichloropropene	10.0	9.89	99	70-130	
methyl isobutyl ketone	10.0	11.0	110	70-130	
Toluene	10.0	9.79	98	70-130	
trans-1,3-Dichloropropene	10.0	10.5	105	70-130	
1,1,2-Trichloroethane	10.0	9.14	91	70-130	
Tetrachloroethene	10.0	9.87	99	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	10.7	107	70-130	
Dibromochloromethane	10.0	11.0	110	70-130	
1,2-Dibromoethane	10.0	9.89	99	70-130	
Chlorobenzene	10.0	9.65	97	70-130	
Ethylbenzene	10.0	9.82	98	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Matrix: Air Level: Low Lab File ID: ckzj003.d

Lab ID: LCS 200-44151/3 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
m,p-Xylene	20.0	20.0	100	70-130	
Xylene, o-	10.0	9.94	99	70-130	
Styrene	10.0	10.5	105	70-130	
Bromoform	10.0	11.3	113	70-130	
Cumene	10.0	10.2	102	70-130	
1,1,2,2-Tetrachloroethane	10.0	9.34	93	70-130	
n-Propylbenzene	10.0	10.3	103	70-130	
4-Ethyltoluene	10.0	10.8	109	70-130	
1,3,5-Trimethylbenzene	10.0	10.0	100	70-130	
1,2,4-Trimethylbenzene	10.0	10.1	101	70-130	
1,3-Dichlorobenzene	10.0	10.2	102	70-130	
1,4-Dichlorobenzene	10.0	10.3	103	70-130	
Benzyl chloride	10.0	10.9	109	70-130	
1,2-Dichlorobenzene	10.0	10.1	101	70-130	
1,2,4-Trichlorobenzene	10.0	11.9	119	70-130	
Hexachlorobutadiene	10.0	11.6	116	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Lab File ID: ckzj004.d Lab Sample ID: MB 200-44151/4

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: C.i Date Analyzed: 08/28/2012 14:34

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-44151/3	ckzj003.d	08/28/2012 13:41
AS-EFF-120822	200-12423-1	ckzj024.d	08/29/2012 08:28

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Lab File ID: ckz001.d BFB Injection Date: 08/14/2012

Instrument ID: C.i BFB Injection Time: 16:28

Analysis Batch No.: 43490

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	14.1	
75	30.0 - 66.0% of mass 95	44.2	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.9	
173	Less than 2.0% of mass 174	0.3	(0.3)1
174	50.0 - 120.0% of mass 95	80.2	
175	4.0 - 9.0 % of mass 174	5.6	(6.9)1
176	93.0 - 101.0% of mass 174	77.7	(96.9)1
177	5.0 - 9.0% of mass 176	5.1	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-43490/3	ckz003.d	08/14/2012	18:13
	IC 200-43490/4	ckz004.d	08/14/2012	19:07
	IC 200-43490/5	ckz005.d	08/14/2012	20:00
	IC 200-43490/6	ckz006.d	08/14/2012	20:53
	IC 200-43490/8	ckz008.d	08/14/2012	22:41
	IC 200-43490/9	ckz009.d	08/14/2012	23:34
	IC 200-43490/10	ckz010.d	08/15/2012	00:28
	ICIS 200-43490/15	ckz015.d	08/15/2012	08:24
	ICV 200-43490/18	ckz018.d	08/15/2012	11:09

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Lab File ID: ckzj001.d BFB Injection Date: 08/28/2012

Instrument ID: C.i BFB Injection Time: 11:54

Analysis Batch No.: 44151

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	16.0	
75	30.0 - 66.0% of mass 95	48.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.9	
173	Less than 2.0% of mass 174	0.0	(0.0)1
174	50.0 - 120.0% of mass 95	85.2	
175	4.0 - 9.0 % of mass 174	5.9	(6.9)1
176	93.0 - 101.0% of mass 174	82.9	(97.2)1
177	5.0 - 9.0% of mass 176	5.3	(6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-44151/2	ckzj002.d	08/28/2012	12:48
	LCS 200-44151/3	ckzj003.d	08/28/2012	13:41
	MB 200-44151/4	ckzj004.d	08/28/2012	14:34
AS-EFF-120822	200-12423-1	ckzj024.d	08/29/2012	08:28

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Sample No.: ICIS 200-43490/15 Date Analyzed: 08/15/2012 08:24

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): ckz015.d Heated Purge: (Y/N) N

Calibration ID: 17120

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		419299	12.10	2338098	13.92	2179074	19.45
UPPER LIMIT		587019	12.43	3273337	14.25	3050704	19.78
LOWER LIMIT		251579	11.77	1402859	13.59	1307444	19.12
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-43490/18		394482	12.10	2173520	13.93	1992042	19.45

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Sample No.: CCVIS 200-44151/2 Date Analyzed: 08/28/2012 12:48

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): ckzj002.d Heated Purge: (Y/N) N

Calibration ID: 17120

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		333575	12.08	1837589	13.90	1696147	19.43
UPPER LIMIT		467005	12.41	2572625	14.23	2374606	19.76
LOWER LIMIT		200145	11.75	1102553	13.57	1017688	19.10
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-44151/3		350635	12.08	1951281	13.90	1839271	19.43
MB 200-44151/4		330131	12.07	1904315	13.90	1639208	19.43
200-12423-1	AS-EFF-120822	343354	12.07	1924682	13.90	1740253	19.43

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-12423-1

SDG No.: 200-12423

Client Sample ID: AS-EFF-120822 | Lab Sample ID: 200-12423-1

Matrix: Air | Lab File ID: ckzj024.d

Analysis Method: TO-15 | Date Collected: 08/22/2012 14:20

Sample wt/vol: 51(mL) | Date Analyzed: 08/29/2012 08:28

Soil Aliquot Vol: | Dilution Factor: 15.5

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 44151 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	43		7.8	0.31
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	3.1	U	3.1	0.31
74-87-3	Chloromethane	50.49	7.8	U	7.8	0.53
75-01-4	Vinyl chloride	62.50	3.1	U	3.1	0.14
106-99-0	1,3-Butadiene	54.09	3.1	U	3.1	0.39
74-83-9	Bromomethane	94.94	3.1	U	3.1	0.42
75-00-3	Chloroethane	64.52	7.8	U	7.8	0.51
75-69-4	Trichlorofluoromethane	137.37	95		3.1	0.33
75-35-4	1,1-Dichloroethene	96.94	13		3.1	1.3
67-64-1	Acetone	58.08	78	U	78	6.2
67-63-0	Isopropyl alcohol	60.10	78	U	78	1.2
75-15-0	Carbon disulfide	76.14	7.8	U	7.8	0.31
75-09-2	Methylene Chloride	84.93	7.8	U	7.8	0.36
1634-04-4	Methyl tert-butyl ether	88.15	6.6		3.1	0.23
156-60-5	trans-1,2-Dichloroethene	96.94	6.5		3.1	0.36
110-54-3	n-Hexane	86.17	3.1	U	3.1	0.31
75-34-3	1,1-Dichloroethane	98.96	6.3		3.1	0.36
78-93-3	Methyl Ethyl Ketone	72.11	7.8	U	7.8	0.39
156-59-2	cis-1,2-Dichloroethene	96.94	34		3.1	1.3
67-66-3	Chloroform	119.38	3.1	U	3.1	0.37
109-99-9	Tetrahydrofuran	72.11	78	U	78	0.45
71-55-6	1,1,1-Trichloroethane	133.41	3.1	U	3.1	0.31
110-82-7	Cyclohexane	84.16	3.1	U	3.1	0.29
56-23-5	Carbon tetrachloride	153.81	3.1	U	3.1	0.20
71-43-2	Benzene	78.11	3.1	U	3.1	0.28
107-06-2	1,2-Dichloroethane	98.96	3.1	U	3.1	0.28
142-82-5	n-Heptane	100.21	3.1	U	3.1	0.26
79-01-6	Trichloroethene	131.39	430		3.1	0.14
78-87-5	1,2-Dichloropropane	112.99	3.1	U	3.1	0.36
75-27-4	Bromodichloromethane	163.83	3.1	U	3.1	0.19
10061-01-5	cis-1,3-Dichloropropene	110.97	3.1	U	3.1	0.20
108-10-1	methyl isobutyl ketone	100.16	7.8	U	7.8	0.53
108-88-3	Toluene	92.14	3.1	U	3.1	0.22
10061-02-6	trans-1,3-Dichloropropene	110.97	3.1	U	3.1	0.23
79-00-5	1,1,2-Trichloroethane	133.41	3.1	U	3.1	0.25

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Client Sample ID: AS-EFF-120822 Lab Sample ID: 200-12423-1

Matrix: Air Lab File ID: ckzj024.d

Analysis Method: TO-15 Date Collected: 08/22/2012 14:20

Sample wt/vol: 51(mL) Date Analyzed: 08/29/2012 08:28

Soil Aliquot Vol: Dilution Factor: 15.5

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 44151 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	165.83	360		3.1	0.23
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	7.8	U	7.8	0.62
124-48-1	Dibromochloromethane	208.29	3.1	U	3.1	0.17
106-93-4	1,2-Dibromoethane	187.87	3.1	U	3.1	0.22
108-90-7	Chlorobenzene	112.30	3.1	U	3.1	0.20
100-41-4	Ethylbenzene	106.17	3.1	U	3.1	0.23
179601-23-1	m,p-Xylene	106.17	7.8	U	7.8	0.34
95-47-6	Xylene, o-	106.17	3.1	U	3.1	0.25
1330-20-7	Xylene (total)	106.17	3.1	U	3.1	0.25
100-42-5	Styrene	104.15	3.1	U	3.1	0.17
75-25-2	Bromoform	252.75	3.1	U	3.1	0.11
98-82-8	Cumene	120.19	3.1	U	3.1	0.17
79-34-5	1,1,2,2-Tetrachloroethane	167.85	3.1	U	3.1	0.17
103-65-1	n-Propylbenzene	120.19	3.1	U	3.1	0.20
622-96-8	4-Ethyltoluene	120.20	3.1	U	3.1	0.23
108-67-8	1,3,5-Trimethylbenzene	120.20	3.1	U	3.1	0.29
95-63-6	1,2,4-Trimethylbenzene	120.20	3.1	U	3.1	0.33
541-73-1	1,3-Dichlorobenzene	147.00	3.1	U	3.1	0.29
106-46-7	1,4-Dichlorobenzene	147.00	3.1	U	3.1	0.28
100-44-7	Benzyl chloride	126.58	3.1	U	3.1	0.34
95-50-1	1,2-Dichlorobenzene	147.00	3.1	U	3.1	0.40
120-82-1	1,2,4-Trichlorobenzene	181.45	7.8	U	7.8	0.47
87-68-3	Hexachlorobutadiene	260.76	3.1	U	3.1	0.45

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-12423-1

SDG No.: 200-12423

Client Sample ID: AS-EFF-120822 | Lab Sample ID: 200-12423-1

Matrix: Air | Lab File ID: ckzj024.d

Analysis Method: TO-15 | Date Collected: 08/22/2012 14:20

Sample wt/vol: 51(mL) | Date Analyzed: 08/29/2012 08:28

Soil Aliquot Vol: | Dilution Factor: 15.5

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 44151 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	210		38	1.5
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	22	U	22	2.2
74-87-3	Chloromethane	50.49	16	U	16	1.1
75-01-4	Vinyl chloride	62.50	7.9	U	7.9	0.36
106-99-0	1,3-Butadiene	54.09	6.9	U	6.9	0.86
74-83-9	Bromomethane	94.94	12	U	12	1.6
75-00-3	Chloroethane	64.52	20	U	20	1.3
75-69-4	Trichlorofluoromethane	137.37	540		17	1.8
75-35-4	1,1-Dichloroethene	96.94	51		12	5.3
67-64-1	Acetone	58.08	180	U	180	15
67-63-0	Isopropyl alcohol	60.10	190	U	190	2.9
75-15-0	Carbon disulfide	76.14	24	U	24	0.97
75-09-2	Methylene Chloride	84.93	27	U	27	1.2
1634-04-4	Methyl tert-butyl ether	88.15	24		11	0.84
156-60-5	trans-1,2-Dichloroethene	96.94	26		12	1.4
110-54-3	n-Hexane	86.17	11	U	11	1.1
75-34-3	1,1-Dichloroethane	98.96	25		13	1.4
78-93-3	Methyl Ethyl Ketone	72.11	23	U	23	1.1
156-59-2	cis-1,2-Dichloroethene	96.94	130		12	5.2
67-66-3	Chloroform	119.38	15	U	15	1.8
109-99-9	Tetrahydrofuran	72.11	230	U	230	1.3
71-55-6	1,1,1-Trichloroethane	133.41	17	U	17	1.7
110-82-7	Cyclohexane	84.16	11	U	11	1.0
56-23-5	Carbon tetrachloride	153.81	20	U	20	1.3
71-43-2	Benzene	78.11	9.9	U	9.9	0.89
107-06-2	1,2-Dichloroethane	98.96	13	U	13	1.1
142-82-5	n-Heptane	100.21	13	U	13	1.1
79-01-6	Trichloroethene	131.39	2300		17	0.77
78-87-5	1,2-Dichloropropane	112.99	14	U	14	1.6
75-27-4	Bromodichloromethane	163.83	21	U	21	1.2
10061-01-5	cis-1,3-Dichloropropene	110.97	14	U	14	0.91
108-10-1	methyl isobutyl ketone	100.16	32	U	32	2.2
108-88-3	Toluene	92.14	12	U	12	0.82
10061-02-6	trans-1,3-Dichloropropene	110.97	14	U	14	1.1
79-00-5	1,1,2-Trichloroethane	133.41	17	U	17	1.4

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Client Sample ID: AS-EFF-120822 Lab Sample ID: 200-12423-1

Matrix: Air Lab File ID: ckzj024.d

Analysis Method: TO-15 Date Collected: 08/22/2012 14:20

Sample wt/vol: 51(mL) Date Analyzed: 08/29/2012 08:28

Soil Aliquot Vol: Dilution Factor: 15.5

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 44151 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	165.83	2400		21	1.6
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	32	U	32	2.5
124-48-1	Dibromochloromethane	208.29	26	U	26	1.5
106-93-4	1,2-Dibromoethane	187.87	24	U	24	1.7
108-90-7	Chlorobenzene	112.30	14	U	14	0.93
100-41-4	Ethylbenzene	106.17	13	U	13	1.0
179601-23-1	m,p-Xylene	106.17	34	U	34	1.5
95-47-6	Xylene, o-	106.17	13	U	13	1.1
1330-20-7	Xylene (total)	106.17	13	U	13	1.1
100-42-5	Styrene	104.15	13	U	13	0.73
75-25-2	Bromoform	252.75	32	U	32	1.2
98-82-8	Cumene	120.19	15	U	15	0.84
79-34-5	1,1,2,2-Tetrachloroethane	167.85	21	U	21	1.2
103-65-1	n-Propylbenzene	120.19	15	U	15	0.99
622-96-8	4-Ethyltoluene	120.20	15	U	15	1.1
108-67-8	1,3,5-Trimethylbenzene	120.20	15	U	15	1.4
95-63-6	1,2,4-Trimethylbenzene	120.20	15	U	15	1.6
541-73-1	1,3-Dichlorobenzene	147.00	19	U	19	1.8
106-46-7	1,4-Dichlorobenzene	147.00	19	U	19	1.7
100-44-7	Benzyl chloride	126.58	16	U	16	1.8
95-50-1	1,2-Dichlorobenzene	147.00	19	U	19	2.4
120-82-1	1,2,4-Trichlorobenzene	181.45	58	U	58	3.5
87-68-3	Hexachlorobutadiene	260.76	33	U	33	4.8

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Lab Sample Id: 200-12423-1
Client Smp ID: AS-EFF-120822
Inj Date : 29-AUG-2012 08:28
Operator : wrd Inst ID: C.i
Smp Info : 200-12423-A-1
Misc Info : 51,15.5, all74 (mod), CDF 3.96
Comment :
Method : /chem/C.i/Csvr.p/ckzjto15.b/to15v5.m
Meth Date : 29-Aug-2012 13:08 klp Quant Type: ISTD
Cal Date : 15-AUG-2012 08:24 Cal File: ckz015.d
Als bottle: 6
Dil Factor: 15.50000
Integrator: HP RTE Compound Sublist: all74.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	15.50000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	51.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
2 Dichlorodifluoromethane	85	4.288	4.304	(0.355)	264026	2.80060	43
3 Chlorodifluoromethane	51	4.352	4.363	(0.360)	164220	3.45661	54
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	4.795	4.811	(0.397)	1767	0.06721	1.0(a)
6 Butane	43	Compound Not Detected.					
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	6.839	6.860	(0.566)	610840	6.14367	95
17 1,1,2-Trichloro-1,2,2-trifluo	101	8.018	8.034	(0.664)	10689	0.15376	2.4(a)
19 1,1-Dichloroethene	96	8.056	8.072	(0.667)	27283	0.83569	13
20 Acetone	43	8.264	8.269	(0.684)	10000	0.26450	4.1(a)
21 Carbon disulfide	76	Compound Not Detected.					

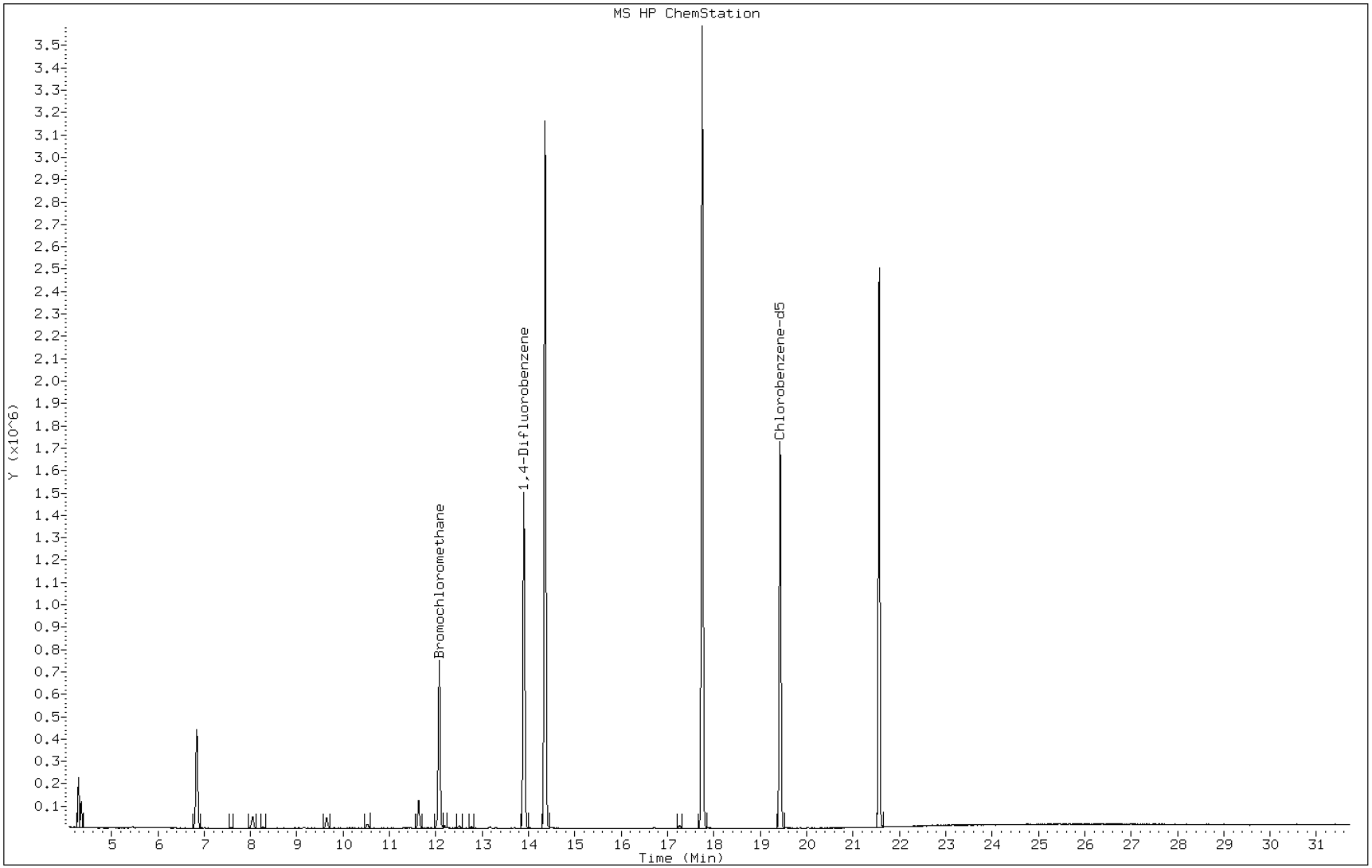
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	25 Methylene chloride	49	9.161	9.177	(0.759)	2654	0.08229	1.3(a)
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	9.641	9.641	(0.798)	38415	0.42270	6.6
	28 1,2-Dichloroethene (trans)	61	9.646	9.668	(0.799)	20176	0.41995	6.5
	30 n-Hexane	57	Compound Not Detected.					
	31 1,1-Dichloroethane	63	10.527	10.548	(0.872)	25063	0.40581	6.3
M	33 1,2-Dichloroethene,Total	61				103770	2.59534	40
	34 1,2-Dichloroethene (cis)	96	11.626	11.653	(0.963)	83594	2.17539	34
	36 Methyl Ethyl Ketone	72	Compound Not Detected.					
*	37 Bromochloromethane	128	12.074	12.096	(1.000)	343354	10.0000	
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	12.192	12.213	(1.010)	10213	0.13315	2.1(a)
	40 Cyclohexane	84	Compound Not Detected.					
	41 1,1,1-Trichloroethane	97	12.507	12.528	(0.900)	11213	0.12763	2.0(aQ)
	42 Carbon tetrachloride	117	12.768	12.784	(0.919)	6803	0.07334	1.1(aM)
	43 2,2,4-Trimethylpentane	57	Compound Not Detected.					
	44 Benzene	78	Compound Not Detected.					
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	13.900	13.921	(1.000)	1924682	10.0000	
	49 Trichloroethene	95	14.353	14.375	(1.033)	1499329	27.9479	430
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	Compound Not Detected.					
	58 Toluene	92	16.728	16.734	(0.861)	2394	0.02870	0.44(aM)
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	17.748	17.764	(0.913)	1812624	23.0440	360
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	19.429	19.450	(1.000)	1740253	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	68 Ethylbenzene	91	Compound Not Detected.					
	69 Xylene (m,p)	106	Compound Not Detected.					
M	70 Xylenes, Total	106	Compound Not Detected.					
	71 Xylene (o)	106	Compound Not Detected.					
	72 Styrene	104	Compound Not Detected.					
	73 Bromoform	173	Compound Not Detected.					
	74 Isopropylbenzene	105	Compound Not Detected.					
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	76 n-Propylbenzene	91	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
79 4-Ethyltoluene	105	Compound Not Detected.					
80 2-Chlorotoluene	91	Compound Not Detected.					
81 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 tert-butylbenzene	119	Compound Not Detected.					
84 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
85 sec-Butylbenzene	105	Compound Not Detected.					
86 4-Isopropyltoluene	119	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 1,4-Dichlorobenzene	146	Compound Not Detected.					
89 Benzyl chloride	91	Compound Not Detected.					
91 n-Butylbenzene	91	Compound Not Detected.					
92 1,2-Dichlorobenzene	146	Compound Not Detected.					
94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
96 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File:	ckzj024.d	Date:	29-AUG-2012 08:28
Client ID:	AS-EFF-120822	Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	200-12423-A-1		
Lab Sample ID:	200-12423-1		



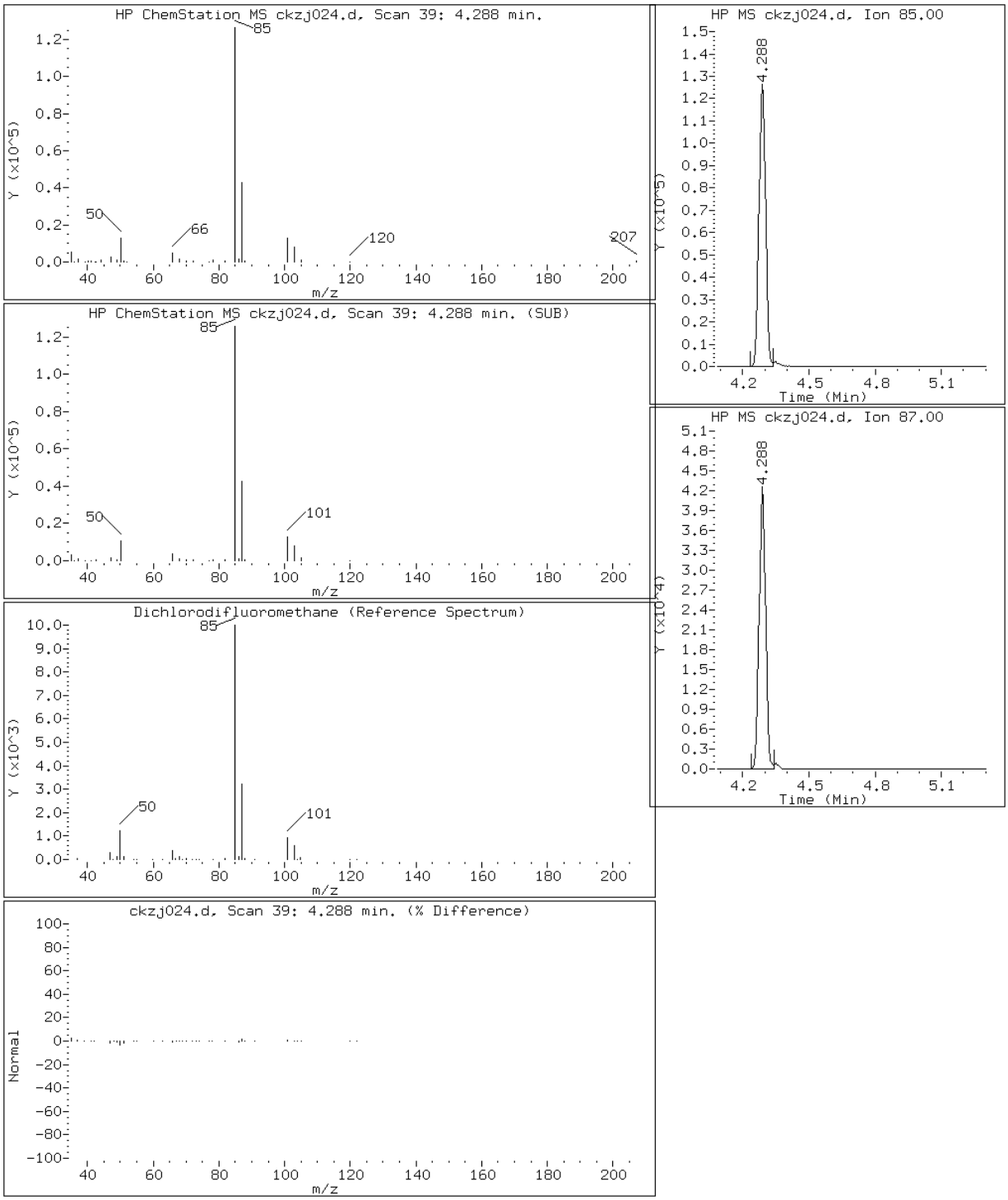
Data File: ckzj024.d

Lab Sample ID: 200-12423-1 Date: 29-AUG-2012 08:28

Client ID: AS-EFF-120822 Instrument: C.i

Sample Info: 200-12423-A-1 Operator: wrd

2 Dichlorodifluoromethane



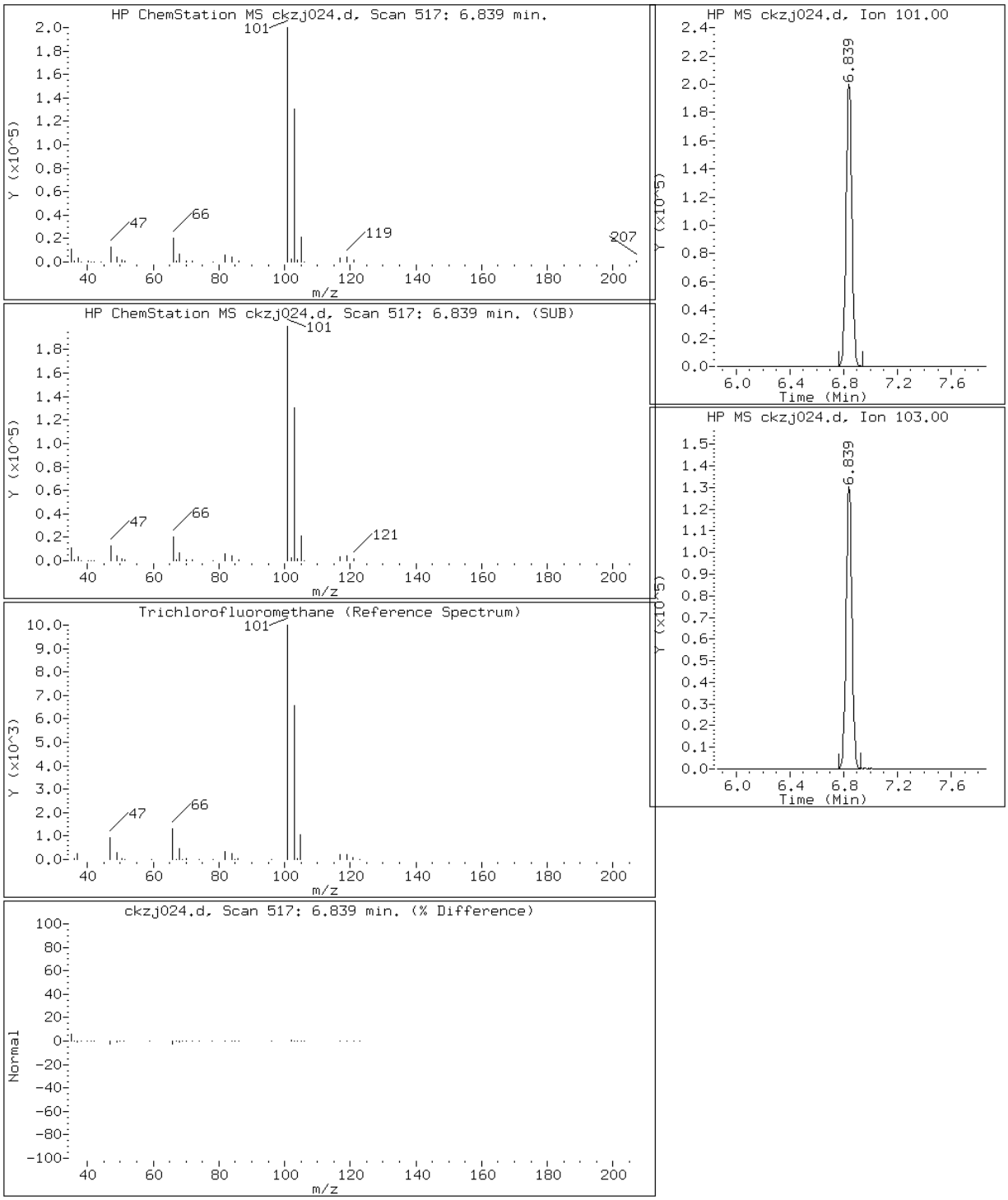
Data File: ckzj024.d

Lab Sample ID: 200-12423-1 Date: 29-AUG-2012 08:28

Client ID: AS-EFF-120822 Instrument: C.i

Sample Info: 200-12423-A-1 Operator: wrd

13 Trichlorofluoromethane



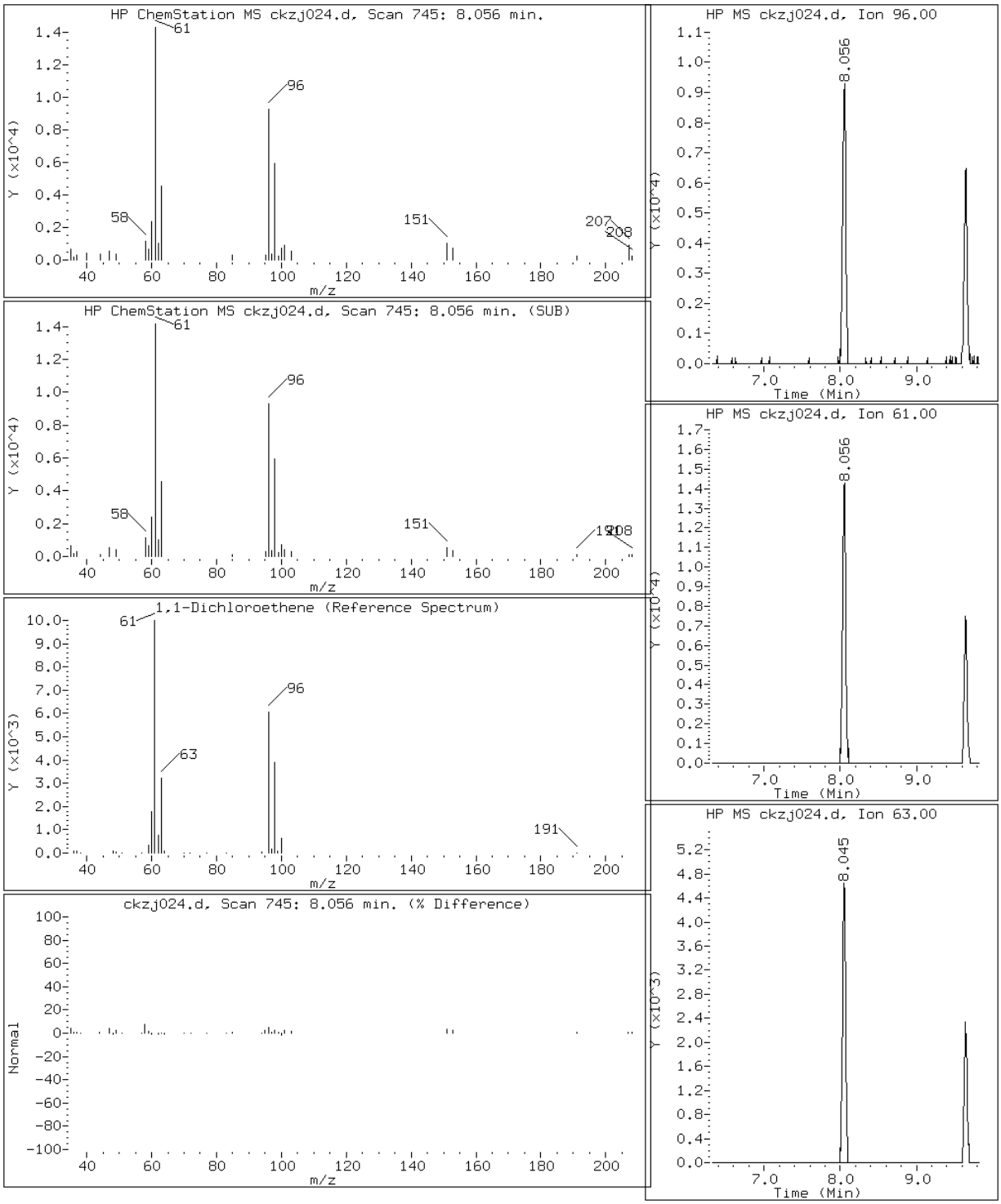
Data File: ckzj024.d

Lab Sample ID: 200-12423-1 Date: 29-AUG-2012 08:28

Client ID: AS-EFF-120822 Instrument: C.i

Sample Info: 200-12423-A-1 Operator: wrd

19 1,1-Dichloroethene



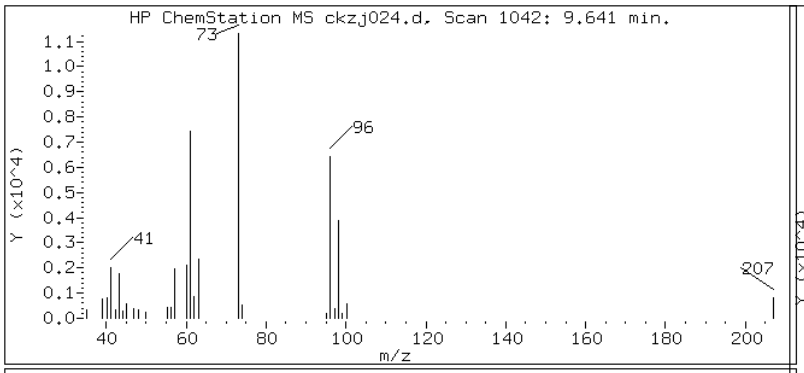
Data File: ckzj024.d

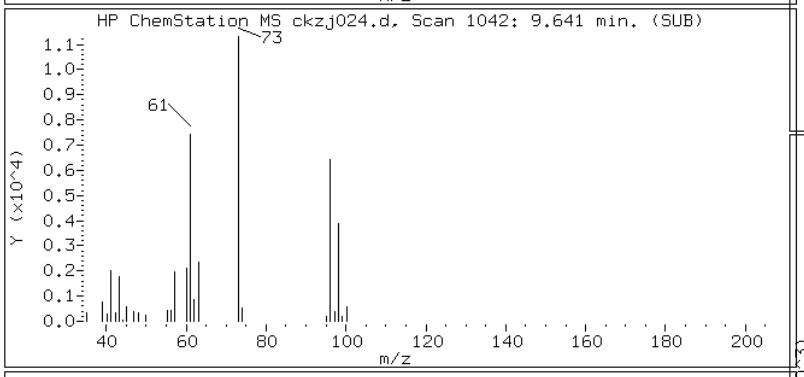
Lab Sample ID: 200-12423-1 Date: 29-AUG-2012 08:28

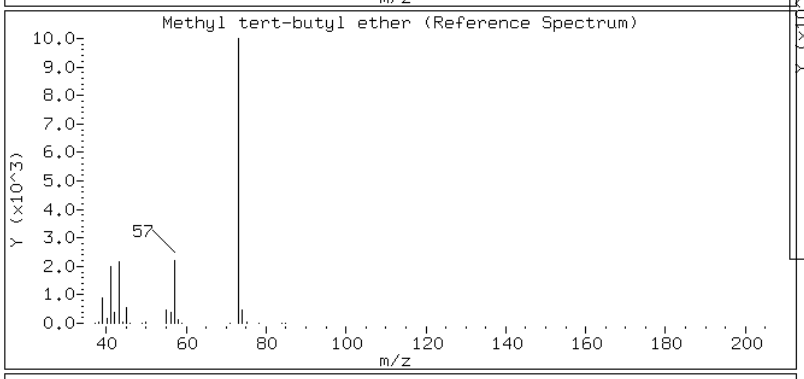
Client ID: AS-EFF-120822 Instrument: C.i

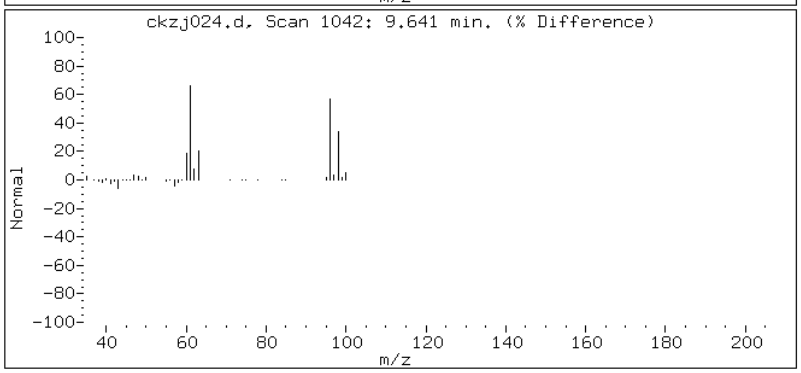
Sample Info: 200-12423-A-1 Operator: wrd

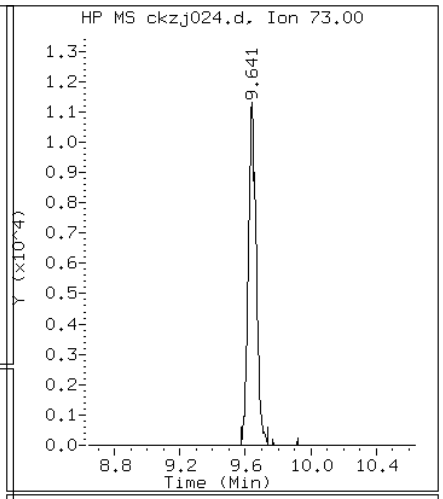
27 Methyl tert-butyl ether

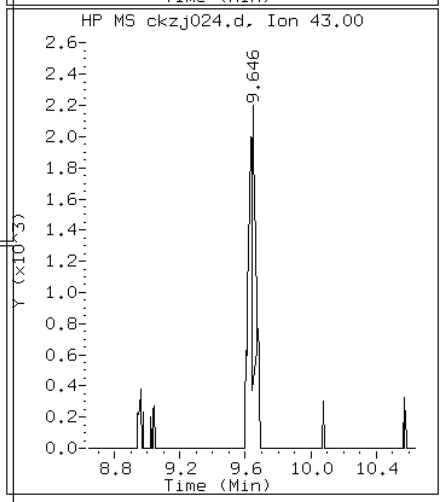












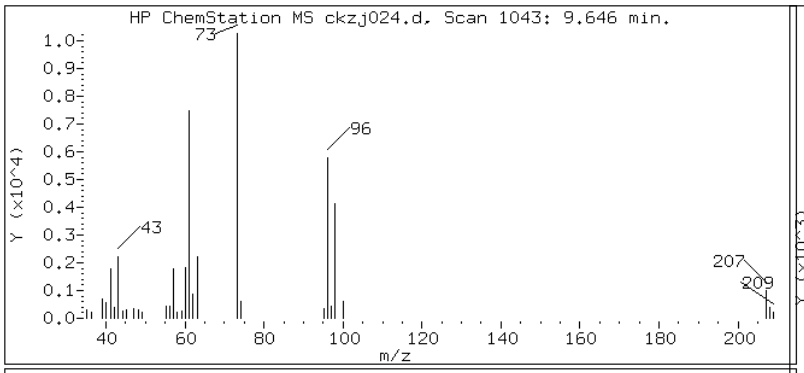
Data File: ckzj024.d

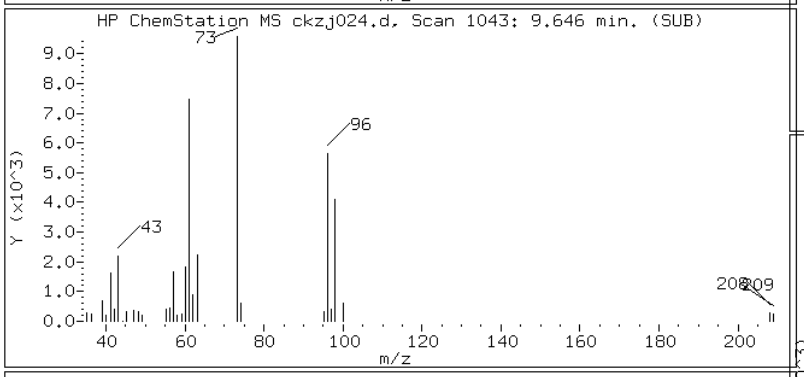
Lab Sample ID: 200-12423-1 Date: 29-AUG-2012 08:28

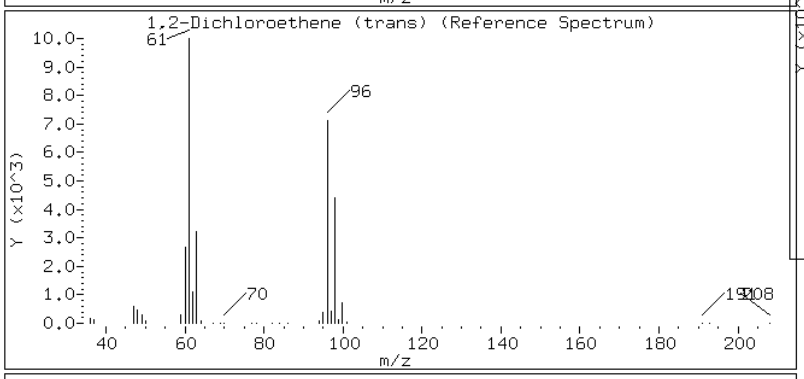
Client ID: AS-EFF-120822 Instrument: C.i

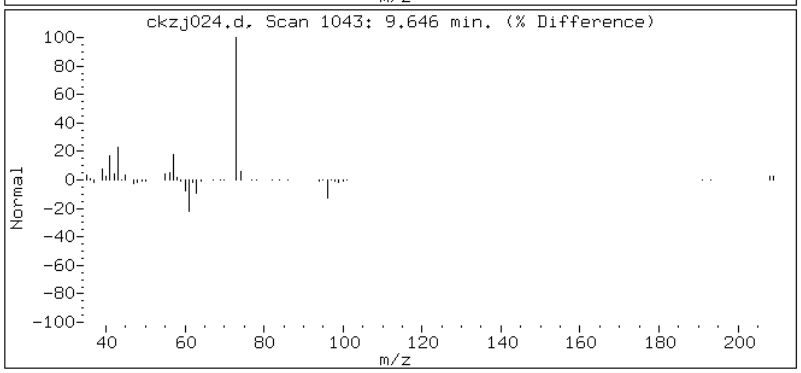
Sample Info: 200-12423-A-1 Operator: wrd

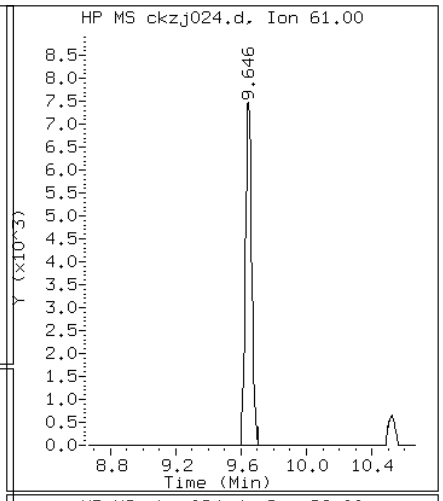
28 1,2-Dichloroethene (trans)

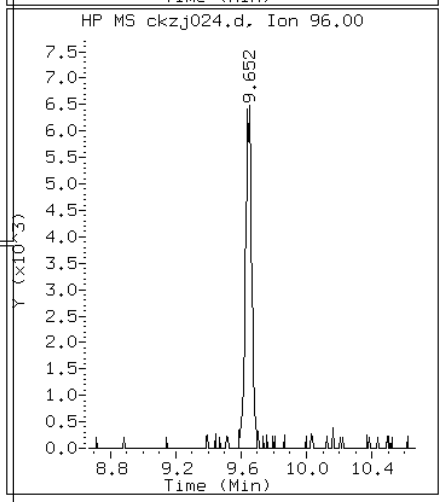












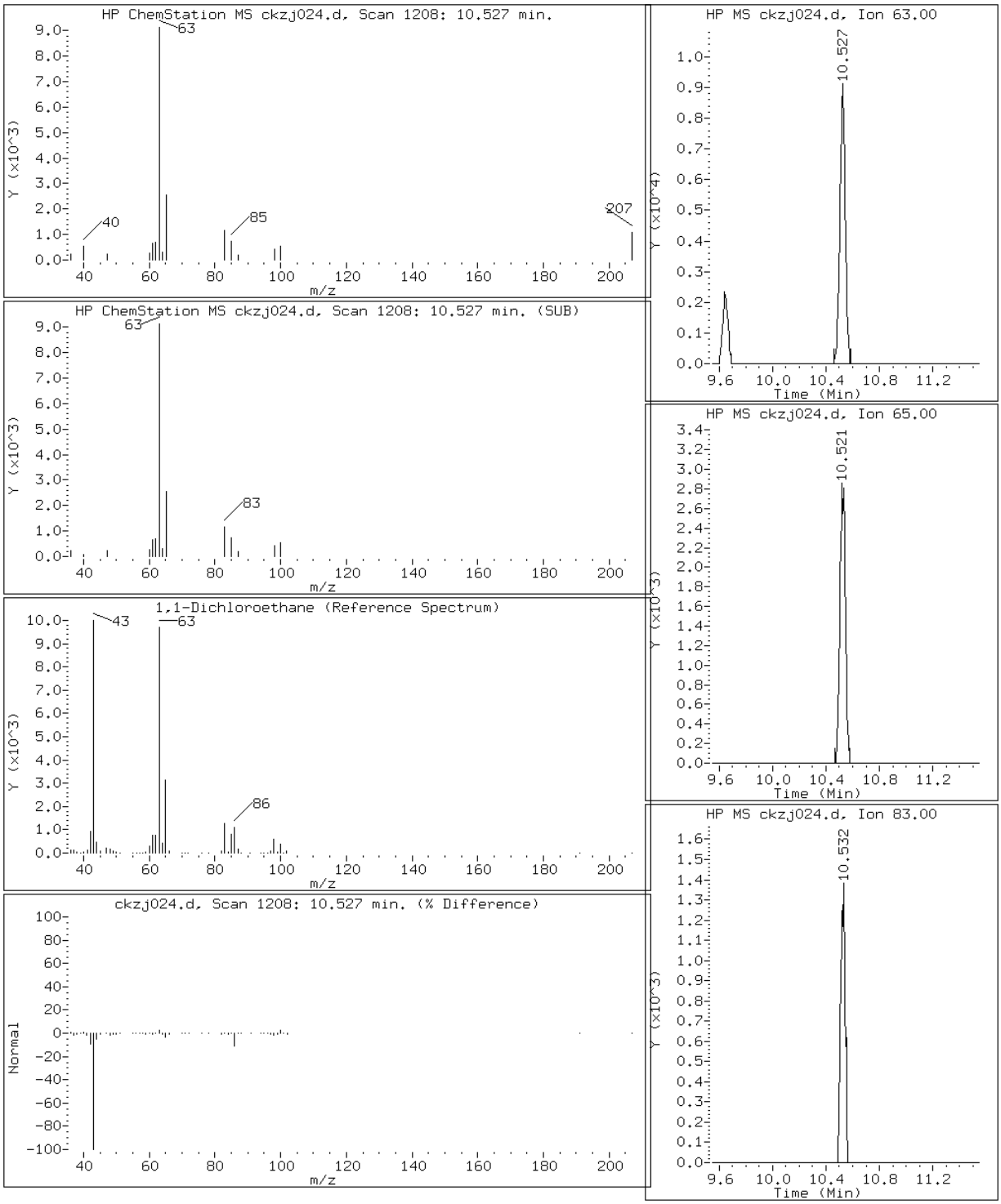
Data File: ckzj024.d

Lab Sample ID: 200-12423-1 Date: 29-AUG-2012 08:28

Client ID: AS-EFF-120822 Instrument: C.i

Sample Info: 200-12423-A-1 Operator: wrd

31 1,1-Dichloroethane



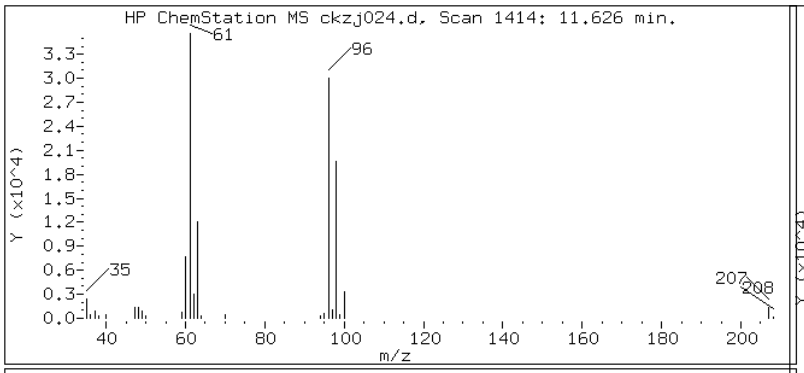
Data File: ckzj024.d

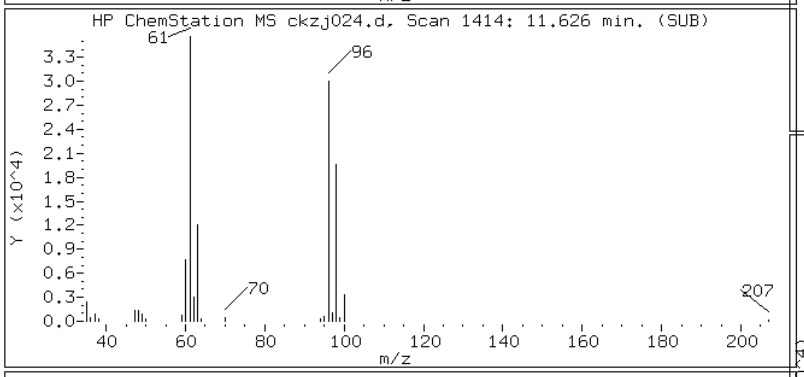
Lab Sample ID: 200-12423-1 Date: 29-AUG-2012 08:28

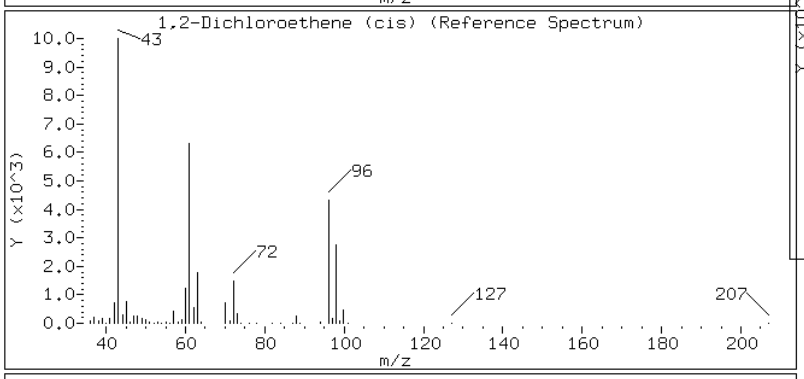
Client ID: AS-EFF-120822 Instrument: C.i

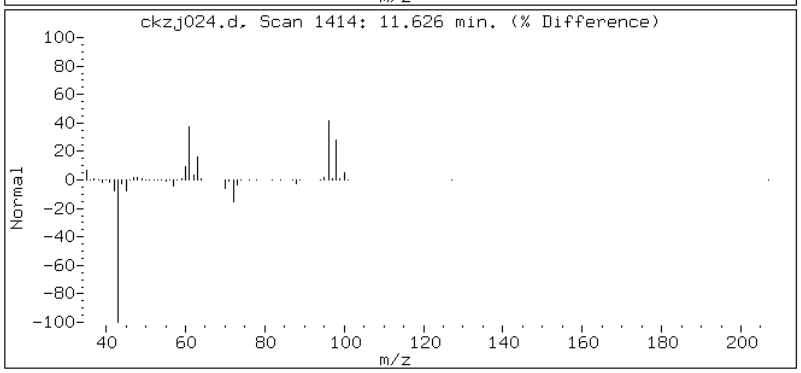
Sample Info: 200-12423-A-1 Operator: wrd

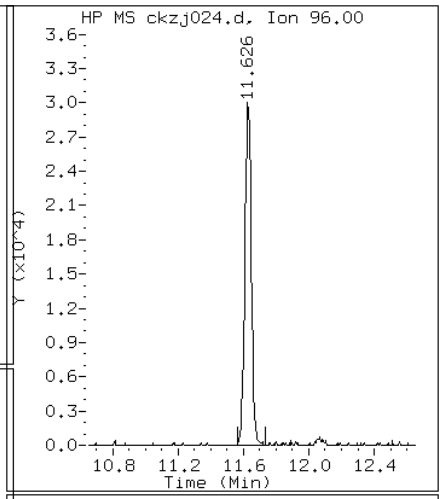
34 1,2-Dichloroethene (cis)

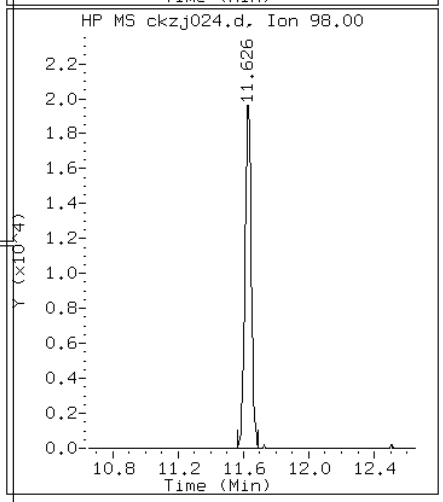












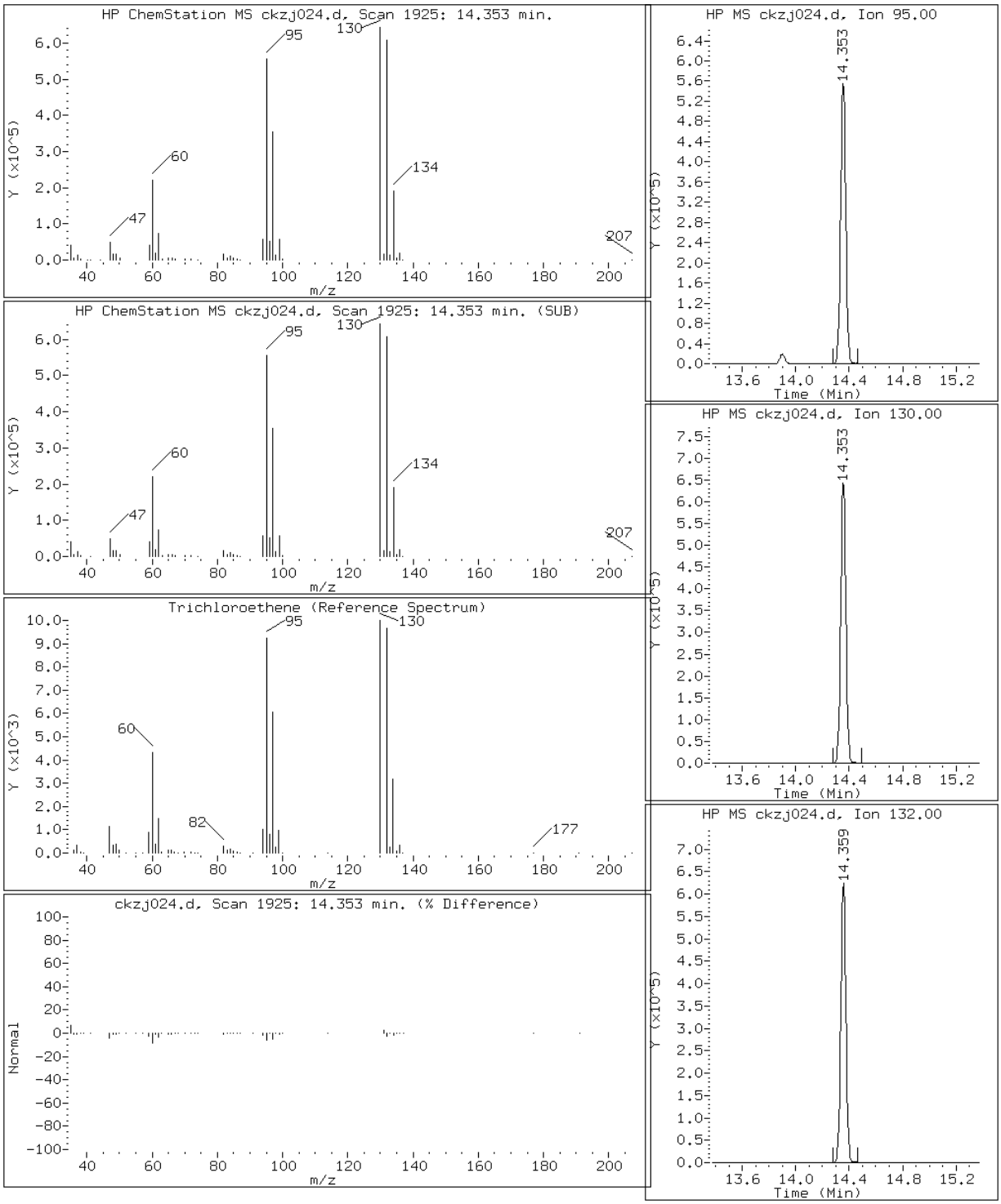
Data File: ckzj024.d

Lab Sample ID: 200-12423-1 Date: 29-AUG-2012 08:28

Client ID: AS-EFF-120822 Instrument: C.i

Sample Info: 200-12423-A-1 Operator: wrd

49 Trichloroethene



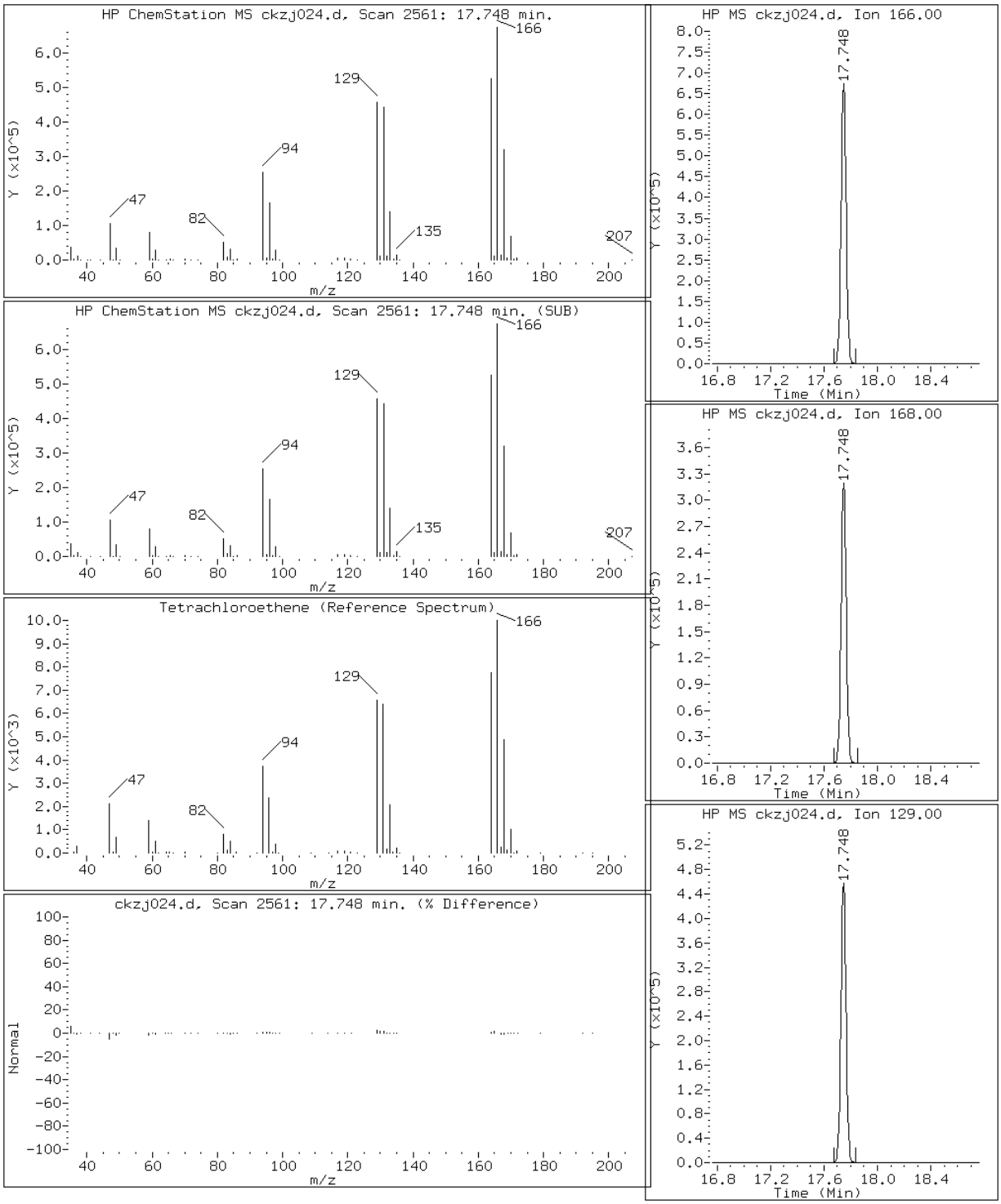
Data File: ckzj024.d

Lab Sample ID: 200-12423-1 Date: 29-AUG-2012 08:28

Client ID: AS-EFF-120822 Instrument: C.i

Sample Info: 200-12423-A-1 Operator: wrd

61 Tetrachloroethene



Manual Integration Report

Data File: ckzj024.d
Lab Sample ID: 200-12423-1
Inj. Date and Time: 29-AUG-2012 08:28
Instrument ID: C.i
Client ID: AS-EFF-120822
Compound: 42 Carbon tetrachloride
CAS #: 56-23-5
Report Date: 08/29/2012

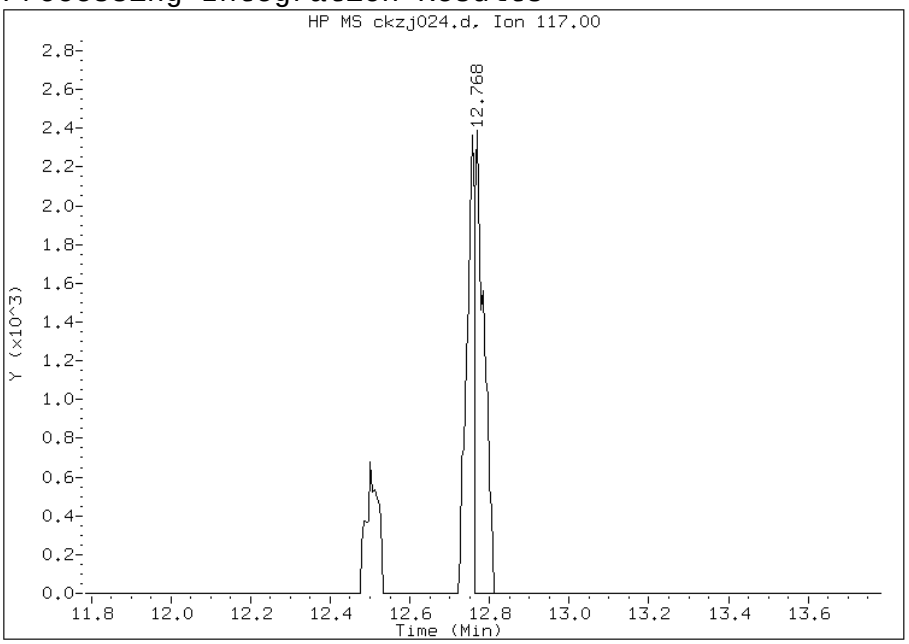
Processing Integration Results

RT: 12.77

Response: 4032

Amount: 0.043469

Conc: 0.673773



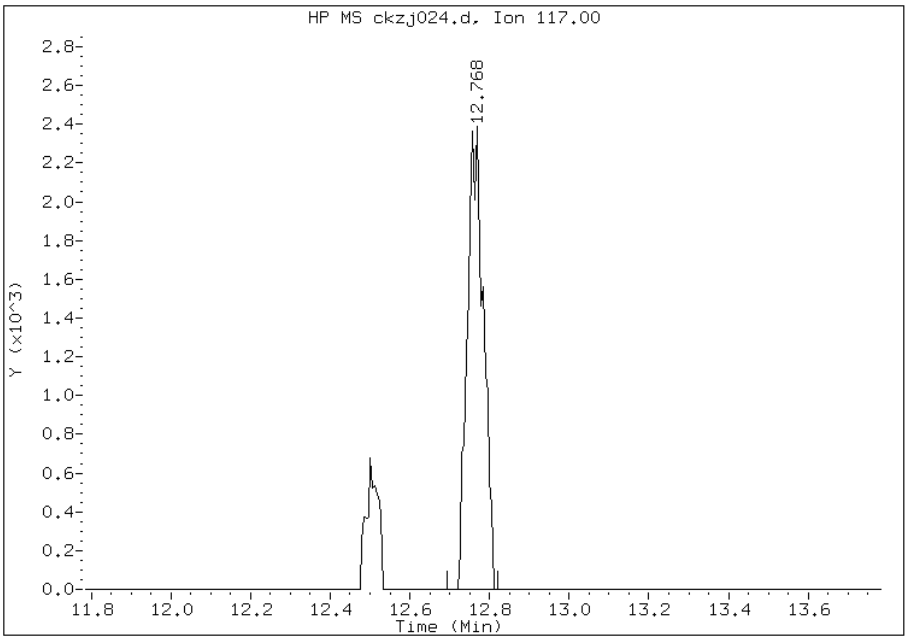
Manual Integration Results

RT: 12.77

Response: 6803

Amount: 0.073344

Conc: 1.14



File Uploaded By: klp
Manual Integration Reason: Baseline event

Manual Integration Report

Data File: ckzj024.d
Lab Sample ID: 200-12423-1
Inj. Date and Time: 29-AUG-2012 08:28
Instrument ID: C.i
Client ID: AS-EFF-120822
Compound: 58 Toluene
CAS #: 108-88-3
Report Date: 08/29/2012

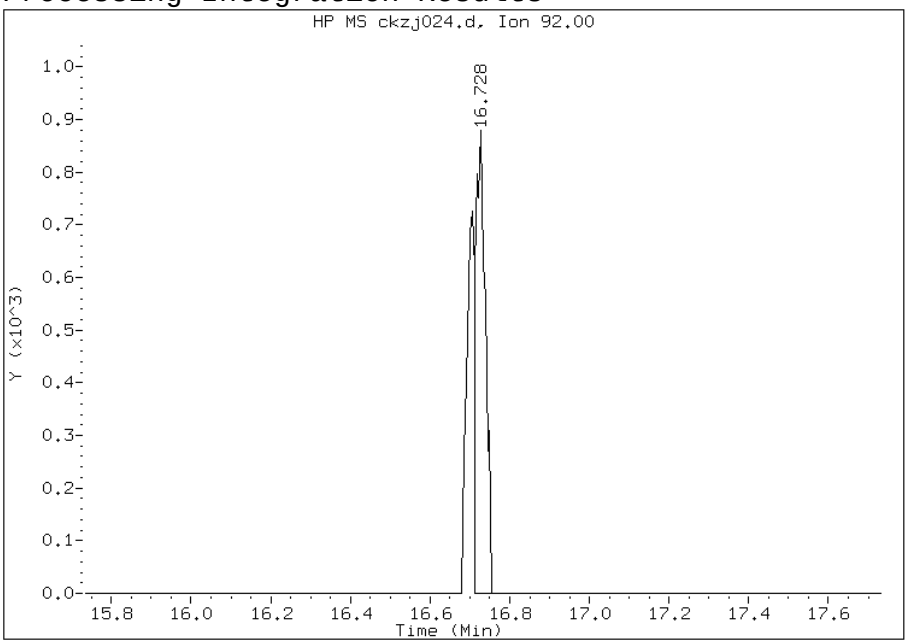
Processing Integration Results

RT: 16.73

Response: 1541

Amount: 0.018471

Conc: 0.286299



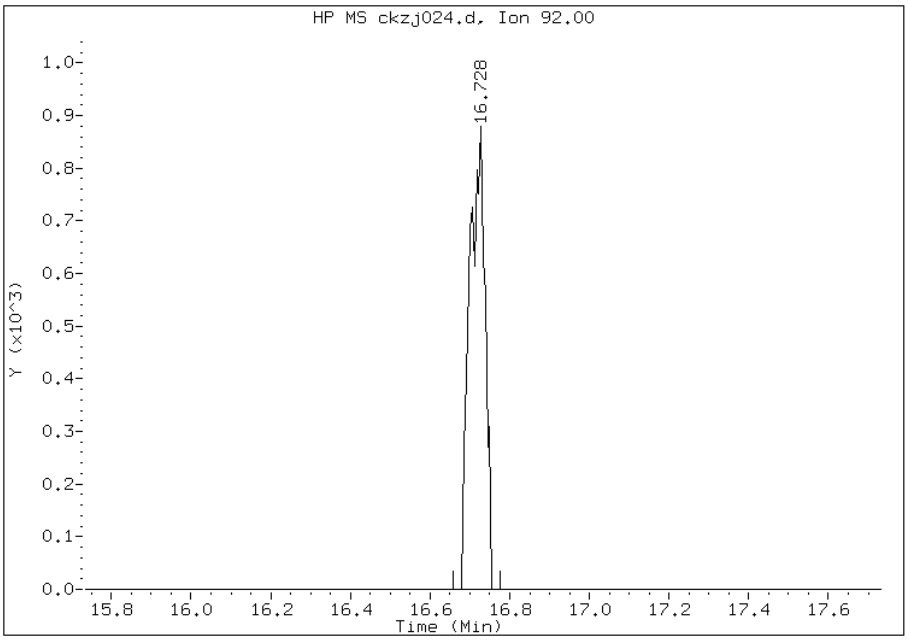
Manual Integration Results

RT: 16.73

Response: 2394

Amount: 0.028695

Conc: 0.444777



File Uploaded By: klp
Manual Integration Reason: Baseline event

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12423-1 Analy Batch No.: 43490

SDG No.: 200-12423

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

Calibration Files:

LEVEL:	LAB SAMPLE ID:	EPA SAMPLE NO:	LAB FILE ID:
Level 1	IC 200-43490/3	ic 376683	ckz003.d
Level 2	IC 200-43490/4	ic 376683	ckz004.d
Level 3	IC 200-43490/5	ic 376702	ckz005.d
Level 4	IC 200-43490/6	ic 370619	ckz006.d
Level 5	ICIS 200-43490/15	icis 370604	ckz015.d
Level 6	IC 200-43490/8	ic 370603	ckz008.d
Level 7	IC 200-43490/9	ic 370601	ckz009.d
Level 8	IC 200-43490/10	ic 370600	ckz010.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Propylene	+++++ 0.6295	+++++ 0.5874	0.7402 0.5409	0.7173	0.6751	Ave		0.6484				11.8		30.0			
Dichlorodifluoromethane	+++++ 2.6990	+++++ 2.5969	3.0739 2.4542	2.9563	2.6940	Ave		2.7457				8.4		30.0			
Freon 22	+++++ 1.3440	+++++ 1.2570	1.6383 1.1785	1.5074	1.3768	Ave		1.3837				12.1		30.0			
1,2-Dichlorotetrafluoroethane	+++++ 2.7953	3.0326 2.6891	2.8534 2.5507	2.9152	2.7473	Ave		2.7977				5.6		30.0			
Chloromethane	+++++ 0.7464	+++++ 0.7035	0.8814 0.6607	0.8254	0.7767	Ave		0.7657				10.5		30.0			
n-Butane	+++++ 1.3441	+++++ 1.2436	1.4925 1.1536	1.4833	1.4088	Ave		1.3543				10.0		30.0			
1,3-Butadiene	+++++ 0.6853	0.7256 0.6504	0.7225 0.6123	0.7244	0.6932	Ave		0.6877				6.3		30.0			
Acrolein	+++++ 0.2971	+++++ 0.2805	+++++ 0.2615	0.2879	0.2873	Ave		0.2829				4.7		30.0			
Vinyl chloride	1.0102 0.9389	1.0270 0.8943	0.9551 0.8450	0.9878	0.9461	Ave		0.9506				6.3		30.0			
Bromomethane	+++++ 0.9116	0.9619 0.9068	0.9221 0.8611	0.9265	0.9057	Ave		0.9137				3.3		30.0			
Chloroethane	+++++ 0.4839	+++++ 0.4636	0.4834 0.4416	0.5044	0.4835	Ave		0.4767				4.5		30.0			
Isopentane	+++++ 0.9958	1.1459 0.9497	1.1259 0.8853	1.1009	1.0165	Ave		1.0314				9.4		30.0			
Bromoethene(Vinyl Bromide)	+++++ 0.9780	1.0397 0.9713	0.9656 0.9395	0.9718	0.9601	Ave		0.9751				3.2		30.0			
Trichlorofluoromethane	+++++ 2.8528	3.1272 2.7322	3.1002 2.6033	3.0854	2.7689	Ave		2.8957				7.2		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12423-1 Analy Batch No.: 43490

SDG No.: 200-12423

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
n-Pentane	+++++ 1.5774	+++++ 1.4922	1.6768 1.3928	1.6987	1.6075	Ave		1.5742				7.3		30.0			
Ethanol	+++++ 0.2349	+++++ 0.2316	0.2485 0.2026	0.2536	0.2352	Ave		0.2344				7.6		30.0			
Ethyl ether	+++++ 0.6185	0.6091 0.5900	0.6031 0.5425	0.6261	0.6064	Ave		0.5994				4.6		30.0			
Freon TF	+++++ 1.9955	2.1282 1.9539	2.1940 1.8839	2.0570	1.9605	Ave		2.0247				5.3		30.0			
tert-Butyl alcohol	+++++ 1.1778	+++++ 1.1068	+++++ 1.0645	1.3202	1.2143	Ave		1.1767				8.4		30.0			
1,1-Dichloroethene	+++++ 0.9453	1.0305 0.9249	0.9672 0.9063	0.9532	0.9286	Ave		0.9508				4.2		30.0			
Acetone	+++++ 1.1122	+++++ 1.0173	+++++ 0.9194	1.2438	1.2129	Ave		1.1011				12.3		30.0			
Carbon disulfide	+++++ 2.6871	+++++ 2.6462	2.6890 2.5684	2.7553	2.6692	Ave		2.6692				2.3		30.0			
Isopropyl alcohol	+++++ 0.7860	+++++ 0.7474	+++++ 0.6592	0.8805	0.7949	Ave		0.7736				10.4		30.0			
3-Chloropropene	+++++ 1.1328	1.2061 1.0721	1.1458 1.0169	1.1852	1.1160	Ave		1.1250				5.8		30.0			
Acetonitrile	+++++ 0.4931	+++++ 0.4128	+++++ 0.4198	0.4870	0.4530	Ave		0.4531				8.2		30.0			
Methylene Chloride	+++++ 0.9029	+++++ 0.8597	1.1583 0.8039	0.9990	0.9121	Ave		0.9393				13.3		30.0			
Methyl tert-butyl ether	+++++ 2.7062	2.7875 2.5808	2.7311 2.4088	2.7209	2.5927	Ave		2.6468				4.9		30.0			
trans-1,2-Dichloroethene	+++++ 1.4050	1.4665 1.3364	1.4347 1.2690	1.5032	1.3799	Ave		1.3992				5.7		30.0			
Acrylonitrile	+++++ 0.5646	+++++ 0.5362	0.5065 0.5142	0.5690	0.5509	Ave		0.5402				4.8		30.0			
Ethyl acetate	+++++ 0.0857	+++++ 0.0841	+++++ 0.0804	0.0829	0.0808	Ave		0.0828				2.7		30.0			
n-Hexane	+++++ 1.5099	1.6008 1.4542	1.5311 1.3839	1.5967	1.5169	Ave		1.5134				5.1		30.0			
1,1-Dichloroethane	+++++ 1.7734	1.9531 1.7040	1.8624 1.6262	1.9013	1.7708	Ave		1.7987				6.4		30.0			
Vinyl acetate	+++++ 1.9832	+++++ 1.8707	+++++ 1.7205	1.9754	1.9144	Ave		1.8928				5.6		30.0			
cis-1,2-Dichloroethene	+++++ 1.0870	1.2717 1.0750	1.1730 1.0427	1.1081	1.0766	Ave		1.1192				7.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12423-1 Analy Batch No.: 43490

SDG No.: 200-12423

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Methyl Ethyl Ketone	+++++ 0.4322	+++++ 0.4192	0.4298 0.3859	0.4274	0.4157	Ave		0.4184				4.1		30.0			
Tetrahydrofuran	+++++ 0.1606	+++++ 0.1518	+++++ 0.1529	0.1659	0.1549	Ave		0.1572				3.8		30.0			
Chloroform	+++++ 2.2140	2.3865 2.1319	2.3238 2.0362	2.3519	2.1930	Ave		2.2339				5.7		30.0			
1,1,1-Trichloroethane	+++++ 0.4499	0.4704 0.4352	0.4665 0.4611	0.4759	0.4363	Ave		0.4565				3.6		30.0			
Cyclohexane	+++++ 0.2802	0.2903 0.2756	0.2698 0.2948	0.2807	0.2720	Ave		0.2805				3.3		30.0			
Benzene	+++++ 0.5802	0.6433 0.5730	0.5902 0.6008	0.5895	0.5688	Ave		0.5923				4.2		30.0			
2,2,4-Trimethylpentane	+++++ 0.8737	0.9119 0.8496	0.8673 0.8870	0.9116	0.8732	Ave		0.8821				2.6		30.0			
1,2-Dichloroethane	+++++ 0.2617	0.2786 0.2500	0.2746 0.2581	0.2845	0.2573	Ave		0.2664				4.8		30.0			
n-Heptane	+++++ 0.3082	0.3322 0.2952	0.3226 0.3039	0.3325	0.3119	Ave		0.3152				4.5		30.0			
n-Butanol	+++++ 0.0546	+++++ 0.0544	+++++ 0.0619	0.0604	0.0580	Ave		0.0579				5.8		30.0			
Carbon tetrachloride	0.5151 0.4828	0.4602 0.4675	0.4634 0.5042	0.5007	0.4614	Ave		0.4819				4.6		30.0			
1,2-Dichloropropane	+++++ 0.1966	0.2083 0.1933	0.1892 0.1958	0.2037	0.1917	Ave		0.1969				3.4		30.0			
Methyl methacrylate	+++++ 0.1803	+++++ 0.1783	0.1331 0.1864	0.1644	0.1664	Ave		0.1681				11.4		30.0			
1,4-Dioxane	+++++ 0.0712	+++++ 0.0699	+++++ 0.0667	0.0745	0.0684	Ave		0.0702				4.3		30.0			
Dibromomethane	+++++ 0.2615	0.2443 0.2624	0.2296 0.2869	0.2527	0.2476	Ave		0.2550				7.0		30.0			
Bromodichloromethane	+++++ 0.4495	0.4062 0.4369	0.4072 0.4516	0.4639	0.4358	Ave		0.4359				5.1		30.0			
cis-1,3-Dichloropropene	+++++ 0.3324	0.3100 0.3254	0.3061 0.3372	0.3336	0.3202	Ave		0.3236				3.7		30.0			
methyl isobutyl ketone	+++++ 0.2985	+++++ 0.2797	0.2594 0.2847	0.2942	0.2613	Ave		0.2796				5.9		30.0			
Trichloroethene	0.2875 0.2737	0.2880 0.2723	0.2663 0.2930	0.2792	0.2700	Ave		0.2787				3.5		30.0			
Toluene	+++++ 0.4835	0.4815 0.4825	0.4540 0.4965	0.4943	0.4634	Ave		0.4794				3.2		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12423-1 Analy Batch No.: 43490

SDG No.: 200-12423

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
n-Octane	+++++ 0.4230	0.4381 0.4028	0.4328 0.4014	0.4562	0.4227	Ave		0.4253				4.6		30.0			
trans-1,3-Dichloropropene	+++++ 0.3369	0.3008 0.3272	0.2874 0.3415	0.3314	0.3197	Ave		0.3207				6.2		30.0			
1,1,2-Trichloroethane	+++++ 0.2181	0.2203 0.2156	0.2095 0.2188	0.2245	0.2072	Ave		0.2163				2.8		30.0			
Tetrachloroethene	+++++ 0.4576	0.4531 0.4611	0.4152 0.4946	0.4561	0.4262	Ave		0.4520				5.7		30.0			
Methyl Butyl Ketone (2-Hexanone)	+++++ 0.2980	+++++ 0.2840	0.2417 0.2949	0.2986	0.2583	Ave		0.2793				8.5		30.0			
Dibromochloromethane	+++++ 0.5178	0.3838 0.5183	0.3915 0.5408	0.5062	0.4712	Ave		0.4757				13.4		30.0			
1,2-Dibromoethane	+++++ 0.4414	0.3774 0.4387	0.3681 0.4527	0.4415	0.4088	Ave		0.4184				8.1		30.0			
Chlorobenzene	+++++ 0.7086	0.6912 0.7037	0.6536 0.7341	0.7082	0.6592	Ave		0.6941				4.1		30.0			
Ethylbenzene	+++++ 1.0414	0.9953 1.0249	0.9260 1.0839	1.0198	0.9674	Ave		1.0084				5.1		30.0			
n-Nonane	+++++ 0.4527	0.4381 0.4333	0.4084 0.4449	0.4659	0.4292	Ave		0.4389				4.2		30.0			
m,p-Xylene	+++++ 0.4453	0.3947 0.4335	0.3717 0.4599	0.4270	0.4087	Ave		0.4201				7.2		30.0			
Xylene, o-	+++++ 0.4315	0.3697 0.4221	0.3672 0.4420	0.4158	0.3987	Ave		0.4067				7.2		30.0			
Styrene	+++++ 0.6545	0.4186 0.6503	0.4137 0.7079	0.5892	0.5921	Ave		0.5752				20.2		30.0			
Bromoform	+++++ 0.5234	0.3362 0.5184	0.3369 0.5577	0.4886	0.4670	Ave		0.4612				19.5		30.0			
Cumene	+++++ 1.2449	1.0564 1.2187	1.0303 1.3045	1.1942	1.1407	Ave		1.1699				8.5		30.0			
1,1,2,2-Tetrachloroethane	+++++ 0.5594	0.4939 0.5417	0.4842 0.5651	0.5497	0.5110	Ave		0.5293				6.2		30.0			
1,2,3-Trichloropropane	+++++ 0.4464	+++++ 0.4251	0.3994 0.4337	0.4504	0.4130	Ave		0.4280				4.6		30.0			
n-Propylbenzene	+++++ 1.4270	1.0943 1.3800	1.1149 1.4648	1.3660	1.3033	Ave		1.3072				11.3		30.0			
4-Ethyltoluene	+++++ 1.2731	0.8881 1.2219	0.9346 1.2697	1.1957	1.1452	Ave		1.1326				13.9		30.0			
n-Decane	+++++ 0.5415	+++++ 0.4921	0.4309 0.4565	0.5550	0.5122	Ave		0.4980				9.7		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12423-1 Analy Batch No.: 43490

SDG No.: 200-12423

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Chlorotoluene	+++++ 1.0237	0.9527 0.9776	0.8777 0.9916	1.0255	0.9416	Ave		0.9700				5.3		30.0			
1,3,5-Trimethylbenzene	+++++ 1.0725	0.8271 1.0376	0.8267 1.1237	1.0221	0.9668	Ave		0.9824				11.8		30.0			
Alpha Methyl Styrene	+++++ 0.5424	0.2741 0.5371	0.2919 0.5934	0.4862	0.4835	Ave		0.4584				27.4		30.0			
tert-Butylbenzene	+++++ 1.0660	0.8471 1.0342	0.8697 1.1094	1.0242	0.9632	Ave		0.9877				10.0		30.0			
1,2,4-Trimethylbenzene	+++++ 1.0623	0.7512 1.0193	0.7523 1.1125	1.0052	0.9499	Ave		0.9504				15.2		30.0			
sec-Butylbenzene	+++++ 1.5249	1.1189 1.4757	1.1564 1.5976	1.4642	1.3776	Ave		1.3879				13.2		30.0			
4-Isopropyltoluene	+++++ 1.3417	0.8530 1.2959	0.9130 1.4136	1.2477	1.1837	Ave		1.1784				18.2		30.0			
1,3-Dichlorobenzene	+++++ 0.7348	0.5588 0.7132	0.5407 0.8024	0.6860	0.6499	Ave		0.6694				14.1		30.0			
1,4-Dichlorobenzene	+++++ 0.7123	0.5378 0.6954	0.5185 0.7879	0.6573	0.6287	Ave		0.6483				14.8		30.0			
Benzyl chloride	+++++ 0.8213	0.5097 0.7993	0.4763 0.9010	0.7128	0.7009	Ave		0.7030				22.6		30.0			
n-Butylbenzene	+++++ 1.0531	0.5909 0.9990	0.6111 1.0906	0.9419	0.9124	Ave		0.8856				23.0		30.0			
n-Undecane	+++++ 0.5151	+++++ 0.4433	+++++ 0.5222	0.4232	0.4044	Ave		0.4617				11.7		30.0			
1,2-Dichlorobenzene	+++++ 0.6881	0.5127 0.6634	0.5013 0.7433	0.6447	0.6044	Ave		0.6226				14.4		30.0			
n-Dodecane	+++++ 0.2706	+++++ 0.2045	+++++ 0.3015	0.2987	0.2448	Ave		0.2640				15.3		30.0			
1,2,4-Trichlorobenzene	+++++ 0.2947	+++++ 0.2692	0.2232 0.3580	0.2901	0.2335	Ave		0.2781				17.5		30.0			
Hexachlorobutadiene	+++++ 0.4011	0.2962 0.3751	0.2901 0.4087	0.3822	0.3391	Ave		0.3561				13.6		30.0			
Naphthalene	+++++ 0.5959	+++++ 0.5080	0.4051 0.7434	0.5750	0.4881	Ave		0.5526				20.9		30.0			
1,2,3-Trichlorobenzene	+++++ 0.2299	0.1800 0.2069	0.1848 0.2710	0.2348	0.1940	Ave		0.2145				15.2		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12423-1 Analy Batch No.: 43490

SDG No.: 200-12423

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-43490/3	ckz003.d
Level 2	IC 200-43490/4	ckz004.d
Level 3	IC 200-43490/5	ckz005.d
Level 4	IC 200-43490/6	ckz006.d
Level 5	ICIS 200-43490/15	ckz015.d
Level 6	IC 200-43490/8	ckz008.d
Level 7	IC 200-43490/9	ckz009.d
Level 8	IC 200-43490/10	ckz010.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	+++++ 393566	+++++ 536817	13040 1063874	127364	283059	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Dichlorodifluoromethane	BCM	Ave	+++++ 1687394	+++++ 2373061	54156 4827325	524916	1129574	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Freon 22	BCM	Ave	+++++ 840224	+++++ 1148663	28864 2318035	267662	577311	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
1,2-Dichlorotetrafluoroethane	BCM	Ave	+++++ 1747564	22087 2457381	50270 5017164	517629	1151940	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chloromethane	BCM	Ave	+++++ 466665	+++++ 642841	15529 1299651	146550	325650	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
n-Butane	BCM	Ave	+++++ 840295	+++++ 1136393	26294 2269233	263379	590701	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
1,3-Butadiene	BCM	Ave	+++++ 428417	5285 594316	12729 1204410	128623	290672	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acrolein	BCM	Ave	+++++ 185751	+++++ 256344	+++++ 514321	51122	120447	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
Vinyl chloride	BCM	Ave	1524 586988	7480 817235	16827 1662035	175401	396687	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromomethane	BCM	Ave	+++++ 569942	7006 828656	16245 1693799	164502	379780	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chloroethane	BCM	Ave	+++++ 302553	+++++ 423646	8516 868559	89570	202738	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Isopentane	BCM	Ave	+++++ 622540	8346 867881	19836 1741356	195472	426219	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromoethene(Vinyl Bromide)	BCM	Ave	+++++ 611435	7572 887634	17011 1848007	172557	402574	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Trichlorofluoromethane	BCM	Ave	+++++ 1783517	22776 2496706	54619 5120772	547854	1161002	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Pentane	BCM	Ave	+++++ 986163	+++++ 1363630	29541 2739630	301630	674005	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12423-1 Analy Batch No.: 43490

SDG No.: 200-12423

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethanol	BCM	Ave	+++++ 195794	+++++ 423287	43784 996073	90045	147960	+++++ 20.0	+++++ 40.0	5.00 100	10.0	15.0
Ethyl ether	BCM	Ave	+++++ 386647	4436 539131	10625 1067046	111163	254247	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Freon TF	BCM	Ave	+++++ 1247555	15500 1785541	38654 3705569	365245	822029	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
tert-Butyl alcohol	BCM	Ave	+++++ 736341	+++++ 1011441	+++++ 2093862	234420	509154	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
1,1-Dichloroethene	BCM	Ave	+++++ 590970	7505 845197	17040 1782667	169248	389344	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acetone	BCM	Ave	+++++ 695313	+++++ 929650	+++++ 1808368	220856	508549	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
Carbon disulfide	BCM	Ave	+++++ 1679909	+++++ 2418141	47375 5052073	489232	1119189	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Isopropyl alcohol	BCM	Ave	+++++ 491424	+++++ 682994	+++++ 1296594	156350	333318	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
3-Chloropropene	BCM	Ave	+++++ 708216	8784 979703	20186 2000333	210440	467926	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acetonitrile	BCM	Ave	+++++ 308270	+++++ 377267	+++++ 825669	86464	189950	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
Methylene Chloride	BCM	Ave	+++++ 564476	+++++ 785574	20407 1581183	177376	382450	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Methyl tert-butyl ether	BCM	Ave	+++++ 1691850	20302 2358384	48116 4738158	483116	1087102	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
trans-1,2-Dichloroethene	BCM	Ave	+++++ 878373	10681 1221256	25276 2496079	266907	578583	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acrylonitrile	BCM	Ave	+++++ 352996	+++++ 489994	8923 1011403	101040	230986	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Ethyl acetate	BCM	Ave	+++++ 53550	+++++ 76824	+++++ 158228	14712	33878	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
n-Hexane	BCM	Ave	+++++ 943974	11659 1328827	26975 2722223	283502	636047	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1-Dichloroethane	BCM	Ave	+++++ 1108709	14225 1557111	32811 3198805	337595	742485	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Vinyl acetate	BCM	Ave	+++++ 1239854	+++++ 1709438	+++++ 3384215	350751	802692	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
cis-1,2-Dichloroethene	BCM	Ave	+++++ 679576	9262 982350	20666 2051085	196752	451438	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl Ethyl Ketone	BCM	Ave	+++++ 270226	+++++ 383108	7573 758972	75894	174301	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Tetrahydrofuran	DFB	Ave	+++++ 555906	+++++ 761622	+++++ 1491236	165101	362068	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12423-1 Analy Batch No.: 43490

SDG No.: 200-12423

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	BCM	Ave	+++++ 1384145	17381 1948138	40941 4005308	417596	919514	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,1-Trichloroethane	DFB	Ave	+++++ 1556934	19132 2183499	46194 4498299	473681	1020074	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Cyclohexane	DFB	Ave	+++++ 969727	11808 1382842	26715 2875788	279394	636062	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Benzene	DFB	Ave	+++++ 2008021	26166 2874734	58442 5861699	586751	1329811	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
2,2,4-Trimethylpentane	DFB	Ave	+++++ 3023710	37093 4262374	85877 8653827	907351	2041604	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dichloroethane	DFB	Ave	+++++ 905678	11331 1254053	27191 2518111	283185	601581	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Heptane	DFB	Ave	+++++ 1066712	13511 1481103	31946 2965258	331000	729294	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Butanol	DFB	Ave	+++++ 189079	+++++ 272944	+++++ 604323	60155	135583	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
Carbon tetrachloride	DFB	Ave	4394 1670958	18719 2345482	45880 4919166	498385	1078834	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dichloropropane	DFB	Ave	+++++ 680514	8471 969733	18732 1910510	202786	448163	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl methacrylate	DFB	Ave	+++++ 623788	+++++ 894560	13183 1818413	163651	388995	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
1,4-Dioxane	DFB	Ave	+++++ 246521	+++++ 350811	+++++ 650303	74196	159944	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
Dibromomethane	DFB	Ave	+++++ 905001	9939 1316604	22730 2799296	251523	578927	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromodichloromethane	DFB	Ave	+++++ 1555426	16523 2191881	40315 4405637	461707	1018972	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
cis-1,3-Dichloropropene	DFB	Ave	+++++ 1150398	12608 1632459	30308 3289522	332086	748632	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
methyl isobutyl ketone	DFB	Ave	+++++ 1032913	+++++ 1403370	25685 2777113	292876	610844	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Trichloroethene	DFB	Ave	2452 947186	11714 1365930	26365 2858818	277869	631256	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Toluene	CBZ	Ave	+++++ 1532941	17855 2202530	41556 4448120	439755	1009776	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Octane	DFB	Ave	+++++ 1463679	17820 2020913	42856 3915874	454106	988252	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
trans-1,3-Dichloropropene	DFB	Ave	+++++ 1166001	12235 1641621	28452 3332037	329846	747465	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,2-Trichloroethane	CBZ	Ave	+++++ 691388	8167 983941	19172 1959711	199746	451489	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12423-1 Analy Batch No.: 43490

SDG No.: 200-12423

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrachloroethene	CBZ	Ave	+++++ 1450848	16802 2104727	38008 4431081	405766	928617	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl Butyl Ketone (2-Hexanone)	CBZ	Ave	+++++ 944792	+++++ 1296084	22126 2641748	265661	562900	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Dibromochloromethane	CBZ	Ave	+++++ 1641809	14230 2365702	35839 4844163	450291	1026857	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dibromoethane	CBZ	Ave	+++++ 1399518	13995 2002421	33697 4055501	392787	890755	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chlorobenzene	CBZ	Ave	+++++ 2246719	25629 3211968	59828 6576503	630032	1436363	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Ethylbenzene	CBZ	Ave	+++++ 3302057	36906 4678329	84758 9709309	907186	2107945	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Nonane	CBZ	Ave	+++++ 1435289	16244 1978008	37379 3985736	414432	935342	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
m,p-Xylene	CBZ	Ave	+++++ 2823904	29267 3957139	68046 8239271	759733	1781171	+++++ 30.0	0.400 40.0	1.00 80.0	10.0	20.0
Xylene, o-	CBZ	Ave	+++++ 1368167	13709 1926863	33614 3959827	369852	868813	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Styrene	CBZ	Ave	+++++ 2075226	15521 2968156	37864 6341806	524148	1290186	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromoform	CBZ	Ave	+++++ 1659606	12464 2366238	30836 4995494	434651	1017655	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Cumene	CBZ	Ave	+++++ 3947303	39171 5562721	94306 11685494	1062326	2485603	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,2,2-Tetrachloroethane	CBZ	Ave	+++++ 1773677	18312 2472348	44322 5061975	488992	1113422	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2,3-Trichloropropane	CBZ	Ave	+++++ 1415521	+++++ 1940206	36558 3884902	400659	899864	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
n-Propylbenzene	CBZ	Ave	+++++ 4524580	40576 6298984	102048 13121769	1215235	2840068	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
4-Ethyltoluene	CBZ	Ave	+++++ 4036789	32929 5577490	85543 11374226	1063720	2495383	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Decane	CBZ	Ave	+++++ 1716815	+++++ 2246198	39442 4089282	493744	1116216	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
2-Chlorotoluene	CBZ	Ave	+++++ 3245736	35324 4462218	80335 8882480	912240	2051831	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,3,5-Trimethylbenzene	CBZ	Ave	+++++ 3400461	30668 4736016	75673 10066067	909268	2106707	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Alpha Methyl Styrene	CBZ	Ave	+++++ 1719742	10162 2451434	26719 5316033	432507	1053537	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
tert-Butylbenzene	CBZ	Ave	+++++ 3380018	31409 4720355	79610 9938298	911084	2098797	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12423-1 Analy Batch No.: 43490

SDG No.: 200-12423

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBZ	Ave	+++++ 3368303	27852 4652357	68858 9966136	894230	2069833	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
sec-Butylbenzene	CBZ	Ave	+++++ 4835073	41489 6735894	105849 14311357	1302558	3001987	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
4-Isopropyltoluene	CBZ	Ave	+++++ 4254247	31629 5915135	83572 12663046	1109988	2579274	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,3-Dichlorobenzene	CBZ	Ave	+++++ 2329856	20720 3255522	49495 7188170	610301	1416167	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,4-Dichlorobenzene	CBZ	Ave	+++++ 2258369	19940 3174265	47456 7057943	584758	1369962	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Benzyl chloride	CBZ	Ave	+++++ 2604019	18898 3648254	43600 8071371	634101	1527206	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Butylbenzene	CBZ	Ave	+++++ 3339168	21909 4559870	55935 9769839	837955	1988185	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Undecane	CBZ	Ave	+++++ 1633244	+++++ 2023452	+++++ 4678209	376487	881223	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
1,2-Dichlorobenzene	CBZ	Ave	+++++ 2181647	19010 3027941	45888 6658200	573557	1317115	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Dodecane	CBZ	Ave	+++++ 857889	+++++ 933475	+++++ 2701195	265689	533363	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
1,2,4-Trichlorobenzene	CBZ	Ave	+++++ 934260	+++++ 1228920	20429 3207300	258080	508705	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Hexachlorobutadiene	CBZ	Ave	+++++ 1271862	10984 1712222	26553 3660873	339968	738987	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Naphthalene	CBZ	Ave	+++++ 1889409	+++++ 2318811	37078 6659792	511479	1063574	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
1,2,3-Trichlorobenzene	CBZ	Ave	+++++ 729064	6673 944178	16918 2427773	208922	422731	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/ckzto15.b/ckz003.d
Lab Smp Id: ic 376683 Client Smp ID: ic 376683
Inj Date : 14-AUG-2012 18:13
Operator : wrd Inst ID: C.i
Smp Info : ic 376683
Misc Info : 40,1,level 8
Comment :
Method : /chem/C.i/Csvr.p/ckzto15.b/to15v5.m
Meth Date : 16-Aug-2012 08:34 klp Quant Type: ISTD
Cal Date : 14-AUG-2012 18:13 Cal File: ckz003.d
Als bottle: 2 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	40.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
1 Propene	41	Compound Not Detected.					
2 Dichlorodifluoromethane	85	Compound Not Detected.					
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	Compound Not Detected.					
6 Butane	43	Compound Not Detected.					
7 Vinyl chloride	62	5.131	5.121	(0.424)	1524	0.04000	0.043(aM)
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
11 2-Methylbutane	43	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Pentane	43	Compound Not Detected.					

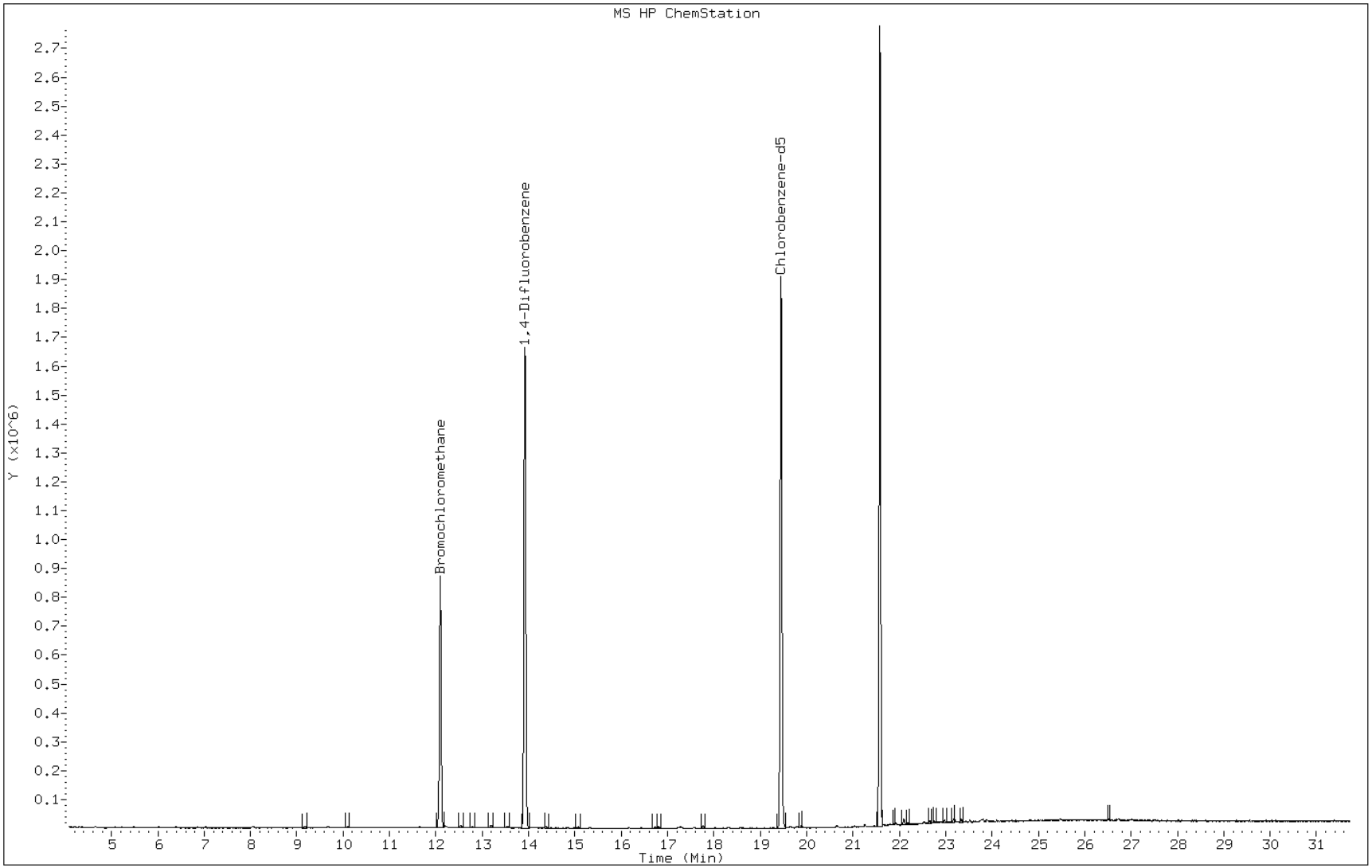
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	Compound Not Detected.					
	16 Ethyl ether	59	Compound Not Detected.					
	17 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
	18 Acrolein	56	Compound Not Detected.					
	19 1,1-Dichloroethene	96	Compound Not Detected.					
	20 Acetone	43	Compound Not Detected.					
	21 Carbon disulfide	76	Compound Not Detected.					
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	24 Acetonitrile	41	Compound Not Detected.					
	25 Methylene chloride	49	Compound Not Detected.					
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	29 Acrylonitrile	53	Compound Not Detected.					
	30 n-Hexane	57	Compound Not Detected.					
	31 1,1-Dichloroethane	63	Compound Not Detected.					
	32 Vinyl acetate	43	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.					
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.					
	35 Ethyl acetate	88	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	Compound Not Detected.					
*	37 Bromochloromethane	128	12.096	12.096	(1.000)	377146	10.0000	
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	Compound Not Detected.					
	40 Cyclohexane	84	Compound Not Detected.					
	41 1,1,1-Trichloroethane	97	Compound Not Detected.					
	42 Carbon tetrachloride	117	12.784	12.784	(0.918)	4394	0.04000	0.043(aM)
	43 2,2,4-Trimethylpentane	57	Compound Not Detected.					
	44 Benzene	78	Compound Not Detected.					
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	13.921	13.921	(1.000)	2132470	10.0000	
	48 n-Butanol	56	Compound Not Detected.					
	49 Trichloroethene	95	14.369	14.375	(1.032)	2452	0.04000	0.041(aQ)
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	52 Dibromomethane	174	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	Compound Not Detected.					
	57 n-Octane	43	Compound Not Detected.					
	58 Toluene	92	Compound Not Detected.					
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	19.450	19.450	(1.000)	1877367	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	67 n-Nonane	57	Compound Not Detected.					
	68 Ethylbenzene	91	Compound Not Detected.					
	69 Xylene (m,p)	106	Compound Not Detected.					
M	70 Xylenes, Total	106	Compound Not Detected.					
	71 Xylene (o)	106	Compound Not Detected.					
	72 Styrene	104	Compound Not Detected.					
	73 Bromoform	173	Compound Not Detected.					
	74 Isopropylbenzene	105	Compound Not Detected.					
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	76 n-Propylbenzene	91	Compound Not Detected.					
	77 1,2,3-Trichloropropane	75	Compound Not Detected.					
	78 n-Decane	57	Compound Not Detected.					
	79 4-Ethyltoluene	105	Compound Not Detected.					
	80 2-Chlorotoluene	91	Compound Not Detected.					
	81 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	82 Alpha Methyl Styrene	118	Compound Not Detected.					
	83 tert-butylbenzene	119	Compound Not Detected.					
	84 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	85 sec-Butylbenzene	105	Compound Not Detected.					
	86 4-Isopropyltoluene	119	Compound Not Detected.					
	87 1,3-Dichlorobenzene	146	Compound Not Detected.					
	88 1,4-Dichlorobenzene	146	Compound Not Detected.					
	89 Benzyl chloride	91	Compound Not Detected.					
	90 Undecane	57	Compound Not Detected.					
	91 n-Butylbenzene	91	Compound Not Detected.					
	92 1,2-Dichlorobenzene	146	Compound Not Detected.					
	93 Dodecane	57	Compound Not Detected.					
	94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
	96 Naphthalene	128	Compound Not Detected.					
	97 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File:	ckz003.d	Date:	14-AUG-2012 18:13
Client ID:	ic 376683	Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 376683		
Lab Sample ID:	ic 376683		



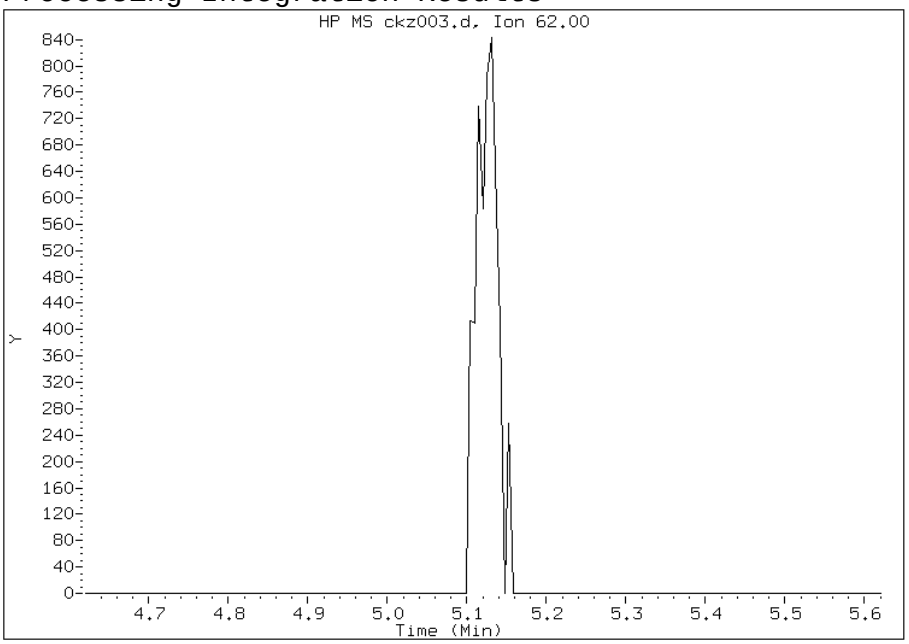
Manual Integration Report

Data File: ckz003.d
Lab Sample ID: ic 376683
Inj. Date and Time: 14-AUG-2012 18:13
Instrument ID: C.i
Client ID: ic 376683
Compound: 7 Vinyl chloride
CAS #: 75-01-4
Report Date: 08/16/2012

Processing Integration Results

Not Detected

Expected RT: 5.12



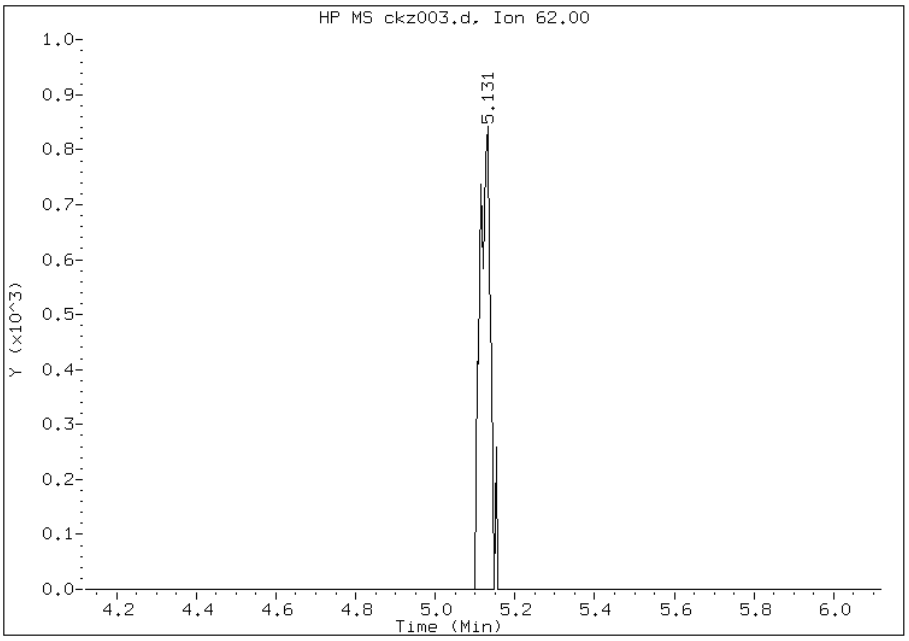
Manual Integration Results

RT: 5.13

Response: 1524

Amount: 0.042511

Conc: 0.042511



File Uploaded By: klp
Manual Integration Reason: Poor chromatography

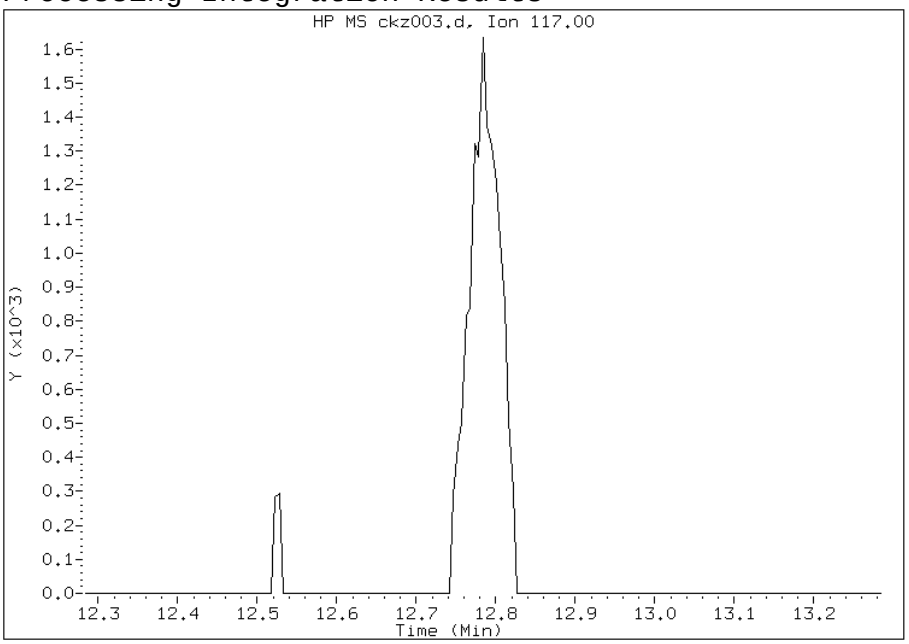
Manual Integration Report

Data File: ckz003.d
Lab Sample ID: ic 376683
Inj. Date and Time: 14-AUG-2012 18:13
Instrument ID: C.i
Client ID: ic 376683
Compound: 42 Carbon tetrachloride
CAS #: 56-23-5
Report Date: 08/16/2012

Processing Integration Results

Not Detected

Expected RT: 12.78



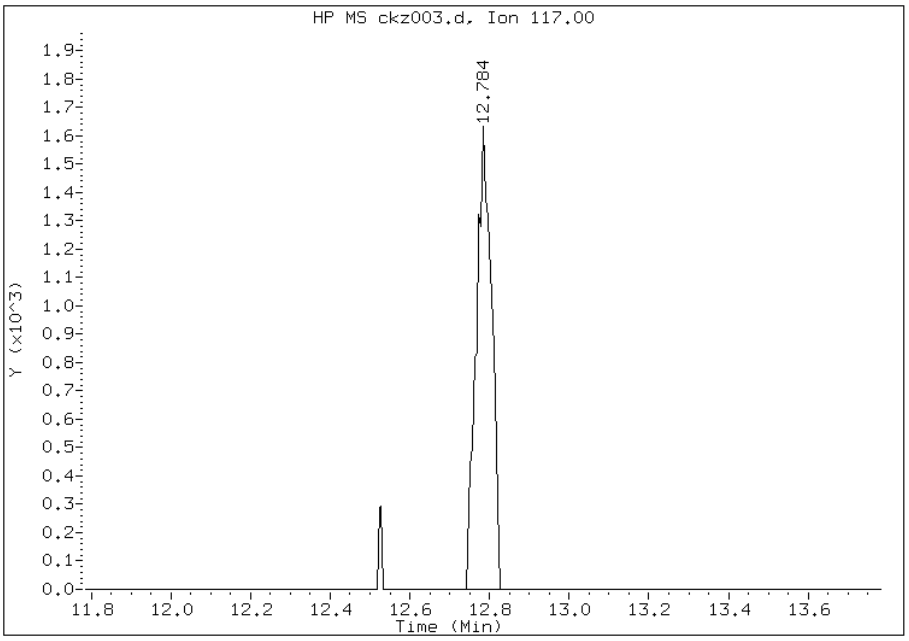
Manual Integration Results

RT: 12.78

Response: 4394

Amount: 0.042756

Conc: 0.042756



File Uploaded By: klp
Manual Integration Reason: Poor chromatography

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/ckzto15.b/ckz004.d
Lab Smp Id: ic 376683 Client Smp ID: ic 376683
Inj Date : 14-AUG-2012 19:07
Operator : wrd Inst ID: C.i
Smp Info : ic 376683
Misc Info : 200,1,level 1
Comment :
Method : /chem/C.i/Csvr.p/ckzto15.b/to15v5.m
Meth Date : 16-Aug-2012 08:33 klp Quant Type: ISTD
Cal Date : 14-AUG-2012 19:07 Cal File: ckz004.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
1 Propene	41	4.208	4.208	(0.348)	7668	0.20000	0.32(a)
2 Dichlorodifluoromethane	85	4.304	4.304	(0.356)	22274	0.20000	0.22(a)
3 Chlorodifluoromethane	51	4.357	4.363	(0.360)	12398	0.20000	0.25(a)
4 1,2-Dichloro-1,1,2,2-tetraflu	85	4.651	4.651	(0.385)	22087	0.20000	0.22
5 Chloromethane	50	4.811	4.811	(0.398)	7302	0.20000	0.26(a)
6 Butane	43	5.078	5.078	(0.420)	11274	0.20000	0.23(a)
7 Vinyl chloride	62	5.120	5.121	(0.424)	7480	0.20000	0.22
8 1,3-Butadiene	54	5.222	5.217	(0.432)	5285	0.20000	0.21
9 Bromomethane	94	6.012	6.012	(0.497)	7006	0.20000	0.21
10 Chloroethane	64	6.284	6.284	(0.520)	3751	0.20000	0.22(a)
11 2-Methylbutane	43	6.407	6.396	(0.530)	8346	0.20000	0.22
12 Vinyl bromide	106	6.732	6.727	(0.557)	7572	0.20000	0.21
13 Trichlorofluoromethane	101	6.855	6.860	(0.567)	22776	0.20000	0.22
14 Pentane	43	7.026	7.026	(0.581)	13017	0.20000	0.23(a)

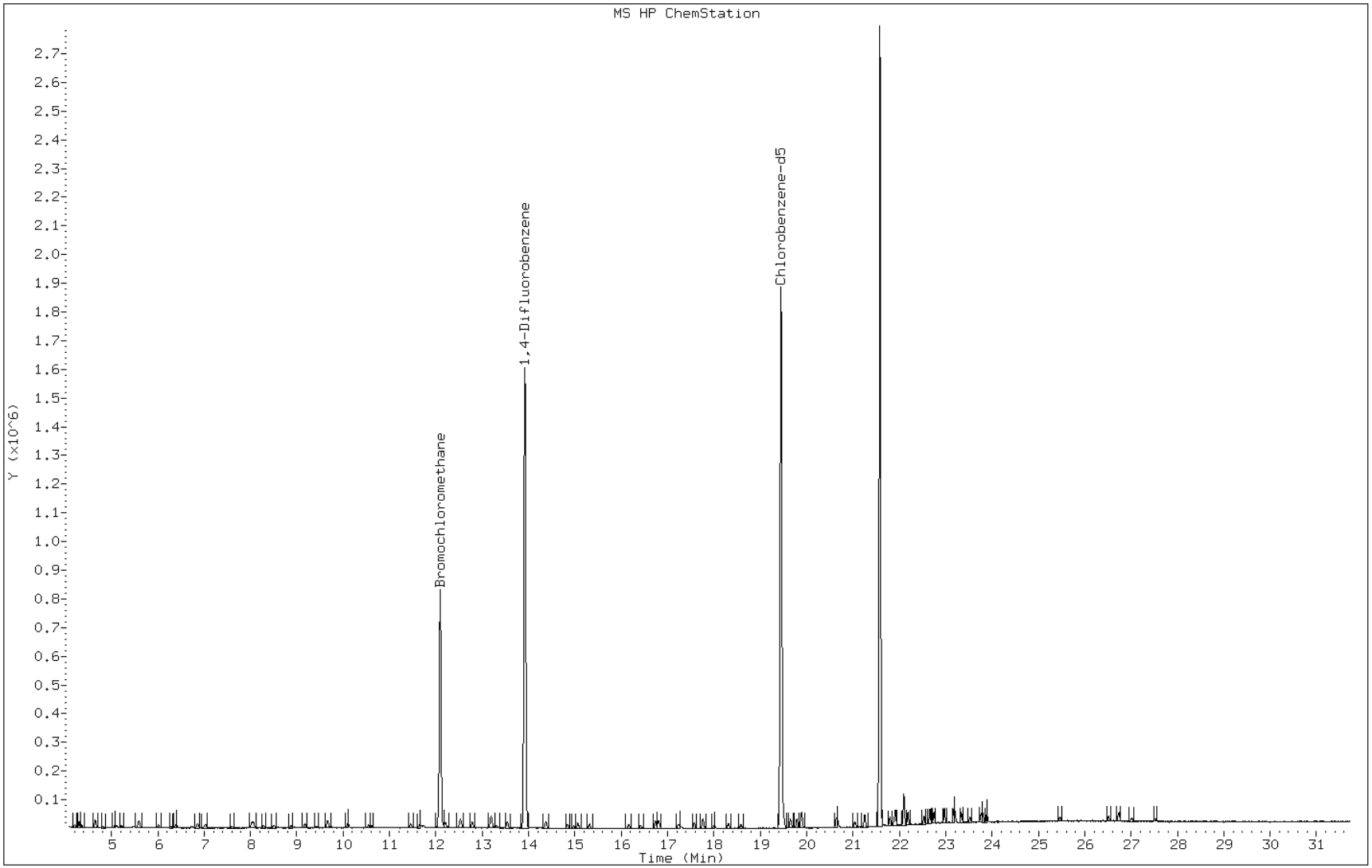
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	7.437	7.426	(0.615)	3994	0.20000	0.47(a)
	16 Ethyl ether	59	7.597	7.581	(0.628)	4436	0.20000	0.20
	17 1,1,2-Trichloro-1,2,2-trifluo	101	8.034	8.034	(0.665)	15500	0.20000	0.21
	18 Acrolein	56	Compound Not Detected.					
	19 1,1-Dichloroethene	96	8.072	8.072	(0.668)	7505	0.20000	0.22
	20 Acetone	43	8.280	8.269	(0.685)	15272	0.20000	0.38(a)
	21 Carbon disulfide	76	8.509	8.509	(0.704)	20593	0.20000	0.21(a)
	22 Isopropanol	45	8.600	8.573	(0.711)	6279	0.20000	0.22(a)
	23 Allyl chloride	41	8.878	8.883	(0.734)	8784	0.20000	0.21(a)
	24 Acetonitrile	41	8.952	8.942	(0.740)	4792	0.20000	0.29(aQM)
	25 Methylene chloride	49	9.177	9.177	(0.759)	10643	0.20000	0.31(a)
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	9.662	9.641	(0.799)	20302	0.20000	0.21(M)
	28 1,2-Dichloroethene (trans)	61	9.662	9.668	(0.799)	10681	0.20000	0.21
	29 Acrylonitrile	53	9.753	9.748	(0.807)	3746	0.20000	0.19(a)
	30 n-Hexane	57	10.105	10.105	(0.836)	11659	0.20000	0.21
	31 1,1-Dichloroethane	63	10.548	10.548	(0.872)	14225	0.20000	0.22
	32 Vinyl acetate	43	10.612	10.607	(0.878)	13279	0.20000	0.19(a)
M	33 1,2-Dichloroethene,Total	61				19943	0.40000	0.44
	34 1,2-Dichloroethene (cis)	96	11.648	11.653	(0.963)	9262	0.20000	0.23
	35 Ethyl acetate	88	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	11.685	11.674	(0.966)	2806	0.20000	0.18(aQ)
*	37 Bromochloromethane	128	12.091	12.096	(1.000)	364158	10.0000	
	38 Tetrahydrofuran	42	12.165	12.139	(0.874)	6743	0.20000	0.21(a)
	39 Chloroform	83	12.213	12.213	(1.010)	17381	0.20000	0.21
	40 Cyclohexane	84	12.539	12.544	(0.901)	11808	0.20000	0.21
	41 1,1,1-Trichloroethane	97	12.533	12.528	(0.900)	19132	0.20000	0.21
	42 Carbon tetrachloride	117	12.784	12.784	(0.918)	18719	0.20000	0.19(a)
	43 2,2,4-Trimethylpentane	57	13.195	13.201	(0.948)	37093	0.20000	0.21
	44 Benzene	78	13.190	13.190	(0.947)	26166	0.20000	0.22
	45 1,2-Dichloroethane	62	13.313	13.318	(0.956)	11331	0.20000	0.21
	46 n-Heptane	43	13.542	13.542	(0.973)	13511	0.20000	0.21
*	47 1,4-Difluorobenzene	114	13.921	13.921	(1.000)	2033782	10.0000	
	48 n-Butanol	56	14.241	14.209	(1.023)	2579	0.20000	0.22(aM)
	49 Trichloroethene	95	14.369	14.375	(1.032)	11714	0.20000	0.21
	50 1,2-Dichloropropane	63	14.834	14.844	(1.066)	8471	0.20000	0.21
	51 Methyl methacrylate	69	14.972	14.972	(1.076)	4924	0.20000	0.14(a)
	52 Dibromomethane	174	15.063	15.069	(1.082)	9939	0.20000	0.19(a)
	53 1,4-Dioxane	88	15.058	15.042	(1.082)	2644	0.20000	0.19(a)
	54 Bromodichloromethane	83	15.314	15.319	(1.100)	16523	0.20000	0.19(a)
	55 1,3-Dichloropropene (cis)	75	16.157	16.163	(1.161)	12608	0.20000	0.19(a)
	56 Methyl isobutyl ketone	43	16.413	16.408	(1.179)	10187	0.20000	0.18(a)
	57 n-Octane	43	16.808	16.808	(1.207)	17820	0.20000	0.21(a)
	58 Toluene	92	16.739	16.734	(0.861)	17855	0.20000	0.20
	59 1,3-Dichloropropene (trans)	75	17.230	17.230	(1.238)	12235	0.20000	0.19(aM)
	60 1,1,2-Trichloroethane	83	17.572	17.577	(0.903)	8167	0.20000	0.20
	61 Tetrachloroethene	166	17.764	17.764	(0.913)	16802	0.20000	0.20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	17.998	17.993	(0.925)	8993	0.20000	0.17(a)
	63 Dibromochloromethane	129	18.313	18.313	(0.942)	14230	0.20000	0.16(a)
	64 1,2-Dibromoethane	107	18.580	18.586	(0.955)	13995	0.20000	0.18(a)
*	65 Chlorobenzene-d5	117	19.450	19.450	(1.000)	1853926	10.0000	
	66 Chlorobenzene	112	19.503	19.509	(1.003)	25629	0.20000	0.20
	67 n-Nonane	57	19.792	19.792	(1.018)	16244	0.20000	0.20(M)
	68 Ethylbenzene	91	19.653	19.653	(1.010)	36906	0.20000	0.20
	69 Xylene (m,p)	106	19.893	19.893	(1.023)	29267	0.40000	0.38(a)
M	70 Xylenes, Total	106				42976	0.20000	0.56
	71 Xylene (o)	106	20.646	20.646	(1.061)	13709	0.20000	0.18(a)
	72 Styrene	104	20.672	20.678	(1.063)	15521	0.20000	0.15(a)
	73 Bromoform	173	21.035	21.041	(1.081)	12464	0.20000	0.15(a)
	74 Isopropylbenzene	105	21.249	21.254	(1.092)	39171	0.20000	0.18(a)
	75 1,1,2,2-Tetrachloroethane	83	21.798	21.798	(1.121)	18312	0.20000	0.19(a)
	76 n-Propylbenzene	91	21.916	21.916	(1.127)	40576	0.20000	0.17(a)
	77 1,2,3-Trichloropropane	75	21.900	21.900	(1.126)	15948	0.20000	0.20(a)
	78 n-Decane	57	22.097	22.097	(1.136)	16092	0.20000	0.17(a)
	79 4-Ethyltoluene	105	22.092	22.092	(1.136)	32929	0.20000	0.16(a)
	80 2-Chlorotoluene	91	22.103	22.103	(1.136)	35324	0.20000	0.20
	81 1,3,5-Trimethylbenzene	105	22.188	22.193	(1.141)	30668	0.20000	0.17(a)
	82 Alpha Methyl Styrene	118	22.535	22.535	(1.159)	10162	0.20000	0.12(a)
	83 tert-butylbenzene	119	22.658	22.658	(1.165)	31409	0.20000	0.17(a)
	84 1,2,4-Trimethylbenzene	105	22.743	22.748	(1.169)	27852	0.20000	0.16(a)
	85 sec-Butylbenzene	105	22.972	22.972	(1.181)	41489	0.20000	0.16(a)
	86 4-Isopropyltoluene	119	23.170	23.170	(1.191)	31629	0.20000	0.14(a)
	87 1,3-Dichlorobenzene	146	23.202	23.202	(1.193)	20720	0.20000	0.17(a)
	88 1,4-Dichlorobenzene	146	23.335	23.335	(1.200)	19940	0.20000	0.17(a)
	89 Benzyl chloride	91	23.527	23.522	(1.210)	18898	0.20000	0.14(a)
	90 Undecane	57	23.800	23.805	(1.224)	12771	0.20000	0.15(a)
	91 n-Butylbenzene	91	23.762	23.768	(1.222)	21909	0.20000	0.13(a)
	92 1,2-Dichlorobenzene	146	23.890	23.890	(1.228)	19010	0.20000	0.16(a)
	93 Dodecane	57	25.465	25.465	(1.309)	7408	0.20000	0.15(aM)
	94 1,2,4-Trichlorobenzene	180	26.511	26.516	(1.363)	8022	0.20000	0.16(a)
	95 1,3-Hexachlorobutadiene	225	26.740	26.735	(1.375)	10984	0.20000	0.17(a)
	96 Naphthalene	128	27.018	27.012	(1.389)	15507	0.20000	0.15(a)
	97 1,2,3-Trichlorobenzene	180	27.509	27.514	(1.414)	6673	0.20000	0.17(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File:	ckz004.d	Date:	14-AUG-2012 19:07
Client ID:	ic 376683	Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 376683		
Lab Sample ID:	ic 376683		



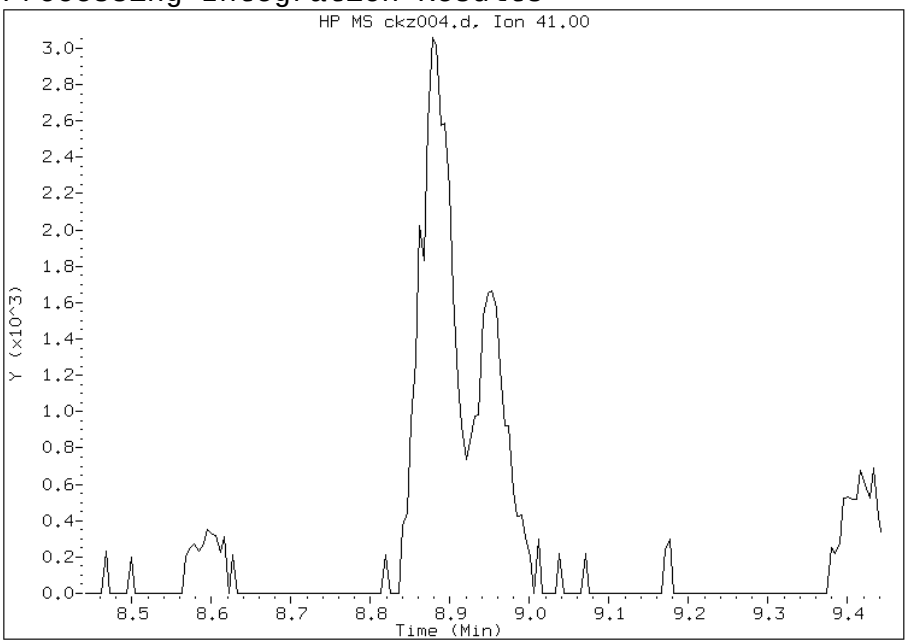
Manual Integration Report

Data File: ckz004.d
Lab Sample ID: ic 376683
Inj. Date and Time: 14-AUG-2012 19:07
Instrument ID: C.i
Client ID: ic 376683
Compound: 24 Acetonitrile
CAS #: 75-05-8
Report Date: 08/16/2012

Processing Integration Results

Not Detected

Expected RT: 8.94



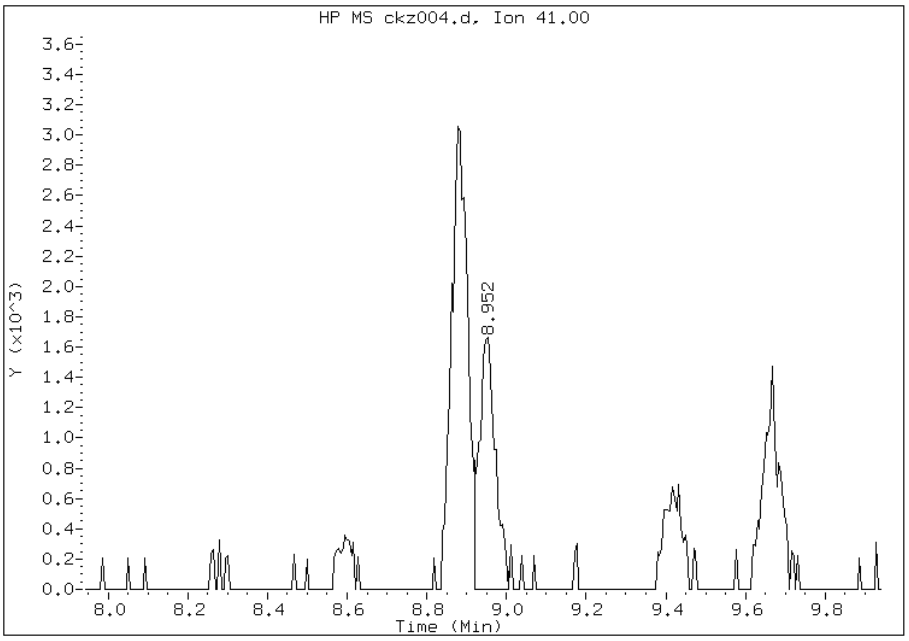
Manual Integration Results

RT: 8.95

Response: 4792

Amount: 0.290403

Conc: 0.290403



File Uploaded By: klp
Manual Integration Reason: Poor chromatography

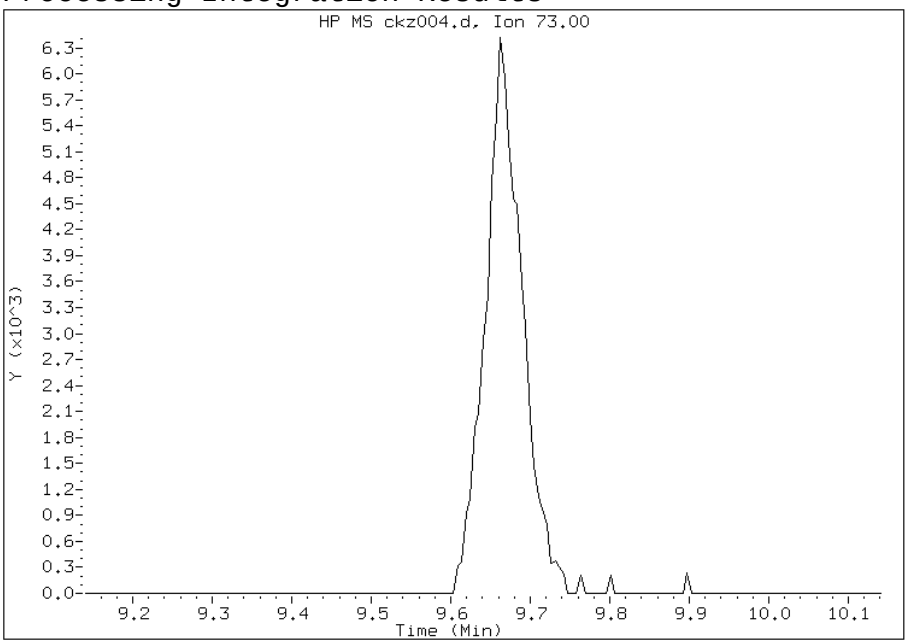
Manual Integration Report

Data File: ckz004.d
Lab Sample ID: ic 376683
Inj. Date and Time: 14-AUG-2012 19:07
Instrument ID: C.i
Client ID: ic 376683
Compound: 27 Methyl tert-butyl ether
CAS #: 1634-04-4
Report Date: 08/16/2012

Processing Integration Results

Not Detected

Expected RT: 9.64



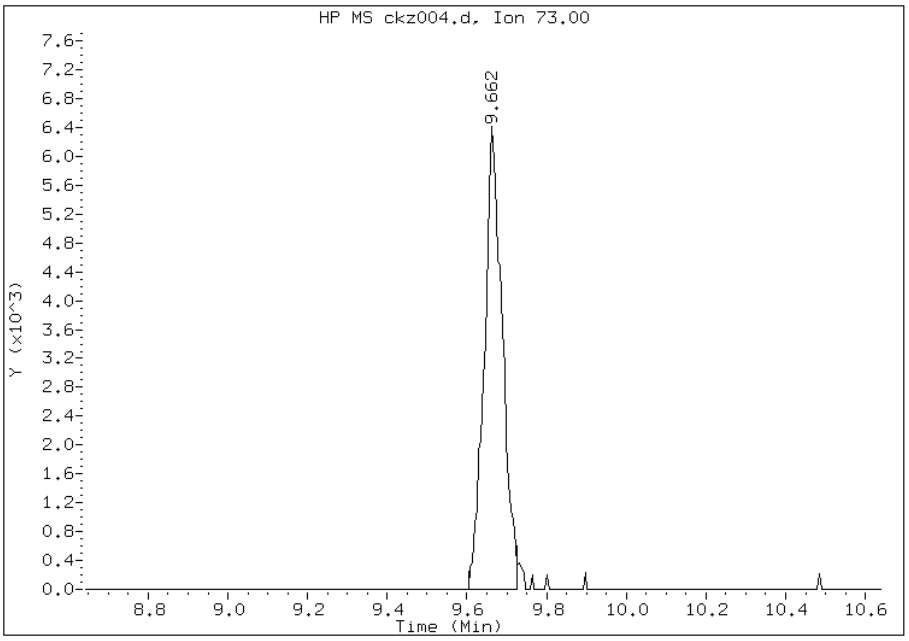
Manual Integration Results

RT: 9.66

Response: 20302

Amount: 0.210630

Conc: 0.210630



File Uploaded By: klp
Manual Integration Reason: Poor chromatography

Manual Integration Report

Data File: ckz004.d
Lab Sample ID: ic 376683
Inj. Date and Time: 14-AUG-2012 19:07
Instrument ID: C.i
Client ID: ic 376683
Compound: 48 n-Butanol
CAS #: 71-36-3
Report Date: 08/16/2012

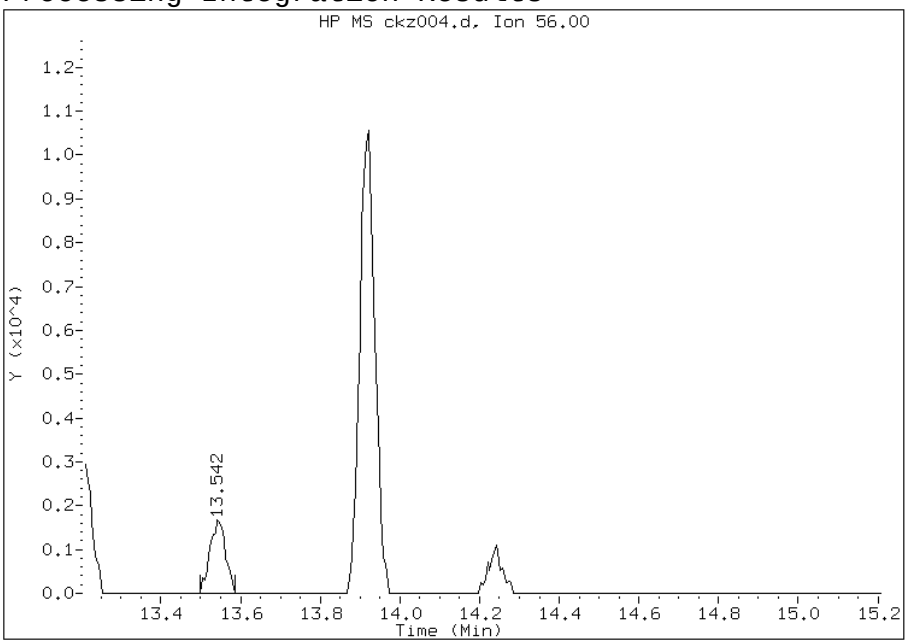
Processing Integration Results

RT: 13.54

Response: 4578

Amount: 0.371444

Conc: 0.371444



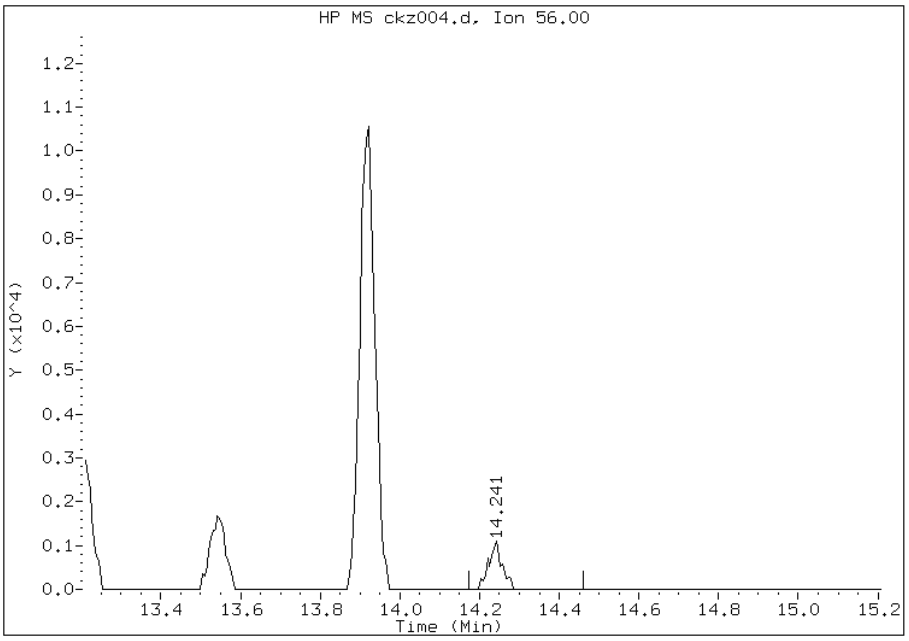
Manual Integration Results

RT: 14.24

Response: 2579

Amount: 0.219081

Conc: 0.219081



File Uploaded By: klp
Manual Integration Reason: Analyte misidentified by the data system

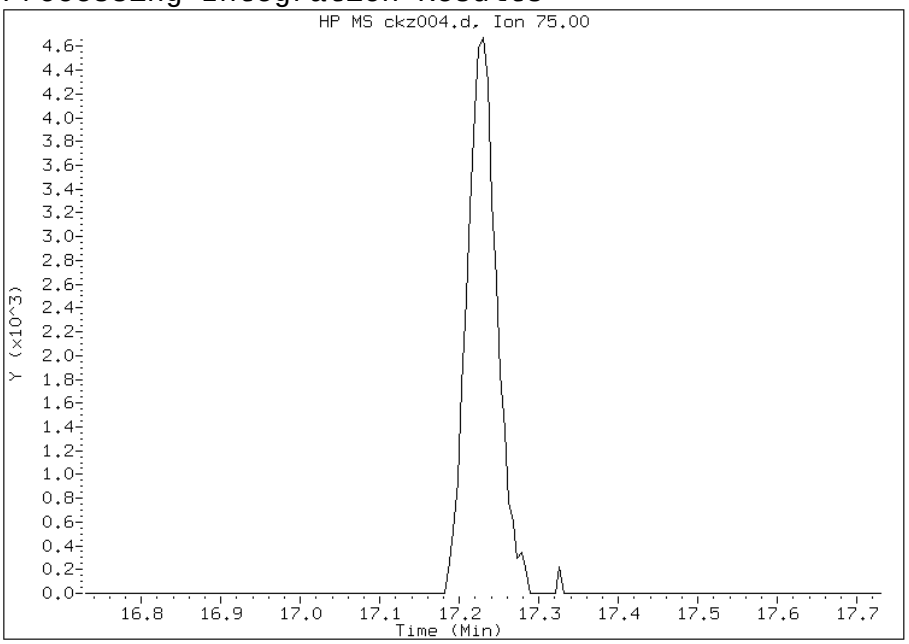
Manual Integration Report

Data File: ckz004.d
Lab Sample ID: ic 376683
Inj. Date and Time: 14-AUG-2012 19:07
Instrument ID: C.i
Client ID: ic 376683
Compound: 59 1,3-Dichloropropene (trans)
CAS #: 10061-02-6
Report Date: 08/16/2012

Processing Integration Results

Not Detected

Expected RT: 17.23



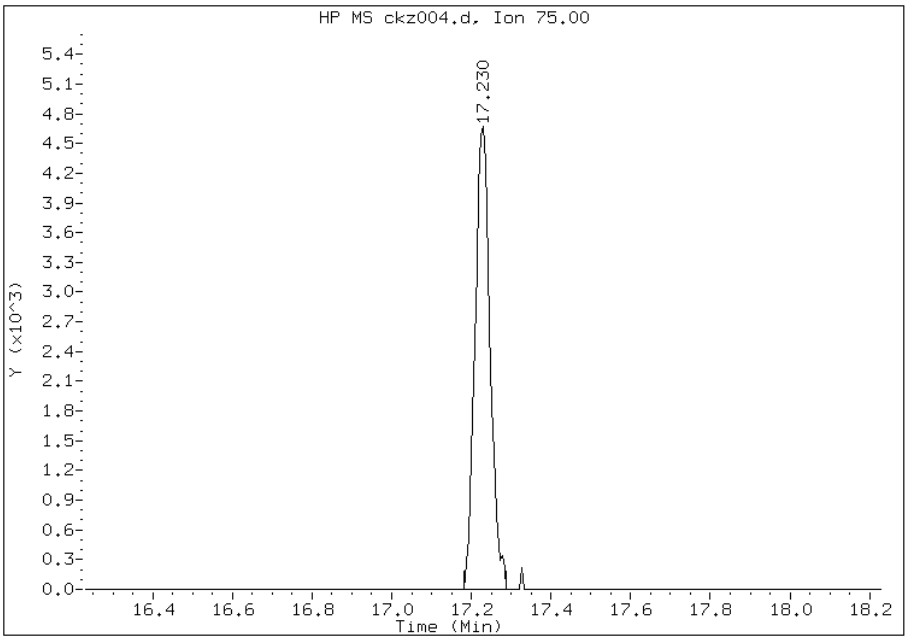
Manual Integration Results

RT: 17.23

Response: 12235

Amount: 0.187586

Conc: 0.187586



File Uploaded By: klp
Manual Integration Reason: Poor chromatography

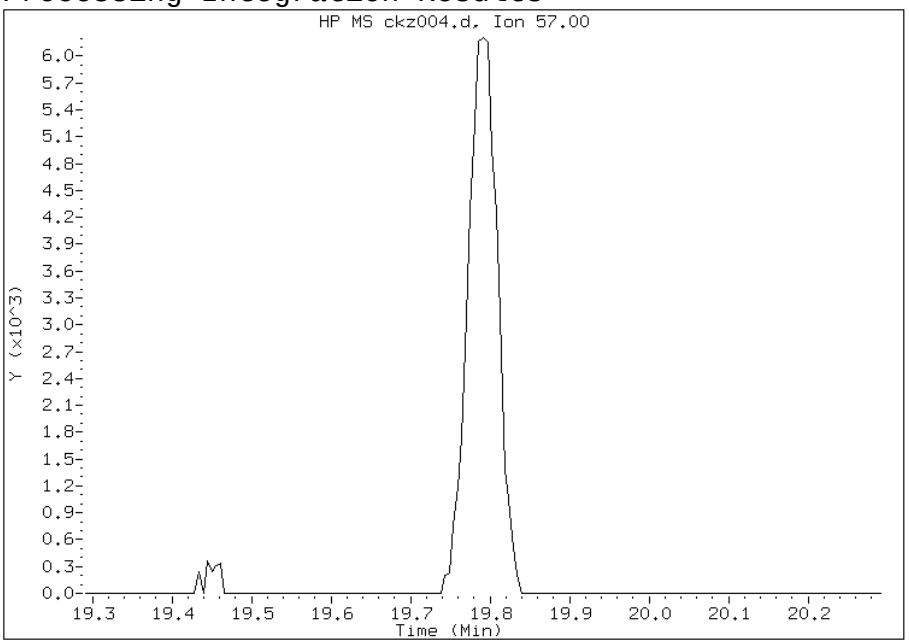
Manual Integration Report

Data File: ckz004.d
Lab Sample ID: ic 376683
Inj. Date and Time: 14-AUG-2012 19:07
Instrument ID: C.i
Client ID: ic 376683
Compound: 67 n-Nonane
CAS #: 111-84-2
Report Date: 08/16/2012

Processing Integration Results

Not Detected

Expected RT: 19.79



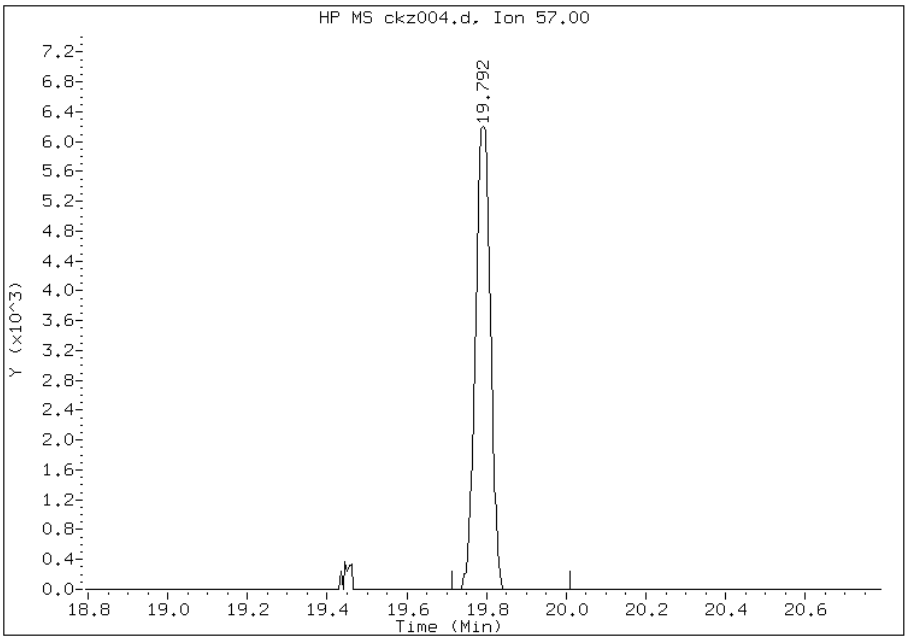
Manual Integration Results

RT: 19.79

Response: 16244

Amount: 0.199620

Conc: 0.199620



File Uploaded By: klp
Manual Integration Reason: Peak not found by the data system

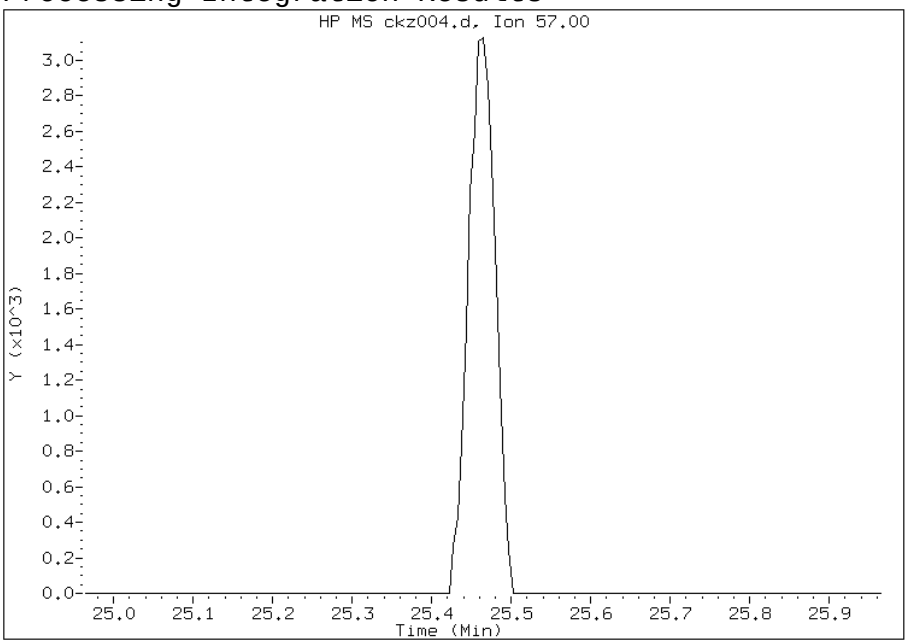
Manual Integration Report

Data File: ckz004.d
Lab Sample ID: ic 376683
Inj. Date and Time: 14-AUG-2012 19:07
Instrument ID: C.i
Client ID: ic 376683
Compound: 93 Dodecane
CAS #: 112-40-3
Report Date: 08/16/2012

Processing Integration Results

Not Detected

Expected RT: 25.46



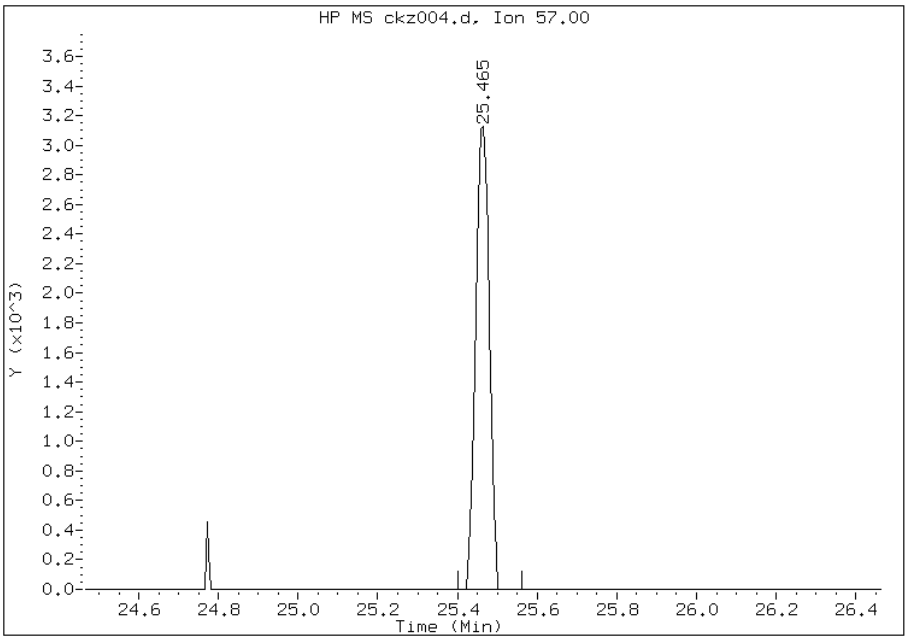
Manual Integration Results

RT: 25.46

Response: 7408

Amount: 0.151353

Conc: 0.151353



File Uploaded By: klp
Manual Integration Reason: Peak not found by the data system

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/ckzto15.b/ckz005.d
Lab Smp Id: ic 376702 Client Smp ID: ic 376702
Inj Date : 14-AUG-2012 20:00
Operator : wrd Inst ID: C.i
Smp Info : ic 376702
Misc Info : 200,1,level 2
Comment :
Method : /chem/C.i/Csvr.p/ckzto15.b/to15v5.m
Meth Date : 16-Aug-2012 08:33 klp Quant Type: ISTD
Cal Date : 14-AUG-2012 20:00 Cal File: ckz005.d
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
1 Propene	41	4.208	4.208	(0.348)	13040	0.50000	0.57(a)
2 Dichlorodifluoromethane	85	4.299	4.304	(0.355)	54156	0.50000	0.56
3 Chlorodifluoromethane	51	4.363	4.363	(0.361)	28864	0.50000	0.59
4 1,2-Dichloro-1,1,2,2-tetraflu	85	4.645	4.651	(0.384)	50270	0.50000	0.51
5 Chloromethane	50	4.806	4.811	(0.397)	15529	0.50000	0.58
6 Butane	43	5.078	5.078	(0.420)	26294	0.50000	0.55
7 Vinyl chloride	62	5.120	5.121	(0.423)	16827	0.50000	0.50
8 1,3-Butadiene	54	5.216	5.217	(0.431)	12729	0.50000	0.53
9 Bromomethane	94	6.006	6.012	(0.497)	16245	0.50000	0.50
10 Chloroethane	64	6.284	6.284	(0.520)	8516	0.50000	0.51
11 2-Methylbutane	43	6.401	6.396	(0.529)	19836	0.50000	0.55
12 Vinyl bromide	106	6.727	6.727	(0.556)	17011	0.50000	0.50
13 Trichlorofluoromethane	101	6.860	6.860	(0.567)	54619	0.50000	0.54
14 Pentane	43	7.026	7.026	(0.581)	29541	0.50000	0.53

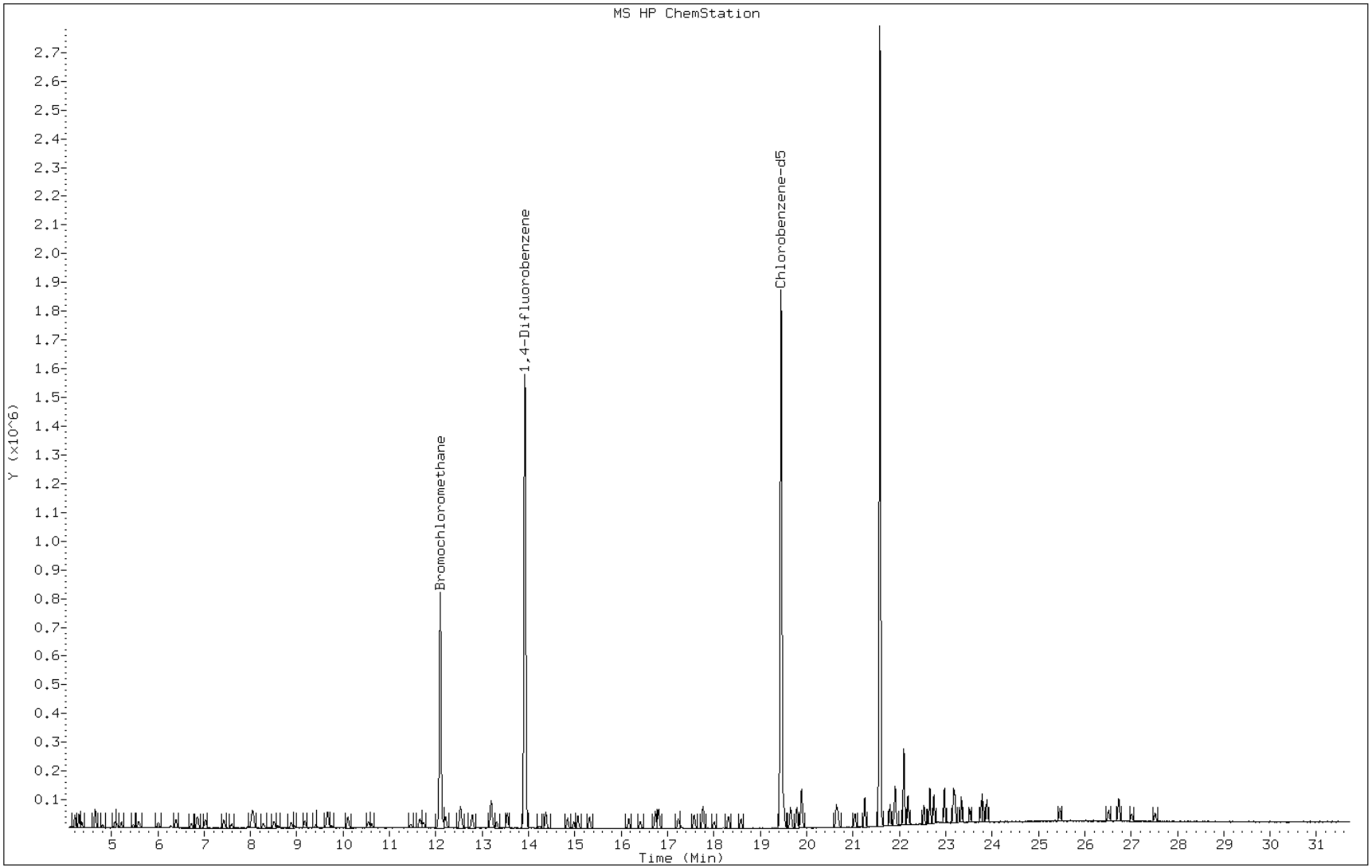
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	7.426	7.426	(0.614)	43784	5.00000	5.3
	16 Ethyl ether	59	7.597	7.581	(0.628)	10625	0.50000	0.50
	17 1,1,2-Trichloro-1,2,2-trifluo	101	8.034	8.034	(0.664)	38654	0.50000	0.54
	18 Acrolein	56	Compound Not Detected.					
	19 1,1-Dichloroethene	96	8.072	8.072	(0.667)	17040	0.50000	0.51
	20 Acetone	43	8.285	8.269	(0.685)	32006	0.50000	0.82(a)
	21 Carbon disulfide	76	8.509	8.509	(0.703)	47375	0.50000	0.50
	22 Isopropanol	45	8.595	8.573	(0.711)	14910	0.50000	0.55(a)
	23 Allyl chloride	41	8.883	8.883	(0.734)	20186	0.50000	0.51
	24 Acetonitrile	41	8.947	8.942	(0.740)	9123	0.50000	0.57(aQ)
	25 Methylene chloride	49	9.171	9.177	(0.758)	20407	0.50000	0.62
	26 Tert-butyl alcohol	59	9.422	9.390	(0.779)	21408	0.50000	0.52(a)
	27 Methyl tert-butyl ether	73	9.662	9.641	(0.799)	48116	0.50000	0.52
	28 1,2-Dichloroethene (trans)	61	9.667	9.668	(0.799)	25276	0.50000	0.51
	29 Acrylonitrile	53	9.742	9.748	(0.805)	8923	0.50000	0.47(a)
	30 n-Hexane	57	10.100	10.105	(0.835)	26975	0.50000	0.51
	31 1,1-Dichloroethane	63	10.548	10.548	(0.872)	32811	0.50000	0.52
	32 Vinyl acetate	43	10.612	10.607	(0.877)	31238	0.50000	0.47(a)
M	33 1,2-Dichloroethene,Total	61				45942	1.00000	1.0
	34 1,2-Dichloroethene (cis)	96	11.653	11.653	(0.963)	20666	0.50000	0.52
	35 Ethyl acetate	88	11.733	11.728	(0.970)	1236	0.50000	0.42(aQ)
	36 Methyl Ethyl Ketone	72	11.685	11.674	(0.966)	7573	0.50000	0.51
*	37 Bromochloromethane	128	12.096	12.096	(1.000)	352356	10.0000	
	38 Tetrahydrofuran	42	12.154	12.139	(0.873)	16777	0.50000	0.54(a)
	39 Chloroform	83	12.213	12.213	(1.010)	40941	0.50000	0.52
	40 Cyclohexane	84	12.549	12.544	(0.901)	26715	0.50000	0.48
	41 1,1,1-Trichloroethane	97	12.528	12.528	(0.900)	46194	0.50000	0.51
	42 Carbon tetrachloride	117	12.790	12.784	(0.919)	45880	0.50000	0.48
	43 2,2,4-Trimethylpentane	57	13.195	13.201	(0.948)	85877	0.50000	0.49
	44 Benzene	78	13.190	13.190	(0.947)	58442	0.50000	0.50
	45 1,2-Dichloroethane	62	13.313	13.318	(0.956)	27191	0.50000	0.52
	46 n-Heptane	43	13.542	13.542	(0.973)	31946	0.50000	0.51
*	47 1,4-Difluorobenzene	114	13.921	13.921	(1.000)	1980290	10.0000	
	48 n-Butanol	56	14.236	14.209	(1.023)	5469	0.50000	0.48(aM)
	49 Trichloroethene	95	14.375	14.375	(1.033)	26365	0.50000	0.48
	50 1,2-Dichloropropane	63	14.839	14.844	(1.066)	18732	0.50000	0.48
	51 Methyl methacrylate	69	14.978	14.972	(1.076)	13183	0.50000	0.40(a)
	52 Dibromomethane	174	15.068	15.069	(1.082)	22730	0.50000	0.45
	53 1,4-Dioxane	88	15.058	15.042	(1.082)	6590	0.50000	0.47(a)
	54 Bromodichloromethane	83	15.319	15.319	(1.100)	40315	0.50000	0.47
	55 1,3-Dichloropropene (cis)	75	16.162	16.163	(1.161)	30308	0.50000	0.47
	56 Methyl isobutyl ketone	43	16.419	16.408	(1.179)	25685	0.50000	0.46(a)
	57 n-Octane	43	16.803	16.808	(1.207)	42856	0.50000	0.51
	58 Toluene	92	16.734	16.734	(0.860)	41556	0.50000	0.47
	59 1,3-Dichloropropene (trans)	75	17.230	17.230	(1.238)	28452	0.50000	0.45
	60 1,1,2-Trichloroethane	83	17.582	17.577	(0.904)	19172	0.50000	0.48
	61 Tetrachloroethene	166	17.764	17.764	(0.913)	38008	0.50000	0.46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	17.998	17.993	(0.925)	22126	0.50000	0.43(a)
	63 Dibromochloromethane	129	18.319	18.313	(0.942)	35839	0.50000	0.41
	64 1,2-Dibromoethane	107	18.585	18.586	(0.956)	33697	0.50000	0.44
*	65 Chlorobenzene-d5	117	19.450	19.450	(1.000)	1830651	10.0000	
	66 Chlorobenzene	112	19.509	19.509	(1.003)	59828	0.50000	0.47
	67 n-Nonane	57	19.786	19.792	(1.017)	37379	0.50000	0.47
	68 Ethylbenzene	91	19.658	19.653	(1.011)	84758	0.50000	0.46
	69 Xylene (m,p)	106	19.893	19.893	(1.023)	68046	1.00000	0.88
M	70 Xylenes, Total	106				101660	0.50000	1.3
	71 Xylene (o)	106	20.645	20.646	(1.061)	33614	0.50000	0.45
	72 Styrene	104	20.683	20.678	(1.063)	37864	0.50000	0.36
	73 Bromoform	173	21.046	21.041	(1.082)	30836	0.50000	0.37
	74 Isopropylbenzene	105	21.254	21.254	(1.093)	94306	0.50000	0.44
	75 1,1,2,2-Tetrachloroethane	83	21.798	21.798	(1.121)	44322	0.50000	0.46
	76 n-Propylbenzene	91	21.916	21.916	(1.127)	102048	0.50000	0.43
	77 1,2,3-Trichloropropane	75	21.900	21.900	(1.126)	36558	0.50000	0.47(a)
	78 n-Decane	57	22.092	22.097	(1.136)	39442	0.50000	0.43(a)
	79 4-Ethyltoluene	105	22.092	22.092	(1.136)	85543	0.50000	0.41
	80 2-Chlorotoluene	91	22.102	22.103	(1.136)	80335	0.50000	0.45
	81 1,3,5-Trimethylbenzene	105	22.188	22.193	(1.141)	75673	0.50000	0.42
	82 Alpha Methyl Styrene	118	22.535	22.535	(1.159)	26719	0.50000	0.32
	83 tert-butylbenzene	119	22.657	22.658	(1.165)	79610	0.50000	0.44
	84 1,2,4-Trimethylbenzene	105	22.748	22.748	(1.170)	68858	0.50000	0.40
	85 sec-Butylbenzene	105	22.972	22.972	(1.181)	105849	0.50000	0.42
	86 4-Isopropyltoluene	119	23.170	23.170	(1.191)	83572	0.50000	0.39
	87 1,3-Dichlorobenzene	146	23.202	23.202	(1.193)	49495	0.50000	0.40
	88 1,4-Dichlorobenzene	146	23.335	23.335	(1.200)	47456	0.50000	0.40
	89 Benzyl chloride	91	23.527	23.522	(1.210)	43600	0.50000	0.34
	90 Undecane	57	23.805	23.805	(1.224)	30330	0.50000	0.36(a)
	91 n-Butylbenzene	91	23.762	23.768	(1.222)	55935	0.50000	0.35
	92 1,2-Dichlorobenzene	146	23.890	23.890	(1.228)	45888	0.50000	0.40
	93 Dodecane	57	25.459	25.465	(1.309)	20571	0.50000	0.43(a)
	94 1,2,4-Trichlorobenzene	180	26.516	26.516	(1.363)	20429	0.50000	0.40(a)
	95 1,3-Hexachlorobutadiene	225	26.730	26.735	(1.374)	26553	0.50000	0.41
	96 Naphthalene	128	27.012	27.012	(1.389)	37078	0.50000	0.37(a)
	97 1,2,3-Trichlorobenzene	180	27.525	27.514	(1.415)	16918	0.50000	0.43

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File:	ckz005.d	Date:	14-AUG-2012 20:00
Client ID:	ic 376702	Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 376702		
Lab Sample ID:	ic 376702		



Manual Integration Report

Data File: ckz005.d
Lab Sample ID: ic 376702
Inj. Date and Time: 14-AUG-2012 20:00
Instrument ID: C.i
Client ID: ic 376702
Compound: 48 n-Butanol
CAS #: 71-36-3
Report Date: 08/16/2012

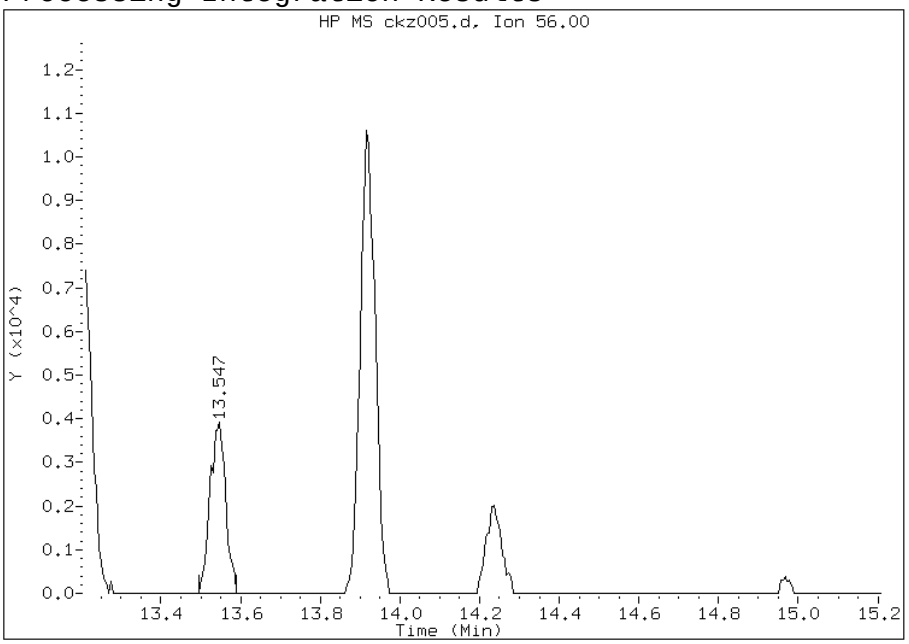
Processing Integration Results

RT: 13.55

Response: 10724

Amount: 0.893615

Conc: 0.893615



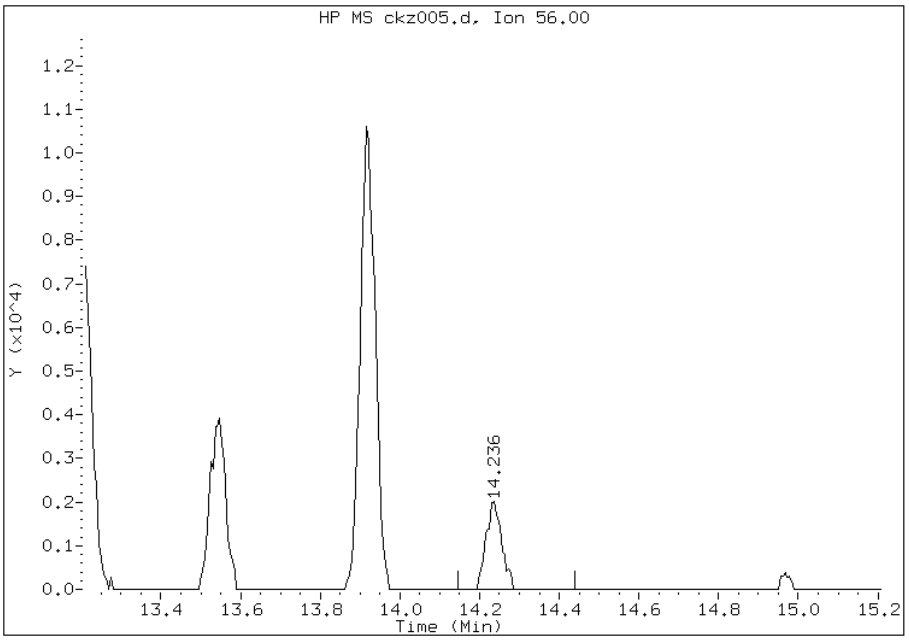
Manual Integration Results

RT: 14.24

Response: 5469

Amount: 0.477130

Conc: 0.477130



File Uploaded By: klp
Manual Integration Reason: Peak not found by the data system

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/ckzto15.b/ckz006.d
Lab Smp Id: ic 370619 Client Smp ID: ic 370619
Inj Date : 14-AUG-2012 20:53
Operator : wrd Inst ID: C.i
Smp Info : ic 370619
Misc Info : 200,1,level 3
Comment :
Method : /chem/C.i/Csvr.p/ckzto15.b/to15v5.m
Meth Date : 16-Aug-2012 08:33 klp Quant Type: ISTD
Cal Date : 14-AUG-2012 20:53 Cal File: ckz006.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
1 Propene	41	4.213	4.208	(0.348)	127364	5.00000	5.5
2 Dichlorodifluoromethane	85	4.304	4.304	(0.356)	524916	5.00000	5.4
3 Chlorodifluoromethane	51	4.363	4.363	(0.361)	267662	5.00000	5.4
4 1,2-Dichloro-1,1,2,2-tetraflu	85	4.651	4.651	(0.384)	517629	5.00000	5.2
5 Chloromethane	50	4.816	4.811	(0.398)	146550	5.00000	5.4
6 Butane	43	5.083	5.078	(0.420)	263379	5.00000	5.5
7 Vinyl chloride	62	5.126	5.121	(0.424)	175401	5.00000	5.2
8 1,3-Butadiene	54	5.222	5.217	(0.432)	128623	5.00000	5.3
9 Bromomethane	94	6.012	6.012	(0.497)	164502	5.00000	5.1
10 Chloroethane	64	6.284	6.284	(0.520)	89570	5.00000	5.3
11 2-Methylbutane	43	6.396	6.396	(0.529)	195472	5.00000	5.3
12 Vinyl bromide	106	6.727	6.727	(0.556)	172557	5.00000	5.0
13 Trichlorofluoromethane	101	6.860	6.860	(0.567)	547854	5.00000	5.3
14 Pentane	43	7.026	7.026	(0.581)	301630	5.00000	5.4

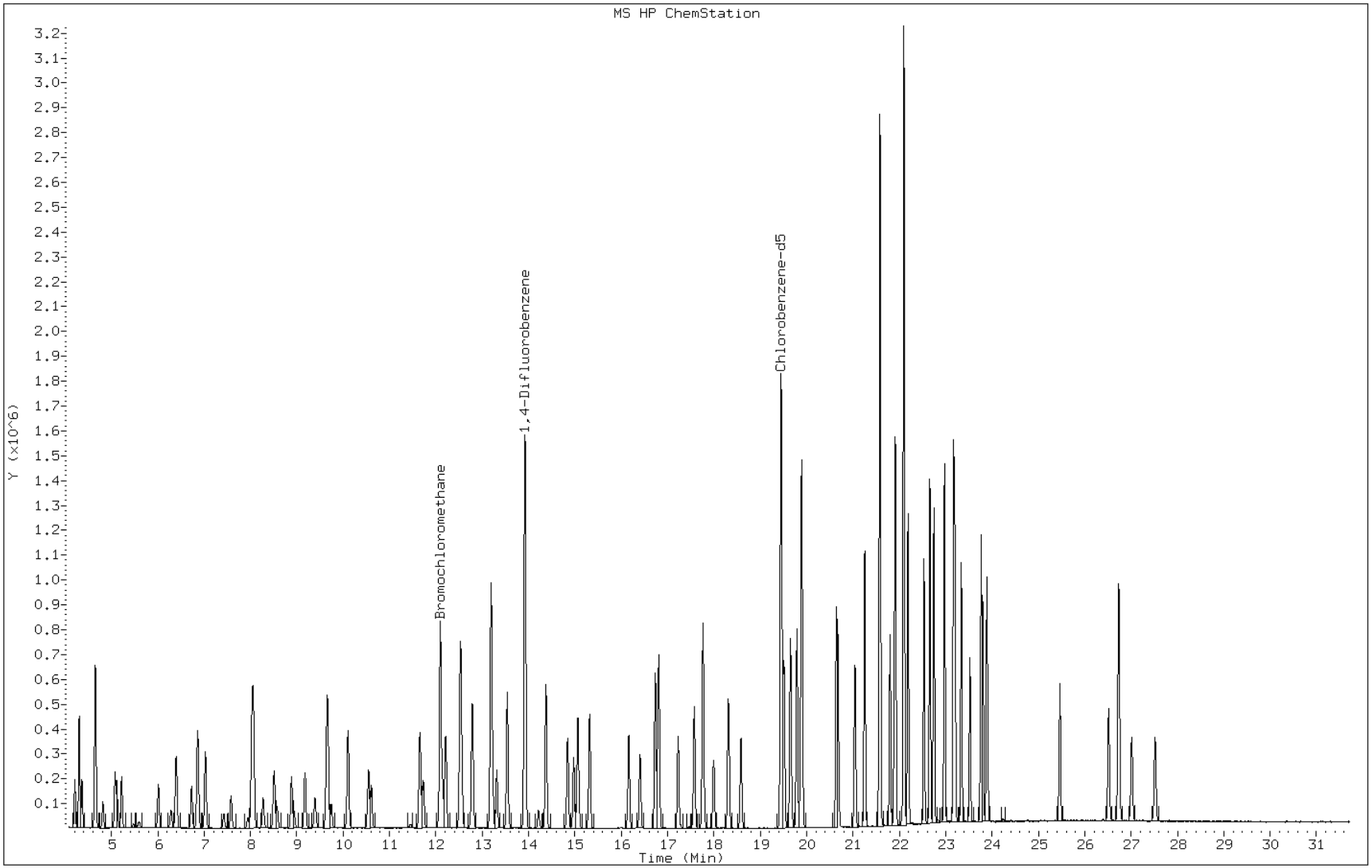
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	7.426	7.426	(0.614)	90045	10.0000	11
	16 Ethyl ether	59	7.581	7.581	(0.627)	111163	5.00000	5.2
	17 1,1,2-Trichloro-1,2,2-trifluo	101	8.040	8.034	(0.665)	365245	5.00000	5.1
	18 Acrolein	56	7.938	7.938	(0.656)	51122	5.00000	5.1
	19 1,1-Dichloroethene	96	8.072	8.072	(0.667)	169248	5.00000	5.0
	20 Acetone	43	8.275	8.269	(0.684)	220856	5.00000	5.6
	21 Carbon disulfide	76	8.509	8.509	(0.704)	489232	5.00000	5.2
	22 Isopropanol	45	8.579	8.573	(0.709)	156350	5.00000	5.7
	23 Allyl chloride	41	8.883	8.883	(0.734)	210440	5.00000	5.3
	24 Acetonitrile	41	8.942	8.942	(0.739)	86464	5.00000	5.4
	25 Methylene chloride	49	9.177	9.177	(0.759)	177376	5.00000	5.3
	26 Tert-butyl alcohol	59	9.390	9.390	(0.776)	234420	5.00000	5.6
	27 Methyl tert-butyl ether	73	9.646	9.641	(0.797)	483116	5.00000	5.1
	28 1,2-Dichloroethene (trans)	61	9.668	9.668	(0.799)	266907	5.00000	5.4
	29 Acrylonitrile	53	9.748	9.748	(0.806)	101040	5.00000	5.3
	30 n-Hexane	57	10.105	10.105	(0.835)	283502	5.00000	5.3
	31 1,1-Dichloroethane	63	10.548	10.548	(0.872)	337595	5.00000	5.3
	32 Vinyl acetate	43	10.612	10.607	(0.877)	350751	5.00000	5.2
M	33 1,2-Dichloroethene,Total	61				463659	10.0000	10
	34 1,2-Dichloroethene (cis)	96	11.653	11.653	(0.963)	196752	5.00000	5.0
	35 Ethyl acetate	88	11.733	11.728	(0.970)	14712	5.00000	5.0
	36 Methyl Ethyl Ketone	72	11.674	11.674	(0.965)	75894	5.00000	5.1
*	37 Bromochloromethane	128	12.096	12.096	(1.000)	355121	10.0000	
	38 Tetrahydrofuran	42	12.144	12.139	(0.872)	165101	5.00000	5.3
	39 Chloroform	83	12.213	12.213	(1.010)	417596	5.00000	5.3
	40 Cyclohexane	84	12.544	12.544	(0.901)	279394	5.00000	5.0
	41 1,1,1-Trichloroethane	97	12.528	12.528	(0.900)	473681	5.00000	5.2
	42 Carbon tetrachloride	117	12.784	12.784	(0.918)	498385	5.00000	5.2
	43 2,2,4-Trimethylpentane	57	13.201	13.201	(0.948)	907351	5.00000	5.2
	44 Benzene	78	13.190	13.190	(0.947)	586751	5.00000	5.0
	45 1,2-Dichloroethane	62	13.313	13.318	(0.956)	283185	5.00000	5.3
	46 n-Heptane	43	13.542	13.542	(0.973)	331000	5.00000	5.3
*	47 1,4-Difluorobenzene	114	13.921	13.921	(1.000)	1990694	10.0000	
	48 n-Butanol	56	14.215	14.209	(1.021)	60155	5.00000	5.2
	49 Trichloroethene	95	14.375	14.375	(1.033)	277869	5.00000	5.0
	50 1,2-Dichloropropane	63	14.844	14.844	(1.066)	202786	5.00000	5.2
	51 Methyl methacrylate	69	14.972	14.972	(1.076)	163651	5.00000	4.9
	52 Dibromomethane	174	15.068	15.069	(1.082)	251523	5.00000	5.0
	53 1,4-Dioxane	88	15.047	15.042	(1.081)	74196	5.00000	5.3
	54 Bromodichloromethane	83	15.314	15.319	(1.100)	461707	5.00000	5.3
	55 1,3-Dichloropropene (cis)	75	16.163	16.163	(1.161)	332086	5.00000	5.2
	56 Methyl isobutyl ketone	43	16.403	16.408	(1.178)	292876	5.00000	5.3
	57 n-Octane	43	16.808	16.808	(1.207)	454106	5.00000	5.4
	58 Toluene	92	16.734	16.734	(0.860)	439755	5.00000	5.2
	59 1,3-Dichloropropene (trans)	75	17.230	17.230	(1.238)	329846	5.00000	5.2
	60 1,1,2-Trichloroethane	83	17.577	17.577	(0.904)	199746	5.00000	5.2
	61 Tetrachloroethene	166	17.764	17.764	(0.913)	405766	5.00000	5.0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	17.993	17.993	(0.925)	265661	5.00000	5.3
	63 Dibromochloromethane	129	18.313	18.313	(0.942)	450291	5.00000	5.3
	64 1,2-Dibromoethane	107	18.586	18.586	(0.956)	392787	5.00000	5.3
*	65 Chlorobenzene-d5	117	19.450	19.450	(1.000)	1779197	10.0000	
	66 Chlorobenzene	112	19.503	19.509	(1.003)	630032	5.00000	5.1
	67 n-Nonane	57	19.792	19.792	(1.018)	414432	5.00000	5.3
	68 Ethylbenzene	91	19.653	19.653	(1.010)	907186	5.00000	5.1
	69 Xylene (m,p)	106	19.893	19.893	(1.023)	759733	10.0000	10
M	70 Xylenes, Total	106				1129585	5.00000	15
	71 Xylene (o)	106	20.646	20.646	(1.061)	369852	5.00000	5.1
	72 Styrene	104	20.678	20.678	(1.063)	524148	5.00000	5.1
	73 Bromoform	173	21.040	21.041	(1.082)	434651	5.00000	5.3
	74 Isopropylbenzene	105	21.254	21.254	(1.093)	1062326	5.00000	5.1
	75 1,1,2,2-Tetrachloroethane	83	21.798	21.798	(1.121)	488992	5.00000	5.2
	76 n-Propylbenzene	91	21.916	21.916	(1.127)	1215235	5.00000	5.2
	77 1,2,3-Trichloropropane	75	21.900	21.900	(1.126)	400659	5.00000	5.3
	78 n-Decane	57	22.092	22.097	(1.136)	493744	5.00000	5.6
	79 4-Ethyltoluene	105	22.092	22.092	(1.136)	1063720	5.00000	5.3
	80 2-Chlorotoluene	91	22.103	22.103	(1.136)	912240	5.00000	5.3
	81 1,3,5-Trimethylbenzene	105	22.188	22.193	(1.141)	909268	5.00000	5.2
	82 Alpha Methyl Styrene	118	22.535	22.535	(1.159)	432507	5.00000	5.3
	83 tert-butylbenzene	119	22.658	22.658	(1.165)	911084	5.00000	5.2
	84 1,2,4-Trimethylbenzene	105	22.748	22.748	(1.170)	894230	5.00000	5.3
	85 sec-Butylbenzene	105	22.972	22.972	(1.181)	1302558	5.00000	5.3
	86 4-Isopropyltoluene	119	23.170	23.170	(1.191)	1109988	5.00000	5.3
	87 1,3-Dichlorobenzene	146	23.202	23.202	(1.193)	610301	5.00000	5.1
	88 1,4-Dichlorobenzene	146	23.335	23.335	(1.200)	584758	5.00000	5.1
	89 Benzyl chloride	91	23.522	23.522	(1.209)	634101	5.00000	5.1
	90 Undecane	57	23.805	23.805	(1.224)	376487	5.00000	4.6(a)
	91 n-Butylbenzene	91	23.768	23.768	(1.222)	837955	5.00000	5.3
	92 1,2-Dichlorobenzene	146	23.890	23.890	(1.228)	573557	5.00000	5.2
	93 Dodecane	57	25.465	25.465	(1.309)	265689	5.00000	5.7
	94 1,2,4-Trichlorobenzene	180	26.516	26.516	(1.363)	258080	5.00000	5.2
	95 1,3-Hexachlorobutadiene	225	26.735	26.735	(1.375)	339968	5.00000	5.4
	96 Naphthalene	128	27.012	27.012	(1.389)	511479	5.00000	5.2
	97 1,2,3-Trichlorobenzene	180	27.519	27.514	(1.415)	208922	5.00000	5.5

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File:	ckz006.d	Date:	14-AUG-2012 20:53
Client ID:	ic 370619	Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 370619		
Lab Sample ID:	ic 370619		



TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/ckzto15.b/ckz008.d
Lab Smp Id: ic 370603 Client Smp ID: ic 370603
Inj Date : 14-AUG-2012 22:41
Operator : wrd Inst ID: C.i
Smp Info : ic 370603
Misc Info : 200,1,level 5
Comment :
Method : /chem/C.i/Csvr.p/ckzto15.b/to15v5.m
Meth Date : 16-Aug-2012 08:33 klp Quant Type: ISTD
Cal Date : 14-AUG-2012 22:41 Cal File: ckz008.d
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

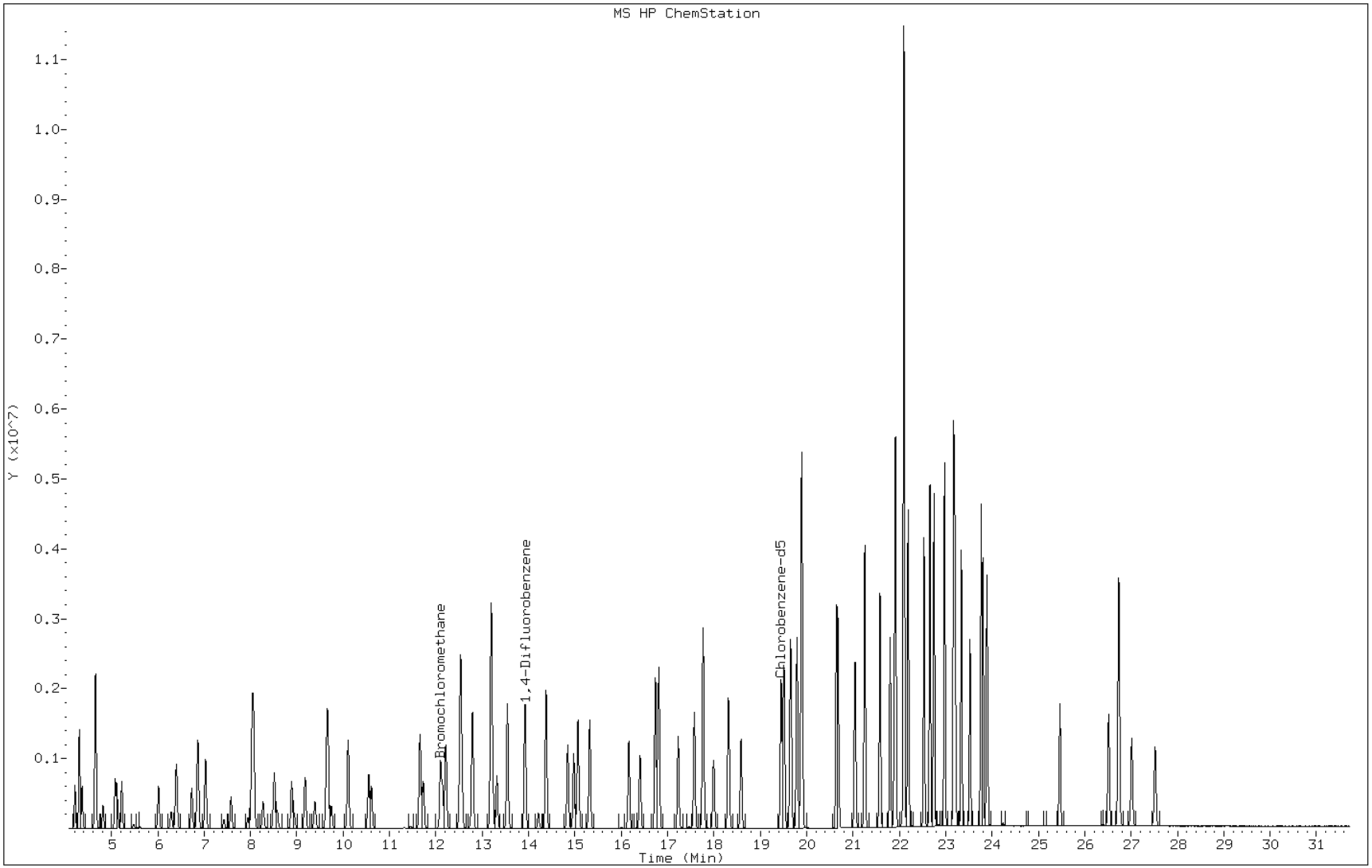
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
1 Propene	41	4.213	4.208	(0.348)	393566	15.0000	15
2 Dichlorodifluoromethane	85	4.309	4.304	(0.356)	1687394	15.0000	15
3 Chlorodifluoromethane	51	4.368	4.363	(0.361)	840224	15.0000	15
4 1,2-Dichloro-1,1,2,2-tetraflu	85	4.656	4.651	(0.385)	1747564	15.0000	15
5 Chloromethane	50	4.816	4.811	(0.398)	466665	15.0000	15
6 Butane	43	5.083	5.078	(0.420)	840295	15.0000	15
7 Vinyl chloride	62	5.126	5.121	(0.424)	586988	15.0000	15
8 1,3-Butadiene	54	5.222	5.217	(0.432)	428417	15.0000	15
9 Bromomethane	94	6.017	6.012	(0.497)	569942	15.0000	15
10 Chloroethane	64	6.289	6.284	(0.520)	302553	15.0000	15
11 2-Methylbutane	43	6.401	6.396	(0.529)	622540	15.0000	14
12 Vinyl bromide	106	6.732	6.727	(0.557)	611435	15.0000	15
13 Trichlorofluoromethane	101	6.860	6.860	(0.567)	1783517	15.0000	15
14 Pentane	43	7.031	7.026	(0.581)	986163	15.0000	15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	7.426	7.426	(0.614)	195794	20.0000	20
	16 Ethyl ether	59	7.581	7.581	(0.627)	386647	15.0000	15
	17 1,1,2-Trichloro-1,2,2-trifluo	101	8.040	8.034	(0.665)	1247555	15.0000	15
	18 Acrolein	56	7.944	7.938	(0.657)	185751	15.0000	16
	19 1,1-Dichloroethene	96	8.072	8.072	(0.667)	590970	15.0000	15
	20 Acetone	43	8.269	8.269	(0.684)	695313	15.0000	15
	21 Carbon disulfide	76	8.515	8.509	(0.704)	1679909	15.0000	15
	22 Isopropanol	45	8.579	8.573	(0.709)	491424	15.0000	15
	23 Allyl chloride	41	8.888	8.883	(0.735)	708216	15.0000	15
	24 Acetonitrile	41	8.947	8.942	(0.740)	308270	15.0000	16
	25 Methylene chloride	49	9.182	9.177	(0.759)	564476	15.0000	14
	26 Tert-butyl alcohol	59	9.390	9.390	(0.776)	736341	15.0000	15
	27 Methyl tert-butyl ether	73	9.646	9.641	(0.797)	1691850	15.0000	15
	28 1,2-Dichloroethene (trans)	61	9.668	9.668	(0.799)	878373	15.0000	15
	29 Acrylonitrile	53	9.742	9.748	(0.805)	352996	15.0000	16
	30 n-Hexane	57	10.105	10.105	(0.835)	943974	15.0000	15
	31 1,1-Dichloroethane	63	10.548	10.548	(0.872)	1108709	15.0000	15
	32 Vinyl acetate	43	10.612	10.607	(0.877)	1239854	15.0000	16
M	33 1,2-Dichloroethene,Total	61				1557949	30.0000	30
	34 1,2-Dichloroethene (cis)	96	11.653	11.653	(0.963)	679576	15.0000	15
	35 Ethyl acetate	88	11.733	11.728	(0.970)	53550	15.0000	16
	36 Methyl Ethyl Ketone	72	11.674	11.674	(0.965)	270226	15.0000	15
*	37 Bromochloromethane	128	12.096	12.096	(1.000)	416789	10.0000	
	38 Tetrahydrofuran	42	12.144	12.139	(0.872)	555906	15.0000	15
	39 Chloroform	83	12.213	12.213	(1.010)	1384145	15.0000	15
	40 Cyclohexane	84	12.544	12.544	(0.901)	969727	15.0000	15
	41 1,1,1-Trichloroethane	97	12.528	12.528	(0.900)	1556934	15.0000	15
	42 Carbon tetrachloride	117	12.790	12.784	(0.918)	1670958	15.0000	15
	43 2,2,4-Trimethylpentane	57	13.201	13.201	(0.948)	3023710	15.0000	15
	44 Benzene	78	13.195	13.190	(0.947)	2008021	15.0000	15
	45 1,2-Dichloroethane	62	13.318	13.318	(0.956)	905678	15.0000	15
	46 n-Heptane	43	13.547	13.542	(0.973)	1066712	15.0000	15
*	47 1,4-Difluorobenzene	114	13.926	13.921	(1.000)	2307077	10.0000	
	48 n-Butanol	56	14.215	14.209	(1.021)	189079	15.0000	14
	49 Trichloroethene	95	14.380	14.375	(1.033)	947186	15.0000	15
	50 1,2-Dichloropropane	63	14.844	14.844	(1.066)	680514	15.0000	15
	51 Methyl methacrylate	69	14.972	14.972	(1.075)	623788	15.0000	16
	52 Dibromomethane	174	15.069	15.069	(1.082)	905001	15.0000	15
	53 1,4-Dioxane	88	15.047	15.042	(1.080)	246521	15.0000	15
	54 Bromodichloromethane	83	15.319	15.319	(1.100)	1555426	15.0000	15
	55 1,3-Dichloropropene (cis)	75	16.163	16.163	(1.161)	1150398	15.0000	15
	56 Methyl isobutyl ketone	43	16.403	16.408	(1.178)	1032913	15.0000	16
	57 n-Octane	43	16.808	16.808	(1.207)	1463679	15.0000	15
	58 Toluene	92	16.739	16.734	(0.861)	1532941	15.0000	15
	59 1,3-Dichloropropene (trans)	75	17.230	17.230	(1.237)	1166001	15.0000	16
	60 1,1,2-Trichloroethane	83	17.577	17.577	(0.904)	691388	15.0000	15
	61 Tetrachloroethene	166	17.769	17.764	(0.914)	1450848	15.0000	15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	17.993	17.993	(0.925)	944792	15.0000	16
	63 Dibromochloromethane	129	18.313	18.313	(0.942)	1641809	15.0000	16
	64 1,2-Dibromoethane	107	18.586	18.586	(0.956)	1399518	15.0000	16
*	65 Chlorobenzene-d5	117	19.450	19.450	(1.000)	2113823	10.0000	
	66 Chlorobenzene	112	19.509	19.509	(1.003)	2246719	15.0000	15
	67 n-Nonane	57	19.792	19.792	(1.018)	1435289	15.0000	15
	68 Ethylbenzene	91	19.658	19.653	(1.011)	3302057	15.0000	15
	69 Xylene (m,p)	106	19.893	19.893	(1.023)	2823904	30.0000	32
M	70 Xylenes, Total	106				4192071	15.0000	48
	71 Xylene (o)	106	20.646	20.646	(1.061)	1368167	15.0000	16
	72 Styrene	104	20.678	20.678	(1.063)	2075226	15.0000	17
	73 Bromoform	173	21.046	21.041	(1.082)	1659606	15.0000	17
	74 Isopropylbenzene	105	21.254	21.254	(1.093)	3947303	15.0000	16
	75 1,1,2,2-Tetrachloroethane	83	21.798	21.798	(1.121)	1773677	15.0000	16
	76 n-Propylbenzene	91	21.916	21.916	(1.127)	4524580	15.0000	16
	77 1,2,3-Trichloropropane	75	21.900	21.900	(1.126)	1415521	15.0000	16
	78 n-Decane	57	22.097	22.097	(1.136)	1716815	15.0000	16
	79 4-Ethyltoluene	105	22.092	22.092	(1.136)	4036789	15.0000	17
	80 2-Chlorotoluene	91	22.103	22.103	(1.136)	3245736	15.0000	16
	81 1,3,5-Trimethylbenzene	105	22.193	22.193	(1.141)	3400461	15.0000	16
	82 Alpha Methyl Styrene	118	22.535	22.535	(1.159)	1719742	15.0000	18
	83 tert-butylbenzene	119	22.663	22.658	(1.165)	3380018	15.0000	16
	84 1,2,4-Trimethylbenzene	105	22.748	22.748	(1.170)	3368303	15.0000	17
	85 sec-Butylbenzene	105	22.978	22.972	(1.181)	4835073	15.0000	16
	86 4-Isopropyltoluene	119	23.175	23.170	(1.192)	4254247	15.0000	17
	87 1,3-Dichlorobenzene	146	23.202	23.202	(1.193)	2329856	15.0000	16
	88 1,4-Dichlorobenzene	146	23.341	23.335	(1.200)	2258369	15.0000	16
	89 Benzyl chloride	91	23.527	23.522	(1.210)	2604019	15.0000	18
	90 Undecane	57	23.805	23.805	(1.224)	1633244	15.0000	17
	91 n-Butylbenzene	91	23.768	23.768	(1.222)	3339168	15.0000	18
	92 1,2-Dichlorobenzene	146	23.890	23.890	(1.228)	2181647	15.0000	17
	93 Dodecane	57	25.465	25.465	(1.309)	857889	15.0000	15
	94 1,2,4-Trichlorobenzene	180	26.516	26.516	(1.363)	934260	15.0000	16
	95 1,3-Hexachlorobutadiene	225	26.735	26.735	(1.375)	1271862	15.0000	17
	96 Naphthalene	128	27.012	27.012	(1.389)	1889409	15.0000	16
	97 1,2,3-Trichlorobenzene	180	27.520	27.514	(1.415)	729064	15.0000	16

Data File:	ckz008.d	Date:	14-AUG-2012 22:41
Client ID:	ic 370603	Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 370603		
Lab Sample ID:	ic 370603		



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/ckzto15.b/ckz009.d
Lab Smp Id: ic 370601 Client Smp ID: ic 370601
Inj Date : 14-AUG-2012 23:34
Operator : wrd Inst ID: C.i
Smp Info : ic 370601
Misc Info : 200,1,level 6
Comment :
Method : /chem/C.i/Csvr.p/ckzto15.b/to15v5.m
Meth Date : 16-Aug-2012 08:33 klp Quant Type: ISTD
Cal Date : 14-AUG-2012 23:34 Cal File: ckz009.d
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
1 Propene	41	4.213	4.208	(0.348)	536817	20.0000	18
2 Dichlorodifluoromethane	85	4.304	4.304	(0.356)	2373061	20.0000	19
3 Chlorodifluoromethane	51	4.368	4.363	(0.361)	1148663	20.0000	18
4 1,2-Dichloro-1,1,2,2-tetraflu	85	4.656	4.651	(0.385)	2457381	20.0000	19
5 Chloromethane	50	4.816	4.811	(0.398)	642841	20.0000	18
6 Butane	43	5.083	5.078	(0.420)	1136393	20.0000	18
7 Vinyl chloride	62	5.126	5.121	(0.424)	817235	20.0000	19
8 1,3-Butadiene	54	5.222	5.217	(0.432)	594316	20.0000	19
9 Bromomethane	94	6.017	6.012	(0.497)	828656	20.0000	20
10 Chloroethane	64	6.289	6.284	(0.520)	423646	20.0000	19
11 2-Methylbutane	43	6.401	6.396	(0.529)	867881	20.0000	18
12 Vinyl bromide	106	6.732	6.727	(0.556)	887634	20.0000	20
13 Trichlorofluoromethane	101	6.866	6.860	(0.567)	2496706	20.0000	19
14 Pentane	43	7.031	7.026	(0.581)	1363630	20.0000	19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	7.431	7.426	(0.614)	423287	40.0000	40
	16 Ethyl ether	59	7.581	7.581	(0.626)	539131	20.0000	20
	17 1,1,2-Trichloro-1,2,2-trifluo	101	8.040	8.034	(0.664)	1785541	20.0000	19
	18 Acrolein	56	7.944	7.938	(0.656)	256344	20.0000	20
	19 1,1-Dichloroethene	96	8.077	8.072	(0.667)	845197	20.0000	19
	20 Acetone	43	8.269	8.269	(0.683)	929650	20.0000	18
	21 Carbon disulfide	76	8.515	8.509	(0.704)	2418141	20.0000	20
	22 Isopropanol	45	8.579	8.573	(0.709)	682994	20.0000	19
	23 Allyl chloride	41	8.888	8.883	(0.734)	979703	20.0000	19
	24 Acetonitrile	41	8.947	8.942	(0.739)	377267	20.0000	18
	25 Methylene chloride	49	9.182	9.177	(0.759)	785574	20.0000	18
	26 Tert-butyl alcohol	59	9.390	9.390	(0.776)	1011441	20.0000	19
	27 Methyl tert-butyl ether	73	9.646	9.641	(0.797)	2358384	20.0000	20
	28 1,2-Dichloroethene (trans)	61	9.667	9.668	(0.799)	1221256	20.0000	19
	29 Acrylonitrile	53	9.748	9.748	(0.806)	489994	20.0000	20
	30 n-Hexane	57	10.105	10.105	(0.835)	1328827	20.0000	19
	31 1,1-Dichloroethane	63	10.548	10.548	(0.872)	1557111	20.0000	19
	32 Vinyl acetate	43	10.612	10.607	(0.877)	1709438	20.0000	20
M	33 1,2-Dichloroethene,Total	61				2203606	40.0000	38
	34 1,2-Dichloroethene (cis)	96	11.653	11.653	(0.963)	982350	20.0000	19
	35 Ethyl acetate	88	11.728	11.728	(0.969)	76824	20.0000	20
	36 Methyl Ethyl Ketone	72	11.674	11.674	(0.965)	383108	20.0000	20
*	37 Bromochloromethane	128	12.101	12.096	(1.000)	456908	10.0000	
	38 Tetrahydrofuran	42	12.144	12.139	(0.872)	761622	20.0000	19
	39 Chloroform	83	12.213	12.213	(1.009)	1948138	20.0000	19
	40 Cyclohexane	84	12.549	12.544	(0.901)	1382842	20.0000	20
	41 1,1,1-Trichloroethane	97	12.528	12.528	(0.900)	2183499	20.0000	19
	42 Carbon tetrachloride	117	12.790	12.784	(0.918)	2345482	20.0000	19
	43 2,2,4-Trimethylpentane	57	13.201	13.201	(0.948)	4262374	20.0000	19
	44 Benzene	78	13.195	13.190	(0.947)	2874734	20.0000	19
	45 1,2-Dichloroethane	62	13.318	13.318	(0.956)	1254053	20.0000	19
	46 n-Heptane	43	13.547	13.542	(0.973)	1481103	20.0000	19
*	47 1,4-Difluorobenzene	114	13.926	13.921	(1.000)	2508517	10.0000	
	48 n-Butanol	56	14.215	14.209	(1.021)	272944	20.0000	19
	49 Trichloroethene	95	14.380	14.375	(1.033)	1365930	20.0000	20
	50 1,2-Dichloropropane	63	14.844	14.844	(1.066)	969733	20.0000	20
	51 Methyl methacrylate	69	14.972	14.972	(1.075)	894560	20.0000	21
	52 Dibromomethane	174	15.068	15.069	(1.082)	1316604	20.0000	21
	53 1,4-Dioxane	88	15.042	15.042	(1.080)	350811	20.0000	20
	54 Bromodichloromethane	83	15.319	15.319	(1.100)	2191881	20.0000	20
	55 1,3-Dichloropropene (cis)	75	16.163	16.163	(1.161)	1632459	20.0000	20
	56 Methyl isobutyl ketone	43	16.408	16.408	(1.178)	1403370	20.0000	20
	57 n-Octane	43	16.808	16.808	(1.207)	2020913	20.0000	19
	58 Toluene	92	16.739	16.734	(0.861)	2202530	20.0000	20
	59 1,3-Dichloropropene (trans)	75	17.230	17.230	(1.237)	1641621	20.0000	20
	60 1,1,2-Trichloroethane	83	17.577	17.577	(0.904)	983941	20.0000	20
	61 Tetrachloroethene	166	17.769	17.764	(0.914)	2104727	20.0000	20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	17.993	17.993	(0.925)	1296084	20.0000	20
	63 Dibromochloromethane	129	18.313	18.313	(0.942)	2365702	20.0000	22
	64 1,2-Dibromoethane	107	18.585	18.586	(0.956)	2002421	20.0000	21
*	65 Chlorobenzene-d5	117	19.450	19.450	(1.000)	2282236	10.0000	
	66 Chlorobenzene	112	19.509	19.509	(1.003)	3211968	20.0000	20
	67 n-Nonane	57	19.792	19.792	(1.018)	1978008	20.0000	20
	68 Ethylbenzene	91	19.658	19.653	(1.011)	4678329	20.0000	20
	69 Xylene (m,p)	106	19.893	19.893	(1.023)	3957139	40.0000	41
M	70 Xylenes, Total	106				5884002	20.0000	62
	71 Xylene (o)	106	20.645	20.646	(1.061)	1926863	20.0000	21
	72 Styrene	104	20.678	20.678	(1.063)	2968156	20.0000	23
	73 Bromoform	173	21.046	21.041	(1.082)	2366238	20.0000	22
	74 Isopropylbenzene	105	21.254	21.254	(1.093)	5562721	20.0000	21
	75 1,1,2,2-Tetrachloroethane	83	21.804	21.798	(1.121)	2472348	20.0000	20
	76 n-Propylbenzene	91	21.921	21.916	(1.127)	6298984	20.0000	21
	77 1,2,3-Trichloropropane	75	21.900	21.900	(1.126)	1940206	20.0000	20
	78 n-Decane	57	22.097	22.097	(1.136)	2246198	20.0000	20
	79 4-Ethyltoluene	105	22.092	22.092	(1.136)	5577490	20.0000	22
	80 2-Chlorotoluene	91	22.102	22.103	(1.136)	4462218	20.0000	20
	81 1,3,5-Trimethylbenzene	105	22.193	22.193	(1.141)	4736016	20.0000	21
	82 Alpha Methyl Styrene	118	22.535	22.535	(1.159)	2451434	20.0000	23
	83 tert-butylbenzene	119	22.663	22.658	(1.165)	4720355	20.0000	21
	84 1,2,4-Trimethylbenzene	105	22.748	22.748	(1.170)	4652357	20.0000	21
	85 sec-Butylbenzene	105	22.978	22.972	(1.181)	6735894	20.0000	21
	86 4-Isopropyltoluene	119	23.175	23.170	(1.192)	5915135	20.0000	22
	87 1,3-Dichlorobenzene	146	23.202	23.202	(1.193)	3255522	20.0000	21
	88 1,4-Dichlorobenzene	146	23.341	23.335	(1.200)	3174265	20.0000	21
	89 Benzyl chloride	91	23.527	23.522	(1.210)	3648254	20.0000	23
	90 Undecane	57	23.805	23.805	(1.224)	2023452	20.0000	19
	91 n-Butylbenzene	91	23.768	23.768	(1.222)	4559870	20.0000	23
	92 1,2-Dichlorobenzene	146	23.896	23.890	(1.229)	3027941	20.0000	21
	93 Dodecane	57	25.465	25.465	(1.309)	933475	20.0000	15
	94 1,2,4-Trichlorobenzene	180	26.516	26.516	(1.363)	1228920	20.0000	19
	95 1,3-Hexachlorobutadiene	225	26.740	26.735	(1.375)	1712222	20.0000	21
	96 Naphthalene	128	27.012	27.012	(1.389)	2318811	20.0000	18
	97 1,2,3-Trichlorobenzene	180	27.519	27.514	(1.415)	944178	20.0000	19

Data File:	ckz009.d	Date:	14-AUG-2012 23:34
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Operator:	wrd	Inj Vol:	200.0
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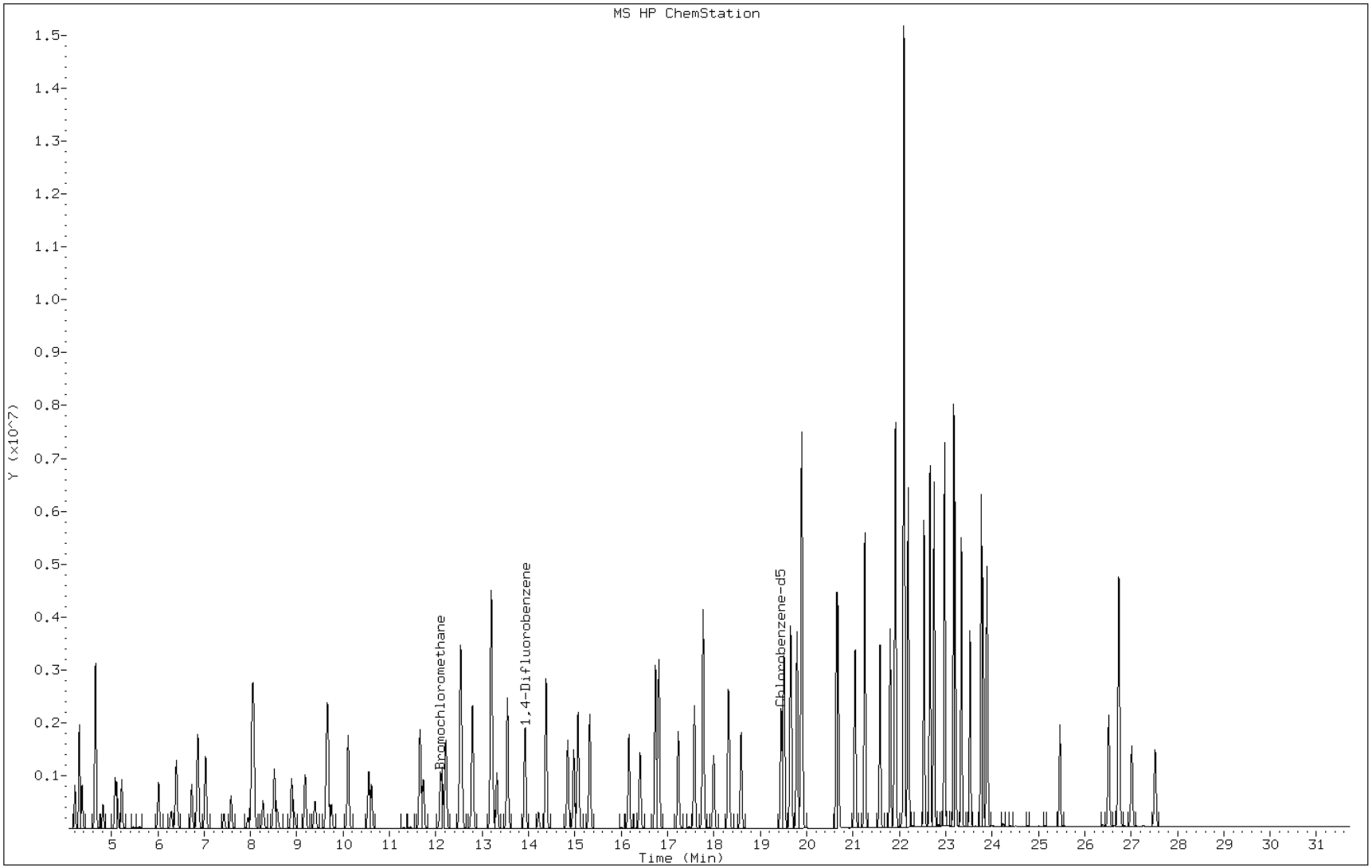
Stationary Phase:	RTX-624		
Sample Info:	ic 370601		
Lab Sample ID:	ic 370601		



TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/ckzto15.b/ckz010.d
Lab Smp Id: ic 370600 Client Smp ID: ic 370600
Inj Date : 15-AUG-2012 00:28
Operator : wrd Inst ID: C.i
Smp Info : ic 370600
Misc Info : 200,1,level 7
Comment :
Method : /chem/C.i/Csvr.p/ckzto15.b/to15v5.m
Meth Date : 16-Aug-2012 08:34 klp Quant Type: ISTD
Cal Date : 15-AUG-2012 00:28 Cal File: ckz010.d
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
1 Propene	41	4.208	4.208	(0.348)	1063874	40.0000	33
2 Dichlorodifluoromethane	85	4.304	4.304	(0.356)	4827325	40.0000	36
3 Chlorodifluoromethane	51	4.362	4.363	(0.360)	2318035	40.0000	34
4 1,2-Dichloro-1,1,2,2-tetraflu	85	4.651	4.651	(0.384)	5017164	40.0000	36
5 Chloromethane	50	4.811	4.811	(0.398)	1299651	40.0000	35
6 Butane	43	5.078	5.078	(0.420)	2269233	40.0000	34
7 Vinyl chloride	62	5.120	5.121	(0.423)	1662035	40.0000	36
8 1,3-Butadiene	54	5.222	5.217	(0.432)	1204410	40.0000	36
9 Bromomethane	94	6.012	6.012	(0.497)	1693799	40.0000	38
10 Chloroethane	64	6.284	6.284	(0.519)	868559	40.0000	37
11 2-Methylbutane	43	6.401	6.396	(0.529)	1741356	40.0000	34
12 Vinyl bromide	106	6.732	6.727	(0.556)	1848007	40.0000	39
13 Trichlorofluoromethane	101	6.860	6.860	(0.567)	5120772	40.0000	36
14 Pentane	43	7.031	7.026	(0.581)	2739630	40.0000	35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	7.431	7.426	(0.614)	996073	100.000	86
	16 Ethyl ether	59	7.575	7.581	(0.626)	1067046	40.0000	36
	17 1,1,2-Trichloro-1,2,2-trifluo	101	8.040	8.034	(0.664)	3705569	40.0000	37
	18 Acrolein	56	7.943	7.938	(0.656)	514321	40.0000	37
	19 1,1-Dichloroethene	96	8.072	8.072	(0.667)	1782667	40.0000	38
	20 Acetone	43	8.269	8.269	(0.683)	1808368	40.0000	33
	21 Carbon disulfide	76	8.509	8.509	(0.703)	5052073	40.0000	38
	22 Isopropanol	45	8.579	8.573	(0.709)	1296594	40.0000	34
	23 Allyl chloride	41	8.883	8.883	(0.734)	2000333	40.0000	36
	24 Acetonitrile	41	8.947	8.942	(0.739)	825669	40.0000	37
	25 Methylene chloride	49	9.176	9.177	(0.758)	1581183	40.0000	34
	26 Tert-butyl alcohol	59	9.390	9.390	(0.776)	2093862	40.0000	36
	27 Methyl tert-butyl ether	73	9.641	9.641	(0.797)	4738158	40.0000	36
	28 1,2-Dichloroethene (trans)	61	9.673	9.668	(0.799)	2496079	40.0000	36
	29 Acrylonitrile	53	9.747	9.748	(0.806)	1011403	40.0000	38
	30 n-Hexane	57	10.105	10.105	(0.835)	2722223	40.0000	37
	31 1,1-Dichloroethane	63	10.548	10.548	(0.872)	3198805	40.0000	36
	32 Vinyl acetate	43	10.612	10.607	(0.877)	3384215	40.0000	36
M	33 1,2-Dichloroethene,Total	61				4547164	80.0000	74
	34 1,2-Dichloroethene (cis)	96	11.653	11.653	(0.963)	2051085	40.0000	37
	35 Ethyl acetate	88	11.733	11.728	(0.970)	158228	40.0000	39
	36 Methyl Ethyl Ketone	72	11.674	11.674	(0.965)	758972	40.0000	37
*	37 Bromochloromethane	128	12.101	12.096	(1.000)	491751	10.0000	
	38 Tetrahydrofuran	42	12.144	12.139	(0.872)	1491236	40.0000	39
	39 Chloroform	83	12.213	12.213	(1.009)	4005308	40.0000	36
	40 Cyclohexane	84	12.549	12.544	(0.901)	2875788	40.0000	42(A)
	41 1,1,1-Trichloroethane	97	12.528	12.528	(0.900)	4498299	40.0000	40(A)
	42 Carbon tetrachloride	117	12.789	12.784	(0.918)	4919166	40.0000	42(A)
	43 2,2,4-Trimethylpentane	57	13.206	13.201	(0.948)	8653827	40.0000	40(A)
	44 Benzene	78	13.195	13.190	(0.947)	5861699	40.0000	41(A)
	45 1,2-Dichloroethane	62	13.318	13.318	(0.956)	2518111	40.0000	39
	46 n-Heptane	43	13.547	13.542	(0.973)	2965258	40.0000	39
*	47 1,4-Difluorobenzene	114	13.926	13.921	(1.000)	2439004	10.0000	
	48 n-Butanol	56	14.214	14.209	(1.021)	604323	40.0000	43(A)
	49 Trichloroethene	95	14.380	14.375	(1.033)	2858818	40.0000	42(A)
	50 1,2-Dichloropropane	63	14.849	14.844	(1.066)	1910510	40.0000	40
	51 Methyl methacrylate	69	14.978	14.972	(1.075)	1818413	40.0000	44(A)
	52 Dibromomethane	174	15.074	15.069	(1.082)	2799296	40.0000	45(A)
	53 1,4-Dioxane	88	15.047	15.042	(1.080)	650303	40.0000	38
	54 Bromodichloromethane	83	15.319	15.319	(1.100)	4405637	40.0000	41(A)
	55 1,3-Dichloropropene (cis)	75	16.162	16.163	(1.161)	3289522	40.0000	42(A)
	56 Methyl isobutyl ketone	43	16.408	16.408	(1.178)	2777113	40.0000	41(A)
	57 n-Octane	43	16.808	16.808	(1.207)	3915874	40.0000	38
	58 Toluene	92	16.739	16.734	(0.860)	4448120	40.0000	41(A)
	59 1,3-Dichloropropene (trans)	75	17.230	17.230	(1.237)	3332037	40.0000	43(A)
	60 1,1,2-Trichloroethane	83	17.582	17.577	(0.904)	1959711	40.0000	40(A)
	61 Tetrachloroethene	166	17.769	17.764	(0.913)	4431081	40.0000	44(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	17.993	17.993	(0.925)	2641748	40.0000	42(A)
	63 Dibromochloromethane	129	18.318	18.313	(0.942)	4844163	40.0000	45(A)
	64 1,2-Dibromoethane	107	18.591	18.586	(0.956)	4055501	40.0000	43(A)
*	65 Chlorobenzene-d5	117	19.455	19.450	(1.000)	2239520	10.0000	
	66 Chlorobenzene	112	19.514	19.509	(1.003)	6576503	40.0000	42(A)
	67 n-Nonane	57	19.797	19.792	(1.018)	3985736	40.0000	41(A)
	68 Ethylbenzene	91	19.658	19.653	(1.010)	9709309	40.0000	43(A)
	69 Xylene (m,p)	106	19.893	19.893	(1.022)	8239271	80.0000	88(A)
M	70 Xylenes, Total	106				12199098	40.0000	130
	71 Xylene (o)	106	20.645	20.646	(1.061)	3959827	40.0000	43(A)
	72 Styrene	104	20.683	20.678	(1.063)	6341806	40.0000	49(A)
	73 Bromoform	173	21.046	21.041	(1.082)	4995494	40.0000	48(A)
	74 Isopropylbenzene	105	21.259	21.254	(1.093)	11685494	40.0000	45(A)
	75 1,1,2,2-Tetrachloroethane	83	21.803	21.798	(1.121)	5061975	40.0000	43(A)
	76 n-Propylbenzene	91	21.921	21.916	(1.127)	13121769	40.0000	45(A)
	77 1,2,3-Trichloropropane	75	21.905	21.900	(1.126)	3884902	40.0000	41(A)
	78 n-Decane	57	22.097	22.097	(1.136)	4089282	40.0000	37
	79 4-Ethyltoluene	105	22.097	22.092	(1.136)	11374226	40.0000	45(A)
	80 2-Chlorotoluene	91	22.108	22.103	(1.136)	8882480	40.0000	41(A)
	81 1,3,5-Trimethylbenzene	105	22.193	22.193	(1.141)	10066067	40.0000	46(A)
	82 Alpha Methyl Styrene	118	22.535	22.535	(1.158)	5316033	40.0000	52(A)
	83 tert-butylbenzene	119	22.663	22.658	(1.165)	9938298	40.0000	45(A)
	84 1,2,4-Trimethylbenzene	105	22.748	22.748	(1.169)	9966136	40.0000	47(A)
	85 sec-Butylbenzene	105	22.978	22.972	(1.181)	14311357	40.0000	46(A)
	86 4-Isopropyltoluene	119	23.175	23.170	(1.191)	12663046	40.0000	48(A)
	87 1,3-Dichlorobenzene	146	23.207	23.202	(1.193)	7188170	40.0000	48(A)
	88 1,4-Dichlorobenzene	146	23.340	23.335	(1.200)	7057943	40.0000	49(A)
	89 Benzyl chloride	91	23.527	23.522	(1.209)	8071371	40.0000	51(A)
	90 Undecane	57	23.810	23.805	(1.224)	4678209	40.0000	45(A)
	91 n-Butylbenzene	91	23.767	23.768	(1.222)	9769839	40.0000	49(A)
	92 1,2-Dichlorobenzene	146	23.895	23.890	(1.228)	6658200	40.0000	48(A)
	93 Dodecane	57	25.465	25.465	(1.309)	2701195	40.0000	46(A)
	94 1,2,4-Trichlorobenzene	180	26.516	26.516	(1.363)	3207300	40.0000	51(A)
	95 1,3-Hexachlorobutadiene	225	26.740	26.735	(1.374)	3660873	40.0000	46(A)
	96 Naphthalene	128	27.018	27.012	(1.389)	6659792	40.0000	54(A)
	97 1,2,3-Trichlorobenzene	180	27.519	27.514	(1.414)	2427773	40.0000	51(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File:	ckz010.d	Date:	15-AUG-2012 00:28
Client ID:	ic 370600	Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
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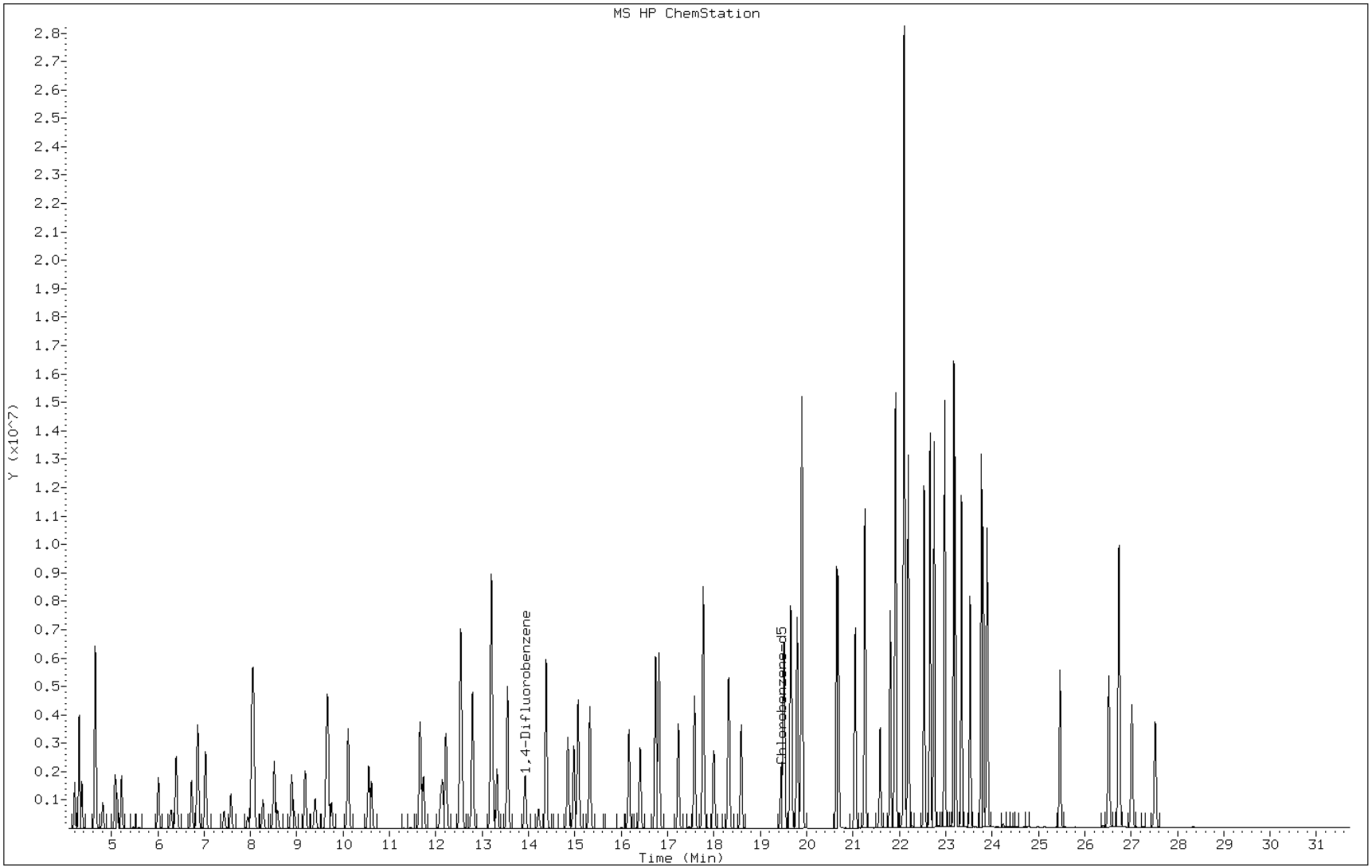
Stationary Phase:	RTX-624		
Sample Info:	ic 370600		
Lab Sample ID:	ic 370600		



TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/ckzto15.b/ckz015.d
Lab Smp Id: icis 370604 Client Smp ID: icis 370604
Inj Date : 15-AUG-2012 08:24
Operator : wrd Inst ID: C.i
Smp Info : icis 370604
Misc Info : 200,1,level 4
Comment :
Method : /chem/C.i/Csvr.p/ckzto15.b/to15v5.m
Meth Date : 16-Aug-2012 08:34 klp Quant Type: ISTD
Cal Date : 15-AUG-2012 08:24 Cal File: ckz015.d
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
1 Propene	41	4.208	4.208	(0.348)	283059	10.0000	10
2 Dichlorodifluoromethane	85	4.304	4.304	(0.356)	1129574	10.0000	9.8
3 Chlorodifluoromethane	51	4.363	4.363	(0.361)	577311	10.0000	10
4 1,2-Dichloro-1,1,2,2-tetraflu	85	4.651	4.651	(0.384)	1151940	10.0000	9.8
5 Chloromethane	50	4.811	4.811	(0.398)	325650	10.0000	10
6 Butane	43	5.078	5.078	(0.420)	590701	10.0000	10
7 Vinyl chloride	62	5.121	5.121	(0.423)	396687	10.0000	10
8 1,3-Butadiene	54	5.217	5.217	(0.431)	290672	10.0000	10
9 Bromomethane	94	6.012	6.012	(0.497)	379780	10.0000	9.9
10 Chloroethane	64	6.284	6.284	(0.520)	202738	10.0000	10
11 2-Methylbutane	43	6.396	6.396	(0.529)	426219	10.0000	9.9
12 Vinyl bromide	106	6.727	6.727	(0.556)	402574	10.0000	9.8
13 Trichlorofluoromethane	101	6.860	6.860	(0.567)	1161002	10.0000	9.6
14 Pentane	43	7.026	7.026	(0.581)	674005	10.0000	10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	7.426	7.426	(0.614)	147960	15.0000	15
	16 Ethyl ether	59	7.581	7.581	(0.627)	254247	10.0000	10
	17 1,1,2-Trichloro-1,2,2-trifluo	101	8.034	8.034	(0.664)	822029	10.0000	9.7
	18 Acrolein	56	7.938	7.938	(0.656)	120447	10.0000	10
	19 1,1-Dichloroethene	96	8.072	8.072	(0.667)	389344	10.0000	9.8
	20 Acetone	43	8.269	8.269	(0.684)	508549	10.0000	11
	21 Carbon disulfide	76	8.509	8.509	(0.704)	1119189	10.0000	10
	22 Isopropanol	45	8.573	8.573	(0.709)	333318	10.0000	10
	23 Allyl chloride	41	8.883	8.883	(0.734)	467926	10.0000	9.9
	24 Acetonitrile	41	8.942	8.942	(0.739)	189950	10.0000	10
	25 Methylene chloride	49	9.177	9.177	(0.759)	382450	10.0000	9.7
	26 Tert-butyl alcohol	59	9.390	9.390	(0.776)	509154	10.0000	10
	27 Methyl tert-butyl ether	73	9.641	9.641	(0.797)	1087102	10.0000	9.8
	28 1,2-Dichloroethene (trans)	61	9.668	9.668	(0.799)	578583	10.0000	9.9
	29 Acrylonitrile	53	9.748	9.748	(0.806)	230986	10.0000	10
	30 n-Hexane	57	10.105	10.105	(0.835)	636047	10.0000	10
	31 1,1-Dichloroethane	63	10.548	10.548	(0.872)	742485	10.0000	9.8
	32 Vinyl acetate	43	10.607	10.607	(0.877)	802692	10.0000	10
M	33 1,2-Dichloroethene,Total	61				1030021	20.0000	19
	34 1,2-Dichloroethene (cis)	96	11.653	11.653	(0.963)	451438	10.0000	9.6
	35 Ethyl acetate	88	11.728	11.728	(0.970)	33878	10.0000	9.8
	36 Methyl Ethyl Ketone	72	11.674	11.674	(0.965)	174301	10.0000	9.9
*	37 Bromochloromethane	128	12.096	12.096	(1.000)	419299	10.0000	
	38 Tetrahydrofuran	42	12.139	12.139	(0.872)	362068	10.0000	9.9
	39 Chloroform	83	12.213	12.213	(1.010)	919514	10.0000	9.8
	40 Cyclohexane	84	12.544	12.544	(0.901)	636062	10.0000	9.7
	41 1,1,1-Trichloroethane	97	12.528	12.528	(0.900)	1020074	10.0000	9.6
	42 Carbon tetrachloride	117	12.784	12.784	(0.918)	1078834	10.0000	9.6
	43 2,2,4-Trimethylpentane	57	13.201	13.201	(0.948)	2041604	10.0000	9.9
	44 Benzene	78	13.190	13.190	(0.947)	1329811	10.0000	9.6
	45 1,2-Dichloroethane	62	13.318	13.318	(0.957)	601581	10.0000	9.7
	46 n-Heptane	43	13.542	13.542	(0.973)	729294	10.0000	9.9
*	47 1,4-Difluorobenzene	114	13.921	13.921	(1.000)	2338098	10.0000	
	48 n-Butanol	56	14.209	14.209	(1.021)	135583	10.0000	10
	49 Trichloroethene	95	14.375	14.375	(1.033)	631256	10.0000	9.7
	50 1,2-Dichloropropane	63	14.844	14.844	(1.066)	448163	10.0000	9.7
	51 Methyl methacrylate	69	14.972	14.972	(1.076)	388995	10.0000	9.9
	52 Dibromomethane	174	15.069	15.069	(1.082)	578927	10.0000	9.7
	53 1,4-Dioxane	88	15.042	15.042	(1.081)	159944	10.0000	9.8
	54 Bromodichloromethane	83	15.319	15.319	(1.100)	1018972	10.0000	10
	55 1,3-Dichloropropene (cis)	75	16.163	16.163	(1.161)	748632	10.0000	9.9
	56 Methyl isobutyl ketone	43	16.408	16.408	(1.179)	610844	10.0000	9.3
	57 n-Octane	43	16.808	16.808	(1.207)	988252	10.0000	9.9
	58 Toluene	92	16.734	16.734	(0.860)	1009776	10.0000	9.7
	59 1,3-Dichloropropene (trans)	75	17.230	17.230	(1.238)	747465	10.0000	10
	60 1,1,2-Trichloroethane	83	17.577	17.577	(0.904)	451489	10.0000	9.6
	61 Tetrachloroethene	166	17.764	17.764	(0.913)	928617	10.0000	9.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	17.993	17.993	(0.925)	562900	10.0000	9.3
	63 Dibromochloromethane	129	18.313	18.313	(0.942)	1026857	10.0000	9.9
	64 1,2-Dibromoethane	107	18.586	18.586	(0.956)	890755	10.0000	9.8
*	65 Chlorobenzene-d5	117	19.450	19.450	(1.000)	2179074	10.0000	
	66 Chlorobenzene	112	19.509	19.509	(1.003)	1436363	10.0000	9.5
	67 n-Nonane	57	19.792	19.792	(1.018)	935342	10.0000	9.8
	68 Ethylbenzene	91	19.653	19.653	(1.010)	2107945	10.0000	9.6
	69 Xylene (m,p)	106	19.893	19.893	(1.023)	1781171	20.0000	19
M	70 Xylenes, Total	106				2649984	10.0000	29
	71 Xylene (o)	106	20.646	20.646	(1.061)	868813	10.0000	9.8
	72 Styrene	104	20.678	20.678	(1.063)	1290186	10.0000	10
	73 Bromoform	173	21.041	21.041	(1.082)	1017655	10.0000	10
	74 Isopropylbenzene	105	21.254	21.254	(1.093)	2485603	10.0000	9.7
	75 1,1,2,2-Tetrachloroethane	83	21.798	21.798	(1.121)	1113422	10.0000	9.7
	76 n-Propylbenzene	91	21.916	21.916	(1.127)	2840068	10.0000	10
	77 1,2,3-Trichloropropane	75	21.900	21.900	(1.126)	899864	10.0000	9.6
	78 n-Decane	57	22.097	22.097	(1.136)	1116216	10.0000	10
	79 4-Ethyltoluene	105	22.092	22.092	(1.136)	2495383	10.0000	10
	80 2-Chlorotoluene	91	22.103	22.103	(1.136)	2051831	10.0000	9.7
	81 1,3,5-Trimethylbenzene	105	22.193	22.193	(1.141)	2106707	10.0000	9.8
	82 Alpha Methyl Styrene	118	22.535	22.535	(1.159)	1053537	10.0000	11
	83 tert-butylbenzene	119	22.658	22.658	(1.165)	2098797	10.0000	9.8
	84 1,2,4-Trimethylbenzene	105	22.748	22.748	(1.170)	2069833	10.0000	10
	85 sec-Butylbenzene	105	22.972	22.972	(1.181)	3001987	10.0000	9.9
	86 4-Isopropyltoluene	119	23.170	23.170	(1.191)	2579274	10.0000	10
	87 1,3-Dichlorobenzene	146	23.202	23.202	(1.193)	1416167	10.0000	9.7
	88 1,4-Dichlorobenzene	146	23.335	23.335	(1.200)	1369962	10.0000	9.7
	89 Benzyl chloride	91	23.522	23.522	(1.209)	1527206	10.0000	10
	90 Undecane	57	23.805	23.805	(1.224)	881223	10.0000	8.8
	91 n-Butylbenzene	91	23.768	23.768	(1.222)	1988185	10.0000	10
	92 1,2-Dichlorobenzene	146	23.890	23.890	(1.228)	1317115	10.0000	9.7
	93 Dodecane	57	25.465	25.465	(1.309)	533363	10.0000	9.3
	94 1,2,4-Trichlorobenzene	180	26.516	26.516	(1.363)	508705	10.0000	8.4
	95 1,3-Hexachlorobutadiene	225	26.735	26.735	(1.375)	738987	10.0000	9.5
	96 Naphthalene	128	27.012	27.012	(1.389)	1063574	10.0000	8.8
	97 1,2,3-Trichlorobenzene	180	27.514	27.514	(1.415)	422731	10.0000	9.0

Data File:	ckz015.d	Date:	15-AUG-2012 08:24
Client ID:	icis 370604	Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
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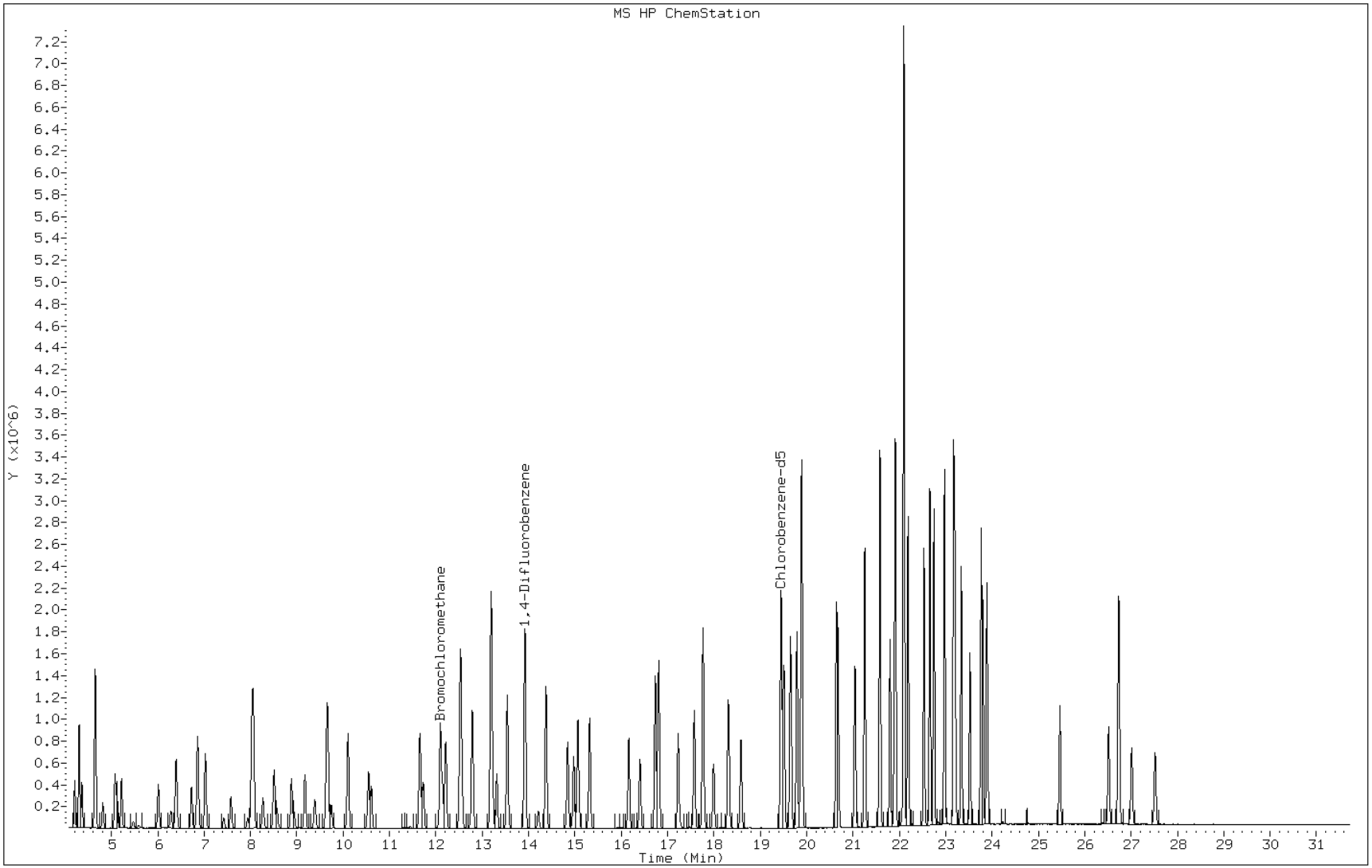
Stationary Phase:	RTX-624		
Sample Info:	icis 370604		
Lab Sample ID:	icis 370604		



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Lab Sample ID: ICV 200-43490/18 Calibration Date: 08/15/2012 11:09

Instrument ID: C.i Calib Start Date: 08/14/2012 18:13

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/15/2012 08:24

Lab File ID: ckz018.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.6484	0.6663		10.3	10.0	2.8	30.0
Dichlorodifluoromethane	Ave	2.746	2.788		10.2	10.0	1.5	30.0
Freon 22	Ave	1.384	1.408		10.2	10.0	1.7	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.798	2.787		9.96	10.0	-0.4	30.0
Chloromethane	Ave	0.7657	0.7830		10.2	10.0	2.3	30.0
n-Butane	Ave	1.354	1.389		10.3	10.0	2.6	30.0
Vinyl chloride	Ave	0.9506	0.9470		9.96	10.0	-0.4	30.0
1,3-Butadiene	Ave	0.6877	0.7223		10.5	10.0	5.0	30.0
Bromomethane	Ave	0.9137	0.8865		9.70	10.0	-3.0	30.0
Chloroethane	Ave	0.4767	0.4754		9.97	10.0	-0.3	30.0
Isopentane	Ave	1.031	1.028		9.96	10.0	-0.3	30.0
Bromoethene(Vinyl Bromide)	Ave	0.9751	0.9765		10.0	10.0	0.1	30.0
Trichlorofluoromethane	Ave	2.896	2.875		9.93	10.0	-0.7	30.0
n-Pentane	Ave	1.574	1.575		10.0	10.0	0.0	30.0
Ethanol	Ave	0.2344	0.2513		16.1	15.0	7.2	30.0
Ethyl ether	Ave	0.5994	0.6146		10.3	10.0	2.5	30.0
Acrolein	Ave	0.2829	0.2616		9.25	10.0	-7.5	30.0
Freon TF	Ave	2.025	2.150		10.6	10.0	6.2	30.0
1,1-Dichloroethene	Ave	0.9508	1.032		10.9	10.0	8.6	30.0
Acetone	Ave	1.101	1.208		11.0	10.0	9.7	30.0
Carbon disulfide	Ave	2.669	2.747		10.3	10.0	2.9	30.0
Isopropyl alcohol	Ave	0.7736	0.8070		10.4	10.0	4.3	30.0
3-Chloropropene	Ave	1.125	1.202		10.7	10.0	6.9	30.0
Acetonitrile	Ave	0.4531	0.5060		11.2	10.0	11.7	30.0
Methylene Chloride	Ave	0.9393	0.997		10.6	10.0	6.1	30.0
tert-Butyl alcohol	Ave	1.177	1.247		10.6	10.0	6.0	30.0
Methyl tert-butyl ether	Ave	2.647	2.814		10.6	10.0	6.3	30.0
trans-1,2-Dichloroethene	Ave	1.399	1.427		10.2	10.0	2.0	30.0
Acrylonitrile	Ave	0.5402	0.6030		11.2	10.0	11.6	30.0
n-Hexane	Ave	1.513	1.551		10.2	10.0	2.5	30.0
1,1-Dichloroethane	Ave	1.799	1.826		10.1	10.0	1.5	30.0
Vinyl acetate	Ave	1.893	2.057		10.9	10.0	8.7	30.0
cis-1,2-Dichloroethene	Ave	1.119	1.121		10.0	10.0	0.2	30.0
Methyl Ethyl Ketone	Ave	0.4184	0.4474		10.7	10.0	6.9	30.0
Ethyl acetate	Ave	0.0828	0.0876		10.6	10.0	5.9	30.0
Tetrahydrofuran	Ave	0.1572	0.1703		10.8	10.0	8.3	30.0
Chloroform	Ave	2.234	2.250		10.1	10.0	0.7	30.0
1,1,1-Trichloroethane	Ave	0.4565	0.4551		9.97	10.0	-0.3	30.0
Cyclohexane	Ave	0.2805	0.2822		10.1	10.0	0.6	30.0
Carbon tetrachloride	Ave	0.4819	0.4760		9.88	10.0	-1.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Lab Sample ID: ICV 200-43490/18 Calibration Date: 08/15/2012 11:09

Instrument ID: C.i Calib Start Date: 08/14/2012 18:13

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/15/2012 08:24

Lab File ID: ckz018.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzene	Ave	0.5923	0.5887		9.94	10.0	-0.6	30.0
2,2,4-Trimethylpentane	Ave	0.8821	0.8996		10.2	10.0	2.0	30.0
1,2-Dichloroethane	Ave	0.2664	0.2710		10.2	10.0	1.7	30.0
n-Heptane	Ave	0.3152	0.3254		10.3	10.0	3.2	30.0
n-Butanol	Ave	0.0579	0.0581		10.0	10.0	0.4	30.0
Trichloroethene	Ave	0.2787	0.2714		9.73	10.0	-2.6	30.0
1,2-Dichloropropane	Ave	0.1969	0.1920		9.75	10.0	-2.5	30.0
Methyl methacrylate	Ave	0.1681	0.1777		10.6	10.0	5.7	30.0
1,4-Dioxane	Ave	0.0702	0.0639		9.11	10.0	-8.9	30.0
Dibromomethane	Ave	0.2550	0.2525		9.90	10.0	-1.0	30.0
Bromodichloromethane	Ave	0.4359	0.4614		10.6	10.0	5.9	30.0
cis-1,3-Dichloropropene	Ave	0.3236	0.3222		9.96	10.0	-0.4	30.0
methyl isobutyl ketone	Ave	0.2796	0.3062		10.9	10.0	9.5	30.0
Toluene	Ave	0.4794	0.4739		9.88	10.0	-1.1	30.0
n-Octane	Ave	0.4253	0.4341		10.2	10.0	2.1	30.0
trans-1,3-Dichloropropene	Ave	0.3207	0.3284		10.2	10.0	2.4	30.0
1,1,2-Trichloroethane	Ave	0.2163	0.2048		9.47	10.0	-5.3	30.0
Tetrachloroethene	Ave	0.4520	0.4338		9.60	10.0	-4.0	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2793	0.3020		10.8	10.0	8.1	30.0
Dibromochloromethane	Ave	0.4757	0.5164		10.9	10.0	8.6	30.0
1,2-Dibromoethane	Ave	0.4184	0.4150		9.92	10.0	-0.8	30.0
Chlorobenzene	Ave	0.6941	0.6711		9.67	10.0	-3.3	30.0
Ethylbenzene	Ave	1.008	1.035		10.3	10.0	2.7	30.0
n-Nonane	Ave	0.4389	0.4666		10.6	10.0	6.3	30.0
m,p-Xylene	Ave	0.4201	0.4322		20.6	20.0	2.9	30.0
Xylene, o-	Ave	0.4067	0.4199		10.3	10.0	3.2	30.0
Styrene	Ave	0.5752	0.6271		10.9	10.0	9.0	30.0
Bromoform	Ave	0.4612	0.5131		11.1	10.0	11.3	30.0
Cumene	Ave	1.170	1.245		10.6	10.0	6.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5293	0.5402		10.2	10.0	2.1	30.0
1,2,3-Trichloropropane	Ave	0.4280	0.4535		10.6	10.0	6.0	30.0
n-Propylbenzene	Ave	1.307	1.431		10.9	10.0	9.4	30.0
4-Ethyltoluene	Ave	1.133	1.288		11.4	10.0	13.8	30.0
n-Decane	Ave	0.4980	0.5713		11.5	10.0	14.7	30.0
2-Chlorotoluene	Ave	0.9700	1.058		10.9	10.0	9.0	30.0
1,3,5-Trimethylbenzene	Ave	0.9824	1.049		10.7	10.0	6.8	30.0
Alpha Methyl Styrene	Ave	0.4584	0.5383		11.7	10.0	17.4	30.0
tert-Butylbenzene	Ave	0.9877	1.083		11.0	10.0	9.6	30.0
1,2,4-Trimethylbenzene	Ave	0.9504	1.025		10.8	10.0	7.9	30.0
sec-Butylbenzene	Ave	1.388	1.543		11.1	10.0	11.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Lab Sample ID: ICV 200-43490/18 Calibration Date: 08/15/2012 11:09

Instrument ID: C.i Calib Start Date: 08/14/2012 18:13

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/15/2012 08:24

Lab File ID: ckz018.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.178	1.346		11.4	10.0	14.3	30.0
1,3-Dichlorobenzene	Ave	0.6694	0.6994		10.4	10.0	4.5	30.0
1,4-Dichlorobenzene	Ave	0.6483	0.6868		10.6	10.0	5.9	30.0
Benzyl chloride	Ave	0.7030	0.8020		11.4	10.0	14.1	30.0
n-Butylbenzene	Ave	0.8856	1.055		11.9	10.0	19.1	30.0
n-Undecane	Ave	0.4617	0.5107		11.1	10.0	10.6	30.0
1,2-Dichlorobenzene	Ave	0.6226	0.6471		10.4	10.0	3.9	30.0
n-Dodecane	Ave	0.2640	0.2963		11.2	10.0	12.2	30.0
1,2,4-Trichlorobenzene	Ave	0.2781	0.2872		10.3	10.0	3.3	30.0
Hexachlorobutadiene	Ave	0.3561	0.4031		11.3	10.0	13.2	30.0
Naphthalene	Ave	0.5526	0.6238		11.3	10.0	12.9	30.0
1,2,3-Trichlorobenzene	Ave	0.2145	0.2570		12.0	10.0	19.8	30.0

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/ckzto15.b/ckz018.d
Lab Smp Id: ICV 370622
Inj Date : 15-AUG-2012 11:09
Operator : wrd Inst ID: C.i
Smp Info : ICV 370622
Misc Info : 200,1, ICV
Comment :
Method : /chem/C.i/Csvr.p/ckzto15.b/to15v5.m
Meth Date : 16-Aug-2012 08:34 klp Quant Type: ISTD
Cal Date : 15-AUG-2012 08:24 Cal File: ckz015.d
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

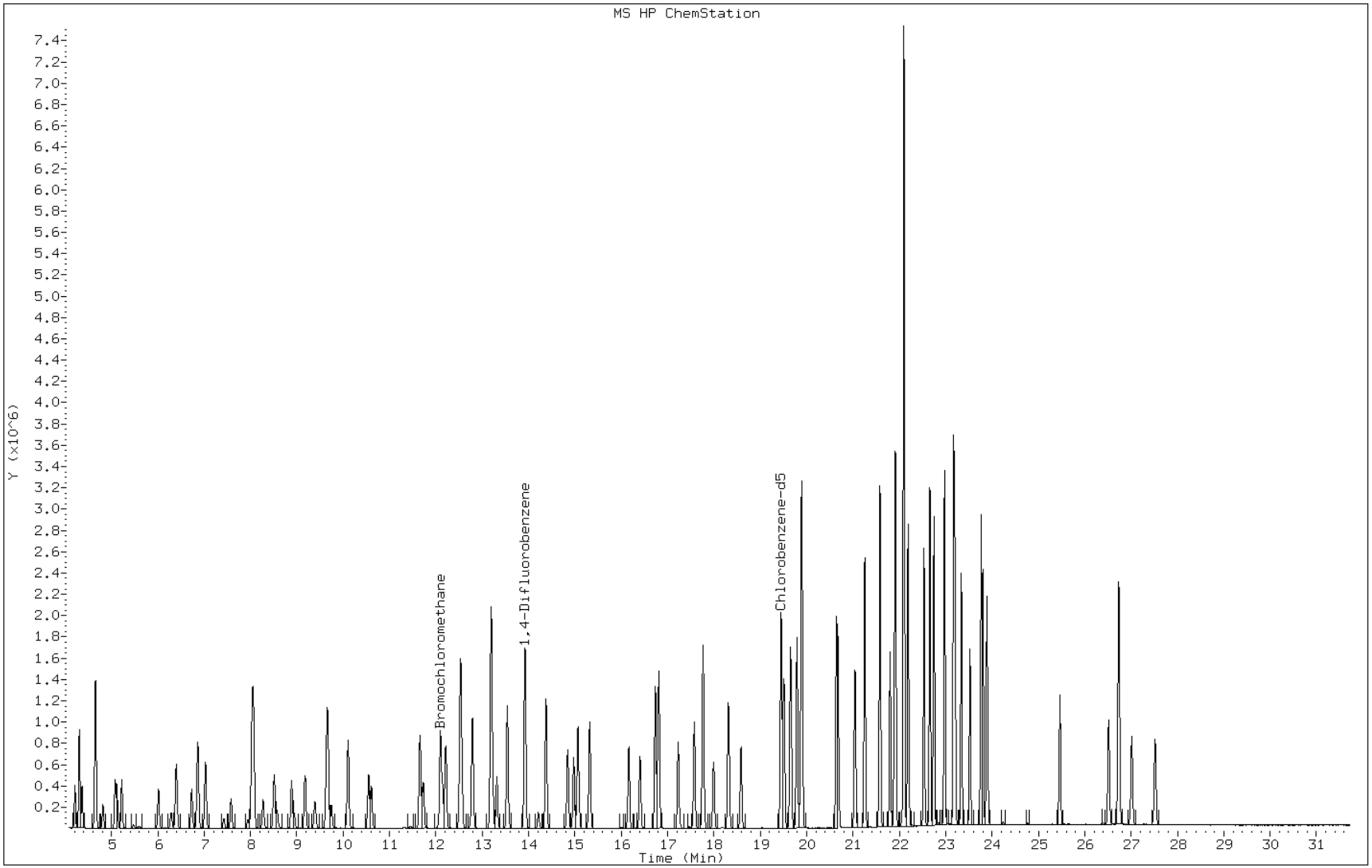
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
1 Propene	41	4.213	4.208	(0.348)	262779	10.2736	10
2 Dichlorodifluoromethane	85	4.304	4.304	(0.356)	1099416	10.1504	10
3 Chlorodifluoromethane	51	4.368	4.363	(0.361)	555140	10.1705	10
4 1,2-Dichloro-1,1,2,2-tetraflu	85	4.651	4.651	(0.384)	1099387	9.96160	10
5 Chloromethane	50	4.816	4.811	(0.398)	308800	10.2236	10
6 Butane	43	5.083	5.078	(0.420)	547856	10.2547	10
7 Vinyl chloride	62	5.126	5.121	(0.424)	373503	9.96069	10
8 1,3-Butadiene	54	5.222	5.217	(0.432)	284883	10.5016	11
9 Bromomethane	94	6.017	6.012	(0.497)	349647	9.70079	9.7
10 Chloroethane	64	6.289	6.284	(0.520)	187479	9.96880	10
11 2-Methylbutane	43	6.401	6.396	(0.529)	405419	9.96409	10
12 Vinyl bromide	106	6.732	6.727	(0.557)	385129	10.0118	10
13 Trichlorofluoromethane	101	6.860	6.860	(0.567)	1134026	9.92746	9.9
14 Pentane	43	7.026	7.026	(0.581)	621218	10.0034	10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	15 Ethanol	45	7.426	7.426	(0.614)	148741	16.0862	16
	16 Ethyl ether	59	7.581	7.581	(0.627)	242408	10.2526	10
	17 1,1,2-Trichloro-1,2,2-trifluo	101	8.040	8.034	(0.665)	848035	10.6175	11
	18 Acrolein	56	7.944	7.938	(0.657)	103162	9.24543	9.2
	19 1,1-Dichloroethene	96	8.072	8.072	(0.667)	407083	10.8530	11
	20 Acetone	43	8.275	8.269	(0.684)	476619	10.9727	11
	21 Carbon disulfide	76	8.509	8.509	(0.703)	1083447	10.2896	10
	22 Isopropanol	45	8.573	8.573	(0.709)	318286	10.4294	10
	23 Allyl chloride	41	8.883	8.883	(0.734)	474202	10.6854	11
	24 Acetonitrile	41	8.942	8.942	(0.739)	199553	11.1636	11
	25 Methylene chloride	49	9.176	9.177	(0.759)	393157	10.6105	11
	26 Tert-butyl alcohol	59	9.390	9.390	(0.776)	491838	10.5954	11
	27 Methyl tert-butyl ether	73	9.646	9.641	(0.797)	1110001	10.6308	11
	28 1,2-Dichloroethene (trans)	61	9.667	9.668	(0.799)	562782	10.1958	10
	29 Acrylonitrile	53	9.748	9.748	(0.806)	237829	11.1597	11
	30 n-Hexane	57	10.105	10.105	(0.835)	611669	10.2458	10
	31 1,1-Dichloroethane	63	10.548	10.548	(0.872)	719996	10.1469	10
	32 Vinyl acetate	43	10.612	10.607	(0.877)	811390	10.8666	11
M	33 1,2-Dichloroethene,Total	61				1005019	20.2126	20
	34 1,2-Dichloroethene (cis)	96	11.653	11.653	(0.963)	442237	10.0169	10
	35 Ethyl acetate	88	11.733	11.728	(0.970)	34563	10.5863	11
	36 Methyl Ethyl Ketone	72	11.669	11.674	(0.965)	176461	10.6917	11
*	37 Bromochloromethane	128	12.096	12.096	(1.000)	394482	10.0000	
	38 Tetrahydrofuran	42	12.144	12.139	(0.872)	370132	10.8324	11
	39 Chloroform	83	12.213	12.213	(1.010)	887550	10.0717	10
	40 Cyclohexane	84	12.549	12.544	(0.901)	613272	10.0592	10
	41 1,1,1-Trichloroethane	97	12.528	12.528	(0.900)	988890	9.96724	10
	42 Carbon tetrachloride	117	12.790	12.784	(0.918)	1034383	9.87502	9.9
	43 2,2,4-Trimethylpentane	57	13.200	13.201	(0.948)	1954885	10.1968	10
	44 Benzene	78	13.190	13.190	(0.947)	1279285	9.93776	9.9
	45 1,2-Dichloroethane	62	13.313	13.318	(0.956)	588938	10.1714	10
	46 n-Heptane	43	13.547	13.542	(0.973)	707055	10.3193	10
*	47 1,4-Difluorobenzene	114	13.926	13.921	(1.000)	2173520	10.0000	
	48 n-Butanol	56	14.214	14.209	(1.021)	126295	10.0388	10
	49 Trichloroethene	95	14.375	14.375	(1.032)	589711	9.73389	9.7
	50 1,2-Dichloropropane	63	14.839	14.844	(1.066)	417223	9.74673	9.7
	51 Methyl methacrylate	69	14.972	14.972	(1.075)	386090	10.5642	11
	52 Dibromomethane	174	15.068	15.069	(1.082)	548650	9.89853	9.9
	53 1,4-Dioxane	88	15.047	15.042	(1.080)	138850	9.10611	9.1
	54 Bromodichloromethane	83	15.319	15.319	(1.100)	1002604	10.5834	11
	55 1,3-Dichloropropene (cis)	75	16.162	16.163	(1.161)	700142	9.95580	10
	56 Methyl isobutyl ketone	43	16.403	16.408	(1.178)	665302	10.9465	11
	57 n-Octane	43	16.808	16.808	(1.207)	943249	10.2044	10
	58 Toluene	92	16.739	16.734	(0.861)	943875	9.88359	9.9
	59 1,3-Dichloropropene (trans)	75	17.230	17.230	(1.237)	713719	10.2391	10
	60 1,1,2-Trichloroethane	83	17.577	17.577	(0.904)	407787	9.46578	9.5
	61 Tetrachloroethene	166	17.764	17.764	(0.913)	864010	9.59584	9.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	62 2-Hexanone	43	17.993	17.993	(0.925)	601398	10.8111	11
	63 Dibromochloromethane	129	18.313	18.313	(0.942)	1028426	10.8538	11
	64 1,2-Dibromoethane	107	18.585	18.586	(0.956)	826520	9.91696	9.9
*	65 Chlorobenzene-d5	117	19.450	19.450	(1.000)	1992042	10.0000	
	66 Chlorobenzene	112	19.509	19.509	(1.003)	1336502	9.66619	9.7
	67 n-Nonane	57	19.792	19.792	(1.018)	929310	10.6284	11
	68 Ethylbenzene	91	19.658	19.653	(1.011)	2061964	10.2650	10
	69 Xylene (m,p)	106	19.893	19.893	(1.023)	1721571	20.5716	21
M	70 Xylenes, Total	106				2557836	30.8931	31
	71 Xylene (o)	106	20.645	20.646	(1.061)	836265	10.3214	10
	72 Styrene	104	20.677	20.678	(1.063)	1248911	10.9001	11
	73 Bromoform	173	21.040	21.041	(1.082)	1021920	11.1242	11
	74 Isopropylbenzene	105	21.254	21.254	(1.093)	2479553	10.6392	11
	75 1,1,2,2-Tetrachloroethane	83	21.798	21.798	(1.121)	1075805	10.2038	10
	76 n-Propylbenzene	91	21.916	21.916	(1.127)	2849062	10.9411	11
	77 1,2,3-Trichloropropane	75	21.900	21.900	(1.126)	903191	10.5938	11
	78 n-Decane	57	22.097	22.097	(1.136)	1137869	11.4692	11
	79 4-Ethyltoluene	105	22.092	22.092	(1.136)	2566064	11.3733	11
	80 2-Chlorotoluene	91	22.102	22.103	(1.136)	2106395	10.9007	11
	81 1,3,5-Trimethylbenzene	105	22.188	22.193	(1.141)	2090175	10.6811	11
	82 Alpha Methyl Styrene	118	22.535	22.535	(1.159)	1072136	11.7421	12
	83 tert-butylbenzene	119	22.663	22.658	(1.165)	2155965	10.9579	11
	84 1,2,4-Trimethylbenzene	105	22.748	22.748	(1.170)	2041429	10.7831	11
	85 sec-Butylbenzene	105	22.972	22.972	(1.181)	3073811	11.1177	11
	86 4-Isopropyltoluene	119	23.170	23.170	(1.191)	2681604	11.4238	11
	87 1,3-Dichlorobenzene	146	23.202	23.202	(1.193)	1392924	10.4455	10
	88 1,4-Dichlorobenzene	146	23.341	23.335	(1.200)	1367792	10.5919	11
	89 Benzyl chloride	91	23.527	23.522	(1.210)	1597300	11.4055	11
	90 Undecane	57	23.805	23.805	(1.224)	1017099	11.0599	11
	91 n-Butylbenzene	91	23.768	23.768	(1.222)	2100902	11.9091	12
	92 1,2-Dichlorobenzene	146	23.890	23.890	(1.228)	1288821	10.3924	10
	93 Dodecane	57	25.465	25.465	(1.309)	590067	11.2198	11
	94 1,2,4-Trichlorobenzene	180	26.516	26.516	(1.363)	571990	10.3246	10
	95 1,3-Hexachlorobutadiene	225	26.735	26.735	(1.375)	802771	11.3175	11
	96 Naphthalene	128	27.012	27.012	(1.389)	1242293	11.2858	11
	97 1,2,3-Trichlorobenzene	180	27.514	27.514	(1.415)	511855	11.9794	12

Data File:	ckz018.d	Date:	15-AUG-2012 11:09
Client ID:		Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ICV 370622		
Lab Sample ID:	ICV 370622		



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Lab Sample ID: CCVIS 200-44151/2 Calibration Date: 08/28/2012 12:48

Instrument ID: C.i Calib Start Date: 08/14/2012 18:13

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/15/2012 08:24

Lab File ID: ckzj002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.6484	0.6124		9.44	10.0	-5.6	30.0
Dichlorodifluoromethane	Ave	2.746	2.783		10.1	10.0	1.4	30.0
Freon 22	Ave	1.384	1.355		9.79	10.0	-2.0	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.798	2.707		9.67	10.0	-3.3	30.0
Chloromethane	Ave	0.7657	0.7158		9.35	10.0	-6.5	30.0
n-Butane	Ave	1.354	1.296		9.57	10.0	-4.3	30.0
Vinyl chloride	Ave	0.9506	0.8813		9.27	10.0	-7.3	30.0
1,3-Butadiene	Ave	0.6877	0.6428		9.35	10.0	-6.5	30.0
Bromomethane	Ave	0.9137	0.8370		9.16	10.0	-8.4	30.0
Chloroethane	Ave	0.4767	0.4150		8.70	10.0	-13.0	30.0
Isopentane	Ave	1.031	0.8915		8.64	10.0	-13.6	30.0
Bromoethene(Vinyl Bromide)	Ave	0.9751	0.9058		9.29	10.0	-7.1	30.0
Trichlorofluoromethane	Ave	2.896	2.863		9.89	10.0	-1.1	30.0
n-Pentane	Ave	1.574	1.418		9.00	10.0	-10.0	30.0
Ethanol	Ave	0.2344	0.1961		12.6	15.0	-16.3	30.0
Ethyl ether	Ave	0.5994	0.5840		9.74	10.0	-2.6	30.0
Acrolein	Ave	0.2829	0.2544		8.99	10.0	-10.1	30.0
Freon TF	Ave	2.025	1.847		9.12	10.0	-8.8	30.0
1,1-Dichloroethene	Ave	0.9508	0.8530		8.97	10.0	-10.3	30.0
Acetone	Ave	1.101	1.208		11.0	10.0	9.7	30.0
Carbon disulfide	Ave	2.669	2.406		9.01	10.0	-9.9	30.0
Isopropyl alcohol	Ave	0.7736	0.8142		10.5	10.0	5.2	30.0
3-Chloropropene	Ave	1.125	1.001		8.90	10.0	-11.0	30.0
Acetonitrile	Ave	0.4531	0.4951		10.9	10.0	9.3	30.0
Methylene Chloride	Ave	0.9393	0.8145		8.67	10.0	-13.3	30.0
tert-Butyl alcohol	Ave	1.177	1.402		11.9	10.0	19.2	30.0
Methyl tert-butyl ether	Ave	2.647	2.608		9.85	10.0	-1.5	30.0
trans-1,2-Dichloroethene	Ave	1.399	1.276		9.12	10.0	-8.8	30.0
Acrylonitrile	Ave	0.5402	0.5179		9.58	10.0	-4.1	30.0
n-Hexane	Ave	1.513	1.300		8.59	10.0	-14.1	30.0
1,1-Dichloroethane	Ave	1.799	1.589		8.83	10.0	-11.6	30.0
Vinyl acetate	Ave	1.893	1.875		9.90	10.0	-1.0	30.0
cis-1,2-Dichloroethene	Ave	1.119	0.9546		8.53	10.0	-14.7	30.0
Methyl Ethyl Ketone	Ave	0.4184	0.3903		9.33	10.0	-6.7	30.0
Ethyl acetate	Ave	0.0828	0.0773		9.34	10.0	-6.6	30.0
Tetrahydrofuran	Ave	0.1572	0.1478		9.40	10.0	-6.0	30.0
Chloroform	Ave	2.234	2.050		9.18	10.0	-8.2	30.0
1,1,1-Trichloroethane	Ave	0.4565	0.4321		9.46	10.0	-5.3	30.0
Cyclohexane	Ave	0.2805	0.2452		8.74	10.0	-12.6	30.0
Carbon tetrachloride	Ave	0.4819	0.4626		9.60	10.0	-4.0	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Lab Sample ID: CCVIS 200-44151/2 Calibration Date: 08/28/2012 12:48

Instrument ID: C.i Calib Start Date: 08/14/2012 18:13

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/15/2012 08:24

Lab File ID: ckzj002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzene	Ave	0.5923	0.5029		8.49	10.0	-15.1	30.0
2,2,4-Trimethylpentane	Ave	0.8821	0.7629		8.65	10.0	-13.5	30.0
1,2-Dichloroethane	Ave	0.2664	0.2637		9.90	10.0	-1.0	30.0
n-Heptane	Ave	0.3152	0.2735		8.67	10.0	-13.2	30.0
n-Butanol	Ave	0.0579	0.0587		10.1	10.0	1.5	30.0
Trichloroethene	Ave	0.2787	0.2514		9.02	10.0	-9.8	30.0
1,2-Dichloropropane	Ave	0.1969	0.1735		8.81	10.0	-11.9	30.0
Methyl methacrylate	Ave	0.1681	0.1572		9.35	10.0	-6.5	30.0
1,4-Dioxane	Ave	0.0702	0.0690		9.83	10.0	-1.7	30.0
Dibromomethane	Ave	0.2550	0.2493		9.77	10.0	-2.3	30.0
Bromodichloromethane	Ave	0.4359	0.4258		9.77	10.0	-2.3	30.0
cis-1,3-Dichloropropene	Ave	0.3236	0.3065		9.47	10.0	-5.3	30.0
methyl isobutyl ketone	Ave	0.2796	0.2848		10.2	10.0	1.9	30.0
Toluene	Ave	0.4794	0.4490		9.36	10.0	-6.3	30.0
n-Octane	Ave	0.4253	0.3886		9.14	10.0	-8.6	30.0
trans-1,3-Dichloropropene	Ave	0.3207	0.3258		10.2	10.0	1.6	30.0
1,1,2-Trichloroethane	Ave	0.2163	0.1984		9.17	10.0	-8.3	30.0
Tetrachloroethene	Ave	0.4520	0.4393		9.72	10.0	-2.8	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2793	0.2905		10.4	10.0	4.0	30.0
Dibromochloromethane	Ave	0.4757	0.4904		10.3	10.0	3.1	30.0
1,2-Dibromoethane	Ave	0.4184	0.4092		9.78	10.0	-2.2	30.0
Chlorobenzene	Ave	0.6941	0.6524		9.40	10.0	-6.0	30.0
Ethylbenzene	Ave	1.008	0.9594		9.51	10.0	-4.9	30.0
n-Nonane	Ave	0.4389	0.4080		9.29	10.0	-7.1	30.0
m,p-Xylene	Ave	0.4201	0.4111		19.6	20.0	-2.1	30.0
Xylene, o-	Ave	0.4067	0.4015		9.87	10.0	-1.3	30.0
Styrene	Ave	0.5752	0.5901		10.3	10.0	2.6	30.0
Bromoform	Ave	0.4612	0.4931		10.7	10.0	6.9	30.0
Cumene	Ave	1.170	1.142		9.76	10.0	-2.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5293	0.4970		9.39	10.0	-6.1	30.0
1,2,3-Trichloropropane	Ave	0.4280	0.4196		9.80	10.0	-2.0	30.0
n-Propylbenzene	Ave	1.307	1.284		9.82	10.0	-1.8	30.0
4-Ethyltoluene	Ave	1.133	1.158		10.2	10.0	2.3	30.0
n-Decane	Ave	0.4980	0.5031		10.1	10.0	1.0	30.0
2-Chlorotoluene	Ave	0.9700	0.9551		9.84	10.0	-1.5	30.0
1,3,5-Trimethylbenzene	Ave	0.9824	0.9696		9.87	10.0	-1.3	30.0
Alpha Methyl Styrene	Ave	0.4584	0.4930		10.8	10.0	7.6	30.0
tert-Butylbenzene	Ave	0.9877	0.9780		9.90	10.0	-1.0	30.0
1,2,4-Trimethylbenzene	Ave	0.9504	0.9571		10.1	10.0	0.7	30.0
sec-Butylbenzene	Ave	1.388	1.368		9.86	10.0	-1.4	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Lab Sample ID: CCVIS 200-44151/2 Calibration Date: 08/28/2012 12:48

Instrument ID: C.i Calib Start Date: 08/14/2012 18:13

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/15/2012 08:24

Lab File ID: ckzj002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.178	1.210		10.3	10.0	2.7	30.0
1,3-Dichlorobenzene	Ave	0.6694	0.6781		10.1	10.0	1.3	30.0
1,4-Dichlorobenzene	Ave	0.6483	0.6591		10.2	10.0	1.7	30.0
Benzyl chloride	Ave	0.7030	0.6422		9.13	10.0	-8.7	30.0
n-Butylbenzene	Ave	0.8856	0.9361		10.6	10.0	5.7	30.0
n-Undecane	Ave	0.4617	0.4644		10.1	10.0	0.6	30.0
1,2-Dichlorobenzene	Ave	0.6226	0.6381		10.2	10.0	2.5	30.0
n-Dodecane	Ave	0.2640	0.2804		10.6	10.0	6.2	30.0
1,2,4-Trichlorobenzene	Ave	0.2781	0.3316		11.9	10.0	19.2	30.0
Hexachlorobutadiene	Ave	0.3561	0.3962		11.1	10.0	11.3	30.0
Naphthalene	Ave	0.5526	0.6639		12.0	10.0	20.1	30.0
1,2,3-Trichlorobenzene	Ave	0.2145	0.2784		13.0	10.0	29.8	30.0

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/ckzjto15.b/ckzj002.d
Lab Smp Id: ccvis 380696
Inj Date : 28-AUG-2012 12:48
Operator : wrd Inst ID: C.i
Smp Info : ccvis 380696
Misc Info : 200,1,ccvis
Comment :
Method : /chem/C.i/Csvr.p/ckzjto15.b/to15v5.m
Meth Date : 29-Aug-2012 13:08 klp Quant Type: ISTD
Cal Date : 15-AUG-2012 08:24 Cal File: ckz015.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
1 Propene	41	4.208	4.208	(0.348)	204242	10.0000	9.4
2 Dichlorodifluoromethane	85	4.299	4.304	(0.356)	928270	10.0000	10
3 Chlorodifluoromethane	51	4.363	4.363	(0.361)	452024	10.0000	9.8
4 1,2-Dichloro-1,1,2,2-tetraflu	85	4.645	4.651	(0.385)	902648	10.0000	9.7
5 Chloromethane	50	4.811	4.811	(0.398)	238740	10.0000	9.3
6 Butane	43	5.078	5.078	(0.420)	432379	10.0000	9.6
7 Vinyl chloride	62	5.115	5.121	(0.423)	293922	10.0000	9.3
8 1,3-Butadiene	54	5.211	5.217	(0.431)	214366	10.0000	9.3
9 Bromomethane	94	6.006	6.012	(0.497)	279134	10.0000	9.2
10 Chloroethane	64	6.273	6.284	(0.519)	138393	10.0000	8.7
11 2-Methylbutane	43	6.391	6.396	(0.529)	297328	10.0000	8.6
12 Vinyl bromide	106	6.721	6.727	(0.556)	302105	10.0000	9.3
13 Trichlorofluoromethane	101	6.850	6.860	(0.567)	954835	10.0000	9.9
14 Pentane	43	7.020	7.026	(0.581)	472782	10.0000	9.0

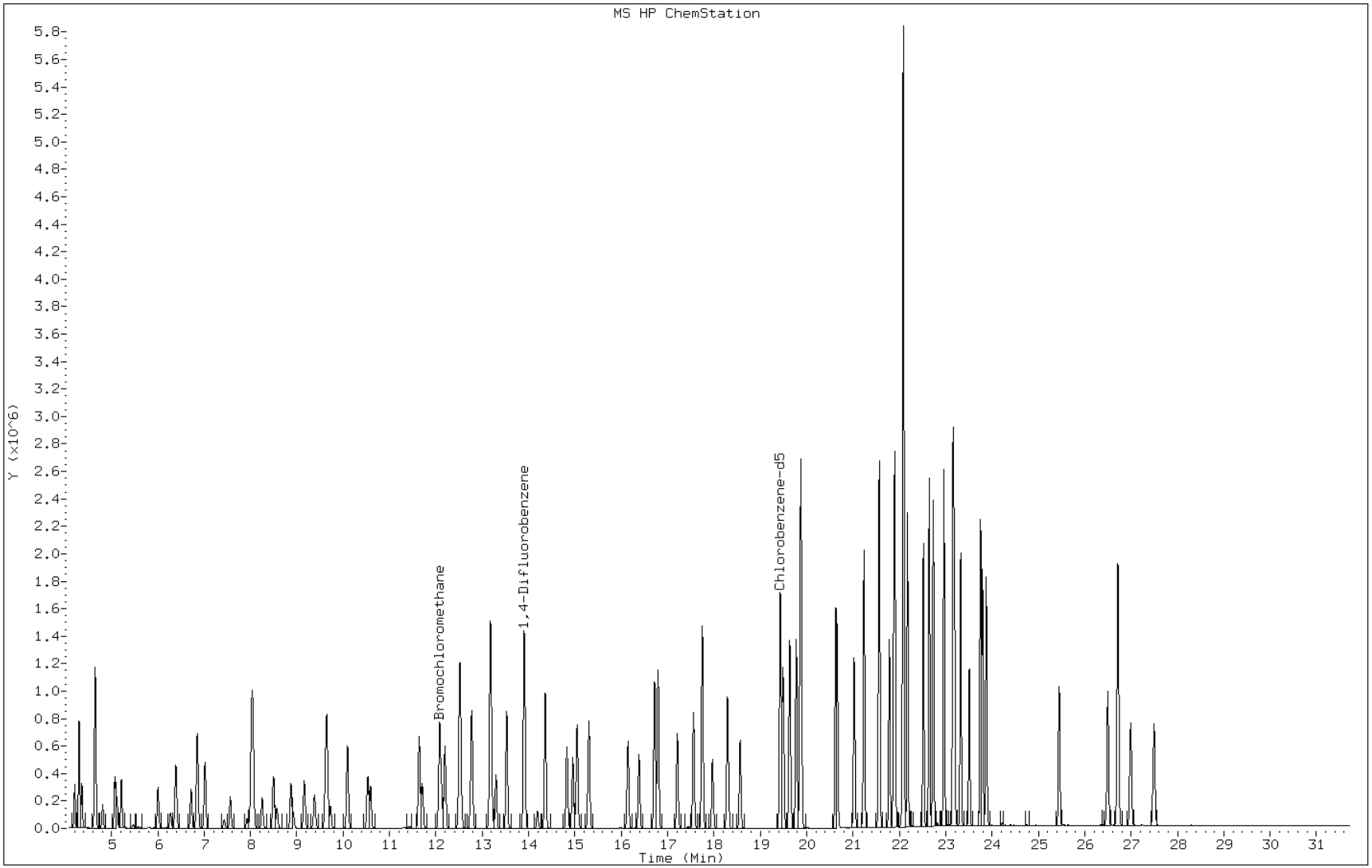
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	7.431	7.426	(0.615)	98163	15.0000	13
	16 Ethyl ether	59	7.565	7.581	(0.626)	194780	10.0000	9.7
	17 1,1,2-Trichloro-1,2,2-trifluo	101	8.029	8.034	(0.665)	616041	10.0000	9.1
	18 Acrolein	56	7.922	7.938	(0.656)	84840	10.0000	9.0
	19 1,1-Dichloroethene	96	8.056	8.072	(0.667)	284495	10.0000	9.0
	20 Acetone	43	8.253	8.269	(0.683)	402747	10.0000	11
	21 Carbon disulfide	76	8.499	8.509	(0.704)	802462	10.0000	9.0
	22 Isopropanol	45	8.568	8.573	(0.709)	271552	10.0000	11
	23 Allyl chloride	41	8.872	8.883	(0.734)	333972	10.0000	8.9
	24 Acetonitrile	41	8.915	8.942	(0.738)	165107	10.0000	11
	25 Methylene chloride	49	9.160	9.177	(0.758)	271629	10.0000	8.7
	26 Tert-butyl alcohol	59	9.379	9.390	(0.776)	467620	10.0000	12
	27 Methyl tert-butyl ether	73	9.625	9.641	(0.797)	869725	10.0000	9.9
	28 1,2-Dichloroethene (trans)	61	9.651	9.668	(0.799)	425625	10.0000	9.1
	29 Acrylonitrile	53	9.726	9.748	(0.805)	172721	10.0000	9.6
	30 n-Hexane	57	10.089	10.105	(0.835)	433487	10.0000	8.6
	31 1,1-Dichloroethane	63	10.532	10.548	(0.872)	530090	10.0000	8.8
	32 Vinyl acetate	43	10.591	10.607	(0.877)	625183	10.0000	9.9
M	33 1,2-Dichloroethene,Total	61				743998	20.0000	18
	34 1,2-Dichloroethene (cis)	96	11.631	11.653	(0.963)	318373	10.0000	8.5
	35 Ethyl acetate	88	11.711	11.728	(0.970)	25776	10.0000	9.3
	36 Methyl Ethyl Ketone	72	11.653	11.674	(0.965)	130154	10.0000	9.3(Q)
*	37 Bromochloromethane	128	12.080	12.096	(1.000)	333575	10.0000	
	38 Tetrahydrofuran	42	12.117	12.139	(0.871)	271597	10.0000	9.4
	39 Chloroform	83	12.197	12.213	(1.010)	683800	10.0000	9.2
	40 Cyclohexane	84	12.528	12.544	(0.901)	450565	10.0000	8.7
	41 1,1,1-Trichloroethane	97	12.512	12.528	(0.900)	793790	10.0000	9.5
	42 Carbon tetrachloride	117	12.768	12.784	(0.918)	849924	10.0000	9.6
	43 2,2,4-Trimethylpentane	57	13.184	13.201	(0.948)	1401533	10.0000	8.6
	44 Benzene	78	13.174	13.190	(0.947)	923924	10.0000	8.5
	45 1,2-Dichloroethane	62	13.297	13.318	(0.956)	484524	10.0000	9.9
	46 n-Heptane	43	13.531	13.542	(0.973)	502451	10.0000	8.7
*	47 1,4-Difluorobenzene	114	13.905	13.921	(1.000)	1837589	10.0000	
	48 n-Butanol	56	14.193	14.209	(1.021)	107918	10.0000	10
	49 Trichloroethene	95	14.359	14.375	(1.033)	461935	10.0000	9.0
	50 1,2-Dichloropropane	63	14.828	14.844	(1.066)	318688	10.0000	8.8
	51 Methyl methacrylate	69	14.951	14.972	(1.075)	288878	10.0000	9.3
	52 Dibromomethane	174	15.052	15.069	(1.083)	457966	10.0000	9.8
	53 1,4-Dioxane	88	15.020	15.042	(1.080)	126700	10.0000	9.8
	54 Bromodichloromethane	83	15.298	15.319	(1.100)	782198	10.0000	9.8
	55 1,3-Dichloropropene (cis)	75	16.146	16.163	(1.161)	563057	10.0000	9.5
	56 Methyl isobutyl ketone	43	16.381	16.408	(1.178)	523255	10.0000	10
	57 n-Octane	43	16.792	16.808	(1.208)	714027	10.0000	9.1
	58 Toluene	92	16.718	16.734	(0.860)	761469	10.0000	9.4
	59 1,3-Dichloropropene (trans)	75	17.209	17.230	(1.238)	598558	10.0000	10
	60 1,1,2-Trichloroethane	83	17.555	17.577	(0.904)	336454	10.0000	9.2
	61 Tetrachloroethene	166	17.753	17.764	(0.914)	744886	10.0000	9.7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	17.966	17.993	(0.925)	492649	10.0000	10
	63 Dibromochloromethane	129	18.292	18.313	(0.941)	831653	10.0000	10
	64 1,2-Dibromoethane	107	18.564	18.586	(0.955)	694002	10.0000	9.8
*	65 Chlorobenzene-d5	117	19.429	19.450	(1.000)	1696147	10.0000	
	66 Chlorobenzene	112	19.493	19.509	(1.003)	1106288	10.0000	9.4
	67 n-Nonane	57	19.776	19.792	(1.018)	691825	10.0000	9.3
	68 Ethylbenzene	91	19.637	19.653	(1.011)	1627040	10.0000	9.5
	69 Xylene (m,p)	106	19.872	19.893	(1.023)	1394256	20.0000	20
M	70 Xylenes, Total	106				2075172	10.0000	29
	71 Xylene (o)	106	20.629	20.646	(1.062)	680916	10.0000	9.9
	72 Styrene	104	20.661	20.678	(1.063)	1000642	10.0000	10
	73 Bromoform	173	21.024	21.041	(1.082)	836221	10.0000	11
	74 Isopropylbenzene	105	21.238	21.254	(1.093)	1935800	10.0000	9.8
	75 1,1,2,2-Tetrachloroethane	83	21.782	21.798	(1.121)	842834	10.0000	9.4
	76 n-Propylbenzene	91	21.900	21.916	(1.127)	2176734	10.0000	9.8
	77 1,2,3-Trichloropropane	75	21.884	21.900	(1.126)	711495	10.0000	9.8
	78 n-Decane	57	22.081	22.097	(1.137)	853089	10.0000	10
	79 4-Ethyltoluene	105	22.076	22.092	(1.136)	1964579	10.0000	10
	80 2-Chlorotoluene	91	22.086	22.103	(1.137)	1619688	10.0000	9.8
	81 1,3,5-Trimethylbenzene	105	22.177	22.193	(1.141)	1644334	10.0000	9.9
	82 Alpha Methyl Styrene	118	22.519	22.535	(1.159)	836104	10.0000	11
	83 tert-butylbenzene	119	22.647	22.658	(1.166)	1658517	10.0000	9.9
	84 1,2,4-Trimethylbenzene	105	22.732	22.748	(1.170)	1623105	10.0000	10
	85 sec-Butylbenzene	105	22.962	22.972	(1.182)	2320498	10.0000	9.9
	86 4-Isopropyltoluene	119	23.159	23.170	(1.192)	2051441	10.0000	10
	87 1,3-Dichlorobenzene	146	23.186	23.202	(1.193)	1149936	10.0000	10
	88 1,4-Dichlorobenzene	146	23.325	23.335	(1.201)	1117757	10.0000	10
	89 Benzyl chloride	91	23.511	23.522	(1.210)	1089080	10.0000	9.1
	90 Undecane	57	23.794	23.805	(1.225)	787614	10.0000	10
	91 n-Butylbenzene	91	23.752	23.768	(1.222)	1587442	10.0000	11
	92 1,2-Dichlorobenzene	146	23.874	23.890	(1.229)	1082085	10.0000	10
	93 Dodecane	57	25.449	25.465	(1.310)	475550	10.0000	11
	94 1,2,4-Trichlorobenzene	180	26.495	26.516	(1.364)	562278	10.0000	12
	95 1,3-Hexachlorobutadiene	225	26.714	26.735	(1.375)	671813	10.0000	11
	96 Naphthalene	128	26.991	27.012	(1.389)	1125779	10.0000	12
	97 1,2,3-Trichlorobenzene	180	27.493	27.514	(1.415)	472129	10.0000	13

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File:	ckzj002.d	Date:	28-AUG-2012 12:48
Client ID:		Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ccvis 380696		
Lab Sample ID:	ccvis 380696		



TestAmerica Burlington

Data file : /chem/C.i/Csvr.p/ckzto15.b/ckz001.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 14-AUG-2012 16:28
Operator : wrd Inst ID: C.i
Smp Info : BFB
Misc Info :
Comment :
Method : /chem/C.i/Csvr.p/ckzto15.b/bfbto15.m
Meth Date : 08-Aug-2011 11:21 jd1 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

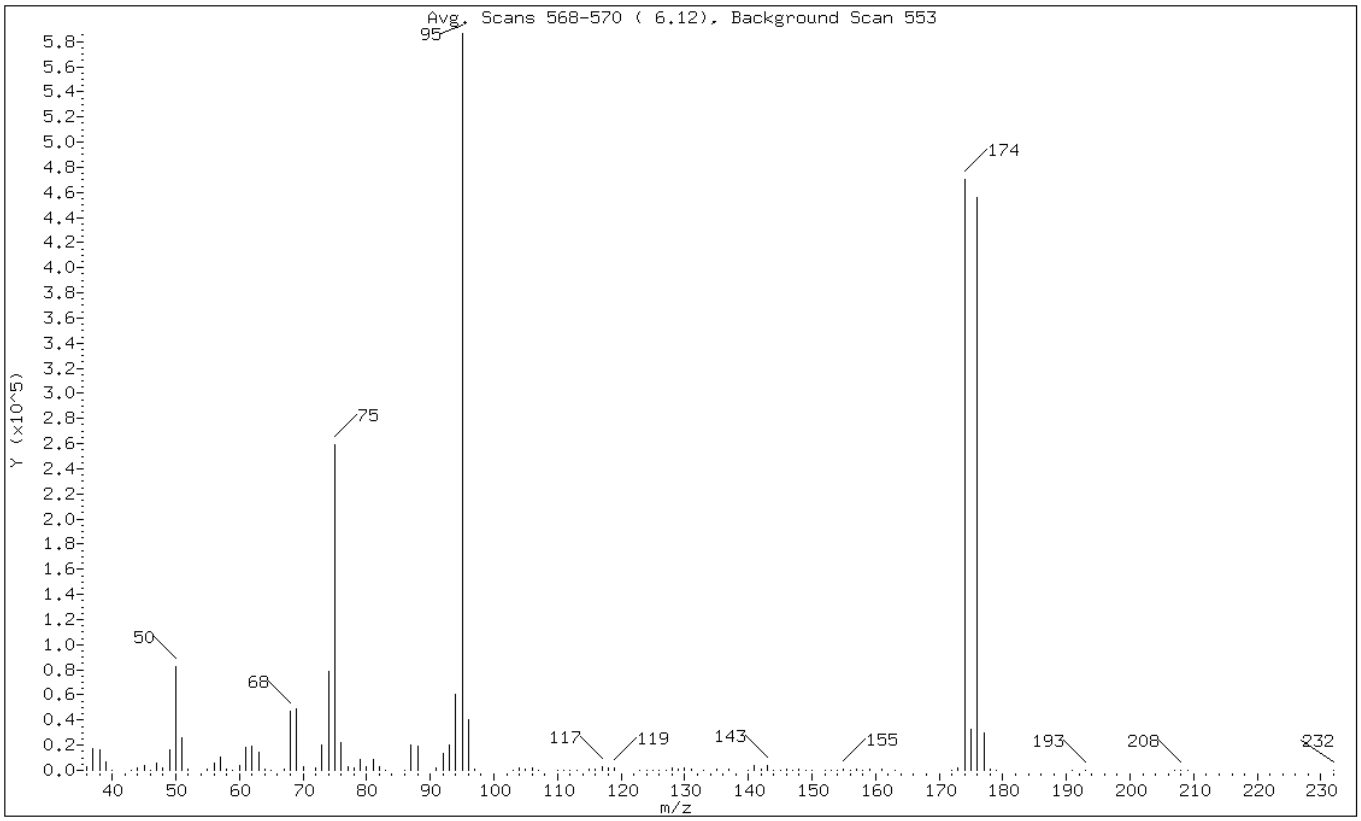
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 bfb						CAS #: 460-00-4		
6.116	6.760	-0.644	95	586474			100.00- 100.00	100.00
6.116	6.760	-0.644	50	82672			8.00- 40.00	14.10
6.116	6.760	-0.644	75	259264			30.00- 66.00	44.21
6.116	6.760	-0.644	96	40215			5.00- 9.00	6.86
6.116	6.760	-0.644	173	1520			0.00- 2.00	0.32
6.116	6.760	-0.644	174	470464			50.00- 120.00	80.22
6.116	6.760	-0.644	175	32581			4.00- 9.00	6.93
6.116	6.760	-0.644	176	455701			93.00- 101.00	96.86
6.116	6.760	-0.644	177	30111			5.00- 9.00	6.61

Data File:	ckz001.d	Date:	14-AUG-2012 16:28
Client ID:	BFB	Instrument:	C.i
Operator:	wrd	Inj Vol:	0.0 (ul)
Column Type:	Capillary	Diameter:	0.32 (mm)
Stationary Phase:	RTX-624		
Sample Info:	BFB		
Lab Sample ID:	BFB		

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	14.10
75	30.00 - 66.00% of mass 95	44.21
96	5.00 - 9.00% of mass 95	6.86
173	Less than 2.00% of mass 174	0.26 (0.32)
174	50.00 - 120.00% of mass 95	80.22
175	4.00 - 9.00% of mass 174	5.56 (6.93)
176	93.00 - 101.00% of mass 174	77.70 (96.86)
177	5.00 - 9.00% of mass 176	5.13 (6.61)

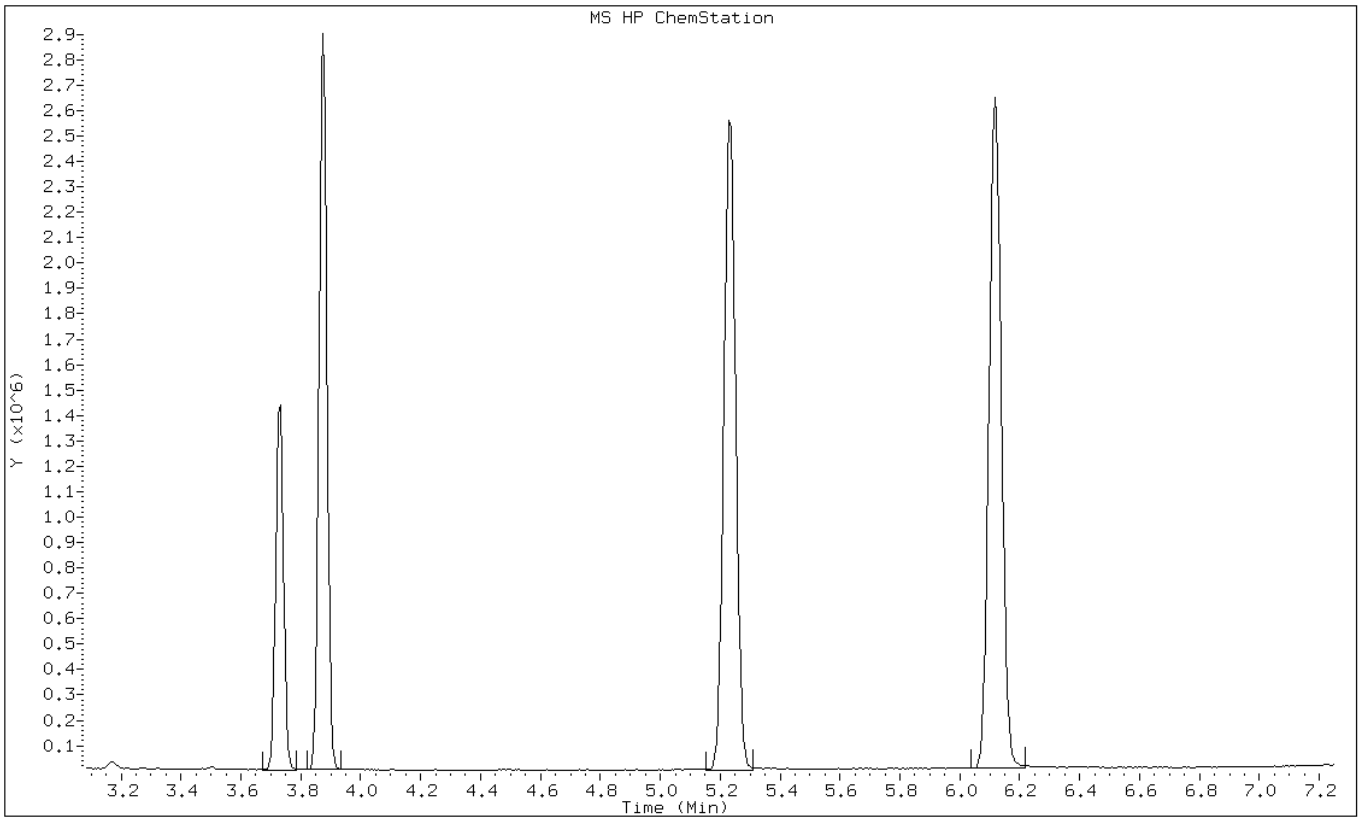
Data File: ckz001.d
Client ID: BFB
Operator: wrd
Column Type: Capillary
Stationary Phase: RTX-624
Sample Info: BFB
Lab Sample ID: BFB

Date: 14-AUG-2012 16:28
Instrument: C.i
Inj Vol: 0.0 (ul)
Diameter: 0.32 (mm)

Data File: /chem/C.i/Csvr.p/ckzto15.b/ckz001.d
Spectrum: Avg. Scans 568-570 (6.12), Background Scan 553
Location of Maximum: 95.00
Number of points: 113

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2985	70.00	3336	111.00	228	149.00	403
37.00	17592	72.00	2162	112.00	67	150.00	454
38.00	16247	73.00	19888	113.00	287	152.00	157
39.00	6378	74.00	78856	115.00	555	153.00	417
40.00	152	75.00	259264	116.00	1431	154.00	318
43.00	153	76.00	21600	117.00	2678	155.00	1255
44.00	1517	77.00	2864	118.00	1676	156.00	228
45.00	3364	78.00	1876	119.00	2168	157.00	917
46.00	76	79.00	8261	123.00	75	158.00	175
47.00	5843	80.00	3193	124.00	270	159.00	627
48.00	2098	81.00	8429	125.00	146	161.00	699
49.00	16400	82.00	2522	126.00	84	163.00	77
50.00	82672	83.00	75	127.00	272	172.00	66
51.00	25936	86.00	396	128.00	1734	173.00	1520
52.00	1027	87.00	19680	129.00	853	174.00	470464
55.00	875	88.00	19512	130.00	1836	175.00	32576
56.00	5519	91.00	1563	131.00	796	176.00	455680
57.00	10744	92.00	13480	133.00	346	177.00	30104
58.00	512	93.00	20224	135.00	616	178.00	877
59.00	77	94.00	60048	137.00	690	179.00	73
60.00	3459	95.00	586432	140.00	381	191.00	69
61.00	18464	96.00	40208	141.00	3959	193.00	162
62.00	19304	97.00	1298	142.00	491	207.00	323
63.00	14637	103.00	105	143.00	4195	208.00	376
64.00	1316	104.00	1589	144.00	240	209.00	199
65.00	75	105.00	687	145.00	370	232.00	273
67.00	1043	106.00	1729	146.00	701		
68.00	46808	107.00	432	147.00	193		
69.00	49264	110.00	165	148.00	1188		

Data File:	ckz001.d	Date:	14-AUG-2012 16:28
Client ID:	BFB	Instrument:	C.i
Operator:	wrd	Inj Vol:	0.0 (ul)
Column Type:	Capillary	Diameter:	0.32 (mm)
Stationary Phase:	RTX-624		
Sample Info:	BFB		
Lab Sample ID:	BFB		



TestAmerica Burlington

Data file : /chem/C.i/Csvr.p/ckzjto15.b/ckzj001.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 28-AUG-2012 11:54
Operator : wrd Inst ID: C.i
Smp Info : BFB
Misc Info :
Comment :
Method : /chem/C.i/Csvr.p/ckzjto15.b/bfbto15.m
Meth Date : 08-Aug-2011 11:21 jd1 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

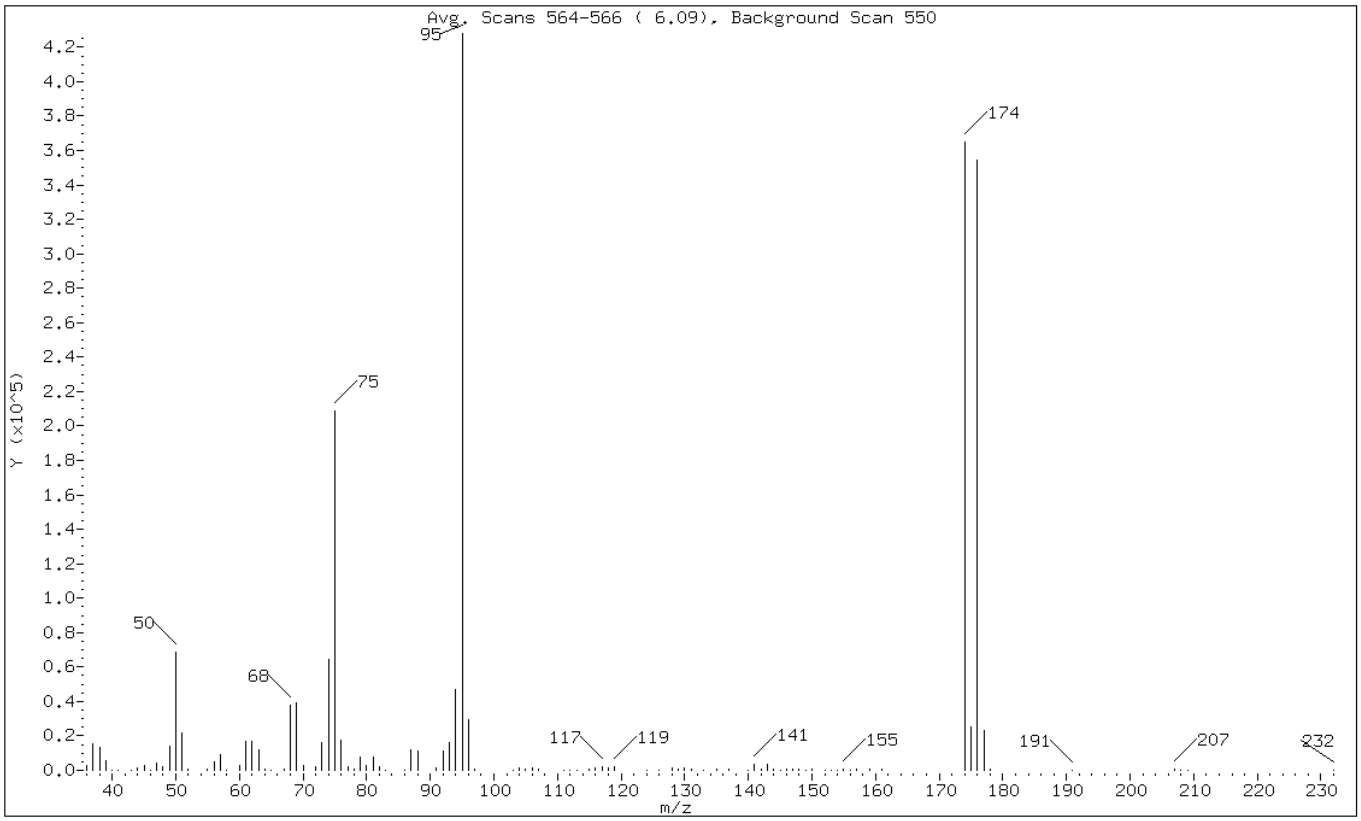
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 bfb						CAS #: 460-00-4		
6.095	6.760	-0.665	95	427989			100.00- 100.00	100.00
6.095	6.760	-0.665	50	68581			8.00- 40.00	16.02
6.095	6.760	-0.665	75	208682			30.00- 66.00	48.76
6.095	6.760	-0.665	96	29426			5.00- 9.00	6.88
6.095	6.760	-0.665	173	0			0.00- 2.00	0.00
6.095	6.760	-0.665	174	364693			50.00- 120.00	85.21
6.095	6.760	-0.665	175	25301			4.00- 9.00	6.94
6.095	6.760	-0.665	176	354602			93.00- 101.00	97.23
6.095	6.760	-0.665	177	22832			5.00- 9.00	6.44

Data File:	ckzj001.d	Date:	28-AUG-2012 11:54
Client ID:	BFB	Instrument:	C.i
Operator:	wrd	Inj Vol:	0.0 (ul)
Column Type:	Capillary	Diameter:	0.32 (mm)
Stationary Phase:	RTX-624		
Sample Info:	BFB		
Lab Sample ID:	BFB		

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	16.02
75	30.00 - 66.00% of mass 95	48.76
96	5.00 - 9.00% of mass 95	6.88
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	85.21
175	4.00 - 9.00% of mass 174	5.91 (6.94)
176	93.00 - 101.00% of mass 174	82.85 (97.23)
177	5.00 - 9.00% of mass 176	5.33 (6.44)

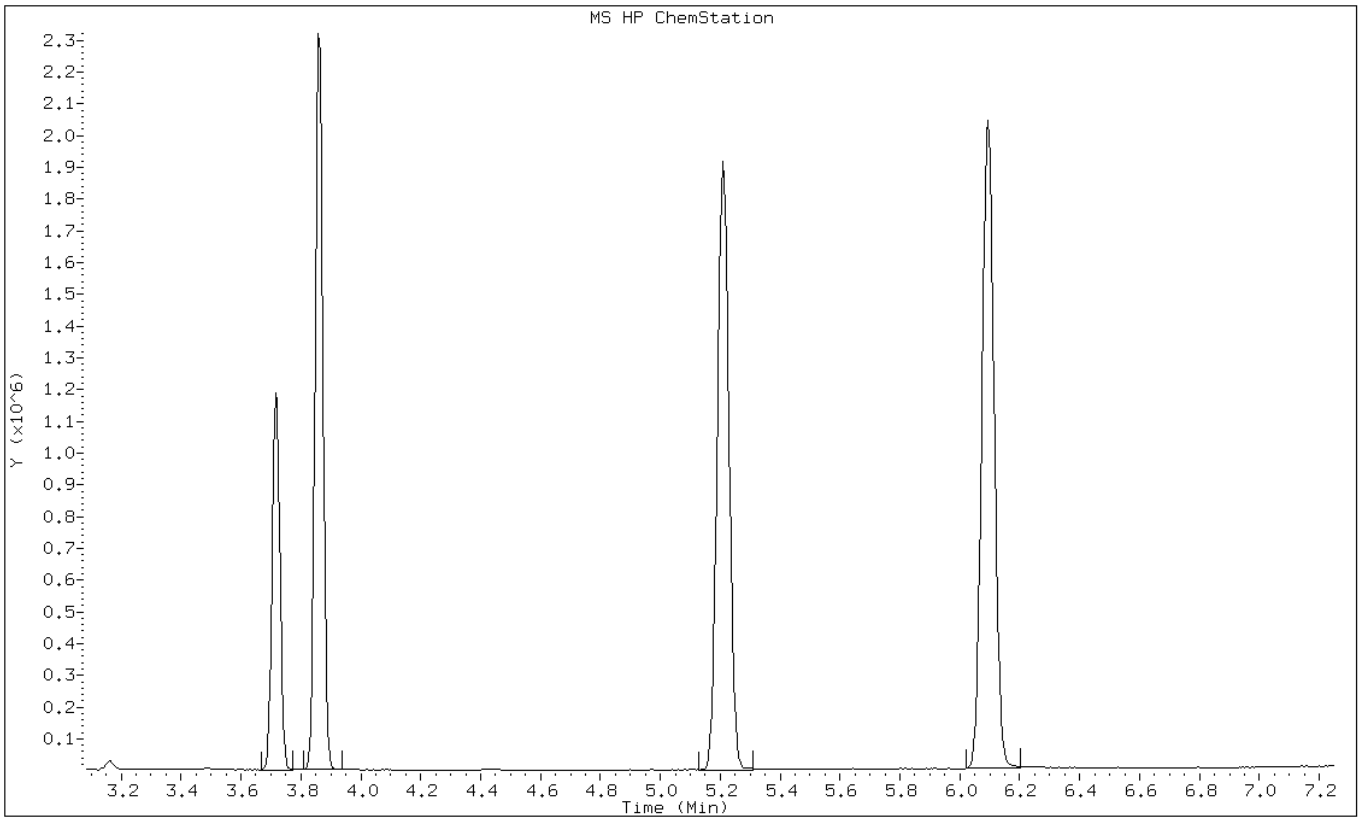
Data File: ckzj001.d
Client ID: BFB
Operator: wrd
Column Type: Capillary
Stationary Phase: RTX-624
Sample Info: BFB
Lab Sample ID: BFB

Date: 28-AUG-2012 11:54
Instrument: C.i
Inj Vol: 0.0 (ul)
Diameter: 0.32 (mm)

Data File: /chem/C.i/Csvr.p/ckzjto15.b/ckzj001.d
Spectrum: Avg. Scans 564-566 (6.09), Background Scan 550
Location of Maximum: 95.00
Number of points: 103

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2766	67.00	917	103.00	256	144.00	357
37.00	15390	68.00	38136	104.00	1266	145.00	345
38.00	13347	69.00	38976	105.00	529	146.00	582
39.00	5470	70.00	2934	106.00	1463	147.00	390
40.00	128	72.00	1902	107.00	352	148.00	1015
41.00	156	73.00	16086	111.00	153	149.00	257
43.00	71	74.00	64504	112.00	100	150.00	425
44.00	1552	75.00	208640	113.00	182	152.00	202
45.00	2892	76.00	17712	115.00	406	153.00	254
46.00	175	77.00	2196	116.00	1250	154.00	178
47.00	4065	78.00	1033	117.00	2094	155.00	988
48.00	1945	79.00	7679	118.00	1292	156.00	165
49.00	13905	80.00	2778	119.00	1906	157.00	672
50.00	68576	81.00	7746	124.00	261	159.00	457
51.00	21712	82.00	2111	126.00	73	161.00	511
52.00	893	83.00	233	128.00	1295	174.00	364672
55.00	889	86.00	342	129.00	600	175.00	25296
56.00	4802	87.00	11866	130.00	1475	176.00	354560
57.00	9299	88.00	11531	131.00	567	177.00	22832
58.00	343	91.00	1217	133.00	19	178.00	606
60.00	2907	92.00	10973	135.00	589	191.00	40
61.00	16528	93.00	16093	137.00	639	207.00	396
62.00	16520	94.00	46728	140.00	280	208.00	135
63.00	11914	95.00	427968	141.00	3605	209.00	120
64.00	1015	96.00	29424	142.00	431	232.00	73
65.00	139	97.00	905	143.00	3506		

Data File:	ckzj001.d	Date:	28-AUG-2012 11:54
Client ID:	BFB	Instrument:	C.i
Operator:	wrd	Inj Vol:	0.0 (ul)
Column Type:	Capillary	Diameter:	0.32 (mm)
Stationary Phase:	RTX-624		
Sample Info:	BFB		
Lab Sample ID:	BFB		



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Client Sample ID: Lab Sample ID: MB 200-44151/4

Matrix: Air Lab File ID: ckzj004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 08/28/2012 14:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 44151 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.50	U	0.50	0.020
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.020
74-87-3	Chloromethane	50.49	0.50	U	0.50	0.034
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.0091
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.025
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.027
75-00-3	Chloroethane	64.52	0.50	U	0.50	0.033
75-69-4	Trichlorofluoromethane	137.37	0.20	U	0.20	0.021
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.086
67-64-1	Acetone	58.08	5.0	U	5.0	0.40
67-63-0	Isopropyl alcohol	60.10	5.0	U	5.0	0.076
75-15-0	Carbon disulfide	76.14	0.50	U	0.50	0.020
75-09-2	Methylene Chloride	84.93	0.50	U	0.50	0.023
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.015
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.023
110-54-3	n-Hexane	86.17	0.20	U	0.20	0.020
75-34-3	1,1-Dichloroethane	98.96	0.20	U	0.20	0.023
78-93-3	Methyl Ethyl Ketone	72.11	0.50	U	0.50	0.025
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.084
67-66-3	Chloroform	119.38	0.20	U	0.20	0.024
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	0.029
71-55-6	1,1,1-Trichloroethane	133.41	0.20	U	0.20	0.020
110-82-7	Cyclohexane	84.16	0.20	U	0.20	0.019
56-23-5	Carbon tetrachloride	153.81	0.20	U	0.20	0.013
71-43-2	Benzene	78.11	0.20	U	0.20	0.018
107-06-2	1,2-Dichloroethane	98.96	0.20	U	0.20	0.018
142-82-5	n-Heptane	100.21	0.20	U	0.20	0.017
79-01-6	Trichloroethene	131.39	0.20	U	0.20	0.0092
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.023
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.012
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.013
108-10-1	methyl isobutyl ketone	100.16	0.50	U	0.50	0.034
108-88-3	Toluene	92.14	0.20	U	0.20	0.014
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.015
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.016

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Client Sample ID: Lab Sample ID: MB 200-44151/4

Matrix: Air Lab File ID: ckzj004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 08/28/2012 14:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 44151 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	0.015
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	0.040
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.011
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.014
108-90-7	Chlorobenzene	112.30	0.20	U	0.20	0.013
100-41-4	Ethylbenzene	106.17	0.20	U	0.20	0.015
179601-23-1	m,p-Xylene	106.17	0.50	U	0.50	0.022
95-47-6	Xylene, o-	106.17	0.20	U	0.20	0.016
1330-20-7	Xylene (total)	106.17	0.20	U	0.20	0.016
100-42-5	Styrene	104.15	0.20	U	0.20	0.011
75-25-2	Bromoform	252.75	0.20	U	0.20	0.0072
98-82-8	Cumene	120.19	0.20	U	0.20	0.011
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.011
103-65-1	n-Propylbenzene	120.19	0.20	U	0.20	0.013
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	0.015
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	0.019
95-63-6	1,2,4-Trimethylbenzene	120.20	0.20	U	0.20	0.021
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.019
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	0.018
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.022
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.026
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.030
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.029

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Client Sample ID: Lab Sample ID: MB 200-44151/4

Matrix: Air Lab File ID: ckzj004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 08/28/2012 14:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 44151 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.5	U	2.5	0.099
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	0.14
74-87-3	Chloromethane	50.49	1.0	U	1.0	0.070
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	0.023
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.055
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.10
75-00-3	Chloroethane	64.52	1.3	U	1.3	0.087
75-69-4	Trichlorofluoromethane	137.37	1.1	U	1.1	0.12
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.34
67-64-1	Acetone	58.08	12	U	12	0.95
67-63-0	Isopropyl alcohol	60.10	12	U	12	0.19
75-15-0	Carbon disulfide	76.14	1.6	U	1.6	0.062
75-09-2	Methylene Chloride	84.93	1.7	U	1.7	0.080
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.054
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.091
110-54-3	n-Hexane	86.17	0.70	U	0.70	0.070
75-34-3	1,1-Dichloroethane	98.96	0.81	U	0.81	0.093
78-93-3	Methyl Ethyl Ketone	72.11	1.5	U	1.5	0.074
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.33
67-66-3	Chloroform	119.38	0.98	U	0.98	0.12
109-99-9	Tetrahydrofuran	72.11	15	U	15	0.086
71-55-6	1,1,1-Trichloroethane	133.41	1.1	U	1.1	0.11
110-82-7	Cyclohexane	84.16	0.69	U	0.69	0.065
56-23-5	Carbon tetrachloride	153.81	1.3	U	1.3	0.082
71-43-2	Benzene	78.11	0.64	U	0.64	0.058
107-06-2	1,2-Dichloroethane	98.96	0.81	U	0.81	0.073
142-82-5	n-Heptane	100.21	0.82	U	0.82	0.070
79-01-6	Trichloroethene	131.39	1.1	U	1.1	0.049
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.11
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	0.080
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.059
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	0.14
108-88-3	Toluene	92.14	0.75	U	0.75	0.053
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.068
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	0.087

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Client Sample ID: Lab Sample ID: MB 200-44151/4

Matrix: Air Lab File ID: ckzj004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 08/28/2012 14:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 44151 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	0.10
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	0.16
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	0.094
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	0.11
108-90-7	Chlorobenzene	112.30	0.92	U	0.92	0.060
100-41-4	Ethylbenzene	106.17	0.87	U	0.87	0.065
179601-23-1	m,p-Xylene	106.17	2.2	U	2.2	0.096
95-47-6	Xylene, o-	106.17	0.87	U	0.87	0.069
1330-20-7	Xylene (total)	106.17	0.87	U	0.87	0.069
100-42-5	Styrene	104.15	0.85	U	0.85	0.047
75-25-2	Bromoform	252.75	2.1	U	2.1	0.074
98-82-8	Cumene	120.19	0.98	U	0.98	0.054
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	0.076
103-65-1	n-Propylbenzene	120.19	0.98	U	0.98	0.064
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	0.074
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	0.093
95-63-6	1,2,4-Trimethylbenzene	120.20	0.98	U	0.98	0.10
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	0.11
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	0.11
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.11
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	0.16
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	0.22
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	0.31

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/ckzjto15.b/ckzj004.d
Lab Smp Id: mb
Inj Date : 28-AUG-2012 14:34
Operator : wrd Inst ID: C.i
Smp Info : mb
Misc Info : 200,1,mb
Comment :
Method : /chem/C.i/Csvr.p/ckzjto15.b/to15v5.m
Meth Date : 29-Aug-2012 13:08 klp Quant Type: ISTD
Cal Date : 15-AUG-2012 08:24 Cal File: ckz015.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
1 Propene	41	Compound Not Detected.					
2 Dichlorodifluoromethane	85	Compound Not Detected.					
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	Compound Not Detected.					
6 Butane	43	Compound Not Detected.					
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
11 2-Methylbutane	43	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Pentane	43	Compound Not Detected.					

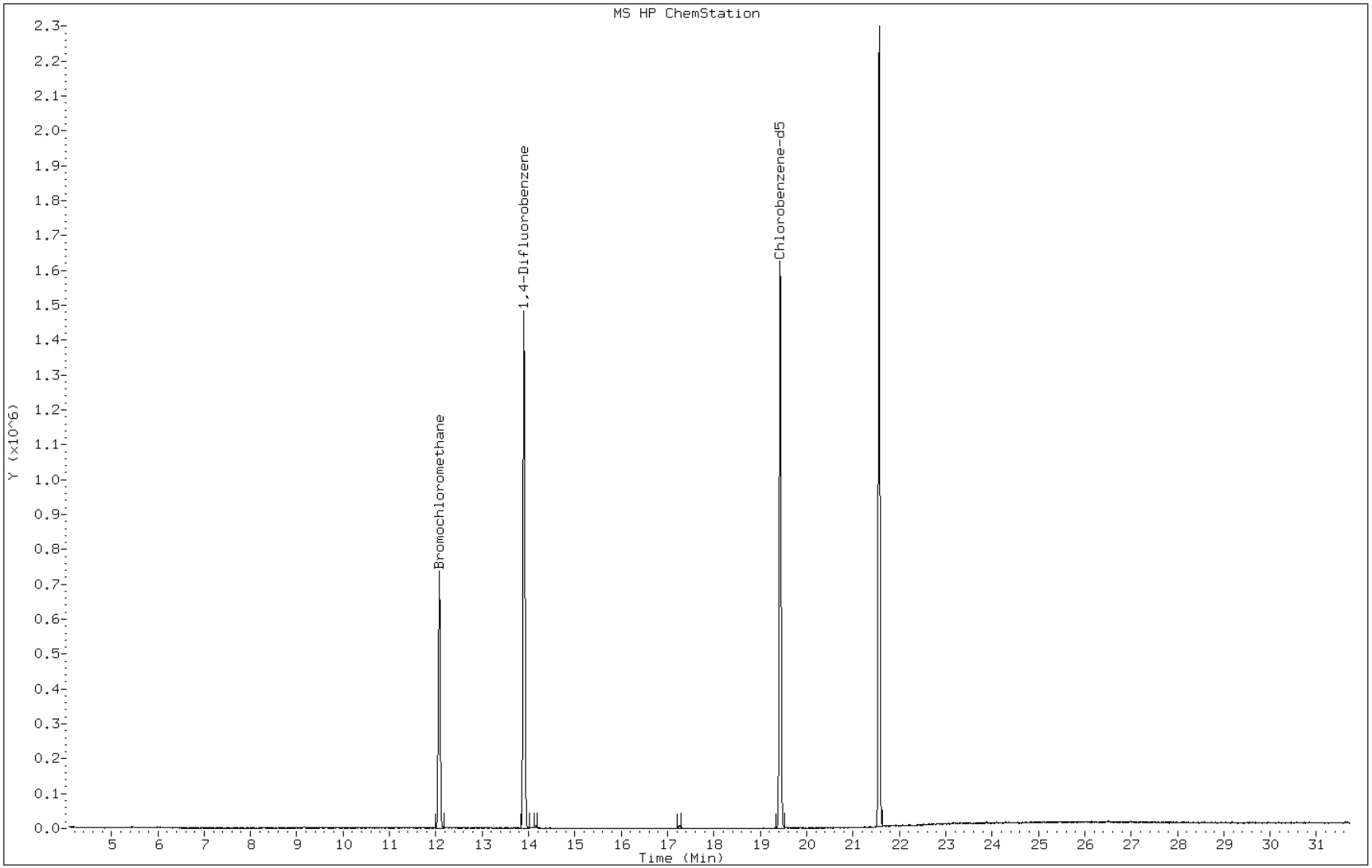
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	15 Ethanol	45	Compound Not Detected.					
	16 Ethyl ether	59	Compound Not Detected.					
	17 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
	18 Acrolein	56	Compound Not Detected.					
	19 1,1-Dichloroethene	96	Compound Not Detected.					
	20 Acetone	43	Compound Not Detected.					
	21 Carbon disulfide	76	Compound Not Detected.					
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	24 Acetonitrile	41	Compound Not Detected.					
	25 Methylene chloride	49	9.155	9.177	(0.758)	2660	0.08578	0.086(a)
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	29 Acrylonitrile	53	Compound Not Detected.					
	30 n-Hexane	57	Compound Not Detected.					
	31 1,1-Dichloroethane	63	Compound Not Detected.					
	32 Vinyl acetate	43	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.					
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.					
	35 Ethyl acetate	88	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	Compound Not Detected.					
*	37 Bromochloromethane	128	12.074	12.096	(1.000)	330131	10.0000	
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	Compound Not Detected.					
	40 Cyclohexane	84	Compound Not Detected.					
	41 1,1,1-Trichloroethane	97	Compound Not Detected.					
	42 Carbon tetrachloride	117	Compound Not Detected.					
	43 2,2,4-Trimethylpentane	57	Compound Not Detected.					
	44 Benzene	78	Compound Not Detected.					
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	13.900	13.921	(1.000)	1904315	10.0000	
	48 n-Butanol	56	Compound Not Detected.					
	49 Trichloroethene	95	Compound Not Detected.					
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	52 Dibromomethane	174	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	Compound Not Detected.					
	57 n-Octane	43	Compound Not Detected.					
	58 Toluene	92	Compound Not Detected.					
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	19.429	19.450	(1.000)	1639208	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	67 n-Nonane	57	Compound Not Detected.					
	68 Ethylbenzene	91	Compound Not Detected.					
	69 Xylene (m,p)	106	Compound Not Detected.					
M	70 Xylenes, Total	106	Compound Not Detected.					
	71 Xylene (o)	106	Compound Not Detected.					
	72 Styrene	104	Compound Not Detected.					
	73 Bromoform	173	Compound Not Detected.					
	74 Isopropylbenzene	105	Compound Not Detected.					
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	76 n-Propylbenzene	91	Compound Not Detected.					
	77 1,2,3-Trichloropropane	75	Compound Not Detected.					
	78 n-Decane	57	Compound Not Detected.					
	79 4-Ethyltoluene	105	Compound Not Detected.					
	80 2-Chlorotoluene	91	Compound Not Detected.					
	81 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	82 Alpha Methyl Styrene	118	Compound Not Detected.					
	83 tert-butylbenzene	119	Compound Not Detected.					
	84 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	85 sec-Butylbenzene	105	Compound Not Detected.					
	86 4-Isopropyltoluene	119	Compound Not Detected.					
	87 1,3-Dichlorobenzene	146	Compound Not Detected.					
	88 1,4-Dichlorobenzene	146	Compound Not Detected.					
	89 Benzyl chloride	91	Compound Not Detected.					
	90 Undecane	57	Compound Not Detected.					
	91 n-Butylbenzene	91	Compound Not Detected.					
	92 1,2-Dichlorobenzene	146	Compound Not Detected.					
	93 Dodecane	57	Compound Not Detected.					
	94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
	96 Naphthalene	128	Compound Not Detected.					
	97 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File:	ckzj004.d	Date:	28-AUG-2012 14:34
Client ID:		Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	mb		
Lab Sample ID:	mb		



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Client Sample ID: Lab Sample ID: LCS 200-44151/3

Matrix: Air Lab File ID: ckzj003.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 08/28/2012 13:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 44151 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	10.5		0.50	0.020
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	10.2		0.20	0.020
74-87-3	Chloromethane	50.49	9.84		0.50	0.034
75-01-4	Vinyl chloride	62.50	9.74		0.20	0.0091
106-99-0	1,3-Butadiene	54.09	10.2		0.20	0.025
74-83-9	Bromomethane	94.94	9.70		0.20	0.027
75-00-3	Chloroethane	64.52	9.55		0.50	0.033
75-69-4	Trichlorofluoromethane	137.37	10.4		0.20	0.021
75-35-4	1,1-Dichloroethene	96.94	10.8		0.20	0.086
67-64-1	Acetone	58.08	10.9		5.0	0.40
67-63-0	Isopropyl alcohol	60.10	10.6		5.0	0.076
75-15-0	Carbon disulfide	76.14	10.1		0.50	0.020
75-09-2	Methylene Chloride	84.93	10.2		0.50	0.023
1634-04-4	Methyl tert-butyl ether	88.15	10.8		0.20	0.015
156-60-5	trans-1,2-Dichloroethene	96.94	9.92		0.20	0.023
110-54-3	n-Hexane	86.17	9.76		0.20	0.020
75-34-3	1,1-Dichloroethane	98.96	9.84		0.20	0.023
78-93-3	Methyl Ethyl Ketone	72.11	10.4		0.50	0.025
156-59-2	cis-1,2-Dichloroethene	96.94	9.87		0.20	0.084
67-66-3	Chloroform	119.38	10.1		0.20	0.024
109-99-9	Tetrahydrofuran	72.11	10.1		5.0	0.029
71-55-6	1,1,1-Trichloroethane	133.41	10.3		0.20	0.020
110-82-7	Cyclohexane	84.16	9.77		0.20	0.019
56-23-5	Carbon tetrachloride	153.81	10.2		0.20	0.013
71-43-2	Benzene	78.11	9.47		0.20	0.018
107-06-2	1,2-Dichloroethane	98.96	10.4		0.20	0.018
142-82-5	n-Heptane	100.21	9.48		0.20	0.017
79-01-6	Trichloroethene	131.39	9.68		0.20	0.0092
78-87-5	1,2-Dichloropropane	112.99	9.41		0.20	0.023
75-27-4	Bromodichloromethane	163.83	10.7		0.20	0.012
10061-01-5	cis-1,3-Dichloropropene	110.97	9.89		0.20	0.013
108-10-1	methyl isobutyl ketone	100.16	11.0		0.50	0.034
108-88-3	Toluene	92.14	9.79		0.20	0.014
10061-02-6	trans-1,3-Dichloropropene	110.97	10.5		0.20	0.015
79-00-5	1,1,2-Trichloroethane	133.41	9.14		0.20	0.016

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Client Sample ID: Lab Sample ID: LCS 200-44151/3

Matrix: Air Lab File ID: ckzj003.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 08/28/2012 13:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 44151 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	165.83	9.87		0.20	0.015
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	10.7		0.50	0.040
124-48-1	Dibromochloromethane	208.29	11.0		0.20	0.011
106-93-4	1,2-Dibromoethane	187.87	9.89		0.20	0.014
108-90-7	Chlorobenzene	112.30	9.65		0.20	0.013
100-41-4	Ethylbenzene	106.17	9.82		0.20	0.015
179601-23-1	m,p-Xylene	106.17	20.0		0.50	0.022
95-47-6	Xylene, o-	106.17	9.94		0.20	0.016
1330-20-7	Xylene (total)	106.17	29.9		0.20	0.016
100-42-5	Styrene	104.15	10.5		0.20	0.011
75-25-2	Bromoform	252.75	11.3		0.20	0.0072
98-82-8	Cumene	120.19	10.2		0.20	0.011
79-34-5	1,1,2,2-Tetrachloroethane	167.85	9.34		0.20	0.011
103-65-1	n-Propylbenzene	120.19	10.3		0.20	0.013
622-96-8	4-Ethyltoluene	120.20	10.8		0.20	0.015
108-67-8	1,3,5-Trimethylbenzene	120.20	10.0		0.20	0.019
95-63-6	1,2,4-Trimethylbenzene	120.20	10.1		0.20	0.021
541-73-1	1,3-Dichlorobenzene	147.00	10.2		0.20	0.019
106-46-7	1,4-Dichlorobenzene	147.00	10.3		0.20	0.018
100-44-7	Benzyl chloride	126.58	10.9		0.20	0.022
95-50-1	1,2-Dichlorobenzene	147.00	10.1		0.20	0.026
120-82-1	1,2,4-Trichlorobenzene	181.45	11.9		0.50	0.030
87-68-3	Hexachlorobutadiene	260.76	11.6		0.20	0.029

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/ckzjto15.b/ckzj003.d
Lab Smp Id: lcs 370622
Inj Date : 28-AUG-2012 13:41
Operator : wrd Inst ID: C.i
Smp Info : lcs 370622
Misc Info : 200,1,lcs
Comment :
Method : /chem/C.i/Csvr.p/ckzjto15.b/to15v5.m
Meth Date : 29-Aug-2012 13:08 klp Quant Type: ISTD
Cal Date : 15-AUG-2012 08:24 Cal File: ckz015.d
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
1 Propene	41	4.208	4.208	(0.348)	220331	9.69129	9.7
2 Dichlorodifluoromethane	85	4.299	4.304	(0.356)	1010603	10.4972	10
3 Chlorodifluoromethane	51	4.357	4.363	(0.361)	497141	10.2468	10
4 1,2-Dichloro-1,1,2,2-tetraflu	85	4.645	4.651	(0.385)	1002025	10.2148	10
5 Chloromethane	50	4.806	4.811	(0.398)	264118	9.83773	9.8
6 Butane	43	5.072	5.078	(0.420)	469140	9.87936	9.9
7 Vinyl chloride	62	5.115	5.121	(0.423)	324790	9.74473	9.7
8 1,3-Butadiene	54	5.211	5.217	(0.431)	245543	10.1833	10
9 Bromomethane	94	6.001	6.012	(0.497)	310768	9.70030	9.7
10 Chloroethane	64	6.273	6.284	(0.519)	159592	9.54714	9.5
11 2-Methylbutane	43	6.391	6.396	(0.529)	336369	9.30082	9.3
12 Vinyl bromide	106	6.716	6.727	(0.556)	348290	10.1863	10
13 Trichlorofluoromethane	101	6.850	6.860	(0.567)	1057396	10.4142	10
14 Pentane	43	7.020	7.026	(0.581)	520120	9.42278	9.4

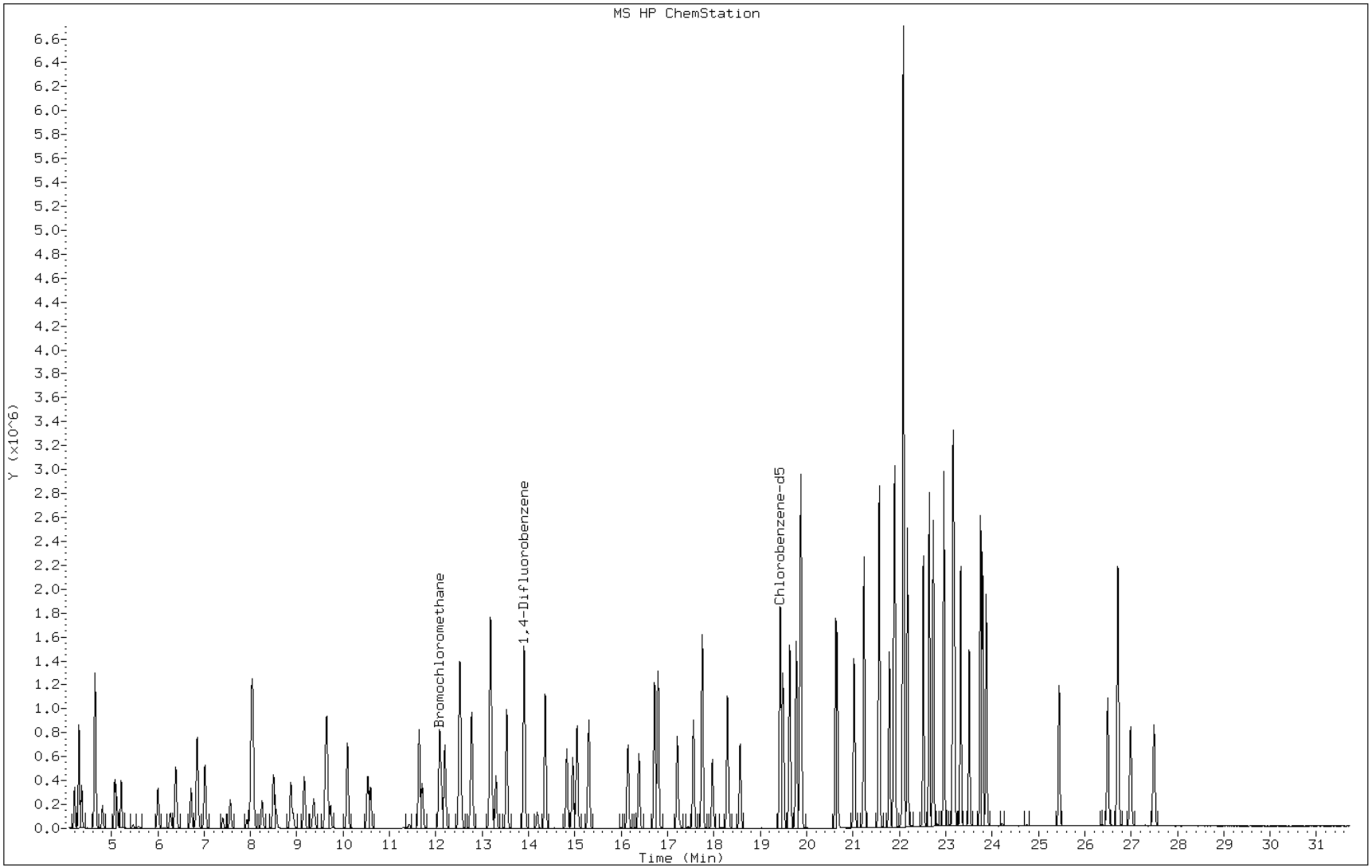
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	15 Ethanol	45	7.405	7.426	(0.613)	132044	16.0662	16
	16 Ethyl ether	59	7.565	7.581	(0.626)	208749	9.93311	9.9
	17 1,1,2-Trichloro-1,2,2-trifluo	101	8.024	8.034	(0.664)	763714	10.7575	11
	18 Acrolein	56	7.922	7.938	(0.656)	85971	8.66825	8.7
	19 1,1-Dichloroethene	96	8.056	8.072	(0.667)	359553	10.7845	11
	20 Acetone	43	8.248	8.269	(0.683)	422213	10.9357	11
	21 Carbon disulfide	76	8.499	8.509	(0.704)	940974	10.0541	10
	22 Isopropanol	45	8.552	8.573	(0.708)	286811	10.5733	11
	23 Allyl chloride	41	8.867	8.883	(0.734)	394552	10.0024	10(M)
	24 Acetonitrile	41	8.915	8.942	(0.738)	165672	10.4272	10(M)
	25 Methylene chloride	49	9.160	9.177	(0.758)	335712	10.1931	10
	26 Tert-butyl alcohol	59	9.363	9.390	(0.775)	458853	11.1209	11
	27 Methyl tert-butyl ether	73	9.625	9.641	(0.797)	1004944	10.8282	11
	28 1,2-Dichloroethene (trans)	61	9.651	9.668	(0.799)	486715	9.92035	9.9
	29 Acrylonitrile	53	9.726	9.748	(0.805)	198960	10.5033	11
	30 n-Hexane	57	10.089	10.105	(0.835)	518019	9.76220	9.8
	31 1,1-Dichloroethane	63	10.532	10.548	(0.872)	620381	9.83636	9.8
	32 Vinyl acetate	43	10.591	10.607	(0.877)	700658	10.5570	11
M	33 1,2-Dichloroethene,Total	61				874203	19.7947	20
	34 1,2-Dichloroethene (cis)	96	11.637	11.653	(0.963)	387488	9.87430	9.9
	35 Ethyl acetate	88	11.706	11.728	(0.969)	30008	10.3405	10
	36 Methyl Ethyl Ketone	72	11.653	11.674	(0.965)	151862	10.3519	10(Q)
*	37 Bromochloromethane	128	12.080	12.096	(1.000)	350635	10.0000	
	38 Tetrahydrofuran	42	12.117	12.139	(0.871)	308408	10.0540	10
	39 Chloroform	83	12.197	12.213	(1.010)	793333	10.1283	10
	40 Cyclohexane	84	12.533	12.544	(0.901)	534690	9.76915	9.8
	41 1,1,1-Trichloroethane	97	12.512	12.528	(0.900)	914070	10.2624	10
	42 Carbon tetrachloride	117	12.774	12.784	(0.919)	962631	10.2367	10
	43 2,2,4-Trimethylpentane	57	13.190	13.201	(0.949)	1636876	9.51045	9.5
	44 Benzene	78	13.174	13.190	(0.947)	1094475	9.47046	9.5
	45 1,2-Dichloroethane	62	13.297	13.318	(0.956)	541787	10.4227	10
	46 n-Heptane	43	13.526	13.542	(0.973)	582996	9.47778	9.5
*	47 1,4-Difluorobenzene	114	13.905	13.921	(1.000)	1951281	10.0000	
	48 n-Butanol	56	14.188	14.209	(1.020)	114528	10.1403	10
	49 Trichloroethene	95	14.359	14.375	(1.033)	526753	9.68496	9.7
	50 1,2-Dichloropropane	63	14.823	14.844	(1.066)	361484	9.40641	9.4
	51 Methyl methacrylate	69	14.951	14.972	(1.075)	333845	10.1751	10
	52 Dibromomethane	174	15.047	15.069	(1.082)	521333	10.4769	10
	53 1,4-Dioxane	88	15.020	15.042	(1.080)	130156	9.50813	9.5
	54 Bromodichloromethane	83	15.298	15.319	(1.100)	907182	10.6667	11
	55 1,3-Dichloropropene (cis)	75	16.146	16.163	(1.161)	624560	9.89254	9.9
	56 Methyl isobutyl ketone	43	16.381	16.408	(1.178)	598427	10.9676	11
	57 n-Octane	43	16.792	16.808	(1.208)	811198	9.77531	9.8
	58 Toluene	92	16.718	16.734	(0.860)	862811	9.78517	9.8
	59 1,3-Dichloropropene (trans)	75	17.209	17.230	(1.238)	655752	10.4790	10
	60 1,1,2-Trichloroethane	83	17.561	17.577	(0.904)	363420	9.13660	9.1
	61 Tetrachloroethene	166	17.748	17.764	(0.913)	820572	9.87037	9.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	62 2-Hexanone	43	17.966	17.993	(0.925)	548984	10.6886	11
	63 Dibromochloromethane	129	18.292	18.313	(0.941)	959610	10.9688	11
	64 1,2-Dibromoethane	107	18.564	18.586	(0.955)	760882	9.88770	9.9
*	65 Chlorobenzene-d5	117	19.429	19.450	(1.000)	1839271	10.0000	
	66 Chlorobenzene	112	19.487	19.509	(1.003)	1232438	9.65392	9.7
	67 n-Nonane	57	19.776	19.792	(1.018)	790251	9.78866	9.8
	68 Ethylbenzene	91	19.637	19.653	(1.011)	1821591	9.82154	9.8
	69 Xylene (m,p)	106	19.872	19.893	(1.023)	1545421	20.0006	20
M	70 Xylenes, Total	106				2289069	29.9413	30
	71 Xylene (o)	106	20.629	20.646	(1.062)	743648	9.94068	9.9
	72 Styrene	104	20.662	20.678	(1.063)	1106215	10.4566	10
	73 Bromoform	173	21.024	21.041	(1.082)	962415	11.3466	11
	74 Isopropylbenzene	105	21.238	21.254	(1.093)	2184785	10.1530	10
	75 1,1,2,2-Tetrachloroethane	83	21.782	21.798	(1.121)	909164	9.33952	9.3
	76 n-Propylbenzene	91	21.905	21.916	(1.127)	2468752	10.2681	10
	77 1,2,3-Trichloropropane	75	21.884	21.900	(1.126)	788687	10.0191	10
	78 n-Decane	57	22.081	22.097	(1.137)	971996	10.6110	11
	79 4-Ethyltoluene	105	22.081	22.092	(1.137)	2260019	10.8488	11
	80 2-Chlorotoluene	91	22.086	22.103	(1.137)	1859495	10.4223	10
	81 1,3,5-Trimethylbenzene	105	22.177	22.193	(1.141)	1811541	10.0262	10
	82 Alpha Methyl Styrene	118	22.519	22.535	(1.159)	937503	11.1204	11
	83 tert-butylbenzene	119	22.647	22.658	(1.166)	1878289	10.3396	10
	84 1,2,4-Trimethylbenzene	105	22.732	22.748	(1.170)	1767891	10.1138	10
	85 sec-Butylbenzene	105	22.962	22.972	(1.182)	2630008	10.3026	10
	86 4-Isopropyltoluene	119	23.159	23.170	(1.192)	2342776	10.8093	11
	87 1,3-Dichlorobenzene	146	23.186	23.202	(1.193)	1260114	10.2345	10
	88 1,4-Dichlorobenzene	146	23.325	23.335	(1.201)	1225468	10.2780	10
	89 Benzyl chloride	91	23.506	23.522	(1.210)	1403664	10.8553	11
	90 Undecane	57	23.789	23.805	(1.224)	971245	11.4385	11
	91 n-Butylbenzene	91	23.752	23.768	(1.222)	1833246	11.2551	11
	92 1,2-Dichlorobenzene	146	23.874	23.890	(1.229)	1158214	10.1150	10
	93 Dodecane	57	25.449	25.465	(1.310)	554672	11.4228	11
	94 1,2,4-Trichlorobenzene	180	26.495	26.516	(1.364)	610596	11.9368	12
	95 1,3-Hexachlorobutadiene	225	26.719	26.735	(1.375)	756878	11.5568	12
	96 Naphthalene	128	26.991	27.012	(1.389)	1251660	12.3154	12
	97 1,2,3-Trichlorobenzene	180	27.498	27.514	(1.415)	538169	13.6414	14(R)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File:	ckzj003.d	Date:	28-AUG-2012 13:41
Client ID:		Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	lcs 370622		
Lab Sample ID:	lcs 370622		



GC/MS Air Instrument Run Log

Sequence			Standard Traceability	Instrument Information
Target Batch ID: CK2	Start Date: 8/14/12	Time: 1628	ISTD Container ID: 248052	Instrument ID: C
Test Method: TO15	End Date: 8/15/12	Time: 1628	CCV Container ID: see comment	Instrument: 5973
ICAL Date: 8/14/12			ICV/LCS Container ID: see comment	Column Type: RTX-624

Analyst / Supervisor Signature(s): *Insert signature when specified as project requirement. Otherwise leave this section blank.*

Mark Phillips MTP — Angela H. Keene AHK — William D. [illegible] WDD

Mark Phillips — Angela H. Keene — William D. [illegible]

Sequence Information								Individual Sample Review			
Injection Time	GC/MS File Name	Summa Can ID	TALS Sample ID	Dilution Factor	Inlet #	Volume (mL)	Operator	Internal Std.	Result Conc.	Primary Anal.	Comments
1628	CK2 01	NA	BFB	NA	NA	NA	WDD	NA	✓		
1721	CK2 02	4632	viblk		1	200		✓	—	AHK	
1813	03	3142	IC level 8		2	40		✓	✓		376683
1907	04	3142	IC level 1		2	200		✓	✓		376683
2000	05	3611	IC level 2		3			✓	✓		376702
2053	06	3639	IC level 3		4			✓	✓		370619
2147	07	4233	IC level 4		5			✓	✓		370617 Do not use
2241	08	3084	IC level 5		6		AHK	✓	✓		370603
2334	09	4943	IC level 6		7			✓	✓	WDD	370601
0028	10	3649	IC level 7		8			✓	✓		370600
0122	11	4632	viblk		1						
0215	12	2518	ICV		9						370624
0308	13	2518	LCS		9						370624
0401	14	4632	MB		1						
0824	15	3642	ICS level 4	NA	5	200	WDD	✓	✓		370604
0922	16	2518	[illegible] ICS		9						370624 Do not use
1016	17	4632	VIBLK		1						
1109	18	3482	ICV		9			✓	✓		370622

Legend: C=Complete • R=Reanalyze • ↑ = High • ↓= Low • ✓=Reviewed and Acceptable

BRFAI020:03.21.12:6
TestAmerica Burlington

6 of 101

Page 206 of 258

#44157

GC/MS Air Instrument Run Log

Sequence	Standard Traceability	Instrument Information
Target Batch ID: CK2J Start Date: 8/28/12 Time: 1154	ISTD Container ID: 248052	Instrument ID: C
Test Method: TO15 End Date: 8/29/12 Time: 1154	CCV Container ID: 380696	Instrument: 5973
ICAL Date: 43490	ICV/LCS Container ID: 370622	Column Type: RTX-624

Analyst / Supervisor Signature(s): *Insert signature when specified as project requirement. Otherwise leave this section blank.*

Sequence Information								Individual Sample Review			
Injection Time	GC/MS File Name	Summa Can ID	TALS Sample ID	Dilution Factor	Inlet #	Volume (mL)	Operator	Internal Std.	Result Conc.	Primary Anal.	Comments
1154	CK2J001	BBS	NA	NA	NA	NA	WRD	NA	NA	WRD	
1248	02	CCV	3570	1	1	200		NA	✓		AG
1341	03	LCS	3482		2			✓	✓		AG
1434	04	MB	4633		3			✓	✓		
1529	05	3438	12285-1	0.2	4	1000		✓	✓		
1623	06	4782	12426-4	0.2	5	1000		✓	✓		
1716	07	4485	12362-4	1	6	200		✓	✓		C
1810	08	2978	-5	1	7			✓	✓		C
1903	09	5348	-6	1	8			✓	✓		C
1957	10	BG	12439-1	1	9	200		✓	✓		C
2057	11	BG	-2	.5	10	40		✓	✓		C TIC, ICM
2144	12	3150	12425-1	1	11	200		✓	✓		C
2238	13	3527	12448-1	1	12	200		✓	✓		C
2332	14	4305	-3		13			✓	✓		C
0025	15	3666	-3		14			✓	✓		C
0119	16	4776	-4		15			✓	✓		C
0212	17	3079	24381-1	1	16	200		✓	✓		C
0306	18	5112	12417-04	1	1	200	AHL	✓	✓		C
0400	19	5043	12427-12	0.2	2	1000		✓	✓		
0454	20	3686	12424-01	10.0	3	84		✓	✓ ↑		CDF 4.46
0547	21	3686		23.5	3	38		✓	✓ DL		CDF 4.46 C
0641	22	5087	450-6252-01	3.70	4	54		✓	✓		C
0735	23	3072	-02	1	5	200		✓	✓		C
0828	24	4792	12423-01	15.5	6	51		✓	✓		CDF 3.96 C
0922	25	5111	12422-01	1	7	200		✓	✓		C
1016	26	2606	-02	1	8			✓	✓		C
1109	27	3471	-03	1	9			✓	✓		C

8/29/12

Legend: C=Complete • R=Reanalyze • ↑ = High • ↓= Low • ✓=Reviewed and Acceptable

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Instrument ID: C.i Start Date: 08/14/2012 16:28

Analysis Batch Number: 43490 End Date: 08/15/2012 11:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-43490/1		08/14/2012 16:28	1	ckz001.d	RTX-624 0.32(mm)
VIBLK 200-43490/2		08/14/2012 17:21	1		RTX-624 0.32(mm)
IC 200-43490/3		08/14/2012 18:13	1	ckz003.d	RTX-624 0.32(mm)
IC 200-43490/4		08/14/2012 19:07	1	ckz004.d	RTX-624 0.32(mm)
IC 200-43490/5		08/14/2012 20:00	1	ckz005.d	RTX-624 0.32(mm)
IC 200-43490/6		08/14/2012 20:53	1	ckz006.d	RTX-624 0.32(mm)
ZZZZZ		08/14/2012 21:47	1		RTX-624 0.32(mm)
IC 200-43490/8		08/14/2012 22:41	1	ckz008.d	RTX-624 0.32(mm)
IC 200-43490/9		08/14/2012 23:34	1	ckz009.d	RTX-624 0.32(mm)
IC 200-43490/10		08/15/2012 00:28	1	ckz010.d	RTX-624 0.32(mm)
VIBLK 200-43490/11		08/15/2012 01:22	1		RTX-624 0.32(mm)
ZZZZZ		08/15/2012 02:15	1		RTX-624 0.32(mm)
ZZZZZ		08/15/2012 03:08	1		RTX-624 0.32(mm)
ZZZZZ		08/15/2012 04:02	1		RTX-624 0.32(mm)
ICIS 200-43490/15		08/15/2012 08:24	1	ckz015.d	RTX-624 0.32(mm)
ZZZZZ		08/15/2012 09:22	1		RTX-624 0.32(mm)
VIBLK 200-43490/17		08/15/2012 10:16	1		RTX-624 0.32(mm)
ICV 200-43490/18		08/15/2012 11:09	1	ckz018.d	RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12423-1

SDG No.: 200-12423

Instrument ID: C.i Start Date: 08/28/2012 11:54

Analysis Batch Number: 44151 End Date: 08/29/2012 11:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-44151/1		08/28/2012 11:54	1	ckzj001.d	RTX-624 0.32(mm)
CCVIS 200-44151/2		08/28/2012 12:48	1	ckzj002.d	RTX-624 0.32(mm)
LCS 200-44151/3		08/28/2012 13:41	1	ckzj003.d	RTX-624 0.32(mm)
MB 200-44151/4		08/28/2012 14:34	1	ckzj004.d	RTX-624 0.32(mm)
ZZZZZ		08/28/2012 15:29	0.2		RTX-624 0.32(mm)
ZZZZZ		08/28/2012 16:23	0.2		RTX-624 0.32(mm)
ZZZZZ		08/28/2012 17:16	1		RTX-624 0.32(mm)
ZZZZZ		08/28/2012 18:10	1		RTX-624 0.32(mm)
ZZZZZ		08/28/2012 19:03	1		RTX-624 0.32(mm)
ZZZZZ		08/28/2012 19:57	1		RTX-624 0.32(mm)
ZZZZZ		08/28/2012 20:51	5		RTX-624 0.32(mm)
ZZZZZ		08/28/2012 21:44	1		RTX-624 0.32(mm)
ZZZZZ		08/28/2012 22:38	1		RTX-624 0.32(mm)
ZZZZZ		08/28/2012 23:32	1		RTX-624 0.32(mm)
ZZZZZ		08/29/2012 00:25	1		RTX-624 0.32(mm)
ZZZZZ		08/29/2012 01:19	1		RTX-624 0.32(mm)
ZZZZZ		08/29/2012 02:12	1		RTX-624 0.32(mm)
ZZZZZ		08/29/2012 03:06	1		RTX-624 0.32(mm)
ZZZZZ		08/29/2012 04:00	0.2		RTX-624 0.32(mm)
ZZZZZ		08/29/2012 04:54	10		RTX-624 0.32(mm)
ZZZZZ		08/29/2012 05:47	23.5		RTX-624 0.32(mm)
ZZZZZ		08/29/2012 06:41	3.7		RTX-624 0.32(mm)
ZZZZZ		08/29/2012 07:35	1		RTX-624 0.32(mm)
200-12423-1	AS-EFF-120822	08/29/2012 08:28	15.5	ckzj024.d	RTX-624 0.32(mm)
ZZZZZ		08/29/2012 09:22	1		RTX-624 0.32(mm)
ZZZZZ		08/29/2012 10:16	1		RTX-624 0.32(mm)
ZZZZZ		08/29/2012 11:09	1		RTX-624 0.32(mm)

TO-15

Post-Sampling Air Canister Pressure Check Record

Client ID	TALS Job	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gague ID	Analyst
Arrowhead	12423	8/27/12	12:15	29.3	21	G4	SLD

Sampling Information and Return Equipment Check	Yes	No	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?	✓		
(2) Is the flow controller ID used for each canister recorded?	✓		
(3) MA MCP: Check return flow rate for flow controllers			
(4) Is visible sign of damage to canister and/or flow controller (FC) present?		✓	

If damage observed, list equipment IDs and describe condition:

Post-Sampling Return Pressure Check

Lab ID	Canister ID	Pressure[1] ("Hg)	Anomaly[2] (Y/N)	FC ID[3]	FC Return (Y/N)	Can Cert Batch ID	Comments
1	4792	-2.0	N	N/A	N	4792 CKVL	

SLD 8/27/12

[1] Criteria: Return Pressure should be between -1 and -10 ("Hg)

[2] If return pressure is not within criteria, initiate anomaly report.

[3] Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

Internal Use Only: Flow Controller Date and Page # _____

Summa Canister Dilution Worksheet

Client: Arrowhead Contracting

TestAmerica Job ID: 200-12423-1
Client: 200-12423

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Dilution Factor	Final Dilution Factor	Date		Analyst
200-12423-1	6	-2.2	0.93	5.56	39.2	3.67	22.00	3.96	3.96	08/29/12	1:58	Keene, Angela H

Formulae:

Preadjusted Volume (L) = (Preadjusted Pressure ("Hg) + 29.92 "Hg * Vol L) / 29.92 "Hg
Adjusted Volume (L) = (Adjusted Pressure (psig) + 14.7 psig * Vol L) / 14.7 psig
Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury (“Hg)
14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)
Vol = Volume of SUMMA canister at atmospheric pressure

Pre-Shipment Clean Canister Certification Report

Certification Type: ☑ Batch ☐ Individual

Canister Cleaning & Pre-Shipment Leak Test					
System ID	# Cycles	Cleaning Date	Technician	Canister Size	
Bottom	15	8/8/12	SM	6L	1L / 3L

Port	Can ID	Initial[1] ("Hg)	Final ("Hg)	Adjusted Initial[2] ("Hg)	Difference[3]
1	5020	-29.1	-29.1	-29.1	0.0
2	4794				
3	4151				
4	4305				
5	3527				
6	3666				
7	4270				
8	4792				
9	3425				
10	3706				
11	4101				
12	5117				

Leak Test			
Initial Reading		Final Reading	
Gauge ID:	G1	Gauge ID:	G1
Date:	8/9/12	Date:	8/14/12
Time:	0800	Time:	~~14~~ 1550
Tech:	SM	Tech:	SM
BP:	29.3 ("Hg)	BP:	29.3 ("Hg)
Temp	21 (°C)	Temp:	22 (°C)

[3]Acceptance Criteria:

(1) The difference must be less than or equal to + 0.5

(2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister:

PM Authorization:

Signature Date

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[2] To calculate Adjusted Initial Pressure, subtract Final BP from Initial BP and add the result (positive or negative) to the initial pressure reading.

[3] To calculate Difference, subtract the Adjusted Initial Pressure from the Final Pressure (See Acceptance Criteria)

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☐TO15 Routine ☐ TO15 LL ☐ NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Limited	Secondary Review: Review Date	Reviewer
4792	8/9/12	CKXL	WW		✓				8/9/12	RP

Inventory Level 1: Individual Canister Certification Only. Certified clean to RLs listed in laboratory SOP for LLTO15.

Inventory Level 2: Individual or Batch Certification. Certified clean to 0.04 ppbv.

Inventory Level 3: Individual or Batch Certification. Certified clean to 0.20 ppbv.

Inventory Level 4: Individual or Batch Certification. Certified clean following procedures and RLs listed in laboratory SOP NJDEP-LLTO15.

Inventory Level Limited Use: Canisters may only be used for certain projects.

Comments:

200-12139-A-8
4792
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 8/8/2012 12:00 AM 200-374735

Loc: 200
12139
#8
A

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-12139-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ckxl003.d

Lab ID: LCS 200-43123/3 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Propylene	10.0	11.4	114	70-130	
Dichlorodifluoromethane	10.0	10.0	100	70-130	
Freon 22	10.0	11.0	110	70-130	
1,2-Dichlorotetrafluoroethane	10.0	10.2	102	70-130	
Chloromethane	10.0	11.3	113	70-130	
n-Butane	10.0	10.7	107	70-130	
Vinyl chloride	10.0	10.9	109	70-130	
1,3-Butadiene	10.0	11.9	119	70-130	
Bromomethane	10.0	10.1	101	70-130	
Chloroethane	10.0	11.2	112	70-130	
Bromoethene(Vinyl Bromide)	10.0	10.5	105	70-130	
Trichlorofluoromethane	10.0	9.36	94	70-130	
Ethanol	15.0	16.1	107	70-130	
Freon TF	10.0	11.0	110	70-130	
1,1-Dichloroethene	10.0	11.7	117	70-130	
Acetone	10.0	10.4	104	70-130	
Isopropyl alcohol	10.0	10.7	107	70-130	
Carbon disulfide	10.0	11.3	113	70-130	
3-Chloropropene	10.0	12.2	122	70-130	
Methylene Chloride	10.0	11.8	118	70-130	
tert-Butyl alcohol	10.0	9.80	98	70-130	
Methyl tert-butyl ether	10.0	10.3	103	70-130	
trans-1,2-Dichloroethene	10.0	11.0	110	70-130	
n-Hexane	10.0	11.4	114	70-130	
1,1-Dichloroethane	10.0	11.1	111	70-130	
Vinyl acetate	10.0	12.1	121	70-130	
Ethyl acetate	10.0	10.6	106	70-130	
Methyl Ethyl Ketone	10.0	10.3	103	70-130	
cis-1,2-Dichloroethene	10.0	10.6	106	70-130	
Chloroform	10.0	10.1	101	70-130	
Tetrahydrofuran	10.0	12.3	123	70-130	
1,1,1-Trichloroethane	10.0	9.45	94	70-130	
Cyclohexane	10.0	10.8	108	70-130	
Carbon tetrachloride	10.0	9.04	90	70-130	
2,2,4-Trimethylpentane	10.0	11.8	118	70-130	
Benzene	10.0	10.8	108	70-130	
1,2-Dichloroethane	10.0	9.69	97	70-130	
n-Heptane	10.0	11.8	118	70-130	
Trichloroethene	10.0	9.85	99	70-130	
Methyl methacrylate	10.0	11.1	111	70-130	
1,2-Dichloropropane	10.0	11.2	112	70-130	
1,4-Dioxane	10.0	9.26	93	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-12139-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ckxl003.d

Lab ID: LCS 200-43123/3 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Bromodichloromethane	10.0	10.5	105	70-130	
cis-1,3-Dichloropropene	10.0	10.4	104	70-130	
methyl isobutyl ketone	10.0	11.6	116	70-130	
Toluene	10.0	10.6	106	70-130	
trans-1,3-Dichloropropene	10.0	10.1	101	70-130	
1,1,2-Trichloroethane	10.0	10.5	105	70-130	
Tetrachloroethene	10.0	9.32	93	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	11.9	119	70-130	
Dibromochloromethane	10.0	10.4	104	70-130	
1,2-Dibromoethane	10.0	10.2	102	70-130	
Chlorobenzene	10.0	9.97	100	70-130	
Ethylbenzene	10.0	10.5	105	70-130	
m,p-Xylene	20.0	20.8	104	70-130	
Xylene, o-	10.0	10.3	103	70-130	
Styrene	10.0	10.9	109	70-130	
Bromoform	10.0	10.0	100	70-130	
Cumene	10.0	10.3	103	70-130	
1,1,2,2-Tetrachloroethane	10.0	10.7	107	70-130	
n-Propylbenzene	10.0	10.8	108	70-130	
4-Ethyltoluene	10.0	11.0	110	70-130	
1,3,5-Trimethylbenzene	10.0	10.1	101	70-130	
2-Chlorotoluene	10.0	10.9	109	70-130	
tert-Butylbenzene	10.0	10.1	101	70-130	
1,2,4-Trimethylbenzene	10.0	9.95	99	70-130	
sec-Butylbenzene	10.0	10.4	104	70-130	
4-Isopropyltoluene	10.0	10.2	102	70-130	
1,3-Dichlorobenzene	10.0	9.19	92	70-130	
1,4-Dichlorobenzene	10.0	9.08	91	70-130	
Benzyl chloride	10.0	11.4	114	70-130	
n-Butylbenzene	10.0	10.9	109	70-130	
1,2-Dichlorobenzene	10.0	9.09	91	70-130	
1,2,4-Trichlorobenzene	10.0	8.24	82	70-130	
Hexachlorobutadiene	10.0	8.79	88	70-130	
Naphthalene	10.0	9.44	94	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12139-1

SDG No.:

Lab File ID: ckxl004.d Lab Sample ID: MB 200-43123/4

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: C.i Date Analyzed: 08/08/2012 14:37

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-43123/3	ckxl003.d	08/08/2012 13:43
4792	200-12139-8	ckxl026.d	08/09/2012 10:45

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-12139-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 200-43123/4

Matrix: Air | Lab File ID: ckxl004.d

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 08/08/2012 14:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43123 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.20	U	0.20	0.20
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.20	U	0.20	0.20
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-12139-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 200-43123/4

Matrix: Air | Lab File ID: ckxl004.d

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 08/08/2012 14:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43123 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.20	U	0.20	0.20
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12139-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-43123/4

Matrix: Air Lab File ID: ckxl004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 08/08/2012 14:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 43123 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/ckxlto15.b/ckxl004.d
Lab Smp Id: mb
Inj Date : 08-AUG-2012 14:37
Operator : wrd Inst ID: C.i
Smp Info : mb
Misc Info : 200,1, mb
Comment :
Method : /chem/C.i/Csvr.p/ckxlto15.b/to15v5.m
Meth Date : 08-Aug-2012 17:39 wrd Quant Type: ISTD
Cal Date : 19-JUL-2012 22:44 Cal File: ckx010.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
1 Propene	41	Compound Not Detected.					
2 Dichlorodifluoromethane	85	Compound Not Detected.					
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	4.827	4.827	(0.399)	1130	0.04195	0.042(a)
6 Butane	43	Compound Not Detected.					
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
11 2-Methylbutane	43	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Pentane	43	Compound Not Detected.					

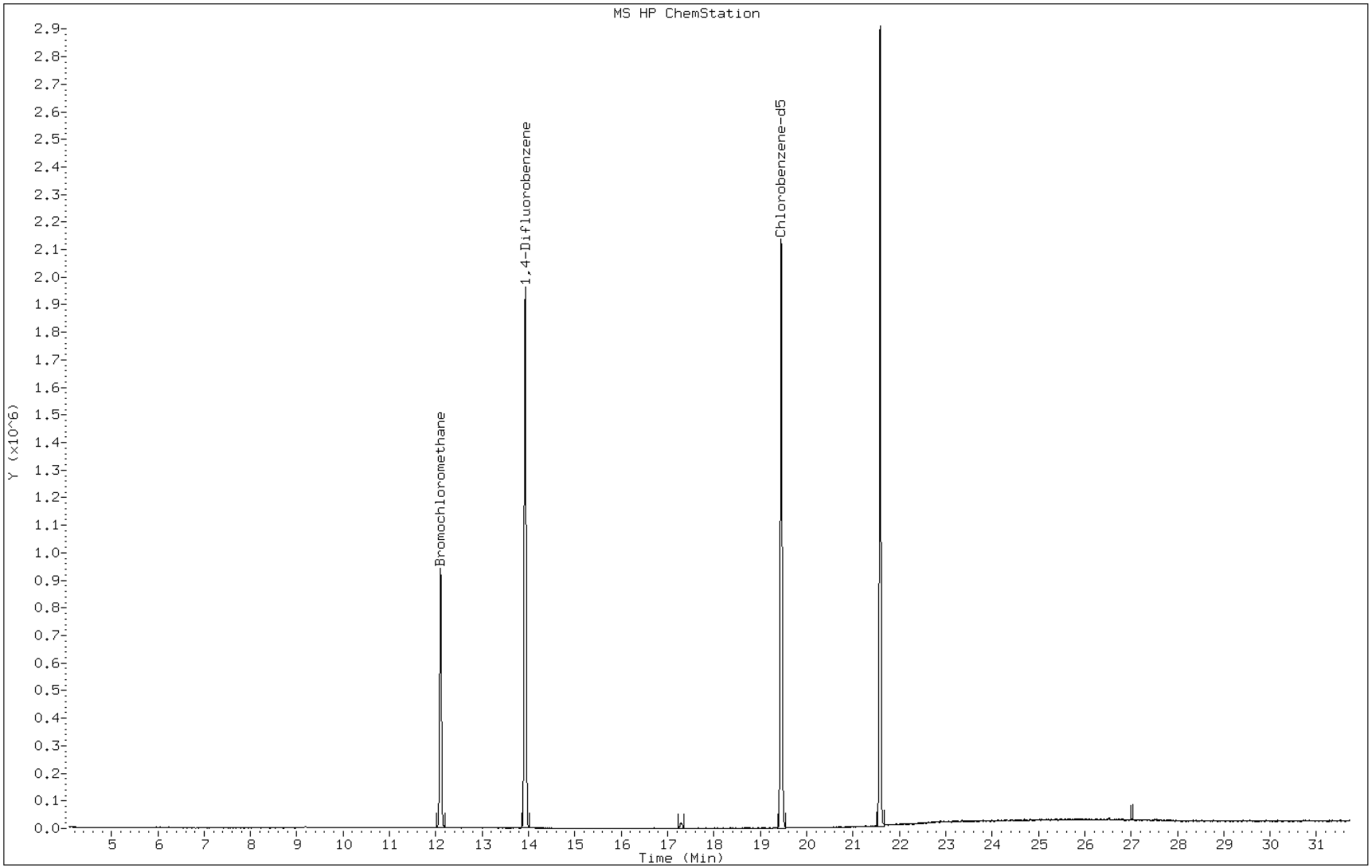
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)	
	15 Ethanol	45	Compound Not Detected.						
	16 Ethyl ether	59	Compound Not Detected.						
	17 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.						
	18 Acrolein	56	Compound Not Detected.						
	19 1,1-Dichloroethene	96	Compound Not Detected.						
	20 Acetone	43	Compound Not Detected.						
	21 Carbon disulfide	76	Compound Not Detected.						
	22 Isopropanol	45	Compound Not Detected.						
	23 Allyl chloride	41	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						
	26 Tert-butyl alcohol	59	Compound Not Detected.						
	27 Methyl tert-butyl ether	73	Compound Not Detected.						
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.						
	29 Acrylonitrile	53	Compound Not Detected.						
	30 n-Hexane	57	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						
	32 Vinyl acetate	43	Compound Not Detected.						
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.						
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.						
	35 Ethyl acetate	88	Compound Not Detected.						
	36 Methyl Ethyl Ketone	72	Compound Not Detected.						
*	37 Bromochloromethane	128	12.101	12.112	(1.000)	428408	10.0000		(Q)
	38 Tetrahydrofuran	42	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Cyclohexane	84	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 Carbon tetrachloride	117	Compound Not Detected.						
	43 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	44 Benzene	78	Compound Not Detected.						
	45 1,2-Dichloroethane	62	Compound Not Detected.						
	46 n-Heptane	43	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	13.926	13.937	(1.000)	2588840	10.0000		
	48 n-Butanol	56	Compound Not Detected.						
	49 Trichloroethene	95	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Methyl methacrylate	69	Compound Not Detected.						
	52 Dibromomethane	174	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.						
	56 Methyl isobutyl ketone	43	Compound Not Detected.						
	57 n-Octane	43	Compound Not Detected.						
	58 Toluene	92	Compound Not Detected.						
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.						
	60 1,1,2-Trichloroethane	83	Compound Not Detected.						
	61 Tetrachloroethene	166	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	19.450	19.466	(1.000)	2212562	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	67 n-Nonane	57	Compound Not Detected.					
	68 Ethylbenzene	91	Compound Not Detected.					
	69 Xylene (m,p)	106	Compound Not Detected.					
M	70 Xylenes, Total	106	Compound Not Detected.					
	71 Xylene (o)	106	Compound Not Detected.					
	72 Styrene	104	Compound Not Detected.					
	73 Bromoform	173	Compound Not Detected.					
	74 Isopropylbenzene	105	Compound Not Detected.					
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	76 n-Propylbenzene	91	Compound Not Detected.					
	77 1,2,3-Trichloropropane	75	Compound Not Detected.					
	78 n-Decane	57	Compound Not Detected.					
	79 4-Ethyltoluene	105	Compound Not Detected.					
	80 2-Chlorotoluene	91	Compound Not Detected.					
	81 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	82 Alpha Methyl Styrene	118	Compound Not Detected.					
	83 tert-butylbenzene	119	Compound Not Detected.					
	84 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	85 sec-Butylbenzene	105	Compound Not Detected.					
	86 4-Isopropyltoluene	119	Compound Not Detected.					
	87 1,3-Dichlorobenzene	146	Compound Not Detected.					
	88 1,4-Dichlorobenzene	146	Compound Not Detected.					
	89 Benzyl chloride	91	Compound Not Detected.					
	90 Undecane	57	Compound Not Detected.					
	91 n-Butylbenzene	91	Compound Not Detected.					
	92 1,2-Dichlorobenzene	146	Compound Not Detected.					
	93 Dodecane	57	Compound Not Detected.					
	94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
	96 Naphthalene	128	Compound Not Detected.					
	97 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File:	ckxl004.d	Date:	08-AUG-2012 14:37
Client ID:		Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	mb		
Lab Sample ID:	mb		



FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12139-1

SDG No.:

Lab File ID: ckx001.d BFB Injection Date: 07/19/2012

Instrument ID: C.i BFB Injection Time: 14:39

Analysis Batch No.: 42129

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	14.2	
75	30.0 - 66.0% of mass 95	45.0	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.9	
173	Less than 2.0% of mass 174	0.0	(0.0)1
174	50.0 - 120.0% of mass 95	89.2	
175	4.0 - 9.0 % of mass 174	6.4	(7.1)1
176	93.0 - 101.0% of mass 174	87.2	(97.7)1
177	5.0 - 9.0% of mass 176	5.6	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-42129/3	ckx003.d	07/19/2012	16:27
	IC 200-42129/4	ckx004.d	07/19/2012	17:21
	IC 200-42129/5	ckx005.d	07/19/2012	18:15
	IC 200-42129/6	ckx006.d	07/19/2012	19:08
	ICIS 200-42129/7	ckx007.d	07/19/2012	20:02
	IC 200-42129/8	ckx008.d	07/19/2012	20:56
	IC 200-42129/9	ckx009.d	07/19/2012	21:50
	IC 200-42129/10	ckx010.d	07/19/2012	22:44
	ICV 200-42129/12	ckx012.d	07/20/2012	00:31

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12139-1

SDG No.:

Lab File ID: ckxl001.d BFB Injection Date: 08/08/2012

Instrument ID: C.i BFB Injection Time: 11:58

Analysis Batch No.: 43123

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	13.5	
75	30.0 - 66.0% of mass 95	42.6	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.0	(0.0)1
174	50.0 - 120.0% of mass 95	84.9	
175	4.0 - 9.0 % of mass 174	6.0	(7.1)1
176	93.0 - 101.0% of mass 174	82.1	(96.8)1
177	5.0 - 9.0% of mass 176	5.3	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-43123/2	ckxl002.d	08/08/2012	12:50
	LCS 200-43123/3	ckxl003.d	08/08/2012	13:43
	MB 200-43123/4	ckxl004.d	08/08/2012	14:37
4792	200-12139-8	ckxl026.d	08/09/2012	10:45

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12139-1

SDG No.:

Sample No.: ICIS 200-42129/7 Date Analyzed: 07/19/2012 20:02

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): ckx007.d Heated Purge: (Y/N) N

Calibration ID: 16721

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		432513	12.11	2334498	13.94	2158652	19.47
UPPER LIMIT		605518	12.44	3268297	14.27	3022113	19.80
LOWER LIMIT		259508	11.78	1400699	13.61	1295191	19.14
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-42129/12		471421	12.11	2558676	13.94	2185851	19.47

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12139-1

SDG No.:

Sample No.: CCVIS 200-43123/2 Date Analyzed: 08/08/2012 12:50

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): ckxl002.d Heated Purge: (Y/N) N

Calibration ID: 16721

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		504694	12.10	2820387	13.93	2631730	19.45
UPPER LIMIT		706572	12.43	3948542	14.26	3684422	19.78
LOWER LIMIT		302816	11.77	1692232	13.60	1579038	19.12
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-43123/3		490619	12.10	2664746	13.93	2354451	19.46
MB 200-43123/4		428408	12.10	2588840	13.93	2212562	19.45
200-12139-8	4792	335422	12.10	1987943	13.93	1645334	19.45

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-12139-1

SDG No.:

Client Sample ID: 4792 | Lab Sample ID: 200-12139-8

Matrix: Air | Lab File ID: ckxl026.d

Analysis Method: TO-15 | Date Collected: 08/08/2012 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 08/09/2012 10:45

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43123 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.040	U	0.040	0.040
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-12139-1

SDG No.:

Client Sample ID: 4792 | Lab Sample ID: 200-12139-8

Matrix: Air | Lab File ID: ckxl026.d

Analysis Method: TO-15 | Date Collected: 08/08/2012 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 08/09/2012 10:45

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43123 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.040	U	0.040	0.040
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12139-1

SDG No.:

Client Sample ID: 4792 Lab Sample ID: 200-12139-8

Matrix: Air Lab File ID: ckxl026.d

Analysis Method: TO-15 Date Collected: 08/08/2012 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 08/09/2012 10:45

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 43123 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Lab Sample Id: 200-12139-8
Client Smp ID: 4792
Inj Date : 09-AUG-2012 10:45
Operator : wrd Inst ID: C.i
Smp Info : 200-12139-A-8
Misc Info : 1000,0.2,all74+mn
Comment :
Method : /chem/C.i/Csvr.p/ckxlto15.b/to15v5.m
Meth Date : 09-Aug-2012 13:02 wrd Quant Type: ISTD
Cal Date : 19-JUL-2012 22:44 Cal File: ckx010.d
Als bottle: 2
Dil Factor: 0.20000
Integrator: HP RTE Compound Sublist: all74+MN.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	0.20000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	1000.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
1 Propene	41	Compound Not Detected.					
2 Dichlorodifluoromethane	85	Compound Not Detected.					
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	4.805	4.827	(0.397)	2076	0.09843	0.020(a)
6 Butane	43	Compound Not Detected.					
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Ethanol	45	Compound Not Detected.					
17 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					

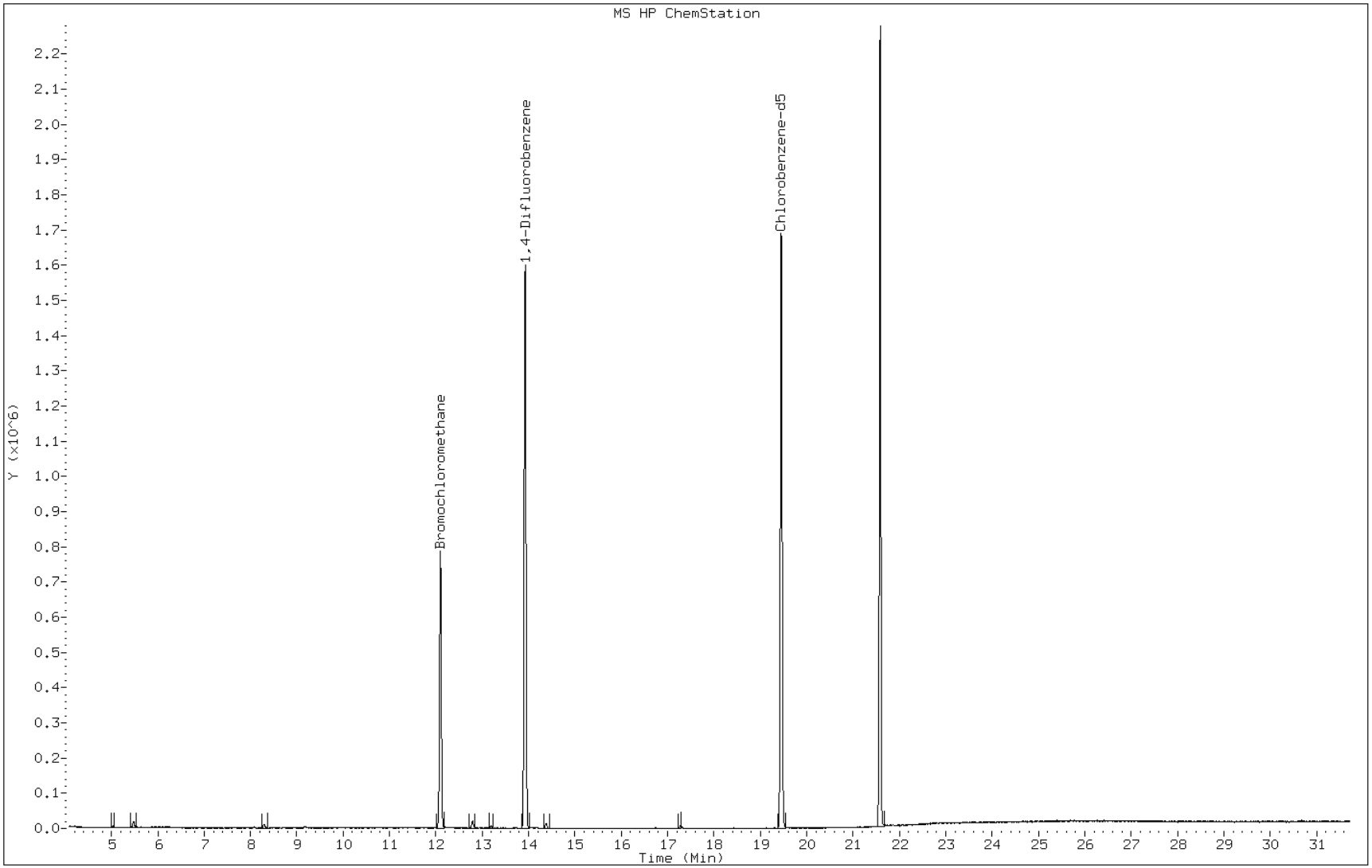
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	19 1,1-Dichloroethene	96	Compound Not Detected.					
	20 Acetone	43	8.285	8.285	(0.685)	19917	0.60695	0.12(a)
	21 Carbon disulfide	76	Compound Not Detected.					
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	25 Methylene chloride	49	Compound Not Detected.					
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	30 n-Hexane	57	Compound Not Detected.					
	31 1,1-Dichloroethane	63	Compound Not Detected.					
	32 Vinyl acetate	43	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.					
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.					
	35 Ethyl acetate	88	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	Compound Not Detected.					
*	37 Bromochloromethane	128	12.096	12.112	(1.000)	335422	10.0000	(Q)
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	Compound Not Detected.					
	40 Cyclohexane	84	Compound Not Detected.					
	41 1,1,1-Trichloroethane	97	Compound Not Detected.					
	42 Carbon tetrachloride	117	12.784	12.806	(0.918)	18720	0.18469	0.037(a)
	43 2,2,4-Trimethylpentane	57	Compound Not Detected.					
	44 Benzene	78	13.200	13.211	(0.948)	8811	0.08122	0.016(aM)
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	13.926	13.937	(1.000)	1987943	10.0000	
	49 Trichloroethene	95	14.385	14.391	(1.033)	6826	0.12336	0.025(a)
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	Compound Not Detected.					
	58 Toluene	92	Compound Not Detected.					
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	Compound Not Detected.					
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	19.450	19.466	(1.000)	1645334	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	68 Ethylbenzene	91	Compound Not Detected.					
	69 Xylene (m,p)	106	Compound Not Detected.					
M	70 Xylenes, Total	106	Compound Not Detected.					
	71 Xylene (o)	106	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
72 Styrene	104	Compound Not Detected.					
73 Bromoform	173	Compound Not Detected.					
74 Isopropylbenzene	105	Compound Not Detected.					
75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
76 n-Propylbenzene	91	Compound Not Detected.					
79 4-Ethyltoluene	105	Compound Not Detected.					
80 2-Chlorotoluene	91	Compound Not Detected.					
81 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 tert-butylbenzene	119	Compound Not Detected.					
84 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
85 sec-Butylbenzene	105	Compound Not Detected.					
86 4-Isopropyltoluene	119	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 1,4-Dichlorobenzene	146	Compound Not Detected.					
89 Benzyl chloride	91	Compound Not Detected.					
91 n-Butylbenzene	91	Compound Not Detected.					
92 1,2-Dichlorobenzene	146	Compound Not Detected.					
94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
96 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File:	ckxl026.d	Date:	09-AUG-2012 10:45
Client ID:	4792	Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	200-12139-A-8		
Lab Sample ID:	200-12139-8		



Manual Integration Report

Data File: ckxl026.d
Lab Sample ID: 200-12139-8
Inj. Date and Time: 09-AUG-2012 10:45
Instrument ID: C.i
Client ID: 4792
Compound: 44 Benzene
CAS #: 71-43-2
Report Date: 08/09/2012

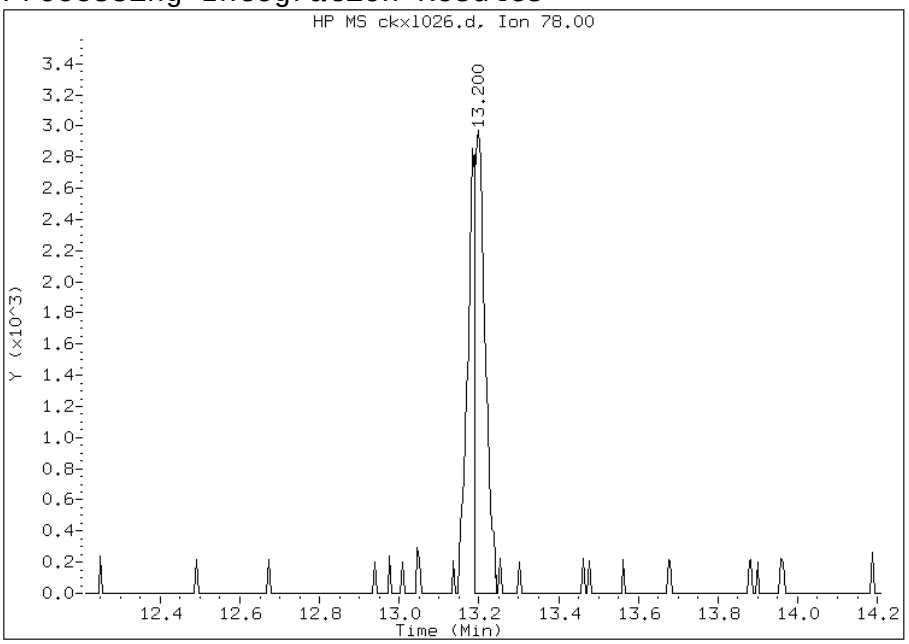
Processing Integration Results

RT: 13.20

Response: 5616

Amount: 0.051775

Conc: 0.010355



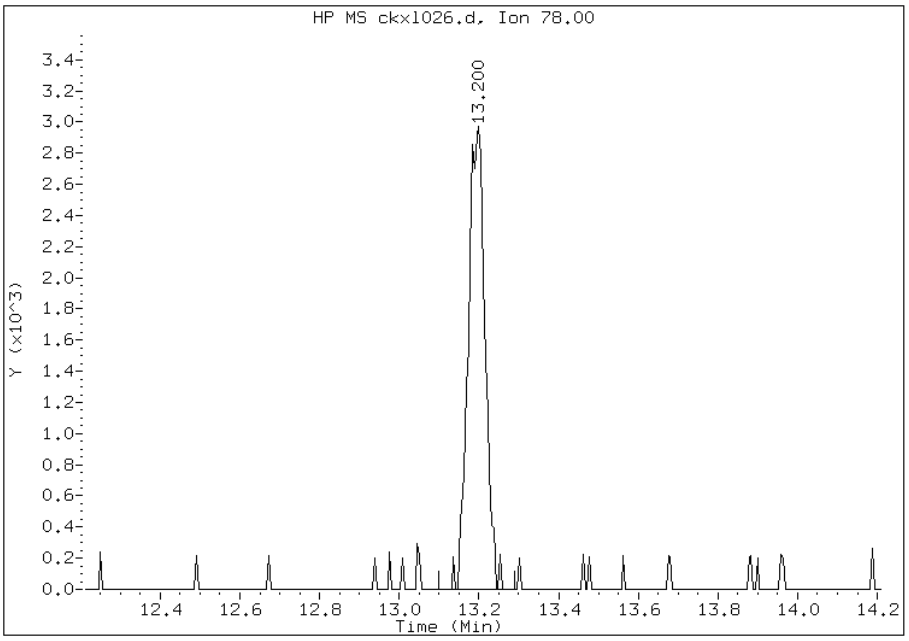
Manual Integration Results

RT: 13.20

Response: 8811

Amount: 0.081224

Conc: 0.016245



File Uploaded By: wrd
Manual Integration Reason: Baseline event

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12139-1 Analy Batch No.: 42129

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2012 16:27 Calibration End Date: 07/19/2012 22:44 Calibration ID: 16721

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-42129/3	ckx003.d
Level 2	IC 200-42129/4	ckx004.d
Level 3	IC 200-42129/5	ckx005.d
Level 4	IC 200-42129/6	ckx006.d
Level 5	ICIS 200-42129/7	ckx007.d
Level 6	IC 200-42129/8	ckx008.d
Level 7	IC 200-42129/9	ckx009.d
Level 8	IC 200-42129/10	ckx010.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Propylene	+++++ 0.4387	+++++ 0.4131	0.7449 0.3888	0.5227	0.4820	Ave		0.4984				26.1		30.0			
Dichlorodifluoromethane	+++++ 2.4655	+++++ 2.3959	2.8281 2.2716	2.7717	2.6353	Ave		2.5613				8.6		30.0			
Freon 22	+++++ 1.0902	+++++ 1.0423	1.3069 0.9906	1.2721	1.1854	Ave		1.1479				11.1		30.0			
1,2-Dichlorotetrafluoroethane	+++++ 2.5497	2.9072 2.4805	2.8326 2.3652	2.7866	2.6814	Ave		2.6576				7.5		30.0			
Chloromethane	+++++ 0.5859	+++++ 0.5646	0.7826 0.5377	0.6697	0.6324	Ave		0.6288				14.2		30.0			
n-Butane	+++++ 1.0448	+++++ 0.9787	1.6749 0.9131	1.2259	1.1023	Ave		1.1567				23.8		30.0			
1,3-Butadiene	+++++ 0.5563	0.6036 0.5328	0.5700 0.5070	0.6042	0.5840	Ave		0.5654				6.4		30.0			
Vinyl chloride	0.9619 0.7852	0.9015 0.7518	0.8516 0.7140	0.8575	0.8244	Ave		0.8310				9.7		30.0			
Bromomethane	+++++ 0.8303	0.9600 0.8183	0.8968 0.7918	0.8909	0.8595	Ave		0.8639				6.6		30.0			
Chloroethane	+++++ 0.4100	+++++ 0.4031	0.4591 0.3901	0.4469	0.4318	Ave		0.4235				6.3		30.0			
Isopentane	+++++ 0.7873	0.9777 0.7488	1.0049 0.7014	0.9109	0.8351	Ave		0.8523				13.6		30.0			
Bromoethene(Vinyl Bromide)	+++++ 0.9558	0.9988 0.9426	1.0012 0.9212	0.9858	0.9705	Ave		0.9680				3.1		30.0			
Acrolein	+++++ 0.2051	+++++ 0.2033	+++++ 0.2227	0.2501	0.2189	Ave		0.2200				8.6		30.0			
Trichlorofluoromethane	+++++ 2.8273	3.2045 2.7471	3.1426 2.6597	3.1228	2.9686	Ave		2.9532				7.2		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12139-1 Analy Batch No.: 42129

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2012 16:27 Calibration End Date: 07/19/2012 22:44 Calibration ID: 16721

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
n-Pentane	+++++ 1.2044	+++++ 1.1596	1.6656 1.0917	1.3867	1.2934	Ave		1.3002				15.9		30.0			
Isopropyl alcohol	+++++ 0.6561	+++++ 0.6432	+++++ 0.5916	0.8007	0.7184	Ave		0.6820				11.8		30.0			
Ethanol	+++++ 0.2063	+++++ 0.2000	0.2705 0.1838	0.2269	0.1979	Ave		0.2142				14.4		30.0			
Ethyl ether	+++++ 0.5170	0.5278 0.5061	0.5605 0.4898	0.5769	0.5401	Ave		0.5312				5.7		30.0			
Acetonitrile	+++++ 0.3763	+++++ 0.3723	+++++ 0.3629	0.4493	0.3949	Ave		0.3911				8.8		30.0			
Freon TF	+++++ 1.9344	2.1114 1.8906	2.1259 1.8312	2.0489	1.9959	Ave		1.9912				5.6		30.0			
tert-Butyl alcohol	+++++ 1.1041	+++++ 1.0844	+++++ 1.0170	1.3021	1.1892	Ave		1.1394				9.6		30.0			
1,1-Dichloroethene	+++++ 0.8866	1.0269 0.8758	0.8428 0.8502	0.9384	0.9198	Ave		0.9058				7.0		30.0			
Acetone	+++++ 0.9288	+++++ 0.9150	+++++ 0.8458	1.1098	1.0922	Ave		0.9783				11.9		30.0			
Ethyl acetate	+++++ 0.0780	+++++ 0.0791	+++++ 0.0774	0.0814	0.0808	Ave		0.0793				2.2		30.0			
Carbon disulfide	+++++ 2.3905	+++++ 2.3502	2.5785 2.3005	2.5466	2.4930	Ave		2.4432				4.6		30.0			
3-Chloropropene	+++++ 0.8362	0.9609 0.8048	0.9290 0.7625	0.9421	0.8556	Ave		0.8702				8.7		30.0			
Methylene Chloride	+++++ 0.7177	+++++ 0.6921	1.0674 0.6550	0.8281	0.7647	Ave		0.7875				19.0		30.0			
Methyl tert-butyl ether	+++++ 2.3984	2.6335 2.3783	2.6656 2.2860	2.6584	2.5247	Ave		2.5064				6.1		30.0			
trans-1,2-Dichloroethene	+++++ 1.1954	1.2867 1.1525	1.2987 1.1016	1.3390	1.2561	Ave		1.2329				7.0		30.0			
Acrylonitrile	+++++ 0.4429	+++++ 0.4442	0.4668 0.4356	0.4932	0.4600	Ave		0.4571				4.6		30.0			
n-Hexane	+++++ 1.2271	1.4710 1.1984	1.5026 1.1310	1.3573	1.2916	Ave		1.3113				10.6		30.0			
n-Butanol	+++++ 0.0548	+++++ 0.0561	+++++ 0.0539	0.0629	0.0535	Ave		0.0563				6.9		30.0			
1,1-Dichloroethane	+++++ 1.5137	1.6833 1.4692	1.6447 1.4080	1.6748	1.5866	Ave		1.5686				6.8		30.0			
Vinyl acetate	+++++ 1.4468	+++++ 1.4480	+++++ 1.3885	1.6529	1.5390	Ave		1.4951				6.9		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12139-1 Analy Batch No.: 42129

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2012 16:27 Calibration End Date: 07/19/2012 22:44 Calibration ID: 16721

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
cis-1,2-Dichloroethene	+++++ 1.0039	1.2622 0.9934	1.1418 0.9719	1.0646	1.0350	Ave		1.0675				9.6		30.0			
Methyl Ethyl Ketone	+++++ 0.3669	+++++ 0.3709	0.5418 0.3509	0.4039	0.3913	Ave		0.4043				17.3		30.0			
Tetrahydrofuran	+++++ 0.1206	+++++ 0.1172	+++++ 0.1154	0.1376	0.1254	Ave		0.1232				7.2		30.0			
Chloroform	+++++ 2.0352	2.3046 1.9896	2.2466 1.9202	2.2369	2.1296	Ave		2.1233				6.9		30.0			
1,1,1-Trichloroethane	+++++ 0.4516	0.4873 0.4409	0.4697 0.4426	0.4831	0.4611	Ave		0.4623				4.0		30.0			
Cyclohexane	+++++ 0.2639	0.2832 0.2574	0.2747 0.2559	0.2729	0.2659	Ave		0.2677				3.7		30.0			
Benzene	+++++ 0.5273	0.6171 0.5179	0.5589 0.5064	0.5551	0.5369	Ave		0.5457				6.7		30.0			
2,2,4-Trimethylpentane	+++++ 0.7277	0.7893 0.7068	0.7807 0.6844	0.7802	0.7413	Ave		0.7444				5.5		30.0			
1,2-Dichloroethane	+++++ 0.2468	0.2773 0.2367	0.2685 0.2350	0.2705	0.2552	Ave		0.2557				6.6		30.0			
n-Heptane	+++++ 0.2358	0.3006 0.2286	0.2792 0.2208	0.2643	0.2491	Ave		0.2541				11.4		30.0			
Carbon tetrachloride	0.5422 0.5044	0.5047 0.4956	0.4933 0.5052	0.5225	0.5111	Ave		0.5099				3.1		30.0			
1,2-Dichloropropane	+++++ 0.1627	0.1745 0.1602	0.1761 0.1586	0.1759	0.1661	Ave		0.1677				4.5		30.0			
Methyl methacrylate	+++++ 0.1536	+++++ 0.1587	0.1295 0.1617	0.1566	0.1543	Ave		0.1524				7.6		30.0			
1,4-Dioxane	+++++ 0.0678	+++++ 0.0697	+++++ 0.0658	0.0762	0.0712	Ave		0.0701				5.6		30.0			
Dibromomethane	+++++ 0.2919	0.2656 0.2913	0.2595 0.2998	0.2909	0.2910	Ave		0.2843				5.4		30.0			
Bromodichloromethane	+++++ 0.4236	0.3928 0.4165	0.4015 0.4156	0.4488	0.4313	Ave		0.4186				4.4		30.0			
cis-1,3-Dichloropropene	+++++ 0.2935	0.3084 0.2914	0.2936 0.2961	0.3123	0.2981	Ave		0.2991				2.7		30.0			
methyl isobutyl ketone	+++++ 0.2223	+++++ 0.2269	0.2287 0.2269	0.2509	0.2325	Ave		0.2314				4.4		30.0			
Trichloroethene	0.3305 0.2682	0.2832 0.2652	0.2657 0.2682	0.2761	0.2697	Ave		0.2783				7.9		30.0			
Toluene	+++++ 0.4515	0.4732 0.4470	0.4780 0.4506	0.4758	0.4455	Ave		0.4602				3.2		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12139-1 Analy Batch No.: 42129

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2012 16:27 Calibration End Date: 07/19/2012 22:44 Calibration ID: 16721

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
n-Octane	+++++ 0.3116	0.3761 0.3024	0.3733 0.2902	0.3554	0.3270	Ave		0.3337				10.4		30.0			
trans-1,3-Dichloropropene	+++++ 0.3027	0.3038 0.3016	0.2961 0.3096	0.3182	0.3043	Ave		0.3052				2.3		30.0			
1,1,2-Trichloroethane	+++++ 0.1945	0.2080 0.1929	0.1966 0.1919	0.2089	0.1951	Ave		0.1983				3.6		30.0			
Tetrachloroethene	+++++ 0.5021	0.4887 0.4934	0.4843 0.5021	0.5128	0.4950	Ave		0.4969				1.9		30.0			
Methyl Butyl Ketone (2-Hexanone)	+++++ 0.2267	+++++ 0.2336	0.2058 0.2324	0.2561	0.2327	Ave		0.2312				7.0		30.0			
Dibromochloromethane	+++++ 0.5253	0.4271 0.5238	0.4235 0.5372	0.5384	0.5145	Ave		0.4985				10.2		30.0			
1,2-Dibromoethane	+++++ 0.4200	0.4118 0.4133	0.3817 0.4238	0.4401	0.4149	Ave		0.4151				4.2		30.0			
Chlorobenzene	+++++ 0.6832	0.7200 0.6799	0.6795 0.6973	0.7142	0.6754	Ave		0.6928				2.6		30.0			
Ethylbenzene	+++++ 0.9797	0.9720 0.9761	0.9113 1.0027	1.0205	0.9662	Ave		0.9755				3.5		30.0			
n-Nonane	+++++ 0.3664	0.3966 0.3561	0.3825 0.3468	0.3995	0.3677	Ave		0.3737				5.3		30.0			
m,p-Xylene	+++++ 0.4230	0.3950 0.4191	0.3888 0.4194	0.4367	0.4148	Ave		0.4138				4.0		30.0			
Xylene, o-	+++++ 0.4088	0.3771 0.4056	0.3763 0.4106	0.4283	0.4049	Ave		0.4017				4.7		30.0			
Styrene	+++++ 0.6269	0.4547 0.6284	0.4211 0.6557	0.6088	0.6021	Ave		0.5711				16.3		30.0			
Bromoform	+++++ 0.5598	0.4028 0.5596	0.3904 0.5828	0.5515	0.5426	Ave		0.5128				15.7		30.0			
Cumene	+++++ 1.2049	1.1368 1.1985	1.1000 1.2380	1.2482	1.1812	Ave		1.1868				4.5		30.0			
1,1,2,2-Tetrachloroethane	+++++ 0.4966	0.4967 0.4876	0.4611 0.4905	0.5308	0.4958	Ave		0.4942				4.1		30.0			
1,2,3-Trichloropropane	+++++ 0.3941	+++++ 0.3821	0.3999 0.3714	0.4322	0.3979	Ave		0.3963				5.2		30.0			
n-Propylbenzene	+++++ 1.3145	1.2208 1.2979	1.1565 1.2975	1.3760	1.3021	Ave		1.2807				5.5		30.0			
4-Ethyltoluene	+++++ 1.1905	1.0272 1.1591	1.0192 1.0939	1.2686	1.1901	Ave		1.1355				8.1		30.0			
n-Decane	+++++ 0.4238	+++++ 0.3938	0.4069 0.3366	0.4886	0.4366	Ave		0.4144				12.1		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12139-1 Analy Batch No.: 42129

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2012 16:27 Calibration End Date: 07/19/2012 22:44 Calibration ID: 16721

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Chlorotoluene	+++++ 0.9427	0.9398 0.9044	0.8987 0.8517	1.0241	0.9471	Ave		0.9298				5.8		30.0			
1,3,5-Trimethylbenzene	+++++ 1.0469	0.9092 1.0372	0.8672 1.0739	1.0763	1.0245	Ave		1.0050				8.2		30.0			
Alpha Methyl Styrene	+++++ 0.5462	0.3410 0.5407	0.3213 0.5603	0.5305	0.5201	Ave		0.4800				21.4		30.0			
tert-Butylbenzene	+++++ 1.0598	0.9577 1.0455	0.9429 1.0747	1.1145	1.0412	Ave		1.0338				6.0		30.0			
1,2,4-Trimethylbenzene	+++++ 1.0388	0.8766 1.0274	0.8339 1.0638	1.0731	1.0135	Ave		0.9896				9.6		30.0			
sec-Butylbenzene	+++++ 1.4718	1.3082 1.4515	1.2685 1.5014	1.5318	1.4476	Ave		1.4258				6.9		30.0			
4-Isopropyltoluene	+++++ 1.3324	1.0972 1.3200	1.0566 1.3635	1.3722	1.3101	Ave		1.2646				10.3		30.0			
1,3-Dichlorobenzene	+++++ 0.7740	0.7579 0.7612	0.6267 0.8162	0.7842	0.7487	Ave		0.7527				7.9		30.0			
1,4-Dichlorobenzene	+++++ 0.7581	0.7421 0.7487	0.6164 0.8205	0.7604	0.7327	Ave		0.7398				8.3		30.0			
Benzyl chloride	+++++ 0.7476	0.5952 0.7357	0.4727 0.8235	0.7322	0.6033	Ave		0.6729				17.9		30.0			
n-Butylbenzene	+++++ 0.9931	0.8156 0.9829	0.6873 1.0124	1.0150	0.9684	Ave		0.9250				13.5		30.0			
n-Undecane	+++++ 0.4296	+++++ 0.4249	+++++ 0.4269	0.4227	0.4056	Ave		0.4219				2.2		30.0			
1,2-Dichlorobenzene	+++++ 0.7308	0.6773 0.7181	0.5791 0.7784	0.7434	0.7067	Ave		0.7048				9.0		30.0			
n-Dodecane	+++++ 0.2668	+++++ 0.2404	+++++ 0.2267	0.3169	0.2695	Ave		0.2640				13.1		30.0			
1,2,4-Trichlorobenzene	+++++ 0.3860	+++++ 0.3736	0.3073 0.4670	0.4078	0.3608	Ave		0.3838				13.8		30.0			
Hexachlorobutadiene	+++++ 0.4903	0.4629 0.4584	0.4146 0.4815	0.5123	0.4760	Ave		0.4709				6.5		30.0			
Naphthalene	+++++ 0.7290	+++++ 0.7350	0.5408 0.9380	0.7741	0.6756	Ave		0.7321				17.7		30.0			
1,2,3-Trichlorobenzene	+++++ 0.3231	0.3411 0.2974	0.2727 0.3683	0.3503	0.3026	Ave		0.3222				10.4		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12139-1 Analy Batch No.: 42129

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2012 16:27 Calibration End Date: 07/19/2012 22:44 Calibration ID: 16721

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-42129/3	ckx003.d
Level 2	IC 200-42129/4	ckx004.d
Level 3	IC 200-42129/5	ckx005.d
Level 4	IC 200-42129/6	ckx006.d
Level 5	ICIS 200-42129/7	ckx007.d
Level 6	IC 200-42129/8	ckx008.d
Level 7	IC 200-42129/9	ckx009.d
Level 8	IC 200-42129/10	ckx010.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	+++++ 304316	+++++ 406050	14570 811610	105497	208481	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Dichlorodifluoromethane	BCM	Ave	+++++ 1710127	+++++ 2355218	55317 4741882	559445	1139790	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Freon 22	BCM	Ave	+++++ 756198	+++++ 1024601	25564 2067798	256756	512691	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
1,2-Dichlorotetrafluoroethane	BCM	Ave	+++++ 1768538	23212 2438469	55406 4937402	562452	1159721	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chloromethane	BCM	Ave	+++++ 406425	+++++ 555013	15308 1122404	135172	273500	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
n-Butane	BCM	Ave	+++++ 724711	+++++ 962129	32762 1906149	247446	476779	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
1,3-Butadiene	BCM	Ave	+++++ 385878	4819 523732	11150 1058302	121962	252582	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Vinyl chloride	BCM	Ave	1584 544654	7198 739091	16658 1490436	173069	356577	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromomethane	BCM	Ave	+++++ 575943	7665 804443	17541 1652804	179820	371744	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chloroethane	BCM	Ave	+++++ 284411	+++++ 396248	8980 814398	90207	186760	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Isopentane	BCM	Ave	+++++ 546062	7806 736108	19655 1464140	183860	361194	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromoethene(Vinyl Bromide)	BCM	Ave	+++++ 662971	7975 926618	19583 1922993	198977	419756	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acrolein	BCM	Ave	+++++ 142290	+++++ 199841	+++++ 464936	50489	94668	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
Trichlorofluoromethane	BCM	Ave	+++++ 1961051	25586 2700532	61470 5552150	630319	1283940	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Pentane	BCM	Ave	+++++ 835427	+++++ 1139887	32579 2278903	279894	559398	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12139-1 Analy Batch No.: 42129

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2012 16:27 Calibration End Date: 07/19/2012 22:44 Calibration ID: 16721

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Isopropyl alcohol	BCM	Ave	+++++ 455111	+++++ 632240	+++++ 1234920	161607	310715	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
Ethanol	BCM	Ave	+++++ 190792	+++++ 393190	52914 959468	91605	128374	+++++ 20.0	+++++ 40.0	5.00 100	10.0	15.0
Ethyl ether	BCM	Ave	+++++ 358591	4214 497472	10963 1022459	116448	233621	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acetonitrile	BCM	Ave	+++++ 261034	+++++ 365962	+++++ 757459	90694	170809	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
Freon TF	BCM	Ave	+++++ 1341771	16858 1858488	41583 3822554	413562	863252	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
tert-Butyl alcohol	BCM	Ave	+++++ 765826	+++++ 1065976	+++++ 2123050	262813	514361	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
1,1-Dichloroethene	BCM	Ave	+++++ 614934	8199 860902	16485 1774749	189405	397847	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acetone	BCM	Ave	+++++ 644228	+++++ 899473	+++++ 1765666	224005	472381	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
Ethyl acetate	BCM	Ave	+++++ 54103	+++++ 77758	+++++ 161677	16428	34932	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
Carbon disulfide	BCM	Ave	+++++ 1658109	+++++ 2310348	50435 4802305	514000	1078255	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
3-Chloropropene	BCM	Ave	+++++ 580004	7672 791127	18172 1591779	190148	370045	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methylene Chloride	BCM	Ave	+++++ 497830	+++++ 680395	20878 1367265	167154	330742	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Methyl tert-butyl ether	BCM	Ave	+++++ 1663567	21027 2337908	52139 4772117	536570	1091950	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
trans-1,2-Dichloroethene	BCM	Ave	+++++ 829179	10273 1132905	25403 2299625	270272	543285	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acrylonitrile	BCM	Ave	+++++ 307198	+++++ 436674	9130 909259	99555	198976	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
n-Hexane	BCM	Ave	+++++ 851165	11745 1178037	29391 2360904	273963	558623	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Butanol	DFB	Ave	+++++ 200122	+++++ 290348	+++++ 568286	68948	124976	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
1,1-Dichloroethane	BCM	Ave	+++++ 1049945	13440 1444251	32170 2939164	338053	686229	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Vinyl acetate	BCM	Ave	+++++ 1003517	+++++ 1423483	+++++ 2898571	333627	665659	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
cis-1,2-Dichloroethene	BCM	Ave	+++++ 696293	10078 976520	22334 2028945	214882	447649	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl Ethyl Ketone	BCM	Ave	+++++ 254482	+++++ 364611	10598 732598	81523	169254	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12139-1 Analy Batch No.: 42129

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2012 16:27 Calibration End Date: 07/19/2012 22:44 Calibration ID: 16721

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrahydrofuran	DFB	Ave	+++++ 439971	+++++ 605980	+++++ 1216717	150709	292842	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
Chloroform	BCM	Ave	+++++ 1411660	18401 1955820	43944 4008489	451495	921099	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,1-Trichloroethane	DFB	Ave	+++++ 1647680	21251 2280351	50704 4667561	529313	1076469	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Cyclohexane	DFB	Ave	+++++ 962843	12350 1331163	29651 2698356	298973	620687	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Benzene	DFB	Ave	+++++ 1924180	26911 2678808	60339 5340464	608206	1253356	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
2,2,4-Trimethylpentane	DFB	Ave	+++++ 2655206	34423 3655734	84279 7217329	854849	1730544	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dichloroethane	DFB	Ave	+++++ 900372	12094 1224030	28985 2478045	296388	595772	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Heptane	DFB	Ave	+++++ 860473	13109 1182489	30140 2327854	289547	581574	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Carbon tetrachloride	DFB	Ave	4915 1840353	22010 2563158	53251 5327570	572485	1193117	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dichloropropane	DFB	Ave	+++++ 593775	7611 828521	19011 1672956	192685	387810	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl methacrylate	DFB	Ave	+++++ 560306	+++++ 821013	13978 1705062	171596	360328	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
1,4-Dioxane	DFB	Ave	+++++ 247231	+++++ 360653	+++++ 694248	83458	166221	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
Dibromomethane	DFB	Ave	+++++ 1065255	11583 1506789	28016 3161613	318736	679256	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromodichloromethane	DFB	Ave	+++++ 1545703	17130 2154222	43343 4382121	491698	1006756	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
cis-1,3-Dichloropropene	DFB	Ave	+++++ 1070836	13448 1507017	31700 3121867	342192	696014	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
methyl isobutyl ketone	DFB	Ave	+++++ 811017	+++++ 1173673	24693 2392840	274889	542816	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Trichloroethene	DFB	Ave	2996 978767	12349 1371595	28681 2828150	302482	629623	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Toluene	CBZ	Ave	+++++ 1500840	18712 2136534	47965 4409082	472992	961713	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Octane	DFB	Ave	+++++ 1137005	16400 1564245	40299 3060119	389385	763321	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
trans-1,3-Dichloropropene	DFB	Ave	+++++ 1104664	13250 1559883	31967 3264845	348598	710497	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,2-Trichloroethane	CBZ	Ave	+++++ 646639	8225 921919	19729 1877371	207709	421236	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12139-1 Analy Batch No.: 42129

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2012 16:27 Calibration End Date: 07/19/2012 22:44 Calibration ID: 16721

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrachloroethene	CBZ	Ave	+++++ 1669184	19323 2358226	48595 4912862	509825	1068611	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl Butyl Ketone (2-Hexanone)	CBZ	Ave	+++++ 753617	+++++ 1116391	20647 2274171	254640	502391	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Dibromochloromethane	CBZ	Ave	+++++ 1746195	16887 2503777	42492 5255545	535288	1110666	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dibromoethane	CBZ	Ave	+++++ 1396205	16282 1975691	38298 4146243	437579	895565	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chlorobenzene	CBZ	Ave	+++++ 2271145	28471 3249920	68185 6822181	710080	1457990	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Ethylbenzene	CBZ	Ave	+++++ 3257027	38436 4665721	91442 9810772	1014538	2085685	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Nonane	CBZ	Ave	+++++ 1217956	15684 1702269	38382 3393424	397214	793806	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
m,p-Xylene	CBZ	Ave	+++++ 2812631	31240 4005921	78023 8207551	868290	1790970	+++++ 30.0	0.400 40.0	1.00 80.0	10.0	20.0
Xylene, o-	CBZ	Ave	+++++ 1359134	14910 1938789	37761 4017469	425804	874057	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Styrene	CBZ	Ave	+++++ 2084131	17978 3003402	42254 6414910	605249	1299647	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromoform	CBZ	Ave	+++++ 1860890	15926 2674724	39173 5701778	548265	1171343	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Cumene	CBZ	Ave	+++++ 4005605	44950 5728738	110374 12112237	1240925	2549703	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,2,2-Tetrachloroethane	CBZ	Ave	+++++ 1650899	19642 2330427	46272 4798707	527762	1070310	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2,3-Trichloropropane	CBZ	Ave	+++++ 1310042	+++++ 1826293	40130 3634113	429702	859013	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
n-Propylbenzene	CBZ	Ave	+++++ 4369935	48273 6203458	116045 12694708	1367962	2810747	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
4-Ethyltoluene	CBZ	Ave	+++++ 3957650	40615 5540003	102265 10703000	1261259	2569097	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Decane	CBZ	Ave	+++++ 1408889	+++++ 1882083	40826 3292945	485713	942378	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
2-Chlorotoluene	CBZ	Ave	+++++ 3133833	37159 4322903	90181 8333333	1018136	2044375	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,3,5-Trimethylbenzene	CBZ	Ave	+++++ 3480442	35952 4957577	87013 10507338	1070028	2211505	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Alpha Methyl Styrene	CBZ	Ave	+++++ 1815607	13485 2584539	32242 5481619	527426	1122669	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
tert-Butylbenzene	CBZ	Ave	+++++ 3523247	37868 4997029	94612 10514870	1108075	2247618	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12139-1 Analy Batch No.: 42129

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2012 16:27 Calibration End Date: 07/19/2012 22:44 Calibration ID: 16721

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBZ	Ave	+++++ 3453342	34662 4910808	83677 10407770	1066848	2187884	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
sec-Butylbenzene	CBZ	Ave	+++++ 4892806	51729 6937817	127288 14689414	1522853	3124854	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
4-Isopropyltoluene	CBZ	Ave	+++++ 4429259	43385 6309309	106023 13340197	1364211	2828013	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,3-Dichlorobenzene	CBZ	Ave	+++++ 2572987	29968 3638406	62888 7985487	779634	1616197	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,4-Dichlorobenzene	CBZ	Ave	+++++ 2520281	29342 3578409	61848 8028201	755966	1581561	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Benzyl chloride	CBZ	Ave	+++++ 2485360	23535 3516268	47432 8056894	727925	1302399	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Butylbenzene	CBZ	Ave	+++++ 3301365	32249 4698079	68968 9905364	1009122	2090457	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Undecane	CBZ	Ave	+++++ 1428202	+++++ 2030725	+++++ 4176786	420245	875592	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
1,2-Dichlorobenzene	CBZ	Ave	+++++ 2429353	26781 3432172	58104 7616349	739088	1525518	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Dodecane	CBZ	Ave	+++++ 886778	+++++ 1148856	+++++ 2218053	315084	581678	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
1,2,4-Trichlorobenzene	CBZ	Ave	+++++ 1283319	+++++ 1785817	30837 4568738	405456	778767	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Hexachlorobutadiene	CBZ	Ave	+++++ 1629871	18305 2191137	41605 4711053	509344	1027488	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Naphthalene	CBZ	Ave	+++++ 2423448	+++++ 3513016	54269 9177661	769644	1458284	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
1,2,3-Trichlorobenzene	CBZ	Ave	+++++ 1073982	13487 1421322	27360 3603689	348240	653109	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

Curve Type Legend:
Ave = Average ISTD

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12139-1

SDG No.:

Lab Sample ID: ICV 200-42129/12 Calibration Date: 07/20/2012 00:31

Instrument ID: C.i Calib Start Date: 07/19/2012 16:27

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 07/19/2012 22:44

Lab File ID: ckx012.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.4984	0.4561		9.15	10.0	-8.5	30.0
Dichlorodifluoromethane	Ave	2.561	2.547		9.94	10.0	-0.6	30.0
Freon 22	Ave	1.148	1.141		9.94	10.0	-0.6	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.658	2.653		9.98	10.0	-0.2	30.0
Chloromethane	Ave	0.6288	0.6259		9.95	10.0	-0.5	30.0
n-Butane	Ave	1.157	1.065		9.21	10.0	-7.9	30.0
Vinyl chloride	Ave	0.8310	0.8185		9.85	10.0	-1.5	30.0
1,3-Butadiene	Ave	0.5654	0.5959		10.5	10.0	5.4	30.0
Bromomethane	Ave	0.8639	0.8593		9.94	10.0	-0.5	30.0
Chloroethane	Ave	0.4235	0.4305		10.2	10.0	1.7	30.0
Isopentane	Ave	0.8523	0.8282		9.72	10.0	-2.8	30.0
Bromoethene(Vinyl Bromide)	Ave	0.9680	1.007		10.4	10.0	4.0	30.0
Trichlorofluoromethane	Ave	2.953	2.926		9.91	10.0	-0.9	30.0
n-Pentane	Ave	1.300	1.241		9.55	10.0	-4.5	30.0
Ethanol	Ave	0.2142	0.2280		16.0	15.0	6.4	30.0
Ethyl ether	Ave	0.5312	0.4956		9.33	10.0	-6.7	30.0
Acrolein	Ave	0.2200	0.1782		8.10	10.0	-19.0	30.0
Freon TF	Ave	1.991	2.173		10.9	10.0	9.1	30.0
1,1-Dichloroethene	Ave	0.9058	1.030		11.4	10.0	13.7	30.0
Acetone	Ave	0.9783	0.9651		9.86	10.0	-1.4	30.0
Carbon disulfide	Ave	2.443	2.561		10.5	10.0	4.8	30.0
Isopropyl alcohol	Ave	0.6820	0.6864		10.1	10.0	0.7	30.0
3-Chloropropene	Ave	0.8702	0.8663		9.95	10.0	-0.4	30.0
Acetonitrile	Ave	0.3911	0.3925		10.0	10.0	0.3	30.0
Methylene Chloride	Ave	0.7875	0.8149		10.3	10.0	3.5	30.0
tert-Butyl alcohol	Ave	1.139	1.207		10.6	10.0	5.9	30.0
Methyl tert-butyl ether	Ave	2.506	2.403		9.58	10.0	-4.1	30.0
trans-1,2-Dichloroethene	Ave	1.233	1.258		10.2	10.0	2.0	30.0
Acrylonitrile	Ave	0.4571	0.4623		10.1	10.0	1.1	30.0
n-Hexane	Ave	1.311	1.299		9.90	10.0	-1.0	30.0
1,1-Dichloroethane	Ave	1.569	1.597		10.2	10.0	1.8	30.0
Vinyl acetate	Ave	1.495	1.450		9.70	10.0	-3.0	30.0
cis-1,2-Dichloroethene	Ave	1.068	1.084		10.1	10.0	1.5	30.0
Methyl Ethyl Ketone	Ave	0.4043	0.3639		9.00	10.0	-10.0	30.0
Ethyl acetate	Ave	0.0793	0.0778		9.81	10.0	-1.9	30.0
Tetrahydrofuran	Ave	0.1232	0.1181		9.58	10.0	-4.1	30.0
Chloroform	Ave	2.123	2.133		10.0	10.0	0.5	30.0
1,1,1-Trichloroethane	Ave	0.4623	0.4527		9.79	10.0	-2.1	30.0
Cyclohexane	Ave	0.2677	0.2689		10.0	10.0	0.5	30.0
Carbon tetrachloride	Ave	0.5099	0.4916		9.64	10.0	-3.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12139-1

SDG No.:

Lab Sample ID: ICV 200-42129/12 Calibration Date: 07/20/2012 00:31

Instrument ID: C.i Calib Start Date: 07/19/2012 16:27

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 07/19/2012 22:44

Lab File ID: ckx012.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzene	Ave	0.5457	0.5417		9.92	10.0	-0.7	30.0
2,2,4-Trimethylpentane	Ave	0.7444	0.7509		10.1	10.0	0.9	30.0
1,2-Dichloroethane	Ave	0.2557	0.2468		9.65	10.0	-3.5	30.0
n-Heptane	Ave	0.2541	0.2451		9.64	10.0	-3.5	30.0
n-Butanol	Ave	0.0563	0.0529		9.39	10.0	-6.1	30.0
Trichloroethene	Ave	0.2783	0.2681		9.63	10.0	-3.7	30.0
1,2-Dichloropropane	Ave	0.1677	0.1663		9.91	10.0	-0.9	30.0
Methyl methacrylate	Ave	0.1524	0.1429		9.38	10.0	-6.2	30.0
1,4-Dioxane	Ave	0.0701	0.0630		8.98	10.0	-10.2	30.0
Dibromomethane	Ave	0.2843	0.2867		10.1	10.0	0.8	30.0
Bromodichloromethane	Ave	0.4186	0.4350		10.4	10.0	3.9	30.0
cis-1,3-Dichloropropene	Ave	0.2991	0.2913		9.74	10.0	-2.6	30.0
methyl isobutyl ketone	Ave	0.2314	0.2159		9.33	10.0	-6.7	30.0
Toluene	Ave	0.4602	0.4765		10.4	10.0	3.5	30.0
n-Octane	Ave	0.3337	0.3163		9.48	10.0	-5.2	30.0
trans-1,3-Dichloropropene	Ave	0.3052	0.2883		9.44	10.0	-5.6	30.0
1,1,2-Trichloroethane	Ave	0.1983	0.1981		9.99	10.0	-0.1	30.0
Tetrachloroethene	Ave	0.4969	0.5121		10.3	10.0	3.1	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2312	0.2350		10.2	10.0	1.6	30.0
Dibromochloromethane	Ave	0.4985	0.5561		11.2	10.0	11.5	30.0
1,2-Dibromoethane	Ave	0.4151	0.4269		10.3	10.0	2.9	30.0
Chlorobenzene	Ave	0.6928	0.7011		10.1	10.0	1.2	30.0
Ethylbenzene	Ave	0.9755	0.9928		10.2	10.0	1.8	30.0
n-Nonane	Ave	0.3737	0.3852		10.3	10.0	3.1	30.0
m,p-Xylene	Ave	0.4138	0.4230		20.4	20.0	2.2	30.0
Xylene, o-	Ave	0.4017	0.4069		10.1	10.0	1.3	30.0
Styrene	Ave	0.5711	0.6112		10.7	10.0	7.0	30.0
Bromoform	Ave	0.5128	0.5693		11.1	10.0	11.0	30.0
Cumene	Ave	1.187	1.218		10.3	10.0	2.7	30.0
1,1,2,2-Tetrachloroethane	Ave	0.4942	0.4938		9.99	10.0	-0.0	30.0
1,2,3-Trichloropropane	Ave	0.3963	0.4052		10.2	10.0	2.2	30.0
n-Propylbenzene	Ave	1.281	1.333		10.4	10.0	4.1	30.0
4-Ethyltoluene	Ave	1.136	1.223		10.8	10.0	7.7	30.0
n-Decane	Ave	0.4144	0.4416		10.7	10.0	6.6	30.0
2-Chlorotoluene	Ave	0.9298	0.9910		10.7	10.0	6.6	30.0
1,3,5-Trimethylbenzene	Ave	1.005	1.026		10.2	10.0	2.1	30.0
Alpha Methyl Styrene	Ave	0.4800	0.5211		10.9	10.0	8.6	30.0
tert-Butylbenzene	Ave	1.034	1.076		10.4	10.0	4.1	30.0
1,2,4-Trimethylbenzene	Ave	0.9896	0.9942		10.0	10.0	0.5	30.0
sec-Butylbenzene	Ave	1.426	1.487		10.4	10.0	4.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12139-1

SDG No.:

Lab Sample ID: ICV 200-42129/12 Calibration Date: 07/20/2012 00:31

Instrument ID: C.i Calib Start Date: 07/19/2012 16:27

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 07/19/2012 22:44

Lab File ID: ckx012.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.265	1.333		10.5	10.0	5.4	30.0
1,3-Dichlorobenzene	Ave	0.7527	0.7331		9.74	10.0	-2.6	30.0
1,4-Dichlorobenzene	Ave	0.7398	0.7154		9.67	10.0	-3.3	30.0
Benzyl chloride	Ave	0.6729	0.5933		8.82	10.0	-11.8	30.0
n-Butylbenzene	Ave	0.9250	0.9808		10.6	10.0	6.0	30.0
n-Undecane	Ave	0.4219	0.3988		9.45	10.0	-5.5	30.0
1,2-Dichlorobenzene	Ave	0.7048	0.6764		9.59	10.0	-4.0	30.0
n-Dodecane	Ave	0.2640	0.3008		11.4	10.0	13.9	30.0
1,2,4-Trichlorobenzene	Ave	0.3838	0.3718		9.69	10.0	-3.1	30.0
Hexachlorobutadiene	Ave	0.4709	0.4585		9.73	10.0	-2.6	30.0
Naphthalene	Ave	0.7321	0.7070		9.66	10.0	-3.4	30.0
1,2,3-Trichlorobenzene	Ave	0.3222	0.3345		10.4	10.0	3.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12139-1

SDG No.:

Lab Sample ID: CCVIS 200-43123/2 Calibration Date: 08/08/2012 12:50

Instrument ID: C.i Calib Start Date: 07/19/2012 16:27

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 07/19/2012 22:44

Lab File ID: ckxl002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.4984	0.5653		11.3	10.0	13.4	30.0
Dichlorodifluoromethane	Ave	2.561	2.449		9.56	10.0	-4.4	30.0
Freon 22	Ave	1.148	1.212		10.6	10.0	5.6	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.658	2.631		9.90	10.0	-1.0	30.0
Chloromethane	Ave	0.6288	0.6898		11.0	10.0	9.7	30.0
n-Butane	Ave	1.157	1.210		10.5	10.0	4.6	30.0
Vinyl chloride	Ave	0.8310	0.8803		10.6	10.0	5.9	30.0
1,3-Butadiene	Ave	0.5654	0.6351		11.2	10.0	12.3	30.0
Bromomethane	Ave	0.8639	0.8962		10.4	10.0	3.7	30.0
Chloroethane	Ave	0.4235	0.4730		11.2	10.0	11.7	30.0
Isopentane	Ave	0.8523	0.9394		11.0	10.0	10.2	30.0
Bromoethene(Vinyl Bromide)	Ave	0.9680	0.998		10.3	10.0	3.1	30.0
Trichlorofluoromethane	Ave	2.953	2.668		9.03	10.0	-9.7	30.0
n-Pentane	Ave	1.300	1.461		11.2	10.0	12.3	30.0
Ethanol	Ave	0.2142	0.2175		15.2	15.0	1.5	30.0
Ethyl ether	Ave	0.5312	0.5952		11.2	10.0	12.1	30.0
Acrolein	Ave	0.2200	0.2791		12.7	10.0	26.8	30.0
Freon TF	Ave	1.991	1.974		9.91	10.0	-0.9	30.0
1,1-Dichloroethene	Ave	0.9058	0.9418		10.4	10.0	4.0	30.0
Acetone	Ave	0.9783	1.022		10.4	10.0	4.4	30.0
Carbon disulfide	Ave	2.443	2.657		10.9	10.0	8.7	30.0
Isopropyl alcohol	Ave	0.6820	0.7697		11.3	10.0	12.9	30.0
3-Chloropropene	Ave	0.8702	0.9917		11.4	10.0	14.0	30.0
Acetonitrile	Ave	0.3911	0.4758		12.2	10.0	21.6	30.0
Methylene Chloride	Ave	0.7875	0.8359		10.6	10.0	6.1	30.0
tert-Butyl alcohol	Ave	1.139	1.177		10.3	10.0	3.3	30.0
Methyl tert-butyl ether	Ave	2.506	2.550		10.2	10.0	1.7	30.0
trans-1,2-Dichloroethene	Ave	1.233	1.313		10.6	10.0	6.5	30.0
Acrylonitrile	Ave	0.4571	0.5277		11.5	10.0	15.4	30.0
n-Hexane	Ave	1.311	1.438		11.0	10.0	9.7	30.0
1,1-Dichloroethane	Ave	1.569	1.669		10.6	10.0	6.4	30.0
Vinyl acetate	Ave	1.495	1.789		12.0	10.0	19.7	30.0
cis-1,2-Dichloroethene	Ave	1.068	1.073		10.1	10.0	0.6	30.0
Methyl Ethyl Ketone	Ave	0.4043	0.4176		10.3	10.0	3.3	30.0
Ethyl acetate	Ave	0.0793	0.0860		10.8	10.0	8.4	30.0
Tetrahydrofuran	Ave	0.1232	0.1461		11.9	10.0	18.5	30.0
Chloroform	Ave	2.123	2.094		9.86	10.0	-1.4	30.0
1,1,1-Trichloroethane	Ave	0.4623	0.4129		8.93	10.0	-10.7	30.0
Cyclohexane	Ave	0.2677	0.2722		10.2	10.0	1.7	30.0
Carbon tetrachloride	Ave	0.5099	0.4388		8.60	10.0	-13.9	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12139-1

SDG No.:

Lab Sample ID: CCVIS 200-43123/2 Calibration Date: 08/08/2012 12:50

Instrument ID: C.i Calib Start Date: 07/19/2012 16:27

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 07/19/2012 22:44

Lab File ID: ckxl002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzene	Ave	0.5457	0.5588		10.2	10.0	2.4	30.0
2,2,4-Trimethylpentane	Ave	0.7444	0.8120		10.9	10.0	9.1	30.0
1,2-Dichloroethane	Ave	0.2557	0.2331		9.11	10.0	-8.8	30.0
n-Heptane	Ave	0.2541	0.2798		11.0	10.0	10.1	30.0
n-Butanol	Ave	0.0563	0.0555		9.87	10.0	-1.3	30.0
Trichloroethene	Ave	0.2783	0.2614		9.39	10.0	-6.1	30.0
1,2-Dichloropropane	Ave	0.1677	0.1836		10.9	10.0	9.4	30.0
Methyl methacrylate	Ave	0.1524	0.1663		10.9	10.0	9.1	30.0
1,4-Dioxane	Ave	0.0701	0.0749		10.7	10.0	6.8	30.0
Dibromomethane	Ave	0.2843	0.2565		9.02	10.0	-9.8	30.0
Bromodichloromethane	Ave	0.4186	0.4105		9.81	10.0	-1.9	30.0
cis-1,3-Dichloropropene	Ave	0.2991	0.3052		10.2	10.0	2.1	30.0
methyl isobutyl ketone	Ave	0.2314	0.2680		11.6	10.0	15.8	30.0
Toluene	Ave	0.4602	0.4527		9.83	10.0	-1.6	30.0
n-Octane	Ave	0.3337	0.3750		11.2	10.0	12.4	30.0
trans-1,3-Dichloropropene	Ave	0.3052	0.3003		9.84	10.0	-1.6	30.0
1,1,2-Trichloroethane	Ave	0.1983	0.2016		10.2	10.0	1.7	30.0
Tetrachloroethene	Ave	0.4969	0.4366		8.78	10.0	-12.1	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2312	0.2625		11.4	10.0	13.5	30.0
Dibromochloromethane	Ave	0.4985	0.4597		9.22	10.0	-7.8	30.0
1,2-Dibromoethane	Ave	0.4151	0.3991		9.61	10.0	-3.9	30.0
Chlorobenzene	Ave	0.6928	0.6514		9.40	10.0	-6.0	30.0
Ethylbenzene	Ave	0.9755	0.9535		9.77	10.0	-2.3	30.0
n-Nonane	Ave	0.3737	0.4021		10.8	10.0	7.6	30.0
m,p-Xylene	Ave	0.4138	0.4068		19.7	20.0	-1.7	30.0
Xylene, o-	Ave	0.4017	0.3922		9.76	10.0	-2.4	30.0
Styrene	Ave	0.5711	0.5837		10.2	10.0	2.2	30.0
Bromoform	Ave	0.5128	0.4639		9.04	10.0	-9.5	30.0
Cumene	Ave	1.187	1.120		9.43	10.0	-5.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.4942	0.5066		10.2	10.0	2.5	30.0
1,2,3-Trichloropropane	Ave	0.3963	0.3957		9.98	10.0	-0.2	30.0
n-Propylbenzene	Ave	1.281	1.271		9.92	10.0	-0.8	30.0
4-Ethyltoluene	Ave	1.136	1.117		9.83	10.0	-1.7	30.0
n-Decane	Ave	0.4144	0.4792		11.6	10.0	15.7	30.0
2-Chlorotoluene	Ave	0.9298	0.9062		9.74	10.0	-2.5	30.0
1,3,5-Trimethylbenzene	Ave	1.005	0.9456		9.41	10.0	-5.9	30.0
Alpha Methyl Styrene	Ave	0.4800	0.4795		9.99	10.0	-0.1	30.0
tert-Butylbenzene	Ave	1.034	0.9399		9.09	10.0	-9.1	30.0
1,2,4-Trimethylbenzene	Ave	0.9896	0.9254		9.35	10.0	-6.5	30.0
sec-Butylbenzene	Ave	1.426	1.350		9.47	10.0	-5.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12139-1

SDG No.:

Lab Sample ID: CCVIS 200-43123/2 Calibration Date: 08/08/2012 12:50

Instrument ID: C.i Calib Start Date: 07/19/2012 16:27

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 07/19/2012 22:44

Lab File ID: ckxl002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.265	1.169		9.24	10.0	-7.6	30.0
1,3-Dichlorobenzene	Ave	0.7527	0.6471		8.60	10.0	-14.0	30.0
1,4-Dichlorobenzene	Ave	0.7398	0.6267		8.47	10.0	-15.3	30.0
Benzyl chloride	Ave	0.6729	0.6796		10.1	10.0	1.0	30.0
n-Butylbenzene	Ave	0.9250	0.9039		9.77	10.0	-2.3	30.0
n-Undecane	Ave	0.4219	0.4316		10.2	10.0	2.3	30.0
1,2-Dichlorobenzene	Ave	0.7048	0.6089		8.64	10.0	-13.6	30.0
n-Dodecane	Ave	0.2640	0.2546		9.64	10.0	-3.6	30.0
1,2,4-Trichlorobenzene	Ave	0.3838	0.2670		6.96	10.0	-30.4*	30.0
Hexachlorobutadiene	Ave	0.4709	0.3691		7.84	10.0	-21.6	30.0
Naphthalene	Ave	0.7321	0.5374		7.34	10.0	-26.6	30.0
1,2,3-Trichlorobenzene	Ave	0.3222	0.2220		6.89	10.0	-31.1*	30.0

GC/MS Air Instrument Run Log

Sequence		Standard Traceability	Instrument Information
Target Batch ID: CKX	Start Date: 7/19/12 Time: 1439	ISTD Container ID: 248052	Instrument ID: C
Test Method: TO15	End Date: 7/20/12 Time: 1439	CCV Container ID: see Comment	Instrument: 5973
ICAL Date: ~~7/20/12~~ 7/19/12 #42129		ICV/LCS Container ID: see Comment	Column Type: RTX-624

Analyst / Supervisor Signature(s): *Insert signature when specified as project requirement. Otherwise leave this section blank.*

Mark Phillips MTP — William DeJardins WD

Mark Phillips — [signature]

Sequence Information								Individual Sample Review			
Injection Time	GC/MS File Name	Summa Can ID	TALS Sample ID	Dilution Factor	Inlet #	Volume (mL)	Operator	Internal Std.	Result Conc.	Primary Anal.	Comments
1439	CKX001		BFB	BFA	NA	NA	WRD	NA	NA	WRD	
1534	02	4632	VIBLK		3	200			NA		
1627	03	2680	IC Level 8		4	40			✓		340390
1721	04	2680	IC level 1		4	200			✓		340390
1815	05	3413	IC level 2		5	200			✓		340387
1908	06	2603	IC level 3		6	200			✓		340394
2002	07	2887	ICIS		1	200			✓		354381
2056	08	4947	IC level 5		7	200			✓		340297
2150	09	3382	IC level 6		8	200			✓		340245
2244	10	3155	IC level 7		9	200			✓		340241
2337	11	4632	VIBLK		3	200			✓		
0031	12	3640	TCV		2	200		✓	✓		357 496 KP 7/24/12
0124	13	4632	VIBLK		3	200		✓	✓		
0218	14	3640	LCS		2	200		✓	✓		357 496
0311	15	4632	MB		3	200		✓	✓		

7/20/12

Legend: C=Complete • R=Reanalyze • ↑ = High • ↓= Low • ✓=Reviewed and Acceptable

GC/MS Air Instrument Run Log

#43 12.3

Sequence			Standard Traceability		Instrument Information
Target Batch ID: CKXL	Start Date: 8/15/12	Time: 1158	ISTD Container ID:	248052	Instrument ID: C
Test Method: TO15	End Date: 8/19/12	Time: 1158	CCV Container ID:	371069	Instrument: 5973
ICAL Date: 7/2/12			ICV/LCS Container ID:	370624	Column Type: RTX-624

Analyst / Supervisor Signature(s): *Insert signature when specified as project requirement. Otherwise leave this section blank.*

Sequence Information								Individual Sample Review			
Injection Time	GC/MS File Name	Summa Can ID	TALS Sample ID	Dilution Factor	Inlet #	Volume (mL)	Operator	Internal Std.	Result Conc.	Primary Anal.	Comments
1158	CKXL001		RFB	NA			WMD			WMD	
1256	02	2887	CCV		1	200			✓		[illegible]
1343	03	2518	LCS		2			✓	✓		AC ✓
1432	04	4632	MB		3			✓	✓		
1555	05	2516	12113-7	24.6	4	43	WMD	✓	✓		CDF 16.04 TIC ✓
1649	06	2516	-10U	24.6	4	43		✓	✓		16.04 TIC ✓
1742	07	3575	12020-10	0.2	5	1000		✓	✓	WMD	
1836	08	3592	12136-6	1	6	200		✓	✓		Least
1929	09	4951	12137-1		7			✓	✓		
2022	10	4460	12039-5	1960	8	22		✓	✓		CDF 215.49 C
2115	11	2800	-6	149	9	22		✓	✓		CDF 16.38 C
2208	12	2800	-6DU	149	9	22		✓	✓		16.36 C
2301	13	3661	12036-1	151	10	52		✓	✓		CDF 3.93 C
2355	14	2571	12038-1	2	11	100		✓	✓		C
0049	15	2577	-2	2.5	12	80		✓	✓		C
0143	16	5106	12028-5	0.2	13	1000		✓	✓		
0237	17	1854	12110-12	1	14	1		✓	✓		
0331	18	2870	12110-2	1	15	1		✓	✓		
0424	19	4011	12110-1	1	16	200		✓	✓		C TIC ✓
0518	20	4924	-2	1	1	1		✓	✓		C TIC ✓
0612	21	5511	12117-9	0.2	2	1000		✓	✓		
0706	22	3614	12117-2	1	3	1		✓	✓		
0759	23	3357	12148-1	1	4	250		✓	✓		C
0852	24	4448	-2	1	5	1		✓	✓		C
0945	25	3029	-3	1	6	1	WMD	✓	✓		C
1645	26	4242	12134-8	0.2	2	1000		✓	✓	WMD	
1738	27	4903	12138-2	1	3	1	1	✓	R	1	

8/19/12

Legend: C=Complete • R=Reanalyze • ↑ = High • ↓= Low • ✓=Reviewed and Acceptable

Page 252 of 258

23

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12139-1

SDG No.:

Instrument ID: C.i Start Date: 07/19/2012 14:39

Analysis Batch Number: 42129 End Date: 07/20/2012 03:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-42129/1		07/19/2012 14:39	1	ckx001.d	RTX-624 0.32(mm)
VIBLK 200-42129/2		07/19/2012 15:34	1		RTX-624 0.32(mm)
IC 200-42129/3		07/19/2012 16:27	1	ckx003.d	RTX-624 0.32(mm)
IC 200-42129/4		07/19/2012 17:21	1	ckx004.d	RTX-624 0.32(mm)
IC 200-42129/5		07/19/2012 18:15	1	ckx005.d	RTX-624 0.32(mm)
IC 200-42129/6		07/19/2012 19:08	1	ckx006.d	RTX-624 0.32(mm)
ICIS 200-42129/7		07/19/2012 20:02	1	ckx007.d	RTX-624 0.32(mm)
IC 200-42129/8		07/19/2012 20:56	1	ckx008.d	RTX-624 0.32(mm)
IC 200-42129/9		07/19/2012 21:50	1	ckx009.d	RTX-624 0.32(mm)
IC 200-42129/10		07/19/2012 22:44	1	ckx010.d	RTX-624 0.32(mm)
VIBLK 200-42129/11		07/19/2012 23:37	1		RTX-624 0.32(mm)
ICV 200-42129/12		07/20/2012 00:31	1	ckx012.d	RTX-624 0.32(mm)
VIBLK 200-42129/13		07/20/2012 01:24	1		RTX-624 0.32(mm)
ZZZZZ		07/20/2012 02:18	1		RTX-624 0.32(mm)
ZZZZZ		07/20/2012 03:11	1		RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12139-1

SDG No.:

Instrument ID: C.i Start Date: 08/08/2012 11:58

Analysis Batch Number: 43123 End Date: 08/09/2012 11:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-43123/1		08/08/2012 11:58	1	ckxl001.d	RTX-624 0.32(mm)
CCVIS 200-43123/2		08/08/2012 12:50	1	ckxl002.d	RTX-624 0.32(mm)
LCS 200-43123/3		08/08/2012 13:43	1	ckxl003.d	RTX-624 0.32(mm)
MB 200-43123/4		08/08/2012 14:37	1	ckxl004.d	RTX-624 0.32(mm)
ZZZZZ		08/08/2012 15:55	74.6		RTX-624 0.32(mm)
ZZZZZ		08/08/2012 16:49	74.6		RTX-624 0.32(mm)
ZZZZZ		08/08/2012 17:42	0.2		RTX-624 0.32(mm)
ZZZZZ		08/08/2012 18:36	1		RTX-624 0.32(mm)
ZZZZZ		08/08/2012 19:29	1		RTX-624 0.32(mm)
ZZZZZ		08/08/2012 20:22	1960		RTX-624 0.32(mm)
ZZZZZ		08/08/2012 21:15	149		RTX-624 0.32(mm)
ZZZZZ		08/08/2012 22:08	149		RTX-624 0.32(mm)
ZZZZZ		08/08/2012 23:02	15.1		RTX-624 0.32(mm)
ZZZZZ		08/08/2012 23:55	2		RTX-624 0.32(mm)
ZZZZZ		08/09/2012 00:49	2.5		RTX-624 0.32(mm)
ZZZZZ		08/09/2012 01:43	0.2		RTX-624 0.32(mm)
ZZZZZ		08/09/2012 02:37	0.2		RTX-624 0.32(mm)
ZZZZZ		08/09/2012 03:31	0.2		RTX-624 0.32(mm)
ZZZZZ		08/09/2012 04:24	1		RTX-624 0.32(mm)
ZZZZZ		08/09/2012 05:18	1		RTX-624 0.32(mm)
ZZZZZ		08/09/2012 06:12	0.2		RTX-624 0.32(mm)
ZZZZZ		08/09/2012 07:06	0.2		RTX-624 0.32(mm)
ZZZZZ		08/09/2012 07:59	1		RTX-624 0.32(mm)
ZZZZZ		08/09/2012 08:52	1		RTX-624 0.32(mm)
ZZZZZ		08/09/2012 09:45	1		RTX-624 0.32(mm)
200-12139-8	4792	08/09/2012 10:45	0.2	ckxl026.d	RTX-624 0.32(mm)
ZZZZZ		08/09/2012 11:38	0.2		RTX-624 0.32(mm)

TO-15

Shipping and Receiving Documents

USEPA CLP Organics COC (LAB COPY)
DateShipped: 8/22/2012
CarrierName: FedEx
AirbillNo: 8758-0985-3369

CHAIN OF CUSTODY RECORD

Case #:
Cooler #:

No: ORF Y1M8W4 Air
Lab: TestAmerica Laboratories Inc.
Lab Contact:
Lab Phone: 802-660-1990

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	For Lab Use Only
AS-EFF-120822	Air/ Joe Cotter		TO-15	A (1)	AS-EFF-120822	08/22/2012 14:20		

Special Instructions: WET SAMPLE!! Canister may contain moisture!

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Joe Cotter	8/22/12	TA BUR Steph Fischer	8/23/12	1000						

FedEx Express NEW Package US Airbill

FedEx Tracking Number 8758 0985 3380 0200

FedEx Retrieval Cop

1 From

Date 8/22/12 Sender's FedEx Account Number 1648 7815-5

Sender's Name Joe Cotter Phone 913 961-5257

Company Arrowhead Contracting

Address 251 Clinton Rd

Dept./Floor, Suite/Room

City Garden City State NY ZIP 11530

2 Your Internal Billing Reference 18-10-JC

3 To

Recipient's Name Sample Receiving Phone 912 384-7758

Company Test America

Address 30 Community Drive Suite 11

We cannot deliver to P.O. boxes or P.O. ZIP codes

Dept./Floor, Suite/Room

01 HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight

Address

Use this line for the HOLD location address or for continuation of your shipping address

31 HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations

City South Burlington State VT ZIP 05403

8758 0985 3380

4 Express Package Service

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lb

Next Business Day

06 FedEx First Overnight

01 FedEx Priority Overnight

05 FedEx Standard Overnight

2 or 3 Business Days

49 NEW FedEx 2Day A.M.

03 FedEx 2Day

20 FedEx Express Saver

5 Packaging

06 FedEx Envelope 02 FedEx Pak 03 FedEx Box 04 FedEx Tube 01 Oth

6 Special Handling and Delivery Signature Options

03 SATURDAY DELIVERY

No Signature Required

10 Direct Signature

04 Indirect Signature

Does this shipment contain dangerous goods?

One box must be checked.

No 04 Yes Yes 06 Dry Ice

Cargo Aircraft Only

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

1 Sender 2 Recipient 3 Third Party 4 Credit Card 5 Cash/Che

Total Packages 1 Total Weight 8 lbs.

612

Rev. Date 11/10 • Part #163136 • ©1994-2010 FedEx • PRINTED IN U.S.A. SRY

fedex.com 1.800.GoFedEx 1.800.463.3339

Login Sample Receipt Checklist

Client: Arrowhead Contracting

Job Number: 200-12423-1
SDG Number: 200-12423

Login Number: 12423
List Number: 1
Creator: Kirchner, Benjamin

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	586749, 750
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	AMBIENT
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	Container label left blank
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Appendix C

Compliance Sample Analytical Data – Water

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

September 21, 2012

Jennifer Oxford
CDM-FPC
110 Fieldcrest Avenue, 6th Floor
Edison, NJ 08837

RE: Old Roosevelt Field - 1208002

Enclosed are the results of analyses for samples received by the laboratory between 08/01/2012 and 08/23/2012. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1208002 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Project Narrative:

The National Environmental Laboratory Accreditation Conference (NELAC) is a voluntary environmental laboratory accreditation association of State and Federal agencies. NELAC established and promoted a national accreditation program that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAC accredited. The Laboratory tests that are accredited have met all the requirements established under the NELAC Standards.

Condition Comments

None

Comment(s):

Oil and Grease, Sample 1208066-02 was qualified with an "L" due to matrix spike recovery below the laboratory acceptability limit.

Data Qualifier(s):

U- The analyte was not detected at or above the Reporting Limit.
J- The identification of the analyte is acceptable; the reported value is an estimate.
K- The identification of the analyte is acceptable; the reported value may be biased high.
L- The identification of the analyte is acceptable; the reported value may be biased low.
NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

Reporting Limit(s): The Laboratory was able to achieve the Contract Required Quantitation Limits (CRQLs), where applicable, for each analyte requested, except for the following
Trace Volatile Organic Compounds:

Work Order 1208002:
The CRQL for Trans-1,3-Dichloropropene in water is 0.5 ug/L (SOM01.2-Trace). The Laboratory Reporting Limits were raised due to problems associated with the initial calibration curve for all samples.

Work Order 1208054 and 1208066:
The CRQL for Methyl Acetate in water is 0.5 ug/L (SOM01.2-Trace). The Laboratory Reporting Limits were raised

due to problems associated with the initial calibration curve for samples 1208054-01 through 1208054-05 and 1208066-01 through 1208066-03.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
CI-120731	1208002-01	Aqueous	07/31/2012 09:30	08/01/2012 08:45
EFF-120731	1208002-02	Aqueous	07/31/2012 09:45	08/01/2012 08:45
EW-1D-120731	1208002-03	Aqueous	07/31/2012 09:38	08/01/2012 08:45
EW-1S-120731	1208002-04	Aqueous	07/31/2012 09:40	08/01/2012 08:45
EW-2-120731	1208002-05	Aqueous	07/31/2012 10:15	08/01/2012 08:45
TB-120731	1208002-06	Aqueous	07/31/2012 08:00	08/01/2012 08:45
CI-120815	1208054-01	Aqueous	08/15/2012 09:30	08/16/2012 13:20
EFF-120815	1208054-02	Aqueous	08/15/2012 09:45	08/16/2012 13:20
EW-1D-120815	1208054-03	Aqueous	08/15/2012 09:38	08/16/2012 13:20
EW-1S-120815	1208054-04	Aqueous	08/15/2012 09:40	08/16/2012 13:20
TB-120815	1208054-05	Aqueous	08/15/2012 08:00	08/16/2012 13:20
CI-120822	1208066-01	Aqueous	08/22/2012 09:00	08/23/2012 14:55
EFF-120822	1208066-02	Aqueous	08/22/2012 09:05	08/23/2012 14:55
TB-120822	1208066-03	Aqueous	08/22/2012 08:00	08/23/2012 14:55

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Mercury	EPA 245.1 / SOP C-110	NELAP	Aqueous
E-Metals ICP Master	EPA 200.7 / SOP C-109	NELAP	Aqueous
Residue, Filterable	SM 2540 C / SOP C-37	NELAP	Aqueous
Residue, Non-Filterable	SM 2540 D / SOP C-33	NELAP	Aqueous
E-VOA 524.2 TRACE/SF	EPA 524.2 / SOP DW-1		Aqueous
Nitrate + Nitrite [As N]	EPA 353.2 / SOP C-79	NELAP	Aqueous
Oil & Grease	EPA 1664A / SOP C-126	NELAP	Aqueous

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: CI-120731			**Sample ID: 1208002-01**	
VOA-TRACE GCMS				
Dichlorodifluoromethane	15		0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U J	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	31		0.50	ug/L
1,1-Dichloroethene	2.6		0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.88		0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	1.6		0.50	ug/L
Methyl tert-Butyl Ether	3.4		0.50	ug/L
1,1-Dichloroethane	1.6		0.50	ug/L
cis-1,2-Dichloroethene	8.0		0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	0.57		0.50	ug/L
1,1,1-Trichloroethane	0.51		0.50	ug/L
Cyclohexane	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: CI-120731				**Sample ID: 1208002-01**
VOA-TRACE GCMS				
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	120		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	1.0	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	89		0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: CI-120731			**Sample ID: 1208002-01**	
VOA-TRACE GCMS				
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L
Metals ICP				
Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	17000		500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	40		10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	7000		500	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: CI-120731				**Sample ID: 1208002-01**
Metals ICP				
Manganese	15		5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	3600		500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	45000		1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	220		20	ug/L
Mercury CVAA				
Mercury	---	U	0.20	ug/L
Sanitary				
Residue, Filterable	230		10	mg/L
Residue, Non-Filterable	---	U	10	mg/L
Nitrate + Nitrite [As N]	5.1		0.50	mg/L
Oil & Grease	---	U	5.0	mg/L
Field ID: EFF-120731				**Sample ID: 1208002-02**
VOA-TRACE GCMS				
Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EFF-120731				**Sample ID: 1208002-02**
VOA-TRACE GCMS				
Bromomethane	---	U J	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	1.6		0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	3.1		0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EFF-120731				**Sample ID: 1208002-02**
VOA-TRACE GCMS				
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	1.0	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	1.9		0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EFF-120731				**Sample ID: 1208002-02**
VOA-TRACE GCMS				
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L
Metals ICP				
Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	17000		500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	7000		500	ug/L
Manganese	14		5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	3800		500	ug/L
Selenium	---	U	20	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EFF-120731				**Sample ID: 1208002-02**
Metals ICP				
Silver	---	U	5.0	ug/L
Sodium	43000		1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	180		20	ug/L
Mercury CVAA				
Mercury	---	U	0.20	ug/L
Sanitary				
Residue, Filterable	270		10	mg/L
Residue, Non-Filterable	---	U	10	mg/L
Nitrate + Nitrite [As N]	5.1		0.50	mg/L
Oil & Grease	---	U L	5.0	mg/L
Field ID: EW-1D-120731				**Sample ID: 1208002-03**
VOA-TRACE GCMS				
Dichlorodifluoromethane	21		0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U J	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	47		0.50	ug/L
1,1-Dichloroethene	3.8		0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.3		0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EW-1D-120731			**Sample ID: 1208002-03**	
VOA-TRACE GCMS				
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	2.2		0.50	ug/L
Methyl tert-Butyl Ether	0.63		0.50	ug/L
1,1-Dichloroethane	2.1		0.50	ug/L
cis-1,2-Dichloroethene	9.1		0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	0.70		0.50	ug/L
1,1,1-Trichloroethane	0.72		0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	100		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EW-1D-120731			**Sample ID: 1208002-03**	
VOA-TRACE GCMS				
trans-1,3-Dichloropropene	---	U	1.0	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	140		0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EW-1S-120731			**Sample ID: 1208002-04**	
VOA-TRACE GCMS				
Dichlorodifluoromethane	3.7		0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U J	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	2.1		0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	12		0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	6.1		0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EW-1S-120731			**Sample ID: 1208002-04**	
VOA-TRACE GCMS				
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	0.51		0.50	ug/L
Trichloroethene	170		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	1.0	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	21		0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EW-1S-120731				**Sample ID: 1208002-04**
VOA-TRACE GCMS				
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L
Field ID: EW-2-120731				**Sample ID: 1208002-05**
VOA-TRACE GCMS				
Dichlorodifluoromethane	22		0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U J	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	46		0.50	ug/L
1,1-Dichloroethene	3.8		0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.4		0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EW-2-120731				**Sample ID: 1208002-05**
VOA-TRACE GCMS				
trans-1,2-Dichloroethene	2.2		0.50	ug/L
Methyl tert-Butyl Ether	0.55		0.50	ug/L
1,1-Dichloroethane	2.1		0.50	ug/L
cis-1,2-Dichloroethene	8.9		0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	0.71		0.50	ug/L
1,1,1-Trichloroethane	0.72		0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	100		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	1.0	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	140		0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EW-2-120731			**Sample ID: 1208002-05**	
VOA-TRACE GCMS				
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L
Metals ICP				
Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EW-2-120731			**Sample ID: 1208002-05**	
Metals ICP				
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	15000		500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	6500		500	ug/L
Manganese	7.1		5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	4100		500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	30000		1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	270		20	ug/L
Mercury CVAA				
Mercury	---	U	0.20	ug/L
Sanitary				
Residue, Filterable	190		10	mg/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EW-2-120731				**Sample ID: 1208002-05**
Sanitary				
Residue, Non-Filterable	---	U	10	mg/L
Nitrate + Nitrite [As N]	6.6		0.50	mg/L
Oil & Grease	---	U	5.0	mg/L
Field ID: TB-120731				**Sample ID: 1208002-06**
VOA-TRACE GCMS				
Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U J	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	0.50	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: TB-120731			**Sample ID: 1208002-06**	
VOA-TRACE GCMS				
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	---	U	0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	1.0	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	---	U	0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: TB-120731				**Sample ID: 1208002-06**
VOA-TRACE GCMS				
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L
Field ID: CI-120815				**Sample ID: 1208054-01**
VOA-TRACE GCMS				
Dichlorodifluoromethane	11		0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	21		0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: CI-120815				**Sample ID: 1208054-01**
VOA-TRACE GCMS				
1,1-Dichloroethene	2.1		0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.66		0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	1.0	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	1.2		0.50	ug/L
Methyl tert-Butyl Ether	4.7		0.50	ug/L
1,1-Dichloroethane	1.1		0.50	ug/L
cis-1,2-Dichloroethene	6.7		0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	110		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: CI-120815				**Sample ID: 1208054-01**
VOA-TRACE GCMS				
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	91		0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: CI-120815			**Sample ID: 1208054-01**	
VOA-TRACE GCMS				
Metals ICP				
Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	16000		500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	1100		50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	6900		500	ug/L
Manganese	14		5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	3500		500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	43000		1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: CI-120815				**Sample ID: 1208054-01**
Metals ICP				
Zinc	160		20	ug/L
Mercury CVAA				
Mercury	---	U	0.20	ug/L
Sanitary				
Residue, Filterable	280		10	mg/L
Residue, Non-Filterable	---	U	10	mg/L
Nitrate + Nitrite [As N]	4.8		0.50	mg/L
Field ID: EFF-120815				**Sample ID: 1208054-02**
VOA-TRACE GCMS				
Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	1.0	ug/L
Methylene Chloride	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EFF-120815				**Sample ID: 1208054-02**
VOA-TRACE GCMS				
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	1.6		0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	3.0		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	1.9		0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EFF-120815				**Sample ID: 1208054-02**
VOA-TRACE GCMS				
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L
Metals ICP				
Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EFF-120815				**Sample ID: 1208054-02**
Metals ICP				
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	16000		500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	6700		500	ug/L
Manganese	13		5.0	ug/L
Nickel	---	U	20	ug/L
Potassium	3500		500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	41000		1000	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	110		20	ug/L
Mercury CVAA				
Mercury	---	U	0.20	ug/L
Sanitary				

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EFF-120815				**Sample ID: 1208054-02**
Sanitary				
Residue, Filterable	240		10	mg/L
Residue, Non-Filterable	---	U	10	mg/L
Nitrate + Nitrite [As N]	4.9		0.50	mg/L
Oil & Grease	---	U	5.0	mg/L
Field ID: EW-1D-120815				**Sample ID: 1208054-03**
VOA-TRACE GCMS				
Dichlorodifluoromethane	16		0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	34		0.50	ug/L
1,1-Dichloroethene	3.4		0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0		0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	1.0	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	2.0		0.50	ug/L
Methyl tert-Butyl Ether	0.68		0.50	ug/L
1,1-Dichloroethane	1.8		0.50	ug/L
cis-1,2-Dichloroethene	8.0		0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EW-1D-120815			**Sample ID: 1208054-03**	
VOA-TRACE GCMS				
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	0.60		0.50	ug/L
1,1,1-Trichloroethane	0.61		0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	89		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	140		0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EW-1D-120815				**Sample ID: 1208054-03**
VOA-TRACE GCMS				
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L
Field ID: EW-1S-120815				**Sample ID: 1208054-04**
VOA-TRACE GCMS				
Dichlorodifluoromethane	2.4		0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	1.5		0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EW-1S-120815			**Sample ID: 1208054-04**	
VOA-TRACE GCMS				
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	1.0	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	11		0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	5.2		0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	150		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EW-1S-120815			**Sample ID: 1208054-04**	
VOA-TRACE GCMS				
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	18		0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EW-1S-120815				**Sample ID: 1208054-04**
VOA-TRACE GCMS				
1,2,3-Trichlorobenzene	---	U	0.50	ug/L
Field ID: TB-120815				**Sample ID: 1208054-05**
VOA-TRACE GCMS				
Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	1.0	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: TB-120815				**Sample ID: 1208054-05**
VOA-TRACE GCMS				
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	---	U	0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	---	U	0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: TB-120815				**Sample ID: 1208054-05**
VOA-TRACE GCMS				
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L
Field ID: CI-120822				**Sample ID: 1208066-01**
VOA-TRACE GCMS				
Dichlorodifluoromethane	12		0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	21		0.50	ug/L
1,1-Dichloroethene	2.0		0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.59		0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: CI-120822			**Sample ID: 1208066-01**	
VOA-TRACE GCMS				
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	1.0	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	1.0		0.50	ug/L
Methyl tert-Butyl Ether	5.0		0.50	ug/L
1,1-Dichloroethane	1.0		0.50	ug/L
cis-1,2-Dichloroethene	6.6		0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	120		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: CI-120822			**Sample ID: 1208066-01**	
VOA-TRACE GCMS				
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	92		0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EFF-120822				**Sample ID: 1208066-02**
VOA-TRACE GCMS				
Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L
Methyl Acetate	---	U	1.0	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	1.9		0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EFF-120822			**Sample ID: 1208066-02**	
VOA-TRACE GCMS				
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	3.5		0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L
Tetrachloroethene	2.0		0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: EFF-120822				**Sample ID: 1208066-02**
VOA-TRACE GCMS				
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L
Sanitary				
Oil & Grease	---	U L	5.0	mg/L
Field ID: TB-120822				**Sample ID: 1208066-03**
VOA-TRACE GCMS				
Dichlorodifluoromethane	---	U	0.50	ug/L
Chloromethane	---	U	0.50	ug/L
Vinyl Chloride	---	U	0.50	ug/L
Bromomethane	---	U	0.50	ug/L
Chloroethane	---	U	0.50	ug/L
Trichlorofluoromethane	---	U	0.50	ug/L
1,1-Dichloroethene	---	U	0.50	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	0.50	ug/L
Carbon Disulfide	---	U	0.50	ug/L
Acetone	---	U	5.0	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: TB-120822				**Sample ID: 1208066-03**
VOA-TRACE GCMS				
Methyl Acetate	---	U	1.0	ug/L
Methylene Chloride	---	U	0.50	ug/L
trans-1,2-Dichloroethene	---	U	0.50	ug/L
Methyl tert-Butyl Ether	---	U	0.50	ug/L
1,1-Dichloroethane	---	U	0.50	ug/L
cis-1,2-Dichloroethene	---	U	0.50	ug/L
2-Butanone	---	U	5.0	ug/L
Bromochloromethane	---	U	0.50	ug/L
Chloroform	---	U	0.50	ug/L
1,1,1-Trichloroethane	---	U	0.50	ug/L
Cyclohexane	---	U	0.50	ug/L
Carbon Tetrachloride	---	U	0.50	ug/L
Benzene	---	U	0.50	ug/L
1,2-Dichloroethane	---	U	0.50	ug/L
Trichloroethene	---	U	0.50	ug/L
1,2-Dichloropropane	---	U	0.50	ug/L
Bromodichloromethane	---	U	0.50	ug/L
cis-1,3-Dichloropropene	---	U	0.50	ug/L
4-Methyl-2-Pentanone	---	U	5.0	ug/L
Toluene	---	U	0.50	ug/L
trans-1,3-Dichloropropene	---	U	0.50	ug/L
1,1,2-Trichloroethane	---	U	0.50	ug/L

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1208002

Project Number: 1208002

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: TB-120822				**Sample ID: 1208066-03**
VOA-TRACE GCMS				
Tetrachloroethene	---	U	0.50	ug/L
Methylcyclohexane	---	U	0.50	ug/L
Dibromochloromethane	---	U	0.50	ug/L
1,2-Dibromoethane	---	U	0.50	ug/L
2-Hexanone	---	U	5.0	ug/L
Chlorobenzene	---	U	0.50	ug/L
Ethylbenzene	---	U	0.50	ug/L
m/p-Xylene	---	U	0.50	ug/L
o-Xylene	---	U	0.50	ug/L
Styrene	---	U	0.50	ug/L
Bromoform	---	U	0.50	ug/L
Isopropylbenzene	---	U	0.50	ug/L
1,1,2,2-Tetrachloroethane	---	U	0.50	ug/L
1,3-Dichlorobenzene	---	U	0.50	ug/L
1,4-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dichlorobenzene	---	U	0.50	ug/L
1,2-Dibromo-3-Chloropropane	---	U	0.50	ug/L
1,2,4-Trichlorobenzene	---	U	0.50	ug/L
1,2,3-Trichlorobenzene	---	U	0.50	ug/L

Appendix D

Compliance Sample Field Water Quality Logs

Old Roosevelt Field Superfund Site
Groundwater Treatment Plant
Water Quality Log

Date: 8/15/12

EW-1S Influent	pH	5.36		
	Temp	18.39	°C	
	Conductivity	0.421	mS/m	
	ORP	210	mV	
	TDS	8.16	mg/l	
EW-1I Influent	pH			
	Temp		°C	
	Conductivity		mS/m	Not Sampled
	ORP		mV	
	TDS		mg/l	
EW-1D Influent	pH	5.37		
	Temp	16.81	°C	
	Conductivity	0.280	mS/m	
	ORP	176	mV	
	TDS	8.70	mg/l	
Combined Influent #1 (prior to EQ tank)	pH	5.49		
	Temp	17.52	°C	
	Conductivity	0.350	mS/m	
	ORP	167	mV	
	TDS	6.58	mg/l	
Combined Influent #2 (post bag filter, prior to Air Stripper)	pH			
	Temp		°C	
	Conductivity		mS/m	Not Sampled
	ORP		mV	
	TDS		mg/l	
Combined Effluent (post caustic injection)	pH	6.61		
	Temp	16.28	°C	
	Conductivity	0.333	mS/m	
	ORP	190	mV	
	TDS	10.31	mg/l	

Old Roosevelt Field Superfund Site
Groundwater Treatment Plant
Water Quality Log

Date: 8/22/12

EW-1S Influent	pH			
	Temp		°C	
	Conductivity		mS/m	Not Sampled
	ORP		mV	
	TDS		mg/l	
EW-1I Influent	pH			
	Temp		°C	
	Conductivity		mS/m	Not Sampled
	ORP		mV	
	TDS		mg/l	
EW-1D Influent	pH			
	Temp		°C	
	Conductivity		mS/m	Not Sampled
	ORP		mV	
	TDS		mg/l	
Combined Influent #1 (prior to EQ tank)	pH	6.13		
	Temp	18.17	°C	
	Conductivity	0.411	mS/m	
	ORP	69	mV	
	TDS	6.62	mg/l	
Combined Influent #2 (post bag filter, prior to Air Stripper)	pH			
	Temp		°C	
	Conductivity		mS/m	Not Sampled
	ORP		mV	
	TDS		mg/l	
Combined Effluent (post caustic injection)	pH	6.89		
	Temp	17.51	°C	
	Conductivity	0.339	mS/m	
	ORP	89	mV	
	TDS	9.40	mg/l	

SEPTEMBER 2012 MONTHLY OPERATIONS AND MAINTENANCE SUMMARY
OLD ROOSEVELT FIELD SUPERFUND SITE
GARDEN CITY, NEW YORK

CDM Federal Programs Corporation
Subcontract No.
3320-023-001-CN-S

Submitted to:

CDM Federal Programs Corporation
110 Fieldcrest Ave. 6th Floor
Edison, New Jersey 08837

Submitted by:

Arrowhead Contracting, Inc.
10981 Eicher Drive
Lenexa, Kansas 66219

Table of Contents

List of Tables ii
List of Appendices ii
List of Acronyms iii
1.0 Introduction 1
2.0 Operation Activities 1
2.1 Operation Review 1
2.2 Planned Shutdowns 1
2.3 Unplanned Shutdowns 1
3.0 Compliance Sampling 2
3.1 Sampling Activities 2
3.2 Data Summary 2
4.0 Maintenance Activities 3
5.0 Operational Problems Encountered and Remedies 3
6.0 Health and Safety 4

List of Tables

Table	*Title*
2-1	Groundwater Treatment System Operation Summary
3-1	Monthly Sampling Summary
3-2	SPDES Permit Equivalent Parameter Analytical Summary, September 2012
3-3	Operating Values

List of Appendices

A	System Run Time Log
B	Compliance Sample Analytical Data - Air
C	Compliance Sample Analytical Data - Water
D	Compliance Sample Field Water Quality Logs

List of Acronyms

Arrowhead	Arrowhead Contracting, Inc.
CDM Smith	CDM Federal Programs Corp.
CFM	cubic feet per minute
EW	Extraction Well
°F	Degrees Fahrenheit
g/mol	gram per mol
GAC	Granular Activated Carbon
gph	Gallons per hour
gpm	Gallons per minute
in.H_2O	inch of water
kWh	Kilowatt hours
LAI	Lawrence Aviation Industries
lb/day	pound per day
µg/l	micrograms per liter
mg/l	milligrams per liter
NC	Not collected
NS	Not Sampled
O&M	Operation and maintenance
PLC	Programmable logic controller
ppbv	part per billion per volume
ppm	parts per million
PSI	pounds per square inch
SPDES	State Pollution Discharge Elimination System
SU	Standard Unit
TAL	Target Analyte List
TCL	Target Compound List
TDS	Total Dissolved Solids
TOC	Total Organic Carbon
TSS	Total Suspended Solids
U	Analyzed for but not detected
VOC	Volatile Organic Compound

1.0 Introduction

This report summarizes operation and maintenance activities for the groundwater treatment system at the Old Roosevelt Field (ORF) Superfund Site located in Garden City, New York during the month of September 2012. This document was prepared by Arrowhead Contracting, Inc. (Arrowhead) for CDM Federal Programs Corporation (CDM Smith) under Subcontract No. 3320-023-001-CN-S

2.0 Operation Activities

The system operated throughout the month of September using two of the three extraction wells. The plant operated at an average of 180 gallons per minute (gpm) during the reporting period. Well EW-1I remained offline the majority of the month due to a faulty pump. On September 26th, ACI inspected the y-strainer in the well vault at EW-1I and found a large build-up of iron in the screen which was determined to be the reason for the lack of flow from the well. The screen was cleaned using DPA solution and the pump was returned to service. In the process of removing the screen, the plug for the y-strainer was damaged. ACI took the plug out of the EW-1S y-strainer to use in EW-1I until a replacement part arrives. ACI also found iron buildup in EW-1S and EW-1D. The screens for both wells were cleaned while EW-1D and EW-1I were returned to service. EW-1S remained offline for the remainder of the month while a new plug was ordered for the y-strainer.

2.1 Operation Review

During the reporting period, 6,921,055 gallons were extracted and treated via air stripping with discharge routed to stormwater basin #124. The plant operated this period with two hours of planned shutdown time and 77 hours of unplanned shutdown time resulting in operation 89.10% of the month. Refer to Table 2-1 for a summary of plant operation and Appendix A for the control system data summary.

2.2 Planned Shutdowns

There was one planned shutdowns totaling two hours for the month of September. The shutdown was due to the cleaning of the y-strainers in the well vaults, as discussed in Section 2.0.

2.3 Unplanned Shutdowns

There were five unplanned shutdowns due to VFD faults totaling 77 hours for the month of September.

3.0 Compliance Sampling

Sampling conducted this month consisted of the routine bi-monthly water samples and one air sample. All water samples were submitted to the EPA Region 2 laboratory for analysis while the air sample was submitted to the project subcontract laboratory, Test America located in Burlington, Vermont.

3.1 Sampling Activities

Monthly Operation and Maintenance (O&M) water samples were collected on September 11th and September 26th. Per the SPDES permit equivalent, samples are collected for selected parameters twice per month, while samples required for monitoring system performance were collected once per month. Table 3-1 summarizes the required sample frequency and analyte list from each applicable sample location. Influent samples were not collected from EW-1I due to the well being down.

One sample of discharge air was collected on September 26th from a sample port located after the air stripper. The sample was analyzed for Volatile Organic Compounds (VOCs) in accordance with EPA Method TO-15. The complete analytical data package can be found in Appendix B. The following table presents a summary of the results:

Location	Constituent	Effluent Air Concentration (ppbv)	Molecular Weight (g/mol)	Air flow Rate (CFM)	Emmissions Rate (lb/day)
Air Stripper Effluent	Dichlorodifluoromethane	40	120.91	2,400	0.04265
	Trichlorofluoromethane	71	137.37	2,400	0.08600
	1,1-Dichloroethene	11	96.94	2,400	0.00940
	Methyl tert-butyl ether	6.5	88.15	2,400	0.00505
	cis-1,2-Dichloroethene	27	96.95	2,400	0.02308
	Tetrachloroethene	300	165.82	2,400	0.43866
	Trichloroethene	340	131.38	2,400	0.39389

3.2 Data Summary

Review of analytical data from bi-monthly compliance sampling indicates the plant met the discharge requirements for all regulated VOCs and applicable metals. Wet chemistry parameters were met for all parameters.

Refer to Table 3-2 for a summary of permit equivalent analyte results and Appendix C for a complete analytical data package. Water quality measurements taken during each sampling event are attached in Appendix D.

Data validation was completed by EPA Region 2 laboratory on all water samples, with qualifiers added as required. The additions of qualifiers to data by EPA during data validation are not detailed in their report but the case narrative for the laboratory report did not contain any comments or changes in reporting limits to samples related to the O&M sampling.

Operating parameters not monitored by the programmable logic controller (PLC) were collected on a weekly basis with the data summarized in Table 3-3.

4.0 Maintenance Activities

All maintenance performed during this period was within the Scope of Work and consisted of routine maintenance activities.

Routine maintenance completed during this reporting period included the following:

- Replacement of filter elements in bag filter housings BF-1 and BF-2:
  - September 7th – Changed 6 bag filters
  - September 12th – Changed 6 bag filters
  - September 20th – Changed 6 bag filters
  - September 23rd – Changed 6 bags filters
  - September 27th – Changed 6 bag filters

5.0 Operational Problems Encountered and Remedies

On September 26th, the issues with well EW-1I were resolved. The screen in the y-strainer, located between the check valve and the air release valve inside the well vault, was completely plugged with iron deposits. ACI cleaned the screen and restarted the well. The well is working properly now. Iron was also found in the strainers of both the other wells. The y-strainer screens will now be checked on a regular basis.

6.0 Health and Safety

All work was done according to the project health and safety plan. No injuries or reported incidents occurred during the reporting period.

Operators Verification: On behalf of Arrowhead Contracting Inc., I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as may be noted above.

Doug Ronk: _____

Project Manager

Table 2-1
Old Roosevelt Field Superfund Site
Groundwater Treatment System
Operation Summary
September 2012

Item	January 2012	February 2012	March 2012	April 2012	May 2012	June 2012	July 2012	August 2012	September 2012	Cummulative	Notes
Calender days in period	31	29	31	30	31	30	31	31	30	274	
Treatment Plant											
- Run time hours	600	650	707	719	672	615	718	707	642	6030	
- Uptime %	80.65%	93.39%	95.03%	99.86%	90.37%	85.42%	96.51%	95.03%	89.10%	91.70%	
Treatment System Downtime (hours)											
- Planned	122	46	35	1	7	15	4	0	2	232	
- Unplanned	22	0	2	0	65	90	22	37	77	315	
Well IW-1D											
- Gallons extracted	3,012,802	3,757,323	1,175,249	0	0	3,774,687	5,086,961	5,045,042	4,610,056	26,462,120	*Well IW-1D was removed from service from 3/13/2012 to 6/6/2012
- Average Flow (gpm)	111	98	80	0	0	118	118	122	120	110	
Well IW-1I											
- Gallons extracted	1,871,342	2,487,744	2,508,002	2,584,468	2,435,937	47,900	0	3,241	357,311	12,295,944	
- Average Flow (gpm)	73	65	61	60	62	25	0	12	60	63	
Well IW-1S											
- Gallons extracted	1,536,837	2,005,829	2,441,717	2,584,452	2,627,651	2,297,920	2,573,828	2,522,534	1,953,688	20,544,455	
- Average Flow (gpm)	57	52	61	60	67	63	60	61	60	60	
Combined Influent											
- Gallons extracted	6,420,981	8,250,896	6,124,968	5,168,920	5,063,588	6,120,507	7,660,789	7,570,817	6,921,055	59,302,520	

Legend:
gpm - gallons per minute
NA - Data not available
* - Refer to the March 2012 O&M report for explanation for EW-1D shutdown

Table 3-1
Old Roosevelt Field Superfund Site
Groundwater Treatment Plant
Monthly Sampling Summary

Location	Sample Analysis															
	TCL VOC's (SOM0.12)		TAL Metals and Mercury (ISM01.3)		TSS (2540D)		TDS (2540C)		Oil and Grease (see note) (1664a)		Nirate and Nitrite (as N) (353.2)		Total Cyanide (see note) (ISM01.3)		Dissovled Oxygen/Temperature/Conductivity/pH/Turbidity/ORP	
	Week 2	Week 4	Week 2	Week 4	Week 2	Week 4	Week 2	Week 4	Week 2	Week 4	Week 2	Week 4	Week 2	Week 4	Week 2	Week 4
Influent Samples																
- EW-1S	✓														✓	✓
- EW-1I	✓														✓	✓
- EW-1D	✓														✓	✓
- Combined Influent (CI)	✓	✓	✓		✓		✓		✓	✓	✓		✓		✓	✓
Effluent Samples																
- Post air stripper and after caustic injection (EFF)	✓	✓	✓		✓		✓		✓	✓	✓		✓		✓	✓

Notes:

Cyanide sample to be collected only in the following week 2 monthly sampling: January, April, July, and October.

Oil and grease sample to be collected from combined influent (CI) in the following week 2 monthly sampling: February, March, May, and June.

Table 3-2
Old Roosevelt Field Superfund Site
Groundwater Treatment Plant
SPDES Permit Equivalent Parameter Analytical Summary
September 2012

Parameter	Influent Samples												Effluent Samples*						Discharge Permit Equivalent Limit		Notes
	Week 2**										Week 4**		Week 2**				Week 4**				
	EW-1I		EW-1S				EW-1D				Combined Influent										
pH	NS	SU	5.39		SU		5.35		SU		5.52		SU	5.86		SU	6.63		SU	6.57		SU	6.5 to 8.5	SU	pH values from water quality log in Appendix D
Dichlorodifluromethane	NS	µg/l	2.3		µg/l		14		µg/l		11		µg/l	2.9		µg/l	0.50	U	µg/l	0.50	U	µg/l	5.0	µg/l	
1,1-Dichloroethane	NS	µg/l	0.18	J	µg/l		1.8		µg/l		1.2		µg/l	0.91	J	µg/l	0.50	U	µg/l	0.50	U	µg/l	5.0	µg/l	
cis-1,2-Dichloroethylene	NS	µg/l	4.7		µg/l		6.8		µg/l		6.0		µg/l	5.0	U	µg/l	0.50	U	µg/l	0.50	U	µg/l	5.0	µg/l	
trans-1,2-Dichloroethylene	NS	µg/l	0.15	J	µg/l		1.70		µg/l		1.1		µg/l	0.86		µg/l	0.50	U	µg/l	0.50	U	µg/l	5.0	µg/l	
trichloroflorromethane	NS	µg/l	1.3		µg/l		21	D	µg/l		14		µg/l	9.5		µg/l	0.50	U	µg/l	0.50	U	µg/l	5.0	µg/l	
Methyl tert-Butyl Ether (MTBE)	NS	µg/l	11		µg/l		0.72		µg/l		4.50		µg/l	3.5		µg/l	1.3		µg/l	0.95		µg/l	monitor		
1,1,1-Trichloroethane	NS	µg/l	0.085	J	µg/l		0.50	U	µg/l		0.50	U	µg/l	0.30	J	µg/l	0.50	U	µg/l	0.50	U	µg/l	5.0	µg/l	
Tetrachloroethlyene (PCE)	NS	µg/l	19		µg/l		120	D	µg/l		71		µg/l	110	D	µg/l	0.50	U	µg/l	0.50	U	µg/l	5.0	µg/l	
Trichloroethylene (TCE)	NS	µg/l	150	D	µg/l		79	D	µg/l		100		µg/l	120	D	µg/l	0.31		µg/l	0.50	U	µg/l	5.0	µg/l	
Total Suspended Solids	NS	mg/l	NS		mg/l		NS		mg/l		10	U	mg/l	NS		mg/l	10	U	mg/l	NS		mg/l	50	mg/l	
Total Dissolved Solids	NS	mg/l	NS		mg/l		NS		mg/l		240		mg/l	NS		mg/l	220		mg/l	NS		mg/l	1000	mg/l	
Oil & Grease	NS	mg/l	NS		mg/l		NS		mg/l		NS		mg/l	NS		mg/l	5.0	U	mg/l	5.0	U	mg/l	15.0	mg/l	
Nitrate + Nitrite (as N)	NS	mg/l	NS		mg/l		NS		mg/l		4.4		mg/l	NS		mg/l	4.5		mg/l	NS		mg/l	20	mg/l	
Chromium, Total	NS	µg/l	NS		µg/l		NS		µg/l		10	U	µg/l	NS		µg/l	10	U	µg/l	NS		µg/l	100	µg/l	
Copper, Total	NS	µg/l	NS		µg/l		NS		µg/l		3.4	J	µg/l	NS		µg/l	1.5	J	µg/l	NS		µg/l	1000	µg/l	
Cyanide, Total	NS	µg/l	NS		µg/l		NS		µg/l		NS		µg/l	NS		µg/l	NS		µg/l	NS		µg/l	400	µg/l	
Iron, Total -NET	NS	µg/l	NS		µg/l		NS		µg/l		26.7	J	µg/l	NS		µg/l	100	U	µg/l	NS		µg/l	600	µg/l	
Lead, Total	NS	µg/l	NS		µg/l		NS		µg/l		10	U	µg/l	NS		µg/l	10	U	µg/l	NS		µg/l	50	µg/l	
Manganese - NET	NS	µg/l	NS		µg/l		NS		µg/l		15	UJ	µg/l	NS		µg/l	15	UJ	µg/l	NS		µg/l	monitor		
Mercury, Total	NS	µg/l	NS		µg/l		NS		µg/l		0.20	U	µg/l	NS		µg/l	0.20	U	µg/l	NS		µg/l	1.4	µg/l	
Silver, Total	NS	µg/l	NS		µg/l		NS		µg/l		10	UJ	µg/l	NS		µg/l	10	UJ	µg/l	NS		µg/l	100	µg/l	
Zinc, Total	NS	µg/l	NS		µg/l		NS		µg/l		133		µg/l	NS		µg/l	113		µg/l	NS		µg/l	5000	µg/l	

Notes:
Refer to Appendix B for complete analytical data packages.
D - Sample was analyzed at a higher dilution factor
ITP - Initial Testing Program
J - Indicates an estimated value
U - Analyzed for but not detected
L - The reported value may be biased low
K - The reported value may be biased high
NS - Not Sampled
µg/l - micrograms per liter
mg/l -milligrams per liter
SPDES - State Pollutant Discharge Elimination System
SU - Standard Unit
* - Effluent sample is point of compliance with SPDES permit equivalent
** - Week 2 sample collected 9/11/2012, week 4 sample collected 9/26/2012. Analytes for each sampling event per SPDES permit equivalent requirements.

Table 3-3
Old Roosevelt Field
Groundwater Treatment Plant
Operating Values

Parameter	Date: 9/5/12 Reading		Date: 9/13/12 Reading		Date: 9/19/12 Reading		Date: 9/26/12 Reading	
Caustic tank T-2 level	275	gallons	275	gallons	275	gallons	275	gallons
Caustic metering pump discharge pressure	NC	psi	NC	psi	NC	psi	NC	psi
Pump P-1 discharge pressure	2	psi	2	psi	2	psi	2	psi
Pump P-2 discharge pressure	10	psi	10	psi	10	psi	11	psi
Air stripper blower discharge temp	89	°F	88	°F	89	°F	80	°F
Air stripper blower differential pressure	10	in H_2O	11	in H_2O	10	in H_2O	11	in H_2O
VOC level in discharge air	93	ppm	76	ppm	84	ppm	17	ppm
Kilowatt hours (meter reading x40)*	185,400	kWh	189,360	kWh	193,320	kWh	200,000	kWh
Effluent pH	6.91	SU	6.93	SU	6.89	SU	6.92	SU

Legend:
NC - Not Collected
ppm - Parts per million
psi - Pounds per square inch
°F - Degrees Fahrenheit
kWh - Kilowatt hour
in H_2O – Inches water column
SU - Standard Unit
VOC - Volatile Organic Compound
*Spot reading multiplied by factor of 40 per manufacturer's direction

Appendix A
System Run Time Log

Appendix A
Old Roosevelt Field Superfund Site
Groundwater Treatment Plant
System Runtime Log
September 2012

Day	Maximum Bag Filter Differential Pressure psi	Average Effluent pH SU	Well EW-1D daily total discharge gallons	Well EW-1D Aveage Flow Rate gpm	Well EW-1D Average Water Table Elevation ft, amsl	Well EW-1I daily total discharge gallons	Well EW-1I Average Flow Rate gpm	Well EW-1I Average Water Table Elevation ft, amsl	Well EW-1S daily total discharge gallons	Well EW-1S Average Flow Rate gpm	Well EW-1S Average Water Table Elevation ft, amsl	Notes
1	0.15	6.89	NA	NA	193.58	NA	NA	145.72	NA	NA	191.79	
2	0.15	6.91	NA	NA	193.84	NA	NA	145.72	NA	NA	191.95	
3	0.82	7.00	68,088	120	191.86	NA	NA	145.72	34,042	60	190.47	
4	2.10	7.07	172,480	120	189.43	NA	NA	145.72	86,240	60	188.46	
5	6.78	7.04	172,080	120	189.70	NA	NA	145.72	86,042	60	188.72	
6	18.1	7.01	172,640	120	189.52	NA	NA	145.72	86,320	60	188.68	
7	21.4	7.01	154,042	120	189.59	NA	NA	145.72	77,020	60	188.78	
8	0.82	7.05	172,186	120	189.26	NA	NA	145.72	86,094	60	188.51	
9	0.75	7.05	172,640	120	189.48	NA	NA	145.72	86,320	60	188.66	
10	0.87	7.07	172,192	120	189.17	NA	NA	145.72	86,096	60	188.42	
11	1.13	7.08	172,840	120	189.03	NA	NA	145.72	86,420	60	188.29	
12	3.48	7.00	154,550	120	189.32	NA	NA	145.72	77,272	60	188.51	
13	6.71	7.04	171,735	119	188.82	NA	NA	145.72	85,872	60	188.11	
14	1.76	6.87	171,735	119	183.81	NA	NA	141.78	85,872	60	183.09	
15	0.97	7.06	172,640	120	188.95	NA	NA	145.72	86,320	60	188.17	
16	0.71	7.05	172,660	120	189.03	NA	NA	145.72	86,330	60	188.22	
17	0.77	7.04	172,700	120	188.82	NA	NA	145.72	86,350	60	188.08	
18	0.82	7.07	172,520	120	189.00	NA	NA	145.72	86,260	60	188.19	
19	1.32	7.07	172,720	120	189.23	NA	NA	145.72	86,360	60	188.42	
20	3.36	7.07	172,640	120	189.19	NA	NA	145.72	86,320	60	188.43	
21	9.21	7.02	172,660	120	187.83	NA	NA	144.69	86,330	60	187.09	
22	18.7	7.07	172,720	120	189.18	NA	NA	145.72	86,360	60	188.42	
23	22.0	7.06	157,122	119	189.76	NA	NA	145.72	78,564	60	188.85	
24	0.81	7.05	172,660	120	189.22	NA	NA	145.72	86,330	60	188.43	
25	0.82	7.05	172,660	120	189.21	NA	NA	145.72	86,330	60	188.41	
26	1.04	7.06	157,248	120	189.30	36,349	60	162.84	48,224	60	189.60	
27	1.96	7.05	123,898	120	189.93	61,962	60	193.80	NA	NA	191.27	
28	0.81	7.12	172,700	120	188.74	86,350	60	193.80	NA	NA	191.26	
29	0.81	7.12	172,640	120	188.83	86,320	60	193.80	NA	NA	191.38	
30	1.48	7.13	172,660	120	188.78	86,330	60	193.80	NA	NA	191.37	

Legend

gpm	gallons per minute
SU	Standard unit
ft, amsl	Feet above mean sea level
max	maximum
avg	average
NA	system/pump was not operating
ND	no data available

Appendix B

Compliance Sample Analytical Data – Air

ANALYTICAL REPORT

Job Number: 200-12991-1

SDG Number: 200-12991

Job Description: Old Roosevelt - Air Only

For:
Arrowhead Contracting
10981 Eicher
Lenexa, KS 66219

Attention: Mr. Doug Ronk

Approved for release.
Rayburn J Lavigne
Project Manager I
10/16/2012 11:27 AM

Rayburn J Lavigne
Project Manager I
rayburnj.lavigne@testamericainc.com
10/16/2012

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

Table of Contents

Cover Title Page 1

Data Summaries 4

Report Narrative 4

Manual Integration Summary 5

Sample Summary 8

Executive Summary 9

Method Summary 10

Method / Analyst Summary 11

Sample Datasheets 12

QC Data Summary 15

Data Qualifiers 21

QC Association Summary 22

Lab Chronicle 23

Reagent Traceability 24

Certification Summary 97

Organic Sample Data 98

Air - GC/MS VOA 98

Method TO15 98

Method TO15 QC Summary 99

Method TO15 Sample Data 106

Standards Data 124

Method TO15 ICAL Data 124

Method TO15 CCAL Data 181

Raw QC Data 199

Method TO15 Tune Data 199

Method TO15 Blank Data 207

Table of Contents

Method TO15 LCS/LCSD Data 215

Method TO15 Run Logs 221

Method TO15 Prep Data 225

Air Canister Dilution 226

Pre-shipment Certification 227

LCS Data 228

Blank Data 230

Tune Data 238

IS/RT Data 240

Clean Canister Data 242

ICAL Data 249

ICV/CCV Data 259

Run Logs 265

Shipping and Receiving Documents 268

Client Chain of Custody 269

Sample Receipt Checklist 271

CASE NARRATIVE

Client: Arrowhead Contracting

Project: Old Roosevelt - Air Only

Report Number: 200-12991-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/02/2012; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS - TO-15

Sample BA316 was analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 10/10/2012.

1,2,4-Trichlorobenzene failed the recovery criteria high (145 percent) for LCS 200-46287/3. Please refer to the QC report for details.

Sample BA316[15X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOC analysis.

All other quality control parameters were within the acceptance limits.

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Instrument ID: C.i Analysis Batch Number: 45233

Lab Sample ID: IC 200-45233/3 Client Sample ID:

Date Analyzed: 09/19/12 13:52 Lab File ID: cla003.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	5.12	Peak not found by the data system	wrd	09/20/12 08:29

Lab Sample ID: IC 200-45233/4 Client Sample ID:

Date Analyzed: 09/19/12 14:45 Lab File ID: cla004.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Chloropropene	8.85	Baseline event	wrd	09/20/12 08:31
trans-1,2-Dichloroethene	9.65	Baseline event	wrd	09/20/12 08:32
n-Nonane	19.75	Baseline event	wrd	09/20/12 08:33

Lab Sample ID: IC 200-45233/5 Client Sample ID:

Date Analyzed: 09/19/12 15:38 Lab File ID: cla005.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acrolein	7.93	Baseline event	wrd	09/20/12 08:34
Ethyl acetate	11.71	Baseline event	wrd	09/20/12 08:34
n-Nonane	19.77	Baseline event	wrd	09/20/12 08:35

Lab Sample ID: IC 200-45233/6 Client Sample ID:

Date Analyzed: 09/19/12 16:32 Lab File ID: cla006.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Chloropropene	8.86	Baseline event	wrd	09/20/12 08:36
Acetonitrile	8.91	Baseline event	wrd	09/20/12 08:38

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Instrument ID: C.i Analysis Batch Number: 45233

Lab Sample ID: IC 200-45233/8 Client Sample ID:

Date Analyzed: 09/19/12 18:19 Lab File ID: cla008.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Chloropropene	8.86	Baseline event	wrd	09/20/12 08:41
Acetonitrile	8.91	Baseline event	wrd	09/20/12 08:41

Lab Sample ID: IC 200-45233/9 Client Sample ID:

Date Analyzed: 09/19/12 19:13 Lab File ID: cla009.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Chloropropene	8.86	Baseline event	wrd	09/20/12 08:43
Acetonitrile	8.90	Baseline event	wrd	09/20/12 08:44

Lab Sample ID: IC 200-45233/10 Client Sample ID:

Date Analyzed: 09/19/12 20:06 Lab File ID: cla010.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Chloropropene	8.86	Baseline event	wrd	09/20/12 08:45
Acetonitrile	8.91	Baseline event	wrd	09/20/12 08:46

Lab Sample ID: ICV 200-45233/14 Client Sample ID:

Date Analyzed: 09/20/12 09:17 Lab File ID: cla014.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Chloropropene	8.86	Baseline event	wrd	09/20/12 09:49
Acetonitrile	8.91	Baseline event	wrd	09/20/12 09:50

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Instrument ID: C.i Analysis Batch Number: 46287

Lab Sample ID: CCVIS 200-46287/2 Client Sample ID:

Date Analyzed: 10/10/12 10:58 Lab File ID: claq002.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Chloropropene	8.85	Baseline event	wrd	10/10/12 11:42
Acetonitrile	8.91	Baseline event	wrd	10/10/12 11:43

Lab Sample ID: 200-12991-1 Client Sample ID: BA316

Date Analyzed: 10/10/12 19:29 Lab File ID: claq012.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon tetrachloride	12.74	Baseline event	wrd	10/11/12 09:49

SAMPLE SUMMARY

Client: Arrowhead Contracting

Job Number: 200-12991-1
Sdg Number: 200-12991

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-12991-1	BA316	Air	09/26/2012 1420	10/02/2012 1020

EXECUTIVE SUMMARY - Detections

Client: Arrowhead Contracting

Job Number: 200-12991-1
Sdg Number: 200-12991

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-12991-1	**BA316**					
Dichlorodifluoromethane		40		7.6	ppb v/v	TO-15
Dichlorodifluoromethane		200		37	ug/m3	TO-15
Trichlorofluoromethane		71		3.0	ppb v/v	TO-15
Trichlorofluoromethane		400		17	ug/m3	TO-15
1,1-Dichloroethene		11		3.0	ppb v/v	TO-15
1,1-Dichloroethene		44		12	ug/m3	TO-15
Methyl tert-butyl ether		6.5		3.0	ppb v/v	TO-15
Methyl tert-butyl ether		23		11	ug/m3	TO-15
trans-1,2-Dichloroethene		5.0		3.0	ppb v/v	TO-15
trans-1,2-Dichloroethene		20		12	ug/m3	TO-15
1,1-Dichloroethane		5.1		3.0	ppb v/v	TO-15
1,1-Dichloroethane		21		12	ug/m3	TO-15
cis-1,2-Dichloroethene		27		3.0	ppb v/v	TO-15
cis-1,2-Dichloroethene		110		12	ug/m3	TO-15
Trichloroethene		340		3.0	ppb v/v	TO-15
Trichloroethene		1800		16	ug/m3	TO-15
Tetrachloroethene		300		3.0	ppb v/v	TO-15
Tetrachloroethene		2000		20	ug/m3	TO-15

METHOD SUMMARY

Client: Arrowhead Contracting

Job Number: 200-12991-1
Sdg Number: 200-12991

Description	Lab Location	Method	Preparation Method
Matrix: Air			
Volatile Organic Compounds in Ambient Air	TAL BUR	EPA TO-15	
Collection via Summa Canister	TAL BUR		Summa Canister

Lab References:

TAL BUR = TestAmerica Burlington

Method References:

EPA = US Environmental Protection Agency

METHOD / ANALYST SUMMARY

Client: Arrowhead Contracting

Job Number: 200-12991-1
Sdg Number: 200-12991

Method	Analyst	Analyst ID
EPA TO-15	Desjardins, William R	WRD

Client: Arrowhead Contracting

Job Number: 200-12991-1
Sdg Number: 200-12991

Client Sample ID: **BA316**

Lab Sample ID: 200-12991-1
Client Matrix: Air

Date Sampled: 09/26/2012 1420
Date Received: 10/02/2012 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-46287	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	claq012.d
Dilution:	15.1			Initial Weight/Volume:	53 mL
Analysis Date:	10/10/2012 1929			Final Weight/Volume:	200 mL
Prep Date:	10/10/2012 1929			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	40		7.6
1,2-Dichlorotetrafluoroethane	3.0	U	3.0
Chloromethane	7.6	U	7.6
Vinyl chloride	3.0	U	3.0
1,3-Butadiene	3.0	U	3.0
Bromomethane	3.0	U	3.0
Chloroethane	7.6	U	7.6
Trichlorofluoromethane	71		3.0
1,1-Dichloroethene	11		3.0
Acetone	76	U	76
Isopropyl alcohol	76	U	76
Carbon disulfide	7.6	U	7.6
Methylene Chloride	7.6	U	7.6
Methyl tert-butyl ether	6.5		3.0
trans-1,2-Dichloroethene	5.0		3.0
n-Hexane	3.0	U	3.0
1,1-Dichloroethane	5.1		3.0
Methyl Ethyl Ketone	7.6	U	7.6
cis-1,2-Dichloroethene	27		3.0
Chloroform	3.0	U	3.0
Tetrahydrofuran	76	U	76
1,1,1-Trichloroethane	3.0	U	3.0
Cyclohexane	3.0	U	3.0
Carbon tetrachloride	3.0	U	3.0
Benzene	3.0	U	3.0
1,2-Dichloroethane	3.0	U	3.0
n-Heptane	3.0	U	3.0
Trichloroethene	340		3.0
1,2-Dichloropropane	3.0	U	3.0
Bromodichloromethane	3.0	U	3.0
cis-1,3-Dichloropropene	3.0	U	3.0
methyl isobutyl ketone	7.6	U	7.6
Toluene	3.0	U	3.0
trans-1,3-Dichloropropene	3.0	U	3.0
1,1,2-Trichloroethane	3.0	U	3.0
Tetrachloroethene	300		3.0
Methyl Butyl Ketone (2-Hexanone)	7.6	U	7.6
Dibromochloromethane	3.0	U	3.0
1,2-Dibromoethane	3.0	U	3.0
Chlorobenzene	3.0	U	3.0
Ethylbenzene	3.0	U	3.0
m,p-Xylene	7.6	U	7.6
Xylene, o-	3.0	U	3.0
Xylene (total)	3.0	U	3.0
Styrene	3.0	U	3.0
Bromoform	3.0	U	3.0

Client: Arrowhead Contracting

Job Number: 200-12991-1
Sdg Number: 200-12991

Client Sample ID: **BA316**

Lab Sample ID: 200-12991-1
Client Matrix: Air

Date Sampled: 09/26/2012 1420
Date Received: 10/02/2012 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-46287	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	claq012.d
Dilution:	15.1			Initial Weight/Volume:	53 mL
Analysis Date:	10/10/2012 1929			Final Weight/Volume:	200 mL
Prep Date:	10/10/2012 1929			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Cumene	3.0	U	3.0
1,1,2,2-Tetrachloroethane	3.0	U	3.0
n-Propylbenzene	3.0	U	3.0
4-Ethyltoluene	3.0	U	3.0
1,3,5-Trimethylbenzene	3.0	U	3.0
1,2,4-Trimethylbenzene	3.0	U	3.0
1,3-Dichlorobenzene	3.0	U	3.0
1,4-Dichlorobenzene	3.0	U	3.0
Benzyl chloride	3.0	U	3.0
1,2-Dichlorobenzene	3.0	U	3.0
1,2,4-Trichlorobenzene	7.6	U *	7.6
Hexachlorobutadiene	3.0	U	3.0

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	200		37
1,2-Dichlorotetrafluoroethane	21	U	21
Chloromethane	16	U	16
Vinyl chloride	7.7	U	7.7
1,3-Butadiene	6.7	U	6.7
Bromomethane	12	U	12
Chloroethane	20	U	20
Trichlorofluoromethane	400		17
1,1-Dichloroethene	44		12
Acetone	180	U	180
Isopropyl alcohol	190	U	190
Carbon disulfide	24	U	24
Methylene Chloride	26	U	26
Methyl tert-butyl ether	23		11
trans-1,2-Dichloroethene	20		12
n-Hexane	11	U	11
1,1-Dichloroethane	21		12
Methyl Ethyl Ketone	22	U	22
cis-1,2-Dichloroethene	110		12
Chloroform	15	U	15
Tetrahydrofuran	220	U	220
1,1,1-Trichloroethane	16	U	16
Cyclohexane	10	U	10
Carbon tetrachloride	19	U	19
Benzene	9.6	U	9.6
1,2-Dichloroethane	12	U	12
n-Heptane	12	U	12
Trichloroethene	1800		16
1,2-Dichloropropane	14	U	14
Bromodichloromethane	20	U	20
cis-1,3-Dichloropropene	14	U	14
methyl isobutyl ketone	31	U	31

Client: Arrowhead Contracting

Job Number: 200-12991-1
Sdg Number: 200-12991

Client Sample ID: **BA316**

Lab Sample ID: 200-12991-1
Client Matrix: Air

Date Sampled: 09/26/2012 1420
Date Received: 10/02/2012 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-46287	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	claq012.d
Dilution:	15.1			Initial Weight/Volume:	53 mL
Analysis Date:	10/10/2012 1929			Final Weight/Volume:	200 mL
Prep Date:	10/10/2012 1929			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
Toluene	11	U	11
trans-1,3-Dichloropropene	14	U	14
1,1,2-Trichloroethane	16	U	16
Tetrachloroethene	2000		20
Methyl Butyl Ketone (2-Hexanone)	31	U	31
Dibromochloromethane	26	U	26
1,2-Dibromoethane	23	U	23
Chlorobenzene	14	U	14
Ethylbenzene	13	U	13
m,p-Xylene	33	U	33
Xylene, o-	13	U	13
Xylene (total)	13	U	13
Styrene	13	U	13
Bromoform	31	U	31
Cumene	15	U	15
1,1,2,2-Tetrachloroethane	21	U	21
n-Propylbenzene	15	U	15
4-Ethyltoluene	15	U	15
1,3,5-Trimethylbenzene	15	U	15
1,2,4-Trimethylbenzene	15	U	15
1,3-Dichlorobenzene	18	U	18
1,4-Dichlorobenzene	18	U	18
Benzyl chloride	16	U	16
1,2-Dichlorobenzene	18	U	18
1,2,4-Trichlorobenzene	56	U *	56
Hexachlorobutadiene	32	U	32

Client: Arrowhead Contracting

Job Number: 200-12991-1
Sdg Number: 200-12991

Method Blank - Batch: 200-46287

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-46287/4	Analysis Batch:	200-46287	Instrument ID:	C.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	claq004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	10/10/2012 1239	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	10/10/2012 1239			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Dichlorodifluoromethane	0.50	U	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20
Chloromethane	0.50	U	0.50
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.20	U	0.20
Bromomethane	0.20	U	0.20
Chloroethane	0.50	U	0.50
Trichlorofluoromethane	0.20	U	0.20
1,1-Dichloroethene	0.20	U	0.20
Acetone	5.0	U	5.0
Isopropyl alcohol	5.0	U	5.0
Carbon disulfide	0.50	U	0.50
Methylene Chloride	0.50	U	0.50
Methyl tert-butyl ether	0.20	U	0.20
trans-1,2-Dichloroethene	0.20	U	0.20
n-Hexane	0.20	U	0.20
1,1-Dichloroethane	0.20	U	0.20
Methyl Ethyl Ketone	0.50	U	0.50
cis-1,2-Dichloroethene	0.20	U	0.20
Chloroform	0.20	U	0.20
Tetrahydrofuran	5.0	U	5.0
1,1,1-Trichloroethane	0.20	U	0.20
Cyclohexane	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
Benzene	0.20	U	0.20
1,2-Dichloroethane	0.20	U	0.20
n-Heptane	0.20	U	0.20
Trichloroethene	0.20	U	0.20
1,2-Dichloropropane	0.20	U	0.20
Bromodichloromethane	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
methyl isobutyl ketone	0.50	U	0.50
Toluene	0.20	U	0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Tetrachloroethene	0.20	U	0.20
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50
Dibromochloromethane	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Ethylbenzene	0.20	U	0.20
m,p-Xylene	0.50	U	0.50
Xylene, o-	0.20	U	0.20
Xylene (total)	0.20	U	0.20
Styrene	0.20	U	0.20

Client: Arrowhead Contracting

Job Number: 200-12991-1
Sdg Number: 200-12991

Method Blank - Batch: 200-46287

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-46287/4	Analysis Batch:	200-46287	Instrument ID:	C.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	claq004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	10/10/2012 1239	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	10/10/2012 1239			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Bromoform	0.20	U	0.20
Cumene	0.20	U	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20
n-Propylbenzene	0.20	U	0.20
4-Ethyltoluene	0.20	U	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20
1,2,4-Trimethylbenzene	0.20	U	0.20
1,3-Dichlorobenzene	0.20	U	0.20
1,4-Dichlorobenzene	0.20	U	0.20
Benzyl chloride	0.20	U	0.20
1,2-Dichlorobenzene	0.20	U	0.20
1,2,4-Trichlorobenzene	0.50	U	0.50
Hexachlorobutadiene	0.20	U	0.20

Client: Arrowhead Contracting

Job Number: 200-12991-1
Sdg Number: 200-12991

Method Blank - Batch: 200-46287

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-46287/4	Analysis Batch:	200-46287	Instrument ID:	C.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	claq004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	10/10/2012 1239	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	10/10/2012 1239			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Dichlorodifluoromethane	2.5	U	2.5
1,2-Dichlorotetrafluoroethane	1.4	U	1.4
Chloromethane	1.0	U	1.0
Vinyl chloride	0.51	U	0.51
1,3-Butadiene	0.44	U	0.44
Bromomethane	0.78	U	0.78
Chloroethane	1.3	U	1.3
Trichlorofluoromethane	1.1	U	1.1
1,1-Dichloroethene	0.79	U	0.79
Acetone	12	U	12
Isopropyl alcohol	12	U	12
Carbon disulfide	1.6	U	1.6
Methylene Chloride	1.7	U	1.7
Methyl tert-butyl ether	0.72	U	0.72
trans-1,2-Dichloroethene	0.79	U	0.79
n-Hexane	0.70	U	0.70
1,1-Dichloroethane	0.81	U	0.81
Methyl Ethyl Ketone	1.5	U	1.5
cis-1,2-Dichloroethene	0.79	U	0.79
Chloroform	0.98	U	0.98
Tetrahydrofuran	15	U	15
1,1,1-Trichloroethane	1.1	U	1.1
Cyclohexane	0.69	U	0.69
Carbon tetrachloride	1.3	U	1.3
Benzene	0.64	U	0.64
1,2-Dichloroethane	0.81	U	0.81
n-Heptane	0.82	U	0.82
Trichloroethene	1.1	U	1.1
1,2-Dichloropropane	0.92	U	0.92
Bromodichloromethane	1.3	U	1.3
cis-1,3-Dichloropropene	0.91	U	0.91
methyl isobutyl ketone	2.0	U	2.0
Toluene	0.75	U	0.75
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,2-Trichloroethane	1.1	U	1.1
Tetrachloroethene	1.4	U	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0
Dibromochloromethane	1.7	U	1.7
1,2-Dibromoethane	1.5	U	1.5
Chlorobenzene	0.92	U	0.92
Ethylbenzene	0.87	U	0.87
m,p-Xylene	2.2	U	2.2
Xylene, o-	0.87	U	0.87
Xylene (total)	0.87	U	0.87
Styrene	0.85	U	0.85

Client: Arrowhead Contracting

Job Number: 200-12991-1
Sdg Number: 200-12991

Method Blank - Batch: 200-46287

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-46287/4	Analysis Batch:	200-46287	Instrument ID:	C.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	claq004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	10/10/2012 1239	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	10/10/2012 1239			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Bromoform	2.1	U	2.1
Cumene	0.98	U	0.98
1,1,2,2-Tetrachloroethane	1.4	U	1.4
n-Propylbenzene	0.98	U	0.98
4-Ethyltoluene	0.98	U	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98
1,2,4-Trimethylbenzene	0.98	U	0.98
1,3-Dichlorobenzene	1.2	U	1.2
1,4-Dichlorobenzene	1.2	U	1.2
Benzyl chloride	1.0	U	1.0
1,2-Dichlorobenzene	1.2	U	1.2
1,2,4-Trichlorobenzene	3.7	U	3.7
Hexachlorobutadiene	2.1	U	2.1

Client: Arrowhead Contracting

Job Number: 200-12991-1
Sdg Number: 200-12991

Lab Control Sample - Batch: 200-46287

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	LCS 200-46287/3	Analysis Batch:	200-46287	Instrument ID:	C.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	claq003.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	10/10/2012 1149	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	10/10/2012 1149			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dichlorodifluoromethane	10.0	10.5	105	70 - 130	
1,2-Dichlorotetrafluoroethane	10.0	10.1	101	70 - 130	
Chloromethane	10.0	9.72	97	70 - 130	
Vinyl chloride	10.0	9.59	96	70 - 130	
1,3-Butadiene	10.0	10.1	101	70 - 130	
Bromomethane	10.0	9.92	99	70 - 130	
Chloroethane	10.0	9.57	96	70 - 130	
Trichlorofluoromethane	10.0	9.97	100	70 - 130	
1,1-Dichloroethene	10.0	10.8	108	70 - 130	
Acetone	10.0	7.20	72	70 - 130	
Isopropyl alcohol	10.0	8.99	90	70 - 130	
Carbon disulfide	10.0	9.85	99	70 - 130	
Methylene Chloride	10.0	9.63	96	70 - 130	
Methyl tert-butyl ether	10.0	8.23	82	70 - 130	
trans-1,2-Dichloroethene	10.0	9.47	95	70 - 130	
n-Hexane	10.0	9.30	93	70 - 130	
1,1-Dichloroethane	10.0	9.58	96	70 - 130	
Methyl Ethyl Ketone	10.0	7.84	78	70 - 130	
cis-1,2-Dichloroethene	10.0	9.98	100	70 - 130	
Chloroform	10.0	9.83	98	70 - 130	
Tetrahydrofuran	10.0	7.81	78	70 - 130	
1,1,1-Trichloroethane	10.0	10.1	101	70 - 130	
Cyclohexane	10.0	10.2	102	70 - 130	
Carbon tetrachloride	10.0	10.3	103	70 - 130	
Benzene	10.0	9.67	97	70 - 130	
1,2-Dichloroethane	10.0	9.86	99	70 - 130	
n-Heptane	10.0	9.21	92	70 - 130	
Trichloroethene	10.0	9.78	98	70 - 130	
1,2-Dichloropropane	10.0	9.28	93	70 - 130	
Bromodichloromethane	10.0	10.5	105	70 - 130	
cis-1,3-Dichloropropene	10.0	9.13	91	70 - 130	
methyl isobutyl ketone	10.0	9.68	97	70 - 130	
Toluene	10.0	10.3	103	70 - 130	
trans-1,3-Dichloropropene	10.0	8.65	86	70 - 130	
1,1,2-Trichloroethane	10.0	10.1	101	70 - 130	
Tetrachloroethene	10.0	11.6	116	70 - 130	
Methyl Butyl Ketone (2-Hexanone)	10.0	11.4	114	70 - 130	
Dibromochloromethane	10.0	12.2	122	70 - 130	
1,2-Dibromoethane	10.0	10.9	109	70 - 130	
Chlorobenzene	10.0	10.5	105	70 - 130	
Ethylbenzene	10.0	9.98	100	70 - 130	
m,p-Xylene	20.0	20.2	101	70 - 130	
Xylene, o-	10.0	9.99	100	70 - 130	
Styrene	10.0	10.7	107	70 - 130	
Bromoform	10.0	11.9	119	70 - 130	
Cumene	10.0	10.3	103	70 - 130	

Client: Arrowhead Contracting

Job Number: 200-12991-1
Sdg Number: 200-12991

Lab Control Sample - Batch: 200-46287

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	LCS 200-46287/3	Analysis Batch:	200-46287	Instrument ID:	C.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	claq003.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	10/10/2012 1149	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	10/10/2012 1149			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,2,2-Tetrachloroethane	10.0	9.79	98	70 - 130	
n-Propylbenzene	10.0	10.1	101	70 - 130	
4-Ethyltoluene	10.0	10.5	105	70 - 130	
1,3,5-Trimethylbenzene	10.0	9.99	100	70 - 130	
1,2,4-Trimethylbenzene	10.0	10.0	100	70 - 130	
1,3-Dichlorobenzene	10.0	10.5	105	70 - 130	
1,4-Dichlorobenzene	10.0	10.5	105	70 - 130	
Benzyl chloride	10.0	11.6	116	70 - 130	
1,2-Dichlorobenzene	10.0	10.5	105	70 - 130	
1,2,4-Trichlorobenzene	10.0	14.5	145	70 - 130	*
Hexachlorobutadiene	10.0	11.3	113	70 - 130	

DATA REPORTING QUALIFIERS

Client: Arrowhead Contracting

Job Number: 200-12991-1
Sdg Number: 200-12991

Lab Section	Qualifier	Description
Air - GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	Recovery or RPD exceeds control limits

Client: Arrowhead Contracting

Job Number: 200-12991-1
Sdg Number: 200-12991

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Air - GC/MS VOA					
Analysis Batch:200-46287					
LCS 200-46287/3	Lab Control Sample	T	Air	TO-15	
MB 200-46287/4	Method Blank	T	Air	TO-15	
200-12991-1	BA316	T	Air	TO-15	

Report Basis
T = Total

Client: Arrowhead Contracting

Job Number: 200-12991-1
SDG: 200-12991

Laboratory Chronicle

Lab ID: **200-12991-1** **Client ID:** **BA316**

Sample Date/Time: 09/26/2012 14:20 Received Date/Time: 10/02/2012 10:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12991-A-1		200-46287		10/10/2012 19:29	15.1	TAL BUR	WRD
A:TO-15	200-12991-A-1		200-46287		10/10/2012 19:29	15.1	TAL BUR	WRD

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	MB 200-46287/4		200-46287		10/10/2012 12:39	1	TAL BUR	WRD
A:TO-15	MB 200-46287/4		200-46287		10/10/2012 12:39	1	TAL BUR	WRD

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	LCS 200-46287/3		200-46287		10/10/2012 11:49	1	TAL BUR	WRD
A:TO-15	LCS 200-46287/3		200-46287		10/10/2012 11:49	1	TAL BUR	WRD

Lab References:
TAL BUR = TestAmerica Burlington

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ATTO15CAL1w_00075	10/25/12	08/13/12	DI WATER, Lot 3643	15.463 L	ATTO15CAL6w_00052	155 mL	1,1,1-Trichloroethane	0.20044 ppb v/v
							1,1,2,2-Tetrachloroethane	0.20044 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	0.20044 ppb v/v
							1,1,2-Trichloroethane	0.20044 ppb v/v
							1,1-Dichloroethane	0.20044 ppb v/v
							1,1-Dichloroethene	0.20044 ppb v/v
							1,2,3-Trichlorobenzene	0.20044 ppb v/v
							1,2,3-Trichloropropane	0.20044 ppb v/v
							1,2,4-Trichlorobenzene	0.20044 ppb v/v
							1,2,4-Trimethylbenzene	0.20044 ppb v/v
							1,2-Dibromoethane	0.20044 ppb v/v
							1,2-Dichlorobenzene	0.20044 ppb v/v
							1,2-Dichloroethane	0.20044 ppb v/v
							1,2-Dichloropropane	0.20044 ppb v/v
							1,2-Dichlorotetrafluoroethane	0.20044 ppb v/v
							1,3,5-Trimethylbenzene	0.20044 ppb v/v
							1,3-Butadiene	0.20044 ppb v/v
							1,3-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dioxane	0.20044 ppb v/v
							2-Chlorotoluene	0.20044 ppb v/v
							2-Methyl-2-propanol	0.20044 ppb v/v
							2-Methylbutane	0.20044 ppb v/v
							3-Chloro-1-propene	0.20044 ppb v/v
							4-Ethyltoluene	0.20044 ppb v/v
							4-Isopropyltoluene	0.20044 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	0.20044 ppb v/v
							Acetonitrile	0.20044 ppb v/v
							Acrolein	0.20044 ppb v/v
							Acrylonitrile	0.20044 ppb v/v
							Alpha Methyl Styrene	0.20044 ppb v/v
							Benzene	0.20044 ppb v/v
							Benzyl chloride	0.20044 ppb v/v
							Bromodichloromethane	0.20044 ppb v/v
							Bromoform	0.20044 ppb v/v
							Bromomethane	0.20044 ppb v/v
							Butane	0.20044 ppb v/v
							Carbon disulfide	0.20044 ppb v/v
							Carbon tetrachloride	0.20044 ppb v/v
							Chlorobenzene	0.20044 ppb v/v
							Chlorodifluoromethane	0.20044 ppb v/v
							Chloroethane	0.20044 ppb v/v
							Chloroform	0.20044 ppb v/v
							Chloromethane	0.20044 ppb v/v
							cis-1,2-Dichloroethene	0.20044 ppb v/v
							cis-1,3-Dichloropropene	0.20044 ppb v/v
							Cumene	0.20044 ppb v/v
							Cyclohexane	0.20044 ppb v/v
							Dibromochloromethane	0.20044 ppb v/v
							Dibromomethane	0.20044 ppb v/v
							Dichlorodifluoromethane	0.20044 ppb v/v
							Dodecane	0.20044 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl acetate	0.20044 ppb v/v
							Ethyl ether	0.20044 ppb v/v
							Ethylbenzene	0.20044 ppb v/v
							Hexachlorobutadiene	0.20044 ppb v/v
							Isooctane	0.20044 ppb v/v
							Isopropyl alcohol	0.20044 ppb v/v
							m,p-Xylene	0.400879 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	0.20044 ppb v/v
							Methyl Ethyl Ketone	0.20044 ppb v/v
							methyl isobutyl ketone	0.20044 ppb v/v
							Methyl methacrylate	0.20044 ppb v/v
							Methyl tert-butyl ether	0.20044 ppb v/v
							Methylene Chloride	0.20044 ppb v/v
							n-Butanol	0.20044 ppb v/v
							n-Butylbenzene	0.20044 ppb v/v
							n-Decane	0.20044 ppb v/v
							n-Heptane	0.20044 ppb v/v
							n-Hexane	0.20044 ppb v/v
							n-Nonane	0.20044 ppb v/v
							n-Octane	0.20044 ppb v/v
							n-Propylbenzene	0.20044 ppb v/v
							Naphthalene	0.20044 ppb v/v
							Pentane	0.20044 ppb v/v
							Propene	0.20044 ppb v/v
							sec-Butylbenzene	0.20044 ppb v/v
							Styrene	0.20044 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	0.20044 ppb v/v
							Tetrachloroethene	0.20044 ppb v/v
							Tetrahydrofuran	0.20044 ppb v/v
							Toluene	0.20044 ppb v/v
							trans-1,2-Dichloroethene	0.20044 ppb v/v
							trans-1,3-Dichloropropene	0.20044 ppb v/v
							Trichloroethene	0.20044 ppb v/v
							Trichlorofluoromethane	0.20044 ppb v/v
							Undecane	0.20044 ppb v/v
							Vinyl acetate	0.20044 ppb v/v
							Vinyl bromide	0.20044 ppb v/v
							Vinyl chloride	0.20044 ppb v/v
							Xylene, o-	0.20044 ppb v/v
							Ethanol	0.400944 ppb v/v
.ATTO15CAL6w_00052	10/25/12	07/27/12	DI WATER, Lot 4943	15.463 L	ATTO15CALSTKi_00033	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,3-Trichlorobenzene	19.9961 ppb v/v
							1,2,3-Trichloropropane	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dibromoethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,2-Dichlorotetrafluoroethane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Butadiene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methyl-2-propanol	19.9961 ppb v/v
							2-Methylbutane	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Isopropyltoluene	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Acetonitrile	19.9961 ppb v/v
							Acrolein	19.9961 ppb v/v
							Acrylonitrile	19.9961 ppb v/v
							Alpha Methyl Styrene	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Benzyl chloride	19.9961 ppb v/v
							Bromodichloromethane	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butane	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodifluoromethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,2-Dichloroethene	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cumene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dibromochloromethane	19.9961 ppb v/v
							Dibromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Dodecane	19.9961 ppb v/v
							Ethyl acetate	19.9961 ppb v/v
							Ethyl ether	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m,p-Xylene	39.9922 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	19.9961 ppb v/v
							Methyl Ethyl Ketone	19.9961 ppb v/v
							methyl isobutyl ketone	19.9961 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	19.9961 ppb v/v
							n-Butanol	19.9961 ppb v/v
							n-Butylbenzene	19.9961 ppb v/v
							n-Decane	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							n-Hexane	19.9961 ppb v/v
							n-Nonane	19.9961 ppb v/v
							n-Octane	19.9961 ppb v/v
							n-Propylbenzene	19.9961 ppb v/v
							Naphthalene	19.9961 ppb v/v
							Pentane	19.9961 ppb v/v
							Propene	19.9961 ppb v/v
							sec-Butylbenzene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							tert-Butylbenzene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,2-Dichloroethene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Undecane	19.9961 ppb v/v
							Vinyl acetate	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Xylene, o-	19.9961 ppb v/v
					ATTO15EthCALw_00031	1237 mL	Ethanol	39.9987 ppb v/v
..ATTO15CALSTKi_00033	10/25/12	07/25/12	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00008	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodifluoromethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
...ATTO15CALs_00008	12/07/12	Spectra Gases, Lot cc-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodifluoromethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
..ATTO15EthCALw_00031	10/26/12	07/26/12	VOA Free Water, Lot 1020	37.5 ppb	ATTO15EthCALs_00005	18.75 uL	Ethanol	500 ppb v/v
...ATTO15EthCALs_00005	12/07/12	SIGMA, Lot 05796KM			(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL2w_00064	10/25/12	08/13/12	DI WATER, Lot 5014	15.463 L	ATTO15CAL6w_00052	387 mL	1,1,1-Trichloroethane	0.500453 ppb v/v
							1,1,2,2-Tetrachloroethane	0.500453 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	0.500453 ppb v/v
							1,1,2-Trichloroethane	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	0.500453 ppb v/v
							1,1-Dichloroethene	0.500453 ppb v/v
							1,2,3-Trichlorobenzene	0.500453 ppb v/v
							1,2,3-Trichloropropane	0.500453 ppb v/v
							1,2,4-Trichlorobenzene	0.500453 ppb v/v
							1,2,4-Trimethylbenzene	0.500453 ppb v/v
							1,2-Dibromoethane	0.500453 ppb v/v
							1,2-Dichlorobenzene	0.500453 ppb v/v
							1,2-Dichloroethane	0.500453 ppb v/v
							1,2-Dichloropropane	0.500453 ppb v/v
							1,2-Dichlorotetrafluoroethane	0.500453 ppb v/v
							1,3,5-Trimethylbenzene	0.500453 ppb v/v
							1,3-Butadiene	0.500453 ppb v/v
							1,3-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dioxane	0.500453 ppb v/v
							2-Chlorotoluene	0.500453 ppb v/v
							2-Methyl-2-propanol	0.500453 ppb v/v
							2-Methylbutane	0.500453 ppb v/v
							3-Chloro-1-propene	0.500453 ppb v/v
							4-Ethyltoluene	0.500453 ppb v/v
							4-Isopropyltoluene	0.500453 ppb v/v
							Acetone	0.500453 ppb v/v
							Acetonitrile	0.500453 ppb v/v
							Acrolein	0.500453 ppb v/v
							Acrylonitrile	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Alpha Methyl Styrene	0.500453 ppb v/v
							Benzene	0.500453 ppb v/v
							Benzyl chloride	0.500453 ppb v/v
							Bromodichloromethane	0.500453 ppb v/v
							Bromoform	0.500453 ppb v/v
							Bromomethane	0.500453 ppb v/v
							Butane	0.500453 ppb v/v
							Carbon disulfide	0.500453 ppb v/v
							Carbon tetrachloride	0.500453 ppb v/v
							Chlorobenzene	0.500453 ppb v/v
							Chlorodifluoromethane	0.500453 ppb v/v
							Chloroethane	0.500453 ppb v/v
							Chloroform	0.500453 ppb v/v
							Chloromethane	0.500453 ppb v/v
							cis-1,2-Dichloroethene	0.500453 ppb v/v
							cis-1,3-Dichloropropene	0.500453 ppb v/v
							Cumene	0.500453 ppb v/v
							Cyclohexane	0.500453 ppb v/v
							Dibromochloromethane	0.500453 ppb v/v
							Dibromomethane	0.500453 ppb v/v
							Dichlorodifluoromethane	0.500453 ppb v/v
							Dodecane	0.500453 ppb v/v
							Ethyl acetate	0.500453 ppb v/v
							Ethyl ether	0.500453 ppb v/v
							Ethylbenzene	0.500453 ppb v/v
							Hexachlorobutadiene	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isooctane	0.500453 ppb v/v
							Isopropyl alcohol	0.500453 ppb v/v
							m,p-Xylene	1.00091 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	0.500453 ppb v/v
							Methyl Ethyl Ketone	0.500453 ppb v/v
							methyl isobutyl ketone	0.500453 ppb v/v
							Methyl methacrylate	0.500453 ppb v/v
							Methyl tert-butyl ether	0.500453 ppb v/v
							Methylene Chloride	0.500453 ppb v/v
							n-Butanol	0.500453 ppb v/v
							n-Butylbenzene	0.500453 ppb v/v
							n-Decane	0.500453 ppb v/v
							n-Heptane	0.500453 ppb v/v
							n-Hexane	0.500453 ppb v/v
							n-Nonane	0.500453 ppb v/v
							n-Octane	0.500453 ppb v/v
							n-Propylbenzene	0.500453 ppb v/v
							Naphthalene	0.500453 ppb v/v
							Pentane	0.500453 ppb v/v
							Propene	0.500453 ppb v/v
							sec-Butylbenzene	0.500453 ppb v/v
							Styrene	0.500453 ppb v/v
							tert-Butylbenzene	0.500453 ppb v/v
							Tetrachloroethene	0.500453 ppb v/v
							Tetrahydrofuran	0.500453 ppb v/v
							Toluene	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	0.500453 ppb v/v
							trans-1,3-Dichloropropene	0.500453 ppb v/v
							Trichloroethene	0.500453 ppb v/v
							Trichlorofluoromethane	0.500453 ppb v/v
							Undecane	0.500453 ppb v/v
							Vinyl acetate	0.500453 ppb v/v
							Vinyl bromide	0.500453 ppb v/v
							Vinyl chloride	0.500453 ppb v/v
							Xylene, o-	0.500453 ppb v/v
							Ethanol	5.01064 ppb v/v
					ATTO15EthCALw_00031	124 mL	Ethanol	5.01064 ppb v/v
.ATTO15CAL6w_00052	10/25/12	07/27/12	DI WATER, Lot 4943	15.463 L	ATTO15CALSTKi_00033	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,3-Trichlorobenzene	19.9961 ppb v/v
							1,2,3-Trichloropropane	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dibromoethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,2-Dichlorotetrafluoroethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Butadiene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methyl-2-propanol	19.9961 ppb v/v
							2-Methylbutane	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Isopropyltoluene	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Acetonitrile	19.9961 ppb v/v
							Acrolein	19.9961 ppb v/v
							Acrylonitrile	19.9961 ppb v/v
							Alpha Methyl Styrene	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Benzyl chloride	19.9961 ppb v/v
							Bromodichloromethane	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butane	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodifluoromethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,2-Dichloroethene	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cumene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dibromochloromethane	19.9961 ppb v/v
							Dibromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Dodecane	19.9961 ppb v/v
							Ethyl acetate	19.9961 ppb v/v
							Ethyl ether	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m,p-Xylene	39.9922 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	19.9961 ppb v/v
							Methyl Ethyl Ketone	19.9961 ppb v/v
							methyl isobutyl ketone	19.9961 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Butanol	19.9961 ppb v/v
							n-Butylbenzene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Decane	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							n-Hexane	19.9961 ppb v/v
							n-Nonane	19.9961 ppb v/v
							n-Octane	19.9961 ppb v/v
							n-Propylbenzene	19.9961 ppb v/v
							Naphthalene	19.9961 ppb v/v
							Pentane	19.9961 ppb v/v
							Propene	19.9961 ppb v/v
							sec-Butylbenzene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							tert-Butylbenzene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,2-Dichloroethene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Undecane	19.9961 ppb v/v
							Vinyl acetate	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
							Xylene, o-	19.9961 ppb v/v
					ATTO15EthCALw_00031	1237 mL	Ethanol	39.9987 ppb v/v
..ATTO15CALSTKi_00033	10/25/12	07/25/12	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00008	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluor oethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodifluoromethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
...ATTO15CALs_00008	12/07/12	Spectra Gases, Lot cc-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodifluoromethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
..ATTO15EthCALw_00031	10/26/12	07/26/12	VOA Free Water, Lot 1020	37.5 ppb	ATTO15EthCALs_00005	18.75 uL	Ethanol	500 ppb v/v
...ATTO15EthCALs_00005	12/07/12		SIGMA, Lot 05796KM		(Purchased Reagent)		Ethanol	1 mL/mL
.ATTO15EthCALw_00031	10/26/12	07/26/12	VOA Free Water, Lot 1020	37.5 ppb	ATTO15EthCALs_00005	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00005	12/07/12		SIGMA, Lot 05796KM		(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL3w_00075	10/25/12	07/27/12	DI WATER, Lot 2572	15.463 L	ATTO15CALSTKi_00033	386 mL	1,1,1-Trichloroethane	4.99256 ppb v/v
							1,1,2,2-Tetrachloroethane	4.99256 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	4.99256 ppb v/v
							1,1,2-Trichloroethane	4.99256 ppb v/v
							1,1-Dichloroethane	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	4.99256 ppb v/v
							1,2,3-Trichlorobenzene	4.99256 ppb v/v
							1,2,3-Trichloropropane	4.99256 ppb v/v
							1,2,4-Trichlorobenzene	4.99256 ppb v/v
							1,2,4-Trimethylbenzene	4.99256 ppb v/v
							1,2-Dibromoethane	4.99256 ppb v/v
							1,2-Dichlorobenzene	4.99256 ppb v/v
							1,2-Dichloroethane	4.99256 ppb v/v
							1,2-Dichloropropane	4.99256 ppb v/v
							1,2-Dichlorotetrafluoroethane	4.99256 ppb v/v
							1,3,5-Trimethylbenzene	4.99256 ppb v/v
							1,3-Butadiene	4.99256 ppb v/v
							1,3-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dioxane	4.99256 ppb v/v
							2-Chlorotoluene	4.99256 ppb v/v
							2-Methyl-2-propanol	4.99256 ppb v/v
							2-Methylbutane	4.99256 ppb v/v
							3-Chloro-1-propene	4.99256 ppb v/v
							4-Ethyltoluene	4.99256 ppb v/v
							4-Isopropyltoluene	4.99256 ppb v/v
							Acetone	4.99256 ppb v/v
							Acetonitrile	4.99256 ppb v/v
							Acrolein	4.99256 ppb v/v
							Acrylonitrile	4.99256 ppb v/v
							Alpha Methyl Styrene	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	4.99256 ppb v/v
							Benzyl chloride	4.99256 ppb v/v
							Bromodichloromethane	4.99256 ppb v/v
							Bromoform	4.99256 ppb v/v
							Bromomethane	4.99256 ppb v/v
							Butane	4.99256 ppb v/v
							Carbon disulfide	4.99256 ppb v/v
							Carbon tetrachloride	4.99256 ppb v/v
							Chlorobenzene	4.99256 ppb v/v
							Chlorodifluoromethane	4.99256 ppb v/v
							Chloroethane	4.99256 ppb v/v
							Chloroform	4.99256 ppb v/v
							Chloromethane	4.99256 ppb v/v
							cis-1,2-Dichloroethene	4.99256 ppb v/v
							cis-1,3-Dichloropropene	4.99256 ppb v/v
							Cumene	4.99256 ppb v/v
							Cyclohexane	4.99256 ppb v/v
							Dibromochloromethane	4.99256 ppb v/v
							Dibromomethane	4.99256 ppb v/v
							Dichlorodifluoromethane	4.99256 ppb v/v
							Dodecane	4.99256 ppb v/v
							Ethyl acetate	4.99256 ppb v/v
							Ethyl ether	4.99256 ppb v/v
							Ethylbenzene	4.99256 ppb v/v
							Hexachlorobutadiene	4.99256 ppb v/v
							Isooctane	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	4.99256 ppb v/v
							m,p-Xylene	9.98513 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	4.99256 ppb v/v
							Methyl Ethyl Ketone	4.99256 ppb v/v
							methyl isobutyl ketone	4.99256 ppb v/v
							Methyl methacrylate	4.99256 ppb v/v
							Methyl tert-butyl ether	4.99256 ppb v/v
							Methylene Chloride	4.99256 ppb v/v
							n-Butanol	4.99256 ppb v/v
							n-Butylbenzene	4.99256 ppb v/v
							n-Decane	4.99256 ppb v/v
							n-Heptane	4.99256 ppb v/v
							n-Hexane	4.99256 ppb v/v
							n-Nonane	4.99256 ppb v/v
							n-Octane	4.99256 ppb v/v
							n-Propylbenzene	4.99256 ppb v/v
							Naphthalene	4.99256 ppb v/v
							Pentane	4.99256 ppb v/v
							Propene	4.99256 ppb v/v
							sec-Butylbenzene	4.99256 ppb v/v
							Styrene	4.99256 ppb v/v
							tert-Butylbenzene	4.99256 ppb v/v
							Tetrachloroethene	4.99256 ppb v/v
							Tetrahydrofuran	4.99256 ppb v/v
							Toluene	4.99256 ppb v/v
							trans-1,2-Dichloroethene	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	4.99256 ppb v/v
							Trichloroethene	4.99256 ppb v/v
							Trichlorofluoromethane	4.99256 ppb v/v
							Undecane	4.99256 ppb v/v
							Vinyl acetate	4.99256 ppb v/v
							Vinyl bromide	4.99256 ppb v/v
							Vinyl chloride	4.99256 ppb v/v
							Xylene, o-	4.99256 ppb v/v
					ATTO15EthCALw_00031	309 mL	Ethanol	9.99159 ppb v/v
.ATTO15CALSTKi_00033	10/25/12	07/25/12	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00008	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodifluoromethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15CALs_00008	12/07/12	Spectra Gases, Lot cc-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	1 ppm v/v
							Chlorodifluoromethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00031	10/26/12	07/26/12	VOA Free Water, Lot 1020	37.5 ppb	ATTO15EthCALs_00005	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00005	12/07/12	SIGMA, Lot 05796KM			(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL4w_00215	10/25/12	08/21/12	DI WATER, Lot 4837	15.463 L	ATTO15CALSTKi_00033	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,3-Trichlorobenzene	9.99806 ppb v/v
							1,2,3-Trichloropropane	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dibromoethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,2-Dichlorotetrafluoroethane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Butadiene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dioxane	9.99806 ppb v/v
							2-Chlorotoluene	9.99806 ppb v/v
							2-Methyl-2-propanol	9.99806 ppb v/v
							2-Methylbutane	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chloro-1-propene	9.99806 ppb v/v
							4-Ethyltoluene	9.99806 ppb v/v
							4-Isopropyltoluene	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Acetonitrile	9.99806 ppb v/v
							Acrolein	9.99806 ppb v/v
							Acrylonitrile	9.99806 ppb v/v
							Alpha Methyl Styrene	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Benzyl chloride	9.99806 ppb v/v
							Bromodichloromethane	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Butane	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chlorodifluoromethane	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,2-Dichloroethene	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cumene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dibromochloromethane	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Dodecane	9.99806 ppb v/v
							Ethyl acetate	9.99806 ppb v/v
							Ethyl ether	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Isooctane	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							m,p-Xylene	19.9961 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	9.99806 ppb v/v
							Methyl Ethyl Ketone	9.99806 ppb v/v
							methyl isobutyl ketone	9.99806 ppb v/v
							Methyl methacrylate	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Butanol	9.99806 ppb v/v
							n-Butylbenzene	9.99806 ppb v/v
							n-Decane	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							n-Hexane	9.99806 ppb v/v
							n-Nonane	9.99806 ppb v/v
							n-Octane	9.99806 ppb v/v
							n-Propylbenzene	9.99806 ppb v/v
							Naphthalene	9.99806 ppb v/v
							Pentane	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Propene	9.99806 ppb v/v
							sec-Butylbenzene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							tert-Butylbenzene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,2-Dichloroethene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Undecane	9.99806 ppb v/v
							Vinyl acetate	9.99806 ppb v/v
							Vinyl bromide	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
							Xylene, o-	9.99806 ppb v/v
					ATTO15EthCALw_00031	464 mL	Ethanol	15.0036 ppb v/v
.ATTO15CALSTKi_00033	10/25/12	07/25/12	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00008	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodifluoromethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butanol	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15CALs_00008	12/07/12	Spectra Gases, Lot cc-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodifluoromethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00031	10/26/12	07/26/12	VOA Free Water, Lot 1020	37.5 ppb	ATTO15EthCALs_00005	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00005	12/07/12	SIGMA, Lot 05796KM			(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL4w_00219	12/07/12	09/19/12	DI WATER, Lot 3152	15.463 L	ATTO15CALSTKi_00034	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dibromoethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,2-Dichlorotetrafluoroethane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Butadiene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	9.99806 ppb v/v
							4-Ethyltoluene	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Benzyl chloride	9.99806 ppb v/v
							Bromodichloromethane	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,2-Dichloroethene	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cumene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dibromochloromethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							m,p-Xylene	19.9961 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	9.99806 ppb v/v
							Methyl Ethyl Ketone	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							methyl isobutyl ketone	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							n-Hexane	9.99806 ppb v/v
							n-Propylbenzene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,2-Dichloroethene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
							Xylene (total)	29.9942 ppb v/v
							Xylene, o-	9.99806 ppb v/v
.ATTO15CALSTKi_00034	12/07/12	09/17/12	DI WATER, Lot 7951	37.5 L	ATTO15CALs_00008	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							Acetone	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene (total)	600 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15CALs_00008	12/07/12	Spectra Gases, Lot cc-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene (total)	3 ppm v/v
							Xylene, o-	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ATTO15CAL5w_00026	10/25/12	07/27/12	DI WATER, Lot 3089	15.463 L	ATTO15CALSTKi_00033	1160 mL	1,1,1-Trichloroethane	15.0036 ppb v/v
							1,1,2,2-Tetrachloroethane	15.0036 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	15.0036 ppb v/v
							1,1,2-Trichloroethane	15.0036 ppb v/v
							1,1-Dichloroethane	15.0036 ppb v/v
							1,1-Dichloroethene	15.0036 ppb v/v
							1,2,3-Trichlorobenzene	15.0036 ppb v/v
							1,2,3-Trichloropropane	15.0036 ppb v/v
							1,2,4-Trichlorobenzene	15.0036 ppb v/v
							1,2,4-Trimethylbenzene	15.0036 ppb v/v
							1,2-Dibromoethane	15.0036 ppb v/v
							1,2-Dichlorobenzene	15.0036 ppb v/v
							1,2-Dichloroethane	15.0036 ppb v/v
							1,2-Dichloropropane	15.0036 ppb v/v
							1,2-Dichlorotetrafluoroethane	15.0036 ppb v/v
							1,3,5-Trimethylbenzene	15.0036 ppb v/v
							1,3-Butadiene	15.0036 ppb v/v
							1,3-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dioxane	15.0036 ppb v/v
							2-Chlorotoluene	15.0036 ppb v/v
							2-Methyl-2-propanol	15.0036 ppb v/v
							2-Methylbutane	15.0036 ppb v/v
							3-Chloro-1-propene	15.0036 ppb v/v
							4-Ethyltoluene	15.0036 ppb v/v
							4-Isopropyltoluene	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	15.0036 ppb v/v
							Acetonitrile	15.0036 ppb v/v
							Acrolein	15.0036 ppb v/v
							Acrylonitrile	15.0036 ppb v/v
							Alpha Methyl Styrene	15.0036 ppb v/v
							Benzene	15.0036 ppb v/v
							Benzyl chloride	15.0036 ppb v/v
							Bromodichloromethane	15.0036 ppb v/v
							Bromoform	15.0036 ppb v/v
							Bromomethane	15.0036 ppb v/v
							Butane	15.0036 ppb v/v
							Carbon disulfide	15.0036 ppb v/v
							Carbon tetrachloride	15.0036 ppb v/v
							Chlorobenzene	15.0036 ppb v/v
							Chlorodifluoromethane	15.0036 ppb v/v
							Chloroethane	15.0036 ppb v/v
							Chloroform	15.0036 ppb v/v
							Chloromethane	15.0036 ppb v/v
							cis-1,2-Dichloroethene	15.0036 ppb v/v
							cis-1,3-Dichloropropene	15.0036 ppb v/v
							Cumene	15.0036 ppb v/v
							Cyclohexane	15.0036 ppb v/v
							Dibromochloromethane	15.0036 ppb v/v
							Dibromomethane	15.0036 ppb v/v
							Dichlorodifluoromethane	15.0036 ppb v/v
							Dodecane	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl acetate	15.0036 ppb v/v
							Ethyl ether	15.0036 ppb v/v
							Ethylbenzene	15.0036 ppb v/v
							Hexachlorobutadiene	15.0036 ppb v/v
							Isooctane	15.0036 ppb v/v
							Isopropyl alcohol	15.0036 ppb v/v
							m,p-Xylene	30.0071 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	15.0036 ppb v/v
							Methyl Ethyl Ketone	15.0036 ppb v/v
							methyl isobutyl ketone	15.0036 ppb v/v
							Methyl methacrylate	15.0036 ppb v/v
							Methyl tert-butyl ether	15.0036 ppb v/v
							Methylene Chloride	15.0036 ppb v/v
							n-Butanol	15.0036 ppb v/v
							n-Butylbenzene	15.0036 ppb v/v
							n-Decane	15.0036 ppb v/v
							n-Heptane	15.0036 ppb v/v
							n-Hexane	15.0036 ppb v/v
							n-Nonane	15.0036 ppb v/v
							n-Octane	15.0036 ppb v/v
							n-Propylbenzene	15.0036 ppb v/v
							Naphthalene	15.0036 ppb v/v
							Pentane	15.0036 ppb v/v
							Propene	15.0036 ppb v/v
							sec-Butylbenzene	15.0036 ppb v/v
							Styrene	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	15.0036 ppb v/v
							Tetrachloroethene	15.0036 ppb v/v
							Tetrahydrofuran	15.0036 ppb v/v
							Toluene	15.0036 ppb v/v
							trans-1,2-Dichloroethene	15.0036 ppb v/v
							trans-1,3-Dichloropropene	15.0036 ppb v/v
							Trichloroethene	15.0036 ppb v/v
							Trichlorofluoromethane	15.0036 ppb v/v
							Undecane	15.0036 ppb v/v
							Vinyl acetate	15.0036 ppb v/v
							Vinyl bromide	15.0036 ppb v/v
							Vinyl chloride	15.0036 ppb v/v
							Xylene, o-	15.0036 ppb v/v
					ATTO15EthCALw_00031	620 mL	Ethanol	20.0479 ppb v/v
.ATTO15CALSTKi_00033	10/25/12	07/25/12	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00008	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							2-Methylbutane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodifluoromethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15CALs_00008	12/07/12	Spectra Gases, Lot cc-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodifluoromethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00031	10/26/12	07/26/12	VOA Free Water, Lot 1020	37.5 ppb	ATTO15EthCALs_00005	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00005	12/07/12	SIGMA, Lot 05796KM			(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL6w_00052	10/25/12	07/27/12	DI WATER, Lot 4943	15.463 L	ATTO15CALSTKi_00033	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,3-Trichlorobenzene	19.9961 ppb v/v
							1,2,3-Trichloropropane	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dibromoethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,2-Dichlorotetrafluoroethane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Butadiene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methyl-2-propanol	19.9961 ppb v/v
							2-Methylbutane	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Isopropyltoluene	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Acetonitrile	19.9961 ppb v/v
							Acrolein	19.9961 ppb v/v
							Acrylonitrile	19.9961 ppb v/v
							Alpha Methyl Styrene	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Benzyl chloride	19.9961 ppb v/v
							Bromodichloromethane	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butane	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodifluoromethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,2-Dichloroethene	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cumene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dibromochloromethane	19.9961 ppb v/v
							Dibromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Dodecane	19.9961 ppb v/v
							Ethyl acetate	19.9961 ppb v/v
							Ethyl ether	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m,p-Xylene	39.9922 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	19.9961 ppb v/v
							Methyl Ethyl Ketone	19.9961 ppb v/v
							methyl isobutyl ketone	19.9961 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Butanol	19.9961 ppb v/v
							n-Butylbenzene	19.9961 ppb v/v
							n-Decane	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							n-Hexane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Nonane	19.9961 ppb v/v
							n-Octane	19.9961 ppb v/v
							n-Propylbenzene	19.9961 ppb v/v
							Naphthalene	19.9961 ppb v/v
							Pentane	19.9961 ppb v/v
							Propene	19.9961 ppb v/v
							sec-Butylbenzene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							tert-Butylbenzene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,2-Dichloroethene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Undecane	19.9961 ppb v/v
							Vinyl acetate	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
							Xylene, o-	19.9961 ppb v/v
					ATTO15EthCALw_00031	1237 mL	Ethanol	39.9987 ppb v/v
.ATTO15CALSTKi_00033	10/25/12	07/25/12	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00008	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodifluoromethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15CALs_00008	12/07/12	Spectra Gases, Lot cc-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodifluoromethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00031	10/26/12	07/26/12	VOA Free Water, Lot 1020	37.5 ppb	ATTO15EthCALs_00005	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00005	12/07/12	SIGMA, Lot 05796KM			(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL7w_00028	10/25/12	07/27/12	DI WATER, Lot 3649	15.463 L	ATTO15CALSTKi_00033	3092 mL	1,1,1-Trichloroethane	39.9922 ppb v/v
							1,1,2,2-Tetrachloroethane	39.9922 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	39.9922 ppb v/v
							1,1,2-Trichloroethane	39.9922 ppb v/v
							1,1-Dichloroethane	39.9922 ppb v/v
							1,1-Dichloroethene	39.9922 ppb v/v
							1,2,3-Trichlorobenzene	39.9922 ppb v/v
							1,2,3-Trichloropropane	39.9922 ppb v/v
							1,2,4-Trichlorobenzene	39.9922 ppb v/v
							1,2,4-Trimethylbenzene	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromoethane	39.9922 ppb v/v
							1,2-Dichlorobenzene	39.9922 ppb v/v
							1,2-Dichloroethane	39.9922 ppb v/v
							1,2-Dichloropropane	39.9922 ppb v/v
							1,2-Dichlorotetrafluoroethane	39.9922 ppb v/v
							1,3,5-Trimethylbenzene	39.9922 ppb v/v
							1,3-Butadiene	39.9922 ppb v/v
							1,3-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dioxane	39.9922 ppb v/v
							2-Chlorotoluene	39.9922 ppb v/v
							2-Methyl-2-propanol	39.9922 ppb v/v
							2-Methylbutane	39.9922 ppb v/v
							3-Chloro-1-propene	39.9922 ppb v/v
							4-Ethyltoluene	39.9922 ppb v/v
							4-Isopropyltoluene	39.9922 ppb v/v
							Acetone	39.9922 ppb v/v
							Acetonitrile	39.9922 ppb v/v
							Acrolein	39.9922 ppb v/v
							Acrylonitrile	39.9922 ppb v/v
							Alpha Methyl Styrene	39.9922 ppb v/v
							Benzene	39.9922 ppb v/v
							Benzyl chloride	39.9922 ppb v/v
							Bromodichloromethane	39.9922 ppb v/v
							Bromoform	39.9922 ppb v/v
							Bromomethane	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butane	39.9922 ppb v/v
							Carbon disulfide	39.9922 ppb v/v
							Carbon tetrachloride	39.9922 ppb v/v
							Chlorobenzene	39.9922 ppb v/v
							Chlorodifluoromethane	39.9922 ppb v/v
							Chloroethane	39.9922 ppb v/v
							Chloroform	39.9922 ppb v/v
							Chloromethane	39.9922 ppb v/v
							cis-1,2-Dichloroethene	39.9922 ppb v/v
							cis-1,3-Dichloropropene	39.9922 ppb v/v
							Cumene	39.9922 ppb v/v
							Cyclohexane	39.9922 ppb v/v
							Dibromochloromethane	39.9922 ppb v/v
							Dibromomethane	39.9922 ppb v/v
							Dichlorodifluoromethane	39.9922 ppb v/v
							Dodecane	39.9922 ppb v/v
							Ethyl acetate	39.9922 ppb v/v
							Ethyl ether	39.9922 ppb v/v
							Ethylbenzene	39.9922 ppb v/v
							Hexachlorobutadiene	39.9922 ppb v/v
							Isooctane	39.9922 ppb v/v
							Isopropyl alcohol	39.9922 ppb v/v
							m,p-Xylene	79.9845 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	39.9922 ppb v/v
							Methyl Ethyl Ketone	39.9922 ppb v/v
							methyl isobutyl ketone	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl methacrylate	39.9922 ppb v/v
							Methyl tert-butyl ether	39.9922 ppb v/v
							Methylene Chloride	39.9922 ppb v/v
							n-Butanol	39.9922 ppb v/v
							n-Butylbenzene	39.9922 ppb v/v
							n-Decane	39.9922 ppb v/v
							n-Heptane	39.9922 ppb v/v
							n-Hexane	39.9922 ppb v/v
							n-Nonane	39.9922 ppb v/v
							n-Octane	39.9922 ppb v/v
							n-Propylbenzene	39.9922 ppb v/v
							Naphthalene	39.9922 ppb v/v
							Pentane	39.9922 ppb v/v
							Propene	39.9922 ppb v/v
							sec-Butylbenzene	39.9922 ppb v/v
							Styrene	39.9922 ppb v/v
							tert-Butylbenzene	39.9922 ppb v/v
							Tetrachloroethene	39.9922 ppb v/v
							Tetrahydrofuran	39.9922 ppb v/v
							Toluene	39.9922 ppb v/v
							trans-1,2-Dichloroethene	39.9922 ppb v/v
							trans-1,3-Dichloropropene	39.9922 ppb v/v
							Trichloroethene	39.9922 ppb v/v
							Trichlorofluoromethane	39.9922 ppb v/v
							Undecane	39.9922 ppb v/v
							Vinyl acetate	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl bromide	39.9922 ppb v/v
							Vinyl chloride	39.9922 ppb v/v
							Xylene, o-	39.9922 ppb v/v
					ATTO15EthCALw_00031	3092 mL	Ethanol	99.9806 ppb v/v
.ATTO15CALSTKi_00033	10/25/12	07/25/12	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00008	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodifluoromethane	200 ppb v/v
							Chloroethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..ATTO15CALs_00008	12/07/12	Spectra Gases, Lot cc-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodifluoromethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00031	10/26/12	07/26/12	VOA Free Water, Lot 1020	37.5 ppb	ATTO15EthCALs_00005	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00005	12/07/12	SIGMA, Lot 05796KM			(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CISs_00005	11/15/15	Spectra, Lot CC-250115			(Purchased Reagent)		1,4-Difluorobenzene	100 ppb v/v
							Chlorobenzene-d5	100 ppb v/v
							Chlorobromomethane	100 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ATTO15LCSW_00218	10/25/12	07/27/12	DI WATER, Lot 3308	15.463 L	ATTO15LCSSTKi_00030	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dibromoethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,2-Dichlorotetrafluoroethane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Butadiene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v
							4-Ethyltoluene	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Benzyl chloride	9.99806 ppb v/v
							Bromodichloromethane	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,2-Dichloroethene	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cumene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dibromochloromethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							m,p-Xylene	19.9961 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	9.99806 ppb v/v
							Methyl Ethyl Ketone	9.99806 ppb v/v
							methyl isobutyl ketone	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							n-Hexane	9.99806 ppb v/v
							n-Propylbenzene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,2-Dichloroethene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
							Xylene (total)	29.9942 ppb v/v
							Xylene, o-	9.99806 ppb v/v
.ATTO15LCSSTKi_00030	10/25/12	07/25/12	DI WATER, Lot 4984	37.5 L	ATTO15LCSs_00010	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene (total)	600 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15LCSs_00010	12/07/12	Spectra Gases, Lot CC-230119			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene (total)	3 ppm v/v
							Xylene, o-	1 ppm v/v
ATTO15LCSW_00225	12/07/12	09/19/12	DI WATER, Lot 2518	15.463 L	ATTO15LCSSTKi_00031	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dibromoethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorotetrafluoroethane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Butadiene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v
							4-Ethyltoluene	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Benzyl chloride	9.99806 ppb v/v
							Bromodichloromethane	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,2-Dichloroethene	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cumene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dibromochloromethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	9.99806 ppb v/v
							m,p-Xylene	19.9961 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	9.99806 ppb v/v
							Methyl Ethyl Ketone	9.99806 ppb v/v
							methyl isobutyl ketone	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							n-Hexane	9.99806 ppb v/v
							n-Propylbenzene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,2-Dichloroethene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
							Xylene (total)	29.9942 ppb v/v
							Xylene, o-	9.99806 ppb v/v
.ATTO15LCSSTKi_00031	12/07/12	09/17/12	DI WATER, Lot 1003	37.5 L	ATTO15LCSs_00010	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene (total)	600 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15LCSs_00010	12/07/12	Spectra Gases, Lot CC-230119			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene (total)	3 ppm v/v
							Xylene, o-	1 ppm v/v

Certification Summary

Client: Arrowhead Contracting
Project/Site: Old Roosevelt - Air Only

TestAmerica Job ID: 200-12991-1
SDG: 200-12991

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Burlington	ACLASS	DoD ELAP		ADE-1492
TestAmerica Burlington	Connecticut	State Program	1	PH-0751
TestAmerica Burlington	DE Haz. Subst. Cleanup Act	State Program	3	NA
TestAmerica Burlington	Florida	NELAC	4	E87467
TestAmerica Burlington	Louisiana	NELAC	6	176292
TestAmerica Burlington	Maine	State Program	1	VT00008
TestAmerica Burlington	Minnesota	NELAC	5	050-999-436
TestAmerica Burlington	New Hampshire	NELAC	1	200610
TestAmerica Burlington	New Jersey	NELAC	2	VT972
TestAmerica Burlington	New York	NELAC	2	10391
TestAmerica Burlington	Pennsylvania	NELAC	3	68-00489
TestAmerica Burlington	Rhode Island	State Program	1	LAO00298
TestAmerica Burlington	USDA	Federal		P330-11-00093
TestAmerica Burlington	Vermont	State Program	1	VT-4000
TestAmerica Burlington	Virginia	NELAC	3	460209

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method TO15

Volatile Organic Compounds (GC/MS) by Method TO15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Matrix: Air Level: Low Lab File ID: claq003.d

Lab ID: LCS 200-46287/3 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	10.5	105	70-130	
1,2-Dichlorotetrafluoroethane	10.0	10.1	101	70-130	
Chloromethane	10.0	9.72	97	70-130	
Vinyl chloride	10.0	9.59	96	70-130	
1,3-Butadiene	10.0	10.1	101	70-130	
Bromomethane	10.0	9.92	99	70-130	
Chloroethane	10.0	9.57	96	70-130	
Trichlorofluoromethane	10.0	9.97	100	70-130	
1,1-Dichloroethene	10.0	10.8	108	70-130	
Acetone	10.0	7.20	72	70-130	
Isopropyl alcohol	10.0	8.99	90	70-130	
Carbon disulfide	10.0	9.85	99	70-130	
Methylene Chloride	10.0	9.63	96	70-130	
Methyl tert-butyl ether	10.0	8.23	82	70-130	
trans-1,2-Dichloroethene	10.0	9.47	95	70-130	
n-Hexane	10.0	9.30	93	70-130	
1,1-Dichloroethane	10.0	9.58	96	70-130	
Methyl Ethyl Ketone	10.0	7.84	78	70-130	
cis-1,2-Dichloroethene	10.0	9.98	100	70-130	
Chloroform	10.0	9.83	98	70-130	
Tetrahydrofuran	10.0	7.81	78	70-130	
1,1,1-Trichloroethane	10.0	10.1	101	70-130	
Cyclohexane	10.0	10.2	102	70-130	
Carbon tetrachloride	10.0	10.3	103	70-130	
Benzene	10.0	9.67	97	70-130	
1,2-Dichloroethane	10.0	9.86	99	70-130	
n-Heptane	10.0	9.21	92	70-130	
Trichloroethene	10.0	9.78	98	70-130	
1,2-Dichloropropane	10.0	9.28	93	70-130	
Bromodichloromethane	10.0	10.5	105	70-130	
cis-1,3-Dichloropropene	10.0	9.13	91	70-130	
methyl isobutyl ketone	10.0	9.68	97	70-130	
Toluene	10.0	10.3	103	70-130	
trans-1,3-Dichloropropene	10.0	8.65	86	70-130	
1,1,2-Trichloroethane	10.0	10.1	101	70-130	
Tetrachloroethene	10.0	11.6	116	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	11.4	114	70-130	
Dibromochloromethane	10.0	12.2	122	70-130	
1,2-Dibromoethane	10.0	10.9	109	70-130	
Chlorobenzene	10.0	10.5	105	70-130	
Ethylbenzene	10.0	9.98	100	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Matrix: Air Level: Low Lab File ID: claq003.d

Lab ID: LCS 200-46287/3 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
m,p-Xylene	20.0	20.2	101	70-130	
Xylene, o-	10.0	9.99	100	70-130	
Styrene	10.0	10.7	107	70-130	
Bromoform	10.0	11.9	119	70-130	
Cumene	10.0	10.3	103	70-130	
1,1,2,2-Tetrachloroethane	10.0	9.79	98	70-130	
n-Propylbenzene	10.0	10.1	101	70-130	
4-Ethyltoluene	10.0	10.5	105	70-130	
1,3,5-Trimethylbenzene	10.0	9.99	100	70-130	
1,2,4-Trimethylbenzene	10.0	10.0	100	70-130	
1,3-Dichlorobenzene	10.0	10.5	105	70-130	
1,4-Dichlorobenzene	10.0	10.5	105	70-130	
Benzyl chloride	10.0	11.6	116	70-130	
1,2-Dichlorobenzene	10.0	10.5	105	70-130	
1,2,4-Trichlorobenzene	10.0	14.5	145	70-130	*
Hexachlorobutadiene	10.0	11.3	113	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Lab File ID: claq004.d Lab Sample ID: MB 200-46287/4

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: C.i Date Analyzed: 10/10/2012 12:39

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-46287/3	claq003.d	10/10/2012 11:49
BA316	200-12991-1	claq012.d	10/10/2012 19:29

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Lab File ID: cla001.d BFB Injection Date: 09/19/2012

Instrument ID: C.i BFB Injection Time: 12:05

Analysis Batch No.: 45233

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	14.0	
75	30.0 - 66.0% of mass 95	45.0	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.9	
173	Less than 2.0% of mass 174	0.0	(0.0)1
174	50.0 - 120.0% of mass 95	81.4	
175	4.0 - 9.0 % of mass 174	5.8	(7.1)1
176	93.0 - 101.0% of mass 174	78.8	(96.7)1
177	5.0 - 9.0% of mass 176	5.0	(6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-45233/3	cla003.d	09/19/2012	13:52
	IC 200-45233/4	cla004.d	09/19/2012	14:45
	IC 200-45233/5	cla005.d	09/19/2012	15:38
	IC 200-45233/6	cla006.d	09/19/2012	16:32
	ICIS 200-45233/7	cla007.d	09/19/2012	17:25
	IC 200-45233/8	cla008.d	09/19/2012	18:19
	IC 200-45233/9	cla009.d	09/19/2012	19:13
	IC 200-45233/10	cla010.d	09/19/2012	20:06
	ICV 200-45233/14	cla014.d	09/20/2012	09:17

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Lab File ID: claq001.d BFB Injection Date: 10/10/2012

Instrument ID: C.i BFB Injection Time: 10:20

Analysis Batch No.: 46287

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	13.9	
75	30.0 - 66.0% of mass 95	45.0	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.9	
173	Less than 2.0% of mass 174	0.0	(0.0)1
174	50.0 - 120.0% of mass 95	86.1	
175	4.0 - 9.0 % of mass 174	6.0	(7.0)1
176	93.0 - 101.0% of mass 174	83.5	(96.9)1
177	5.0 - 9.0% of mass 176	5.3	(6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-46287/2	claq002.d	10/10/2012	10:58
	LCS 200-46287/3	claq003.d	10/10/2012	11:49
	MB 200-46287/4	claq004.d	10/10/2012	12:39
BA316	200-12991-1	claq012.d	10/10/2012	19:29

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Sample No.: ICIS 200-45233/7 Date Analyzed: 09/19/2012 17:25

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): cla007.d Heated Purge: (Y/N) N

Calibration ID: 17700

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		349260	12.07	1926691	13.89	1809194	19.42
UPPER LIMIT		488964	12.40	2697367	14.22	2532872	19.75
LOWER LIMIT		209556	11.74	1156015	13.56	1085516	19.09
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-45233/14		372273	12.07	2112167	13.89	1994790	19.41

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Sample No.: CCVIS 200-46287/2 Date Analyzed: 10/10/2012 10:58

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): claq002.d Heated Purge: (Y/N) N

Calibration ID: 17700

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		326333	12.06	1798031	13.88	1658980	19.40
UPPER LIMIT		456866	12.39	2517243	14.21	2322572	19.73
LOWER LIMIT		195800	11.73	1078819	13.55	995388	19.07
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-46287/3		338569	12.06	1826106	13.88	1469346	19.40
MB 200-46287/4		292068	12.05	1753478	13.88	1347865	19.40
200-12991-1	BA316	310198	12.05	1726831	13.88	1492304	19.40

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-12991-1

SDG No.: 200-12991

Client Sample ID: BA316 | Lab Sample ID: 200-12991-1

Matrix: Air | Lab File ID: claq012.d

Analysis Method: TO-15 | Date Collected: 09/26/2012 14:20

Sample wt/vol: 53(mL) | Date Analyzed: 10/10/2012 19:29

Soil Aliquot Vol: | Dilution Factor: 15.1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 46287 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	40		7.6	0.30
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	3.0	U	3.0	0.30
74-87-3	Chloromethane	50.49	7.6	U	7.6	0.51
75-01-4	Vinyl chloride	62.50	3.0	U	3.0	0.14
106-99-0	1,3-Butadiene	54.09	3.0	U	3.0	0.38
74-83-9	Bromomethane	94.94	3.0	U	3.0	0.41
75-00-3	Chloroethane	64.52	7.6	U	7.6	0.50
75-69-4	Trichlorofluoromethane	137.37	71		3.0	0.32
75-35-4	1,1-Dichloroethene	96.94	11		3.0	1.3
67-64-1	Acetone	58.08	76	U	76	6.0
67-63-0	Isopropyl alcohol	60.10	76	U	76	1.1
75-15-0	Carbon disulfide	76.14	7.6	U	7.6	0.30
75-09-2	Methylene Chloride	84.93	7.6	U	7.6	0.35
1634-04-4	Methyl tert-butyl ether	88.15	6.5		3.0	0.23
156-60-5	trans-1,2-Dichloroethene	96.94	5.0		3.0	0.35
110-54-3	n-Hexane	86.17	3.0	U	3.0	0.30
75-34-3	1,1-Dichloroethane	98.96	5.1		3.0	0.35
78-93-3	Methyl Ethyl Ketone	72.11	7.6	U	7.6	0.38
156-59-2	cis-1,2-Dichloroethene	96.94	27		3.0	1.3
67-66-3	Chloroform	119.38	3.0	U	3.0	0.36
109-99-9	Tetrahydrofuran	72.11	76	U	76	0.44
71-55-6	1,1,1-Trichloroethane	133.41	3.0	U	3.0	0.30
110-82-7	Cyclohexane	84.16	3.0	U	3.0	0.29
56-23-5	Carbon tetrachloride	153.81	3.0	U	3.0	0.20
71-43-2	Benzene	78.11	3.0	U	3.0	0.27
107-06-2	1,2-Dichloroethane	98.96	3.0	U	3.0	0.27
142-82-5	n-Heptane	100.21	3.0	U	3.0	0.26
79-01-6	Trichloroethene	131.39	340		3.0	0.14
78-87-5	1,2-Dichloropropane	112.99	3.0	U	3.0	0.35
75-27-4	Bromodichloromethane	163.83	3.0	U	3.0	0.18
10061-01-5	cis-1,3-Dichloropropene	110.97	3.0	U	3.0	0.20
108-10-1	methyl isobutyl ketone	100.16	7.6	U	7.6	0.51
108-88-3	Toluene	92.14	3.0	U	3.0	0.21
10061-02-6	trans-1,3-Dichloropropene	110.97	3.0	U	3.0	0.23
79-00-5	1,1,2-Trichloroethane	133.41	3.0	U	3.0	0.24

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Client Sample ID: BA316 Lab Sample ID: 200-12991-1

Matrix: Air Lab File ID: claq012.d

Analysis Method: TO-15 Date Collected: 09/26/2012 14:20

Sample wt/vol: 53(mL) Date Analyzed: 10/10/2012 19:29

Soil Aliquot Vol: Dilution Factor: 15.1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 46287 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	165.83	300		3.0	0.23
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	7.6	U	7.6	0.60
124-48-1	Dibromochloromethane	208.29	3.0	U	3.0	0.17
106-93-4	1,2-Dibromoethane	187.87	3.0	U	3.0	0.21
108-90-7	Chlorobenzene	112.30	3.0	U	3.0	0.20
100-41-4	Ethylbenzene	106.17	3.0	U	3.0	0.23
179601-23-1	m,p-Xylene	106.17	7.6	U	7.6	0.33
95-47-6	Xylene, o-	106.17	3.0	U	3.0	0.24
1330-20-7	Xylene (total)	106.17	3.0	U	3.0	0.24
100-42-5	Styrene	104.15	3.0	U	3.0	0.17
75-25-2	Bromoform	252.75	3.0	U	3.0	0.11
98-82-8	Cumene	120.19	3.0	U	3.0	0.17
79-34-5	1,1,2,2-Tetrachloroethane	167.85	3.0	U	3.0	0.17
103-65-1	n-Propylbenzene	120.19	3.0	U	3.0	0.20
622-96-8	4-Ethyltoluene	120.20	3.0	U	3.0	0.23
108-67-8	1,3,5-Trimethylbenzene	120.20	3.0	U	3.0	0.29
95-63-6	1,2,4-Trimethylbenzene	120.20	3.0	U	3.0	0.32
541-73-1	1,3-Dichlorobenzene	147.00	3.0	U	3.0	0.29
106-46-7	1,4-Dichlorobenzene	147.00	3.0	U	3.0	0.27
100-44-7	Benzyl chloride	126.58	3.0	U	3.0	0.33
95-50-1	1,2-Dichlorobenzene	147.00	3.0	U	3.0	0.39
120-82-1	1,2,4-Trichlorobenzene	181.45	7.6	U *	7.6	0.45
87-68-3	Hexachlorobutadiene	260.76	3.0	U	3.0	0.44

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-12991-1

SDG No.: 200-12991

Client Sample ID: BA316 | Lab Sample ID: 200-12991-1

Matrix: Air | Lab File ID: claq012.d

Analysis Method: TO-15 | Date Collected: 09/26/2012 14:20

Sample wt/vol: 53(mL) | Date Analyzed: 10/10/2012 19:29

Soil Aliquot Vol: | Dilution Factor: 15.1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 46287 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	200		37	1.5
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	21	U	21	2.1
74-87-3	Chloromethane	50.49	16	U	16	1.1
75-01-4	Vinyl chloride	62.50	7.7	U	7.7	0.35
106-99-0	1,3-Butadiene	54.09	6.7	U	6.7	0.84
74-83-9	Bromomethane	94.94	12	U	12	1.6
75-00-3	Chloroethane	64.52	20	U	20	1.3
75-69-4	Trichlorofluoromethane	137.37	400		17	1.8
75-35-4	1,1-Dichloroethene	96.94	44		12	5.1
67-64-1	Acetone	58.08	180	U	180	14
67-63-0	Isopropyl alcohol	60.10	190	U	190	2.8
75-15-0	Carbon disulfide	76.14	24	U	24	0.94
75-09-2	Methylene Chloride	84.93	26	U	26	1.2
1634-04-4	Methyl tert-butyl ether	88.15	23		11	0.82
156-60-5	trans-1,2-Dichloroethene	96.94	20		12	1.4
110-54-3	n-Hexane	86.17	11	U	11	1.1
75-34-3	1,1-Dichloroethane	98.96	21		12	1.4
78-93-3	Methyl Ethyl Ketone	72.11	22	U	22	1.1
156-59-2	cis-1,2-Dichloroethene	96.94	110		12	5.0
67-66-3	Chloroform	119.38	15	U	15	1.8
109-99-9	Tetrahydrofuran	72.11	220	U	220	1.3
71-55-6	1,1,1-Trichloroethane	133.41	16	U	16	1.6
110-82-7	Cyclohexane	84.16	10	U	10	0.99
56-23-5	Carbon tetrachloride	153.81	19	U	19	1.2
71-43-2	Benzene	78.11	9.6	U	9.6	0.87
107-06-2	1,2-Dichloroethane	98.96	12	U	12	1.1
142-82-5	n-Heptane	100.21	12	U	12	1.1
79-01-6	Trichloroethene	131.39	1800		16	0.75
78-87-5	1,2-Dichloropropane	112.99	14	U	14	1.6
75-27-4	Bromodichloromethane	163.83	20	U	20	1.2
10061-01-5	cis-1,3-Dichloropropene	110.97	14	U	14	0.89
108-10-1	methyl isobutyl ketone	100.16	31	U	31	2.1
108-88-3	Toluene	92.14	11	U	11	0.80
10061-02-6	trans-1,3-Dichloropropene	110.97	14	U	14	1.0
79-00-5	1,1,2-Trichloroethane	133.41	16	U	16	1.3

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Client Sample ID: BA316 Lab Sample ID: 200-12991-1

Matrix: Air Lab File ID: claq012.d

Analysis Method: TO-15 Date Collected: 09/26/2012 14:20

Sample wt/vol: 53(mL) Date Analyzed: 10/10/2012 19:29

Soil Aliquot Vol: Dilution Factor: 15.1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 46287 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	165.83	2000		20	1.5
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	31	U	31	2.5
124-48-1	Dibromochloromethane	208.29	26	U	26	1.4
106-93-4	1,2-Dibromoethane	187.87	23	U	23	1.6
108-90-7	Chlorobenzene	112.30	14	U	14	0.90
100-41-4	Ethylbenzene	106.17	13	U	13	0.98
179601-23-1	m,p-Xylene	106.17	33	U	33	1.4
95-47-6	Xylene, o-	106.17	13	U	13	1.0
1330-20-7	Xylene (total)	106.17	13	U	13	1.0
100-42-5	Styrene	104.15	13	U	13	0.71
75-25-2	Bromoform	252.75	31	U	31	1.1
98-82-8	Cumene	120.19	15	U	15	0.82
79-34-5	1,1,2,2-Tetrachloroethane	167.85	21	U	21	1.1
103-65-1	n-Propylbenzene	120.19	15	U	15	0.96
622-96-8	4-Ethyltoluene	120.20	15	U	15	1.1
108-67-8	1,3,5-Trimethylbenzene	120.20	15	U	15	1.4
95-63-6	1,2,4-Trimethylbenzene	120.20	15	U	15	1.6
541-73-1	1,3-Dichlorobenzene	147.00	18	U	18	1.7
106-46-7	1,4-Dichlorobenzene	147.00	18	U	18	1.6
100-44-7	Benzyl chloride	126.58	16	U	16	1.7
95-50-1	1,2-Dichlorobenzene	147.00	18	U	18	2.4
120-82-1	1,2,4-Trichlorobenzene	181.45	56	U *	56	3.4
87-68-3	Hexachlorobutadiene	260.76	32	U	32	4.7

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Lab Sample Id: 200-12991-1
Client Smp ID: BA316
Inj Date : 10-OCT-2012 19:29
Operator : WRD Inst ID: C.i
Smp Info : 200-12991-A-1
Misc Info : 53,15.1,all74 cdf 4.00
Comment :
Method : /chem/C.i/Csvr.p/claqto15.b/to15v5.m
Meth Date : 11-Oct-2012 10:12 wrd Quant Type: ISTD
Cal Date : 19-SEP-2012 20:06 Cal File: cla010.d
Als bottle: 10
Dil Factor: 15.10000
Integrator: HP RTE Compound Sublist: all74.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	15.10000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	53.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
2 Dichlorodifluoromethane	85	4.298	4.304	(0.357)	207127	2.62157	40
3 Chlorodifluoromethane	51	4.357	4.363	(0.362)	107568	3.09176	47
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	Compound Not Detected.					
6 Butane	43	Compound Not Detected.					
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	6.839	6.844	(0.567)	389597	4.70353	71
17 1,1,2-Trichloro-1,2,2-trifluo	101	8.008	8.018	(0.664)	7802	0.13530	2.0(aQ)
19 1,1-Dichloroethene	96	8.040	8.050	(0.667)	20328	0.74156	11
20 Acetone	43	Compound Not Detected.					

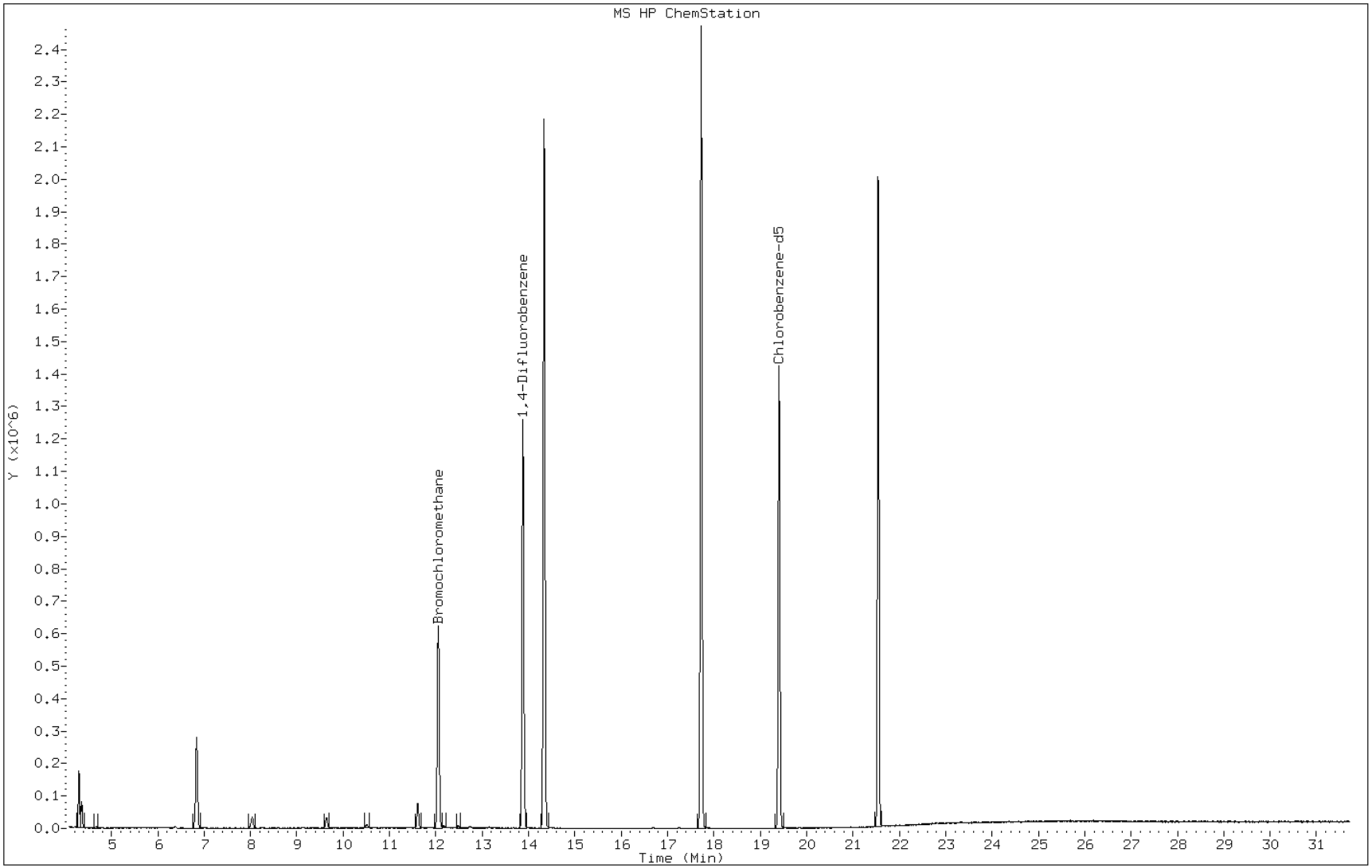
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	21 Carbon disulfide	76	Compound Not Detected.					
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	25 Methylene chloride	49	Compound Not Detected.					
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	9.646	9.619	(0.800)	32448	0.42715	6.5
	28 1,2-Dichloroethene (trans)	61	9.635	9.641	(0.799)	11539	0.32952	5.0
	30 n-Hexane	57	Compound Not Detected.					
	31 1,1-Dichloroethane	63	10.516	10.521	(0.872)	15115	0.33575	5.1
M	33 1,2-Dichloroethene,Total	61				68964	2.11813	32
	34 1,2-Dichloroethene (cis)	96	11.610	11.621	(0.963)	57425	1.78862	27
	36 Methyl Ethyl Ketone	72	Compound Not Detected.					
*	37 Bromochloromethane	128	12.053	12.069	(1.000)	310198	10.0000	
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	12.165	12.186	(1.009)	6545	0.10517	1.6(aQ)
	40 Cyclohexane	84	Compound Not Detected.					
	41 1,1,1-Trichloroethane	97	12.485	12.501	(0.900)	7397	0.10139	1.5(aQ)
	42 Carbon tetrachloride	117	12.741	12.758	(0.918)	4898	0.06486	0.98(aM)
	43 2,2,4-Trimethylpentane	57	Compound Not Detected.					
	44 Benzene	78	Compound Not Detected.					
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	13.878	13.894	(1.000)	1726831	10.0000	
	49 Trichloroethene	95	14.337	14.348	(1.033)	1012526	22.6547	340
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	Compound Not Detected.					
	58 Toluene	92	Compound Not Detected.					
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	17.726	17.737	(0.914)	1240396	19.8620	300
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	19.402	19.418	(1.000)	1492304	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	68 Ethylbenzene	91	Compound Not Detected.					
	69 Xylene (m,p)	106	Compound Not Detected.					
M	70 Xylenes, Total	106	Compound Not Detected.					
	71 Xylene (o)	106	Compound Not Detected.					
	72 Styrene	104	Compound Not Detected.					
	73 Bromoform	173	Compound Not Detected.					
	74 Isopropylbenzene	105	Compound Not Detected.					
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
76 n-Propylbenzene	91	Compound Not Detected.					
79 4-Ethyltoluene	105	Compound Not Detected.					
80 2-Chlorotoluene	91	Compound Not Detected.					
81 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 tert-butylbenzene	119	Compound Not Detected.					
84 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
85 sec-Butylbenzene	105	Compound Not Detected.					
86 4-Isopropyltoluene	119	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 1,4-Dichlorobenzene	146	Compound Not Detected.					
89 Benzyl chloride	91	Compound Not Detected.					
91 n-Butylbenzene	91	Compound Not Detected.					
92 1,2-Dichlorobenzene	146	Compound Not Detected.					
94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
96 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File:	claq012.d	Date:	10-OCT-2012 19:29
Client ID:	BA316	Instrument:	C.i
Operator:	WRD	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	200-12991-A-1		
Lab Sample ID:	200-12991-1		



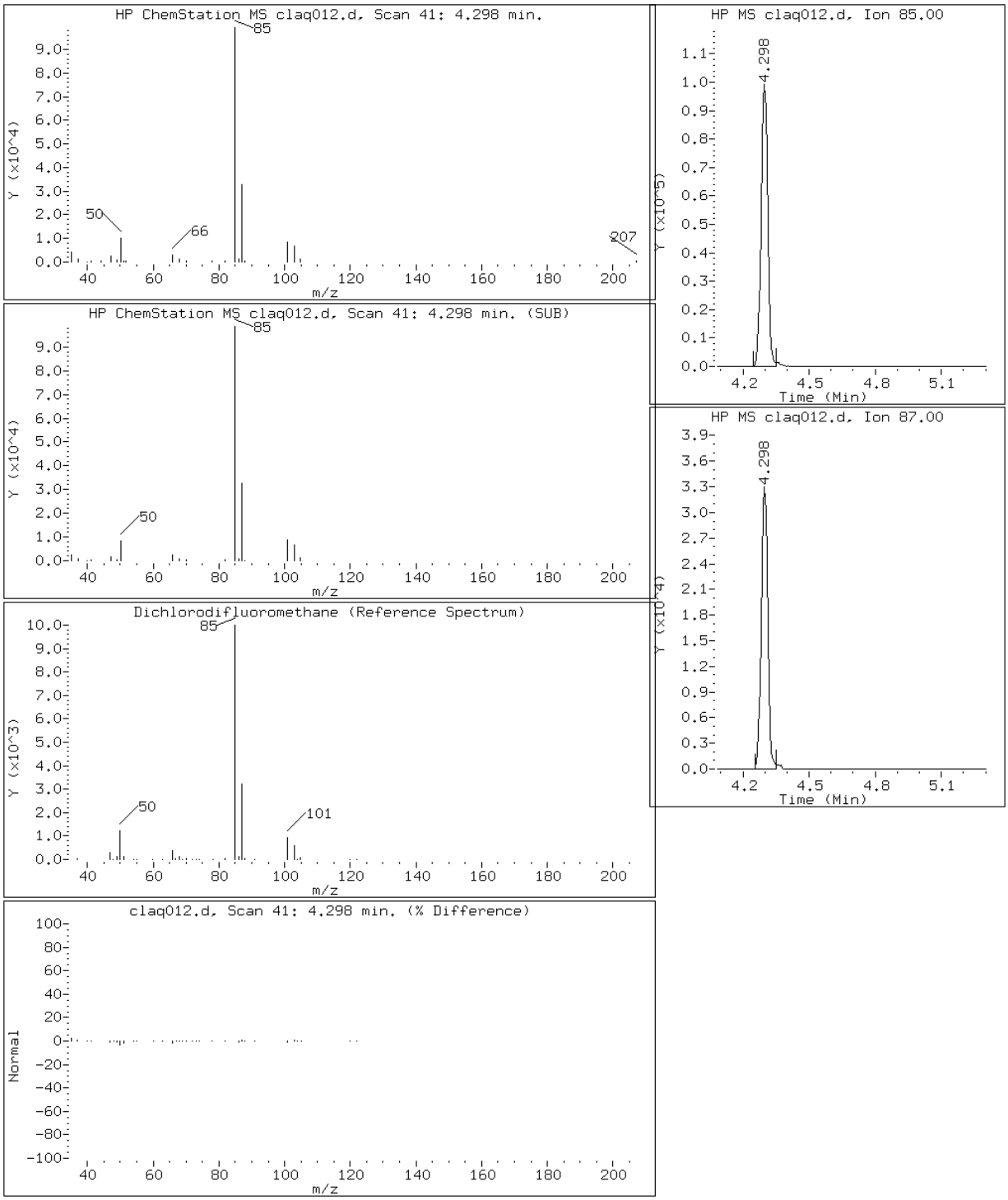
Data File: claq012.d

Lab Sample ID: 200-12991-1 Date: 10-OCT-2012 19:29

Client ID: BA316 Instrument: C.i

Sample Info: 200-12991-A-1 Operator: WRD

2 Dichlorodifluoromethane



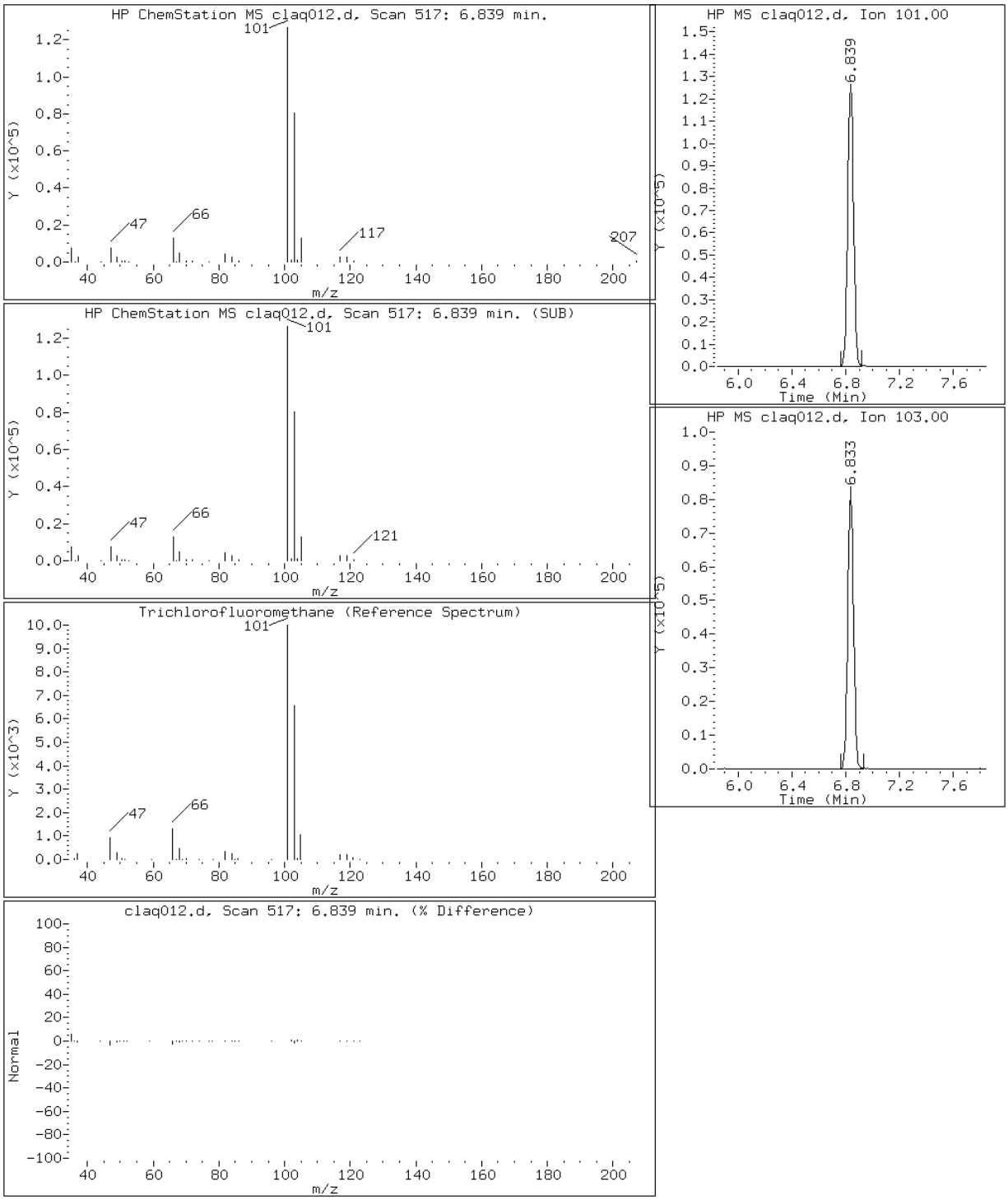
Data File: claq012.d

Lab Sample ID: 200-12991-1 Date: 10-OCT-2012 19:29

Client ID: BA316 Instrument: C.i

Sample Info: 200-12991-A-1 Operator: WRD

13 Trichlorofluoromethane



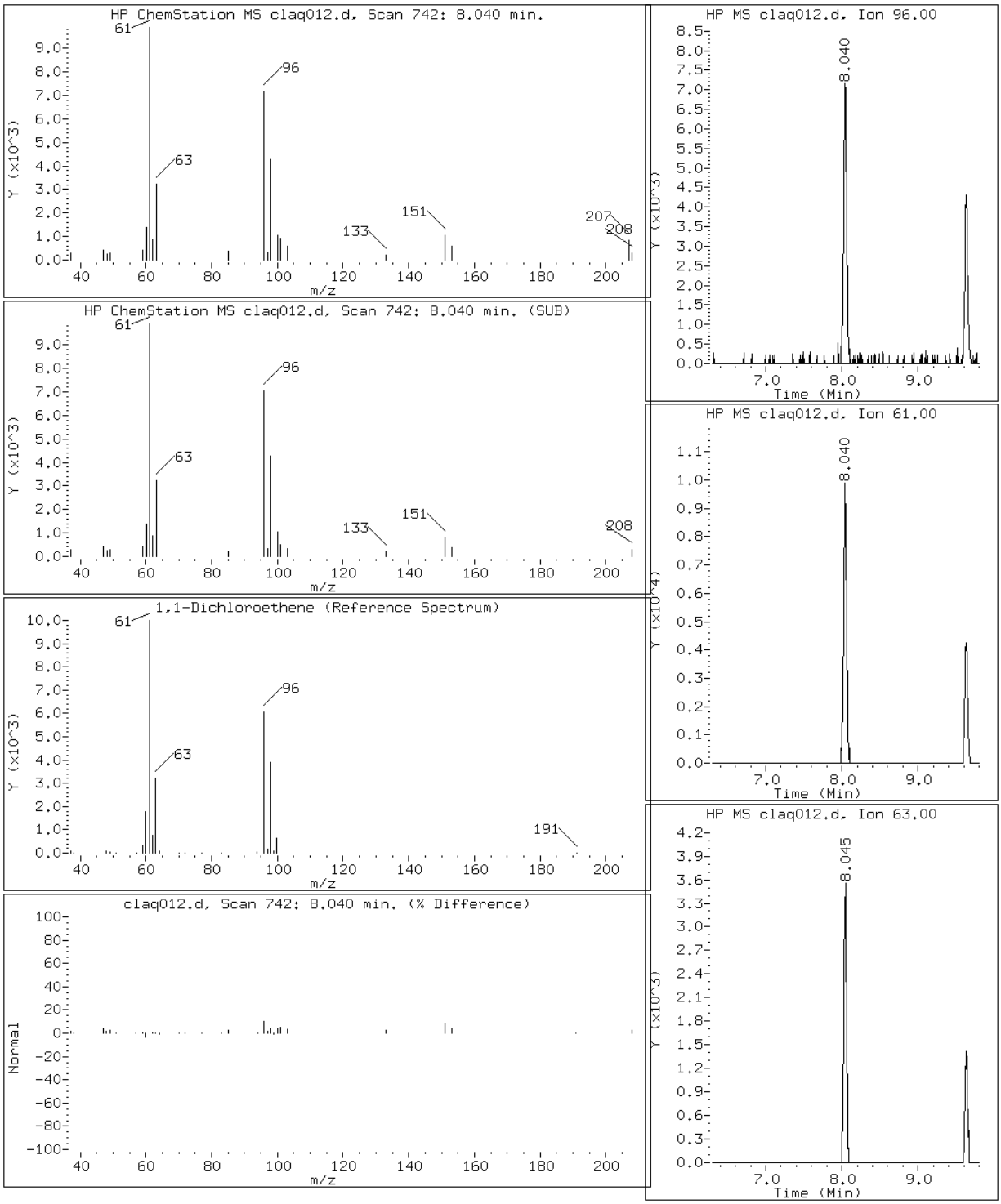
Data File: claq012.d

Lab Sample ID: 200-12991-1 Date: 10-OCT-2012 19:29

Client ID: BA316 Instrument: C.i

Sample Info: 200-12991-A-1 Operator: WRD

19 1,1-Dichloroethene



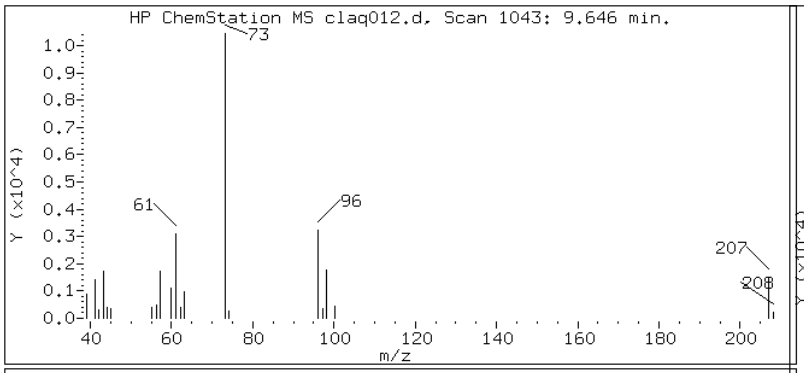
Data File: claq012.d

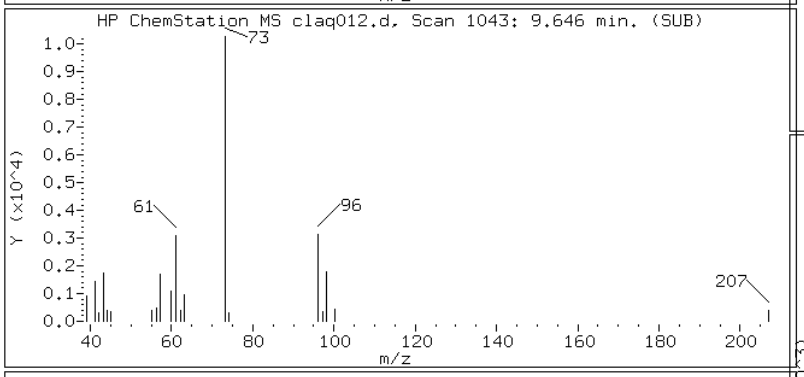
Lab Sample ID: 200-12991-1 Date: 10-OCT-2012 19:29

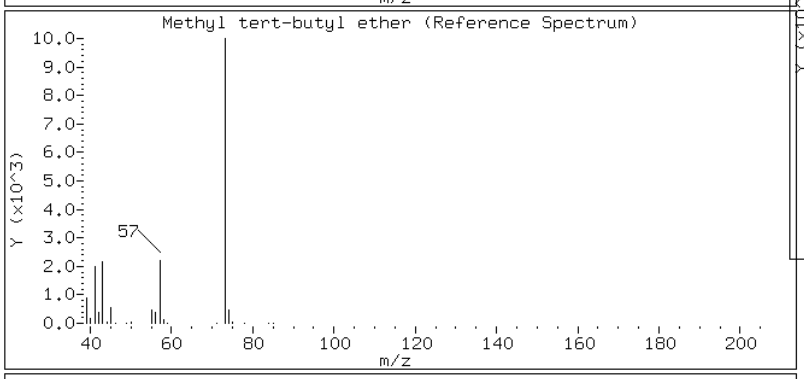
Client ID: BA316 Instrument: C.i

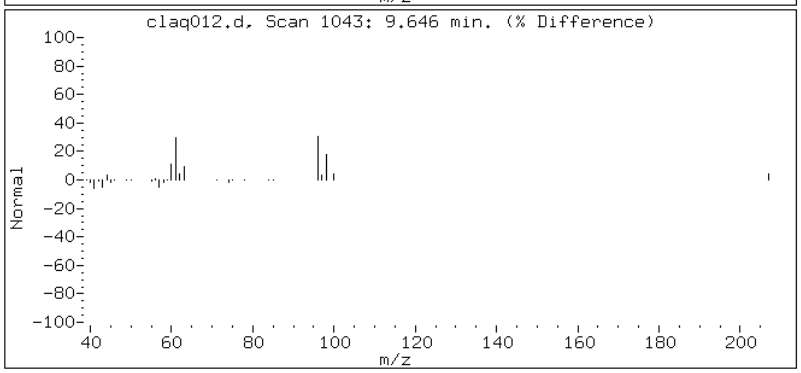
Sample Info: 200-12991-A-1 Operator: WRD

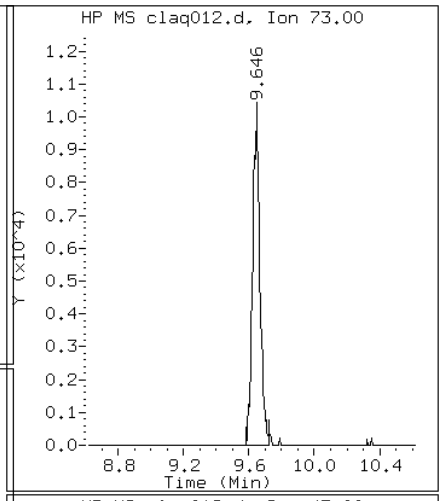
27 Methyl tert-butyl ether

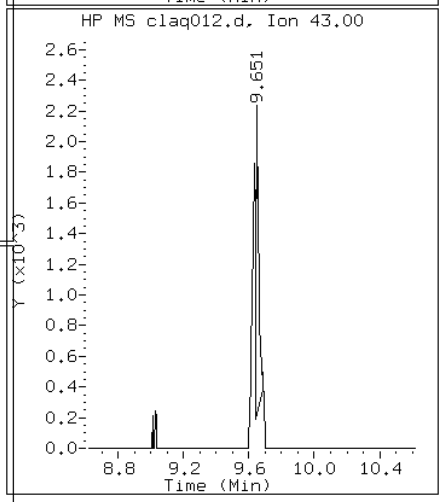












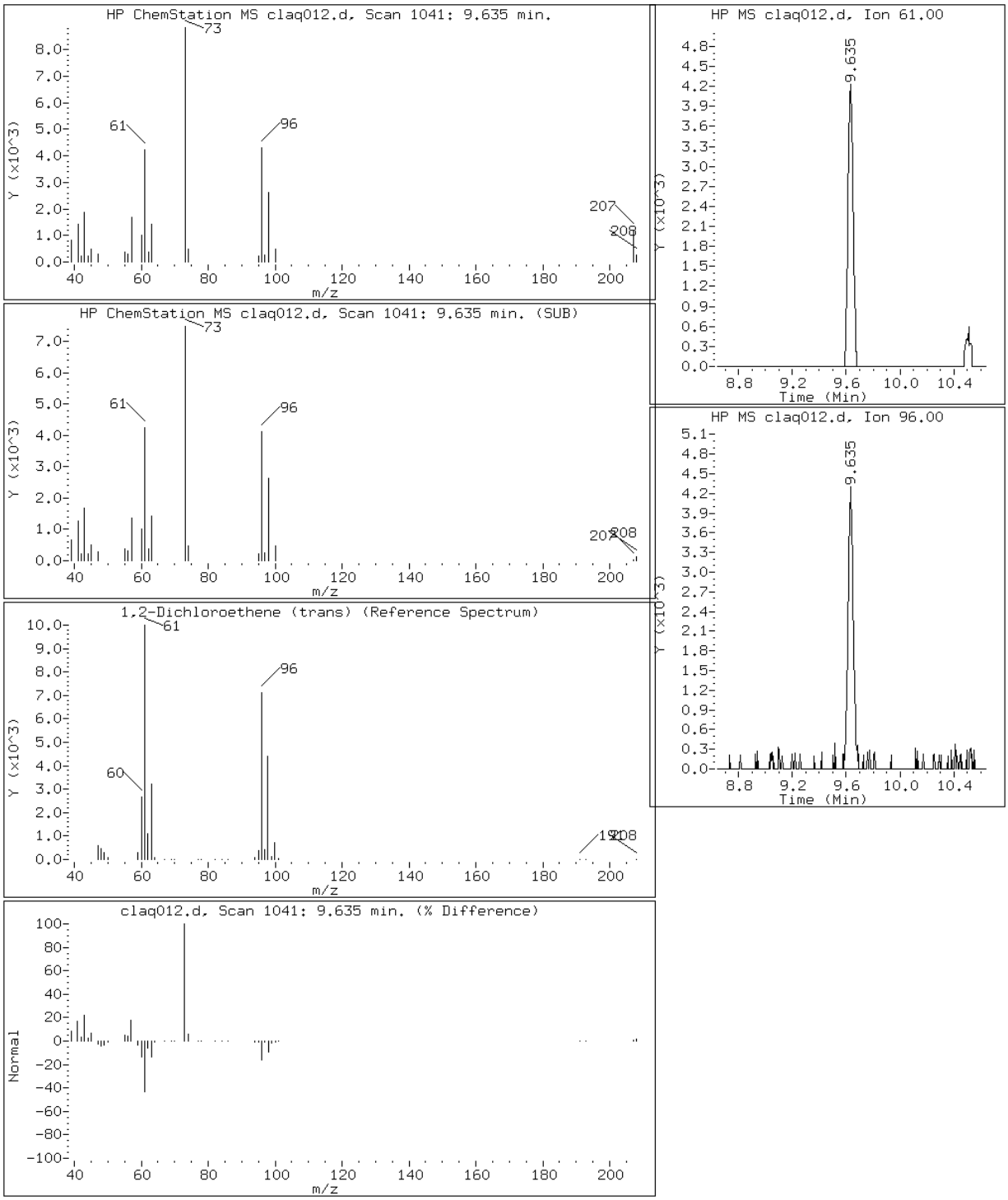
Data File: claq012.d

Lab Sample ID: 200-12991-1 Date: 10-OCT-2012 19:29

Client ID: BA316 Instrument: C.i

Sample Info: 200-12991-A-1 Operator: WRD

28 1,2-Dichloroethene (trans)



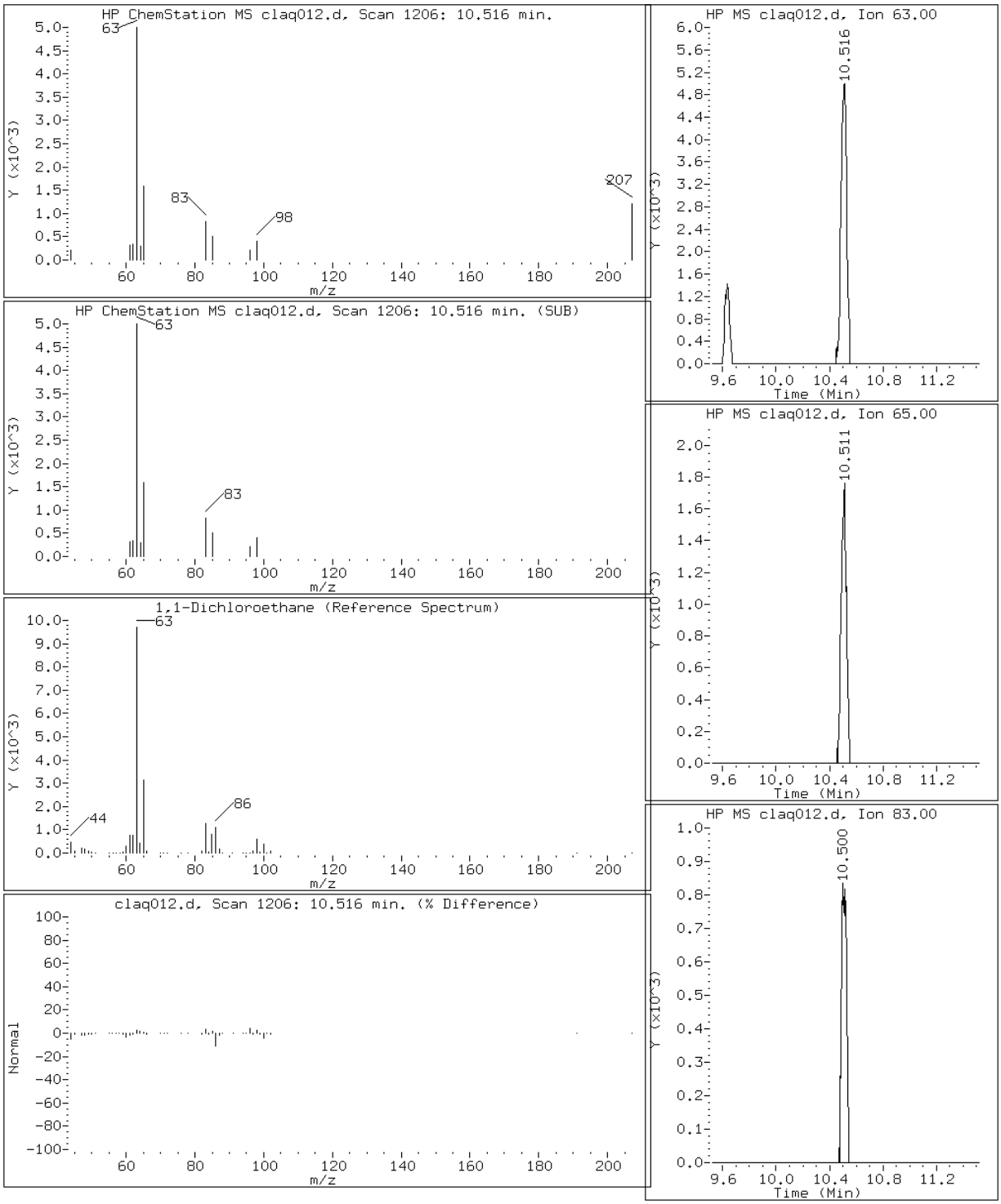
Data File: claq012.d

Lab Sample ID: 200-12991-1 Date: 10-OCT-2012 19:29

Client ID: BA316 Instrument: C.i

Sample Info: 200-12991-A-1 Operator: WRD

31 1,1-Dichloroethane



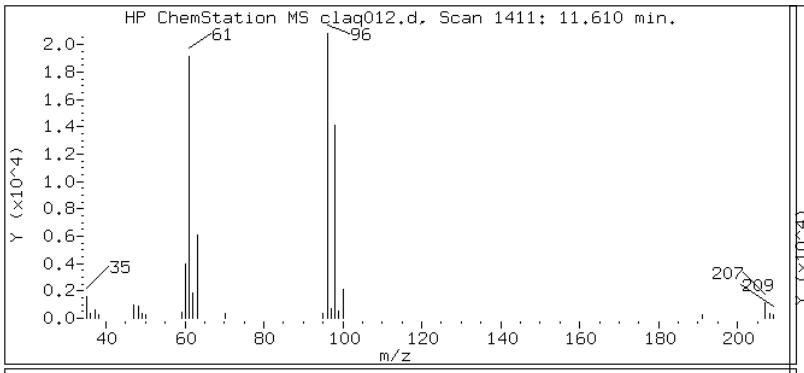
Data File: claq012.d

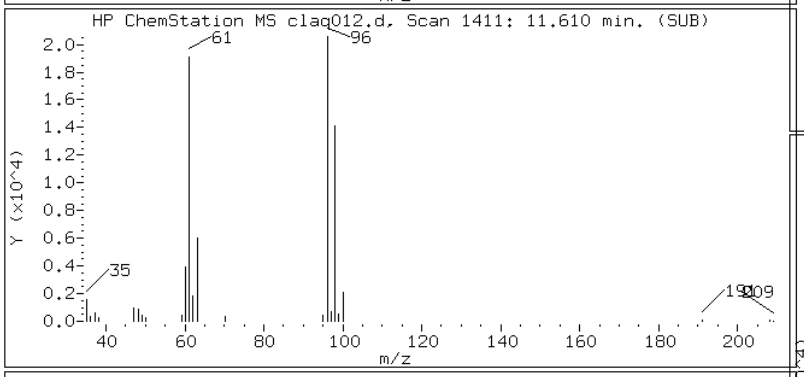
Lab Sample ID: 200-12991-1 Date: 10-OCT-2012 19:29

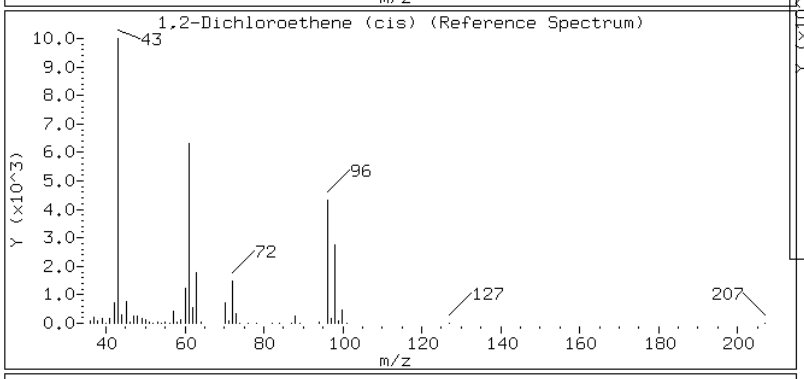
Client ID: BA316 Instrument: C.i

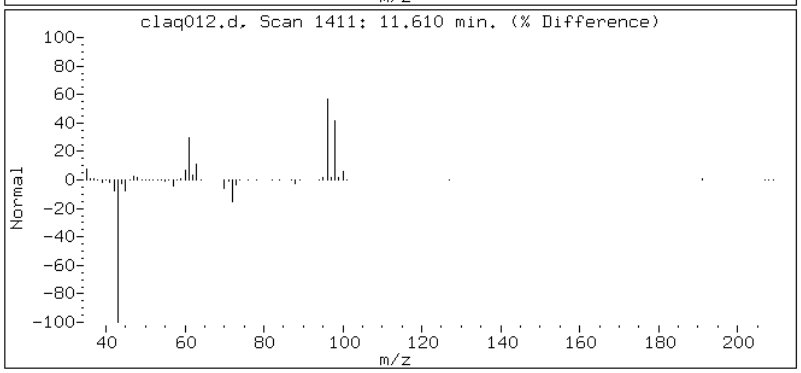
Sample Info: 200-12991-A-1 Operator: WRD

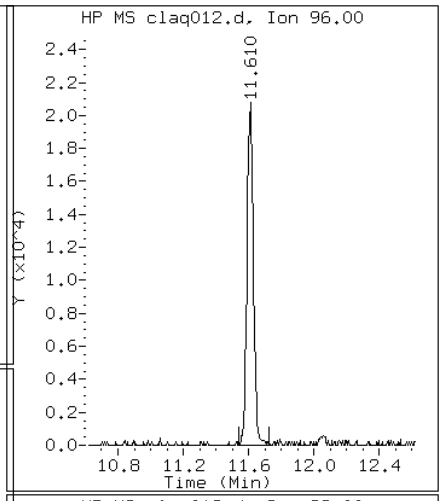
34 1,2-Dichloroethene (cis)

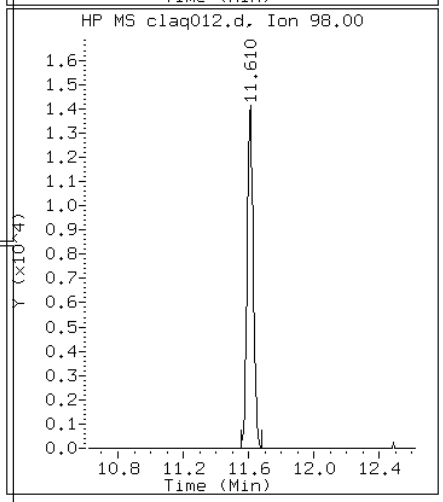












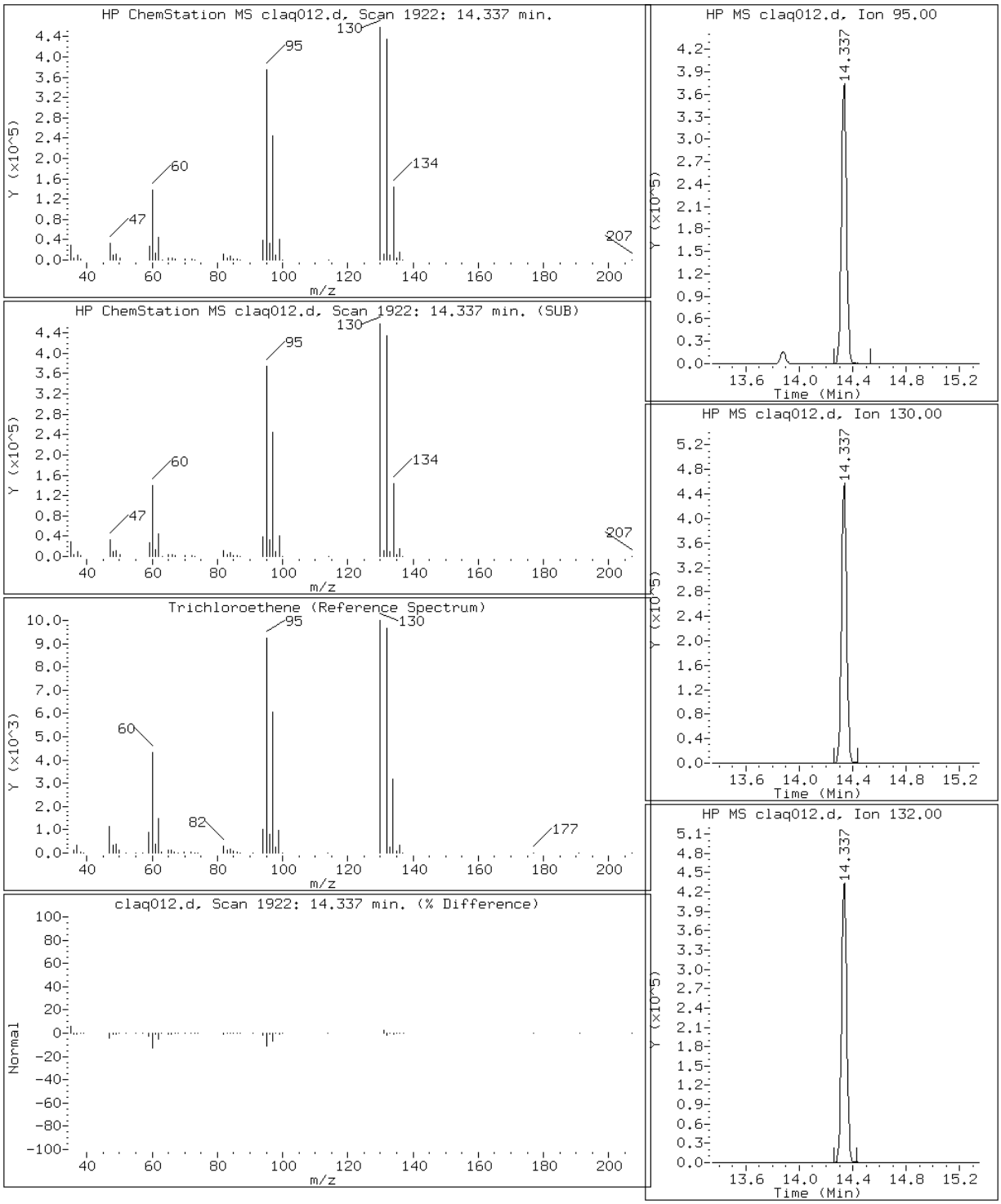
Data File: claq012.d

Lab Sample ID: 200-12991-1 Date: 10-OCT-2012 19:29

Client ID: BA316 Instrument: C.i

Sample Info: 200-12991-A-1 Operator: WRD

49 Trichloroethene



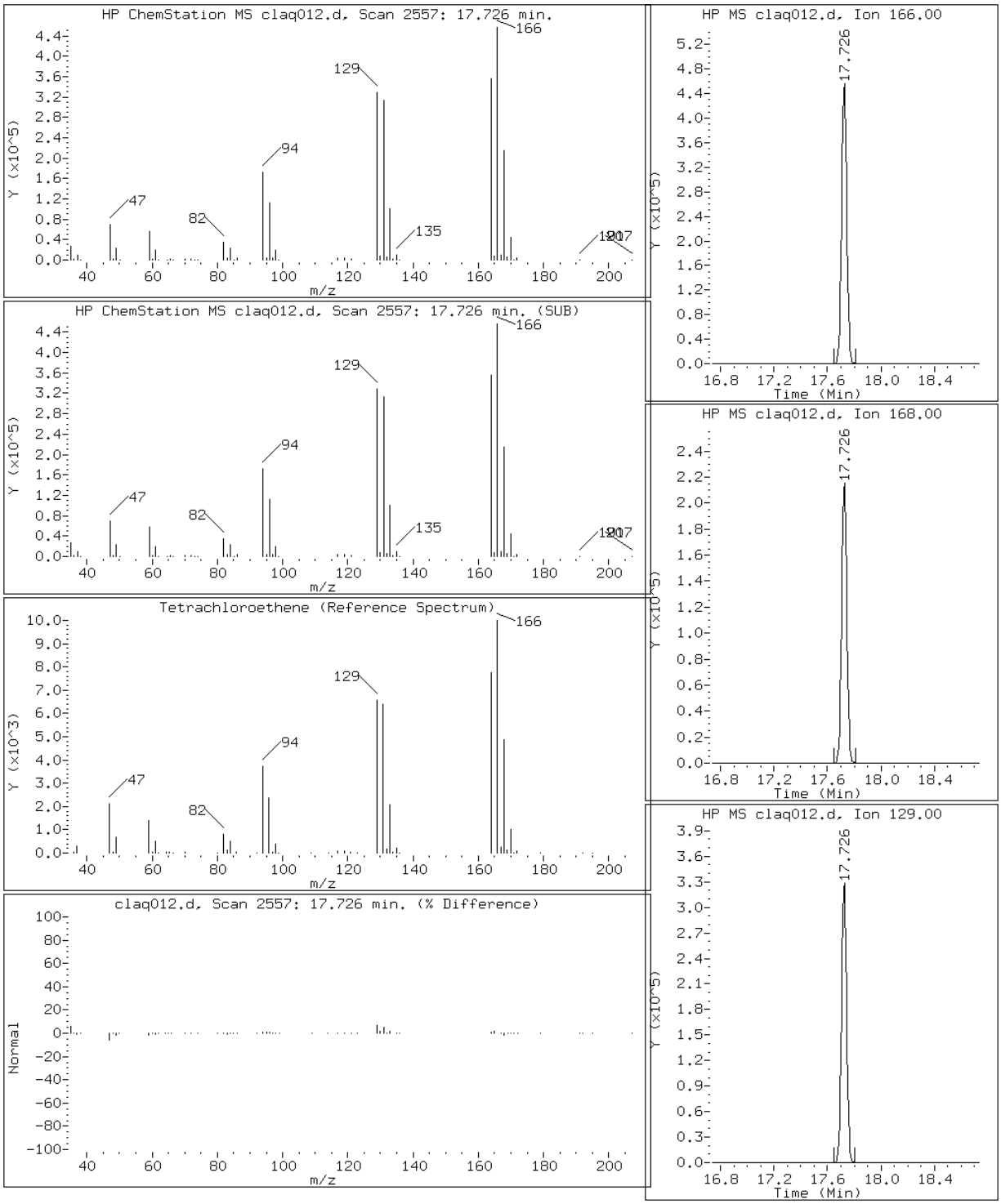
Data File: claq012.d

Lab Sample ID: 200-12991-1 Date: 10-OCT-2012 19:29

Client ID: BA316 Instrument: C.i

Sample Info: 200-12991-A-1 Operator: WRD

61 Tetrachloroethene



Manual Integration Report

Data File: claq012.d
Lab Sample ID: 200-12991-1
Inj. Date and Time: 10-OCT-2012 19:29
Instrument ID: C.i
Client ID: BA316
Compound: 42 Carbon tetrachloride
CAS #: 56-23-5
Report Date: 10/11/2012

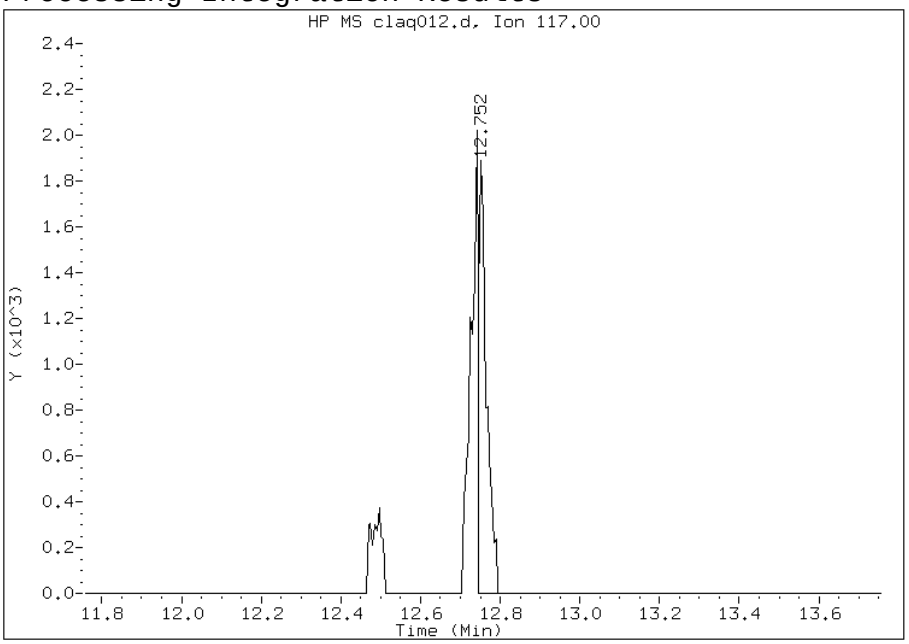
Processing Integration Results

RT: 12.75

Response: 2535

Amount: 0.033570

Conc: 0.506904



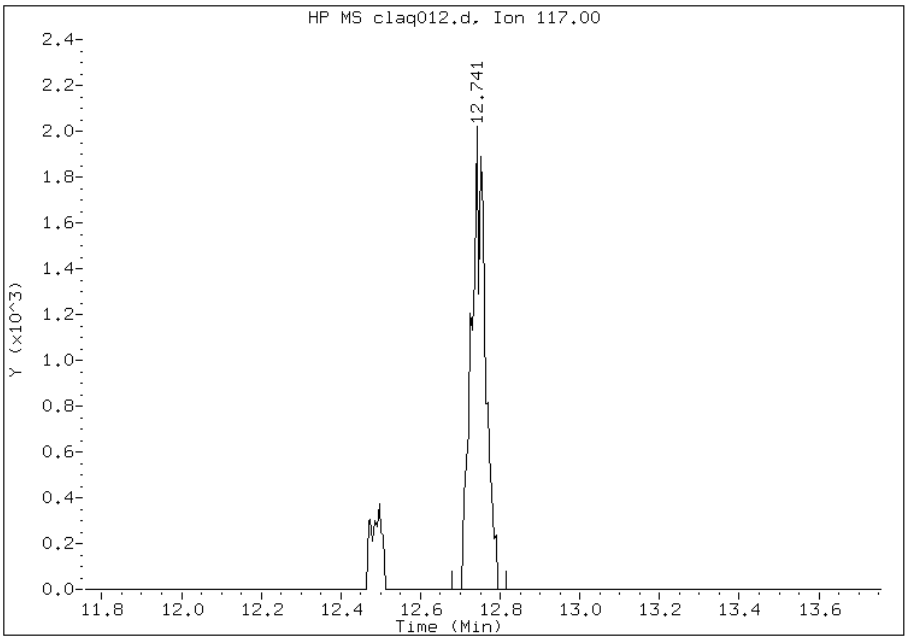
Manual Integration Results

RT: 12.74

Response: 4898

Amount: 0.064862

Conc: 0.979415



File Uploaded By: wrd
Manual Integration Reason: Baseline event

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12991-1 Analy Batch No.: 45233

SDG No.: 200-12991

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2012 13:52 Calibration End Date: 09/19/2012 20:06 Calibration ID: 17700

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-45233/3	cla003.d
Level 2	IC 200-45233/4	cla004.d
Level 3	IC 200-45233/5	cla005.d
Level 4	IC 200-45233/6	cla006.d
Level 5	ICIS 200-45233/7	cla007.d
Level 6	IC 200-45233/8	cla008.d
Level 7	IC 200-45233/9	cla009.d
Level 8	IC 200-45233/10	cla010.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Propylene	+++++ 0.4409	+++++ 0.4330	0.5358 0.4155	0.5066	0.4498	Ave		0.4636				10.1		30.0			
Dichlorodifluoromethane	+++++ 2.5306	+++++ 2.4825	2.6252 2.3962	2.7603	2.4875	Ave		2.5470				5.0		30.0			
Freon 22	+++++ 1.1012	+++++ 1.0787	1.1789 1.0398	1.2345	1.0965	Ave		1.1216				6.4		30.0			
1,2-Dichlorotetrafluoroethane	+++++ 2.5120	2.7741 2.4832	2.5096 2.4249	2.6601	2.4589	Ave		2.5461				4.9		30.0			
Chloromethane	+++++ 0.5287	+++++ 0.5233	0.5863 0.5064	0.5682	0.5331	Ave		0.5410				5.6		30.0			
n-Butane	+++++ 0.9035	+++++ 0.9262	0.8697 0.8987	0.9793	0.9184	Ave		0.9159				4.0		30.0			
1,3-Butadiene	+++++ 0.4964	0.5014 0.5088	0.4605 0.4990	0.5046	0.4799	Ave		0.4930				3.4		30.0			
Vinyl chloride	0.8301 0.7059	0.7308 0.7196	0.6926 0.7065	0.7218	0.6968	Ave		0.7255				6.1		30.0			
Bromomethane	+++++ 0.7922	0.8695 0.7806	0.8166 0.7650	0.8321	0.7246	Ave		0.7972				5.9		30.0			
Chloroethane	+++++ 0.3512	+++++ 0.3584	0.3630 0.3478	0.3661	0.3141	Ave		0.3501				5.4		30.0			
Ethanol	+++++ 0.1719	+++++ 0.1674	0.1625 0.1669	0.1673	0.1333	Ave		0.1615				8.8		30.0			
Isopentane	+++++ 0.6557	0.7151 0.6536	0.6481 0.6429	0.6837	0.5845	Ave		0.6548				6.1		30.0			
Bromoethene(Vinyl Bromide)	+++++ 0.9228	0.9194 0.9233	0.8703 0.9153	0.9536	0.8398	Ave		0.9063				4.2		30.0			
Acrolein	+++++ 0.2194	+++++ 0.2060	+++++ 0.2049	0.2140	0.1970	Ave		0.2083				4.2		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12991-1 Analy Batch No.: 45233

SDG No.: 200-12991

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2012 13:52 Calibration End Date: 09/19/2012 20:06 Calibration ID: 17700

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Trichlorofluoromethane	+++++ 2.6563	2.8117 2.6170	2.6877 2.5634	2.8409	2.5148	Ave		2.6703				4.5		30.0			
n-Pentane	+++++ 1.0544	+++++ 1.0477	1.0246 1.0124	1.1257	0.9551	Ave		1.0366				5.4		30.0			
Isopropyl alcohol	+++++ 0.6249	+++++ 0.6068	+++++ 0.5949	0.6614	0.6980	Ave		0.6372				6.6		30.0			
Ethyl ether	+++++ 0.4931	0.4682 0.4785	0.4724 0.4702	0.5088	0.4832	Ave		0.4821				3.0		30.0			
Freon TF	+++++ 1.8535	1.9589 1.8470	1.8635 1.8072	1.9486	1.7339	Ave		1.8590				4.2		30.0			
tert-Butyl alcohol	+++++ 1.0844	+++++ 1.1019	+++++ 1.0535	1.2174	1.3005	Ave		1.1515				9.0		30.0			
1,1-Dichloroethene	+++++ 0.8717	0.9704 0.8729	0.9009 0.8612	0.9097	0.7992	Ave		0.8837				5.9		30.0			
Acetone	+++++ 0.9056	+++++ 0.8403	+++++ 0.8109	1.1405	1.0570	Ave		0.9509				15.0		30.0			
Carbon disulfide	+++++ 2.2869	+++++ 2.2836	2.2280 2.2339	2.3333	2.1268	Ave		2.2488				3.2		30.0			
3-Chloropropene	+++++ 0.7947	0.8067 0.7739	0.7199 0.7591	0.8449	0.7106	Ave		0.7728				6.2		30.0			
Acetonitrile	+++++ 0.3253	+++++ 0.3059	+++++ 0.2959	0.3469	0.3583	Ave		0.3265				8.1		30.0			
Methylene Chloride	+++++ 0.6788	+++++ 0.6648	0.8112 0.6399	0.7305	0.6322	Ave		0.6929				9.8		30.0			
Methyl tert-butyl ether	+++++ 2.4409	2.6497 2.3543	2.3636 2.2996	2.5475	2.4865	Ave		2.4489				5.0		30.0			
trans-1,2-Dichloroethene	+++++ 1.1424	1.1503 1.1370	1.0937 1.0990	1.2003	1.0795	Ave		1.1289				3.7		30.0			
Acrylonitrile	+++++ 0.4182	+++++ 0.3981	0.4097 0.4005	0.4411	0.4170	Ave		0.4141				3.8		30.0			
Ethyl acetate	+++++ 0.0774	+++++ 0.0777	+++++ 0.0754	0.0833	0.0822	Ave		0.0792				4.3		30.0			
n-Hexane	+++++ 1.1584	1.2313 1.1443	1.1122 1.1134	1.2033	1.0576	Ave		1.1458				5.1		30.0			
n-Butanol	+++++ 0.0459	+++++ 0.0480	+++++ 0.0503	0.0504	0.0496	Ave		0.0489				3.9		30.0			
1,1-Dichloroethane	+++++ 1.4543	1.5678 1.4269	1.4423 1.3830	1.5255	1.3591	Ave		1.4513				5.1		30.0			
Vinyl acetate	+++++ 1.4765	+++++ 1.4015	+++++ 1.3882	1.5400	1.4839	Ave		1.4580				4.3		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12991-1 Analy Batch No.: 45233

SDG No.: 200-12991

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2012 13:52 Calibration End Date: 09/19/2012 20:06 Calibration ID: 17700

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
cis-1,2-Dichloroethene	+++++ 1.0109	1.1411 1.0158	1.0464 0.9905	1.0736	0.9669	Ave		1.0350				5.6		30.0			
Methyl Ethyl Ketone	+++++ 0.3685	+++++ 0.3531	0.4842 0.3481	0.3952	0.3897	Ave		0.3898				12.8		30.0			
Tetrahydrofuran	+++++ 0.1126	+++++ 0.1078	+++++ 0.1060	0.1188	0.1179	Ave		0.1126				5.1		30.0			
Chloroform	+++++ 1.9830	2.1287 1.9658	2.0170 1.9236	2.1155	1.9100	Ave		2.0062				4.3		30.0			
1,1,1-Trichloroethane	+++++ 0.4199	0.4420 0.4169	0.4073 0.4172	0.4482	0.4059	Ave		0.4225				3.9		30.0			
Cyclohexane	+++++ 0.2490	0.2528 0.2471	0.2282 0.2488	0.2532	0.2328	Ave		0.2446				4.1		30.0			
Benzene	+++++ 0.5070	0.5819 0.5071	0.4920 0.5087	0.5235	0.4767	Ave		0.5138				6.5		30.0			
2,2,4-Trimethylpentane	+++++ 0.6782	0.6728 0.6775	0.6374 0.6771	0.6989	0.6359	Ave		0.6682				3.5		30.0			
1,2-Dichloroethane	+++++ 0.2404	0.2515 0.2358	0.2384 0.2330	0.2612	0.2356	Ave		0.2423				4.2		30.0			
n-Heptane	+++++ 0.2194	0.2225 0.2187	0.2232 0.2139	0.2332	0.2101	Ave		0.2201				3.4		30.0			
Carbon tetrachloride	0.4118 0.4434	0.4411 0.4420	0.4148 0.4478	0.4678	0.4297	Ave		0.4373				4.2		30.0			
1,2-Dichloropropane	+++++ 0.1580	0.1646 0.1557	0.1501 0.1533	0.1601	0.1485	Ave		0.1558				3.6		30.0			
Methyl methacrylate	+++++ 0.1503	+++++ 0.1469	0.1102 0.1490	0.1447	0.1538	Ave		0.1425				11.3		30.0			
1,4-Dioxane	+++++ 0.0668	+++++ 0.0658	+++++ 0.0637	0.0674	0.0818	Ave		0.0691				10.5		30.0			
Dibromomethane	+++++ 0.2327	0.2305 0.2320	0.2135 0.2327	0.2430	0.2287	Ave		0.2305				3.8		30.0			
Bromodichloromethane	+++++ 0.4088	0.3689 0.4040	0.3547 0.4036	0.4243	0.3904	Ave		0.3935				6.1		30.0			
cis-1,3-Dichloropropene	+++++ 0.2911	0.2808 0.2866	0.2573 0.2859	0.2932	0.2763	Ave		0.2816				4.3		30.0			
methyl isobutyl ketone	+++++ 0.2182	+++++ 0.2200	0.1889 0.2139	0.2222	0.2216	Ave		0.2141				5.9		30.0			
Trichloroethene	0.2982 0.2548	0.2526 0.2559	0.2493 0.2564	0.2618	0.2414	Ave		0.2588				6.6		30.0			
Toluene	+++++ 0.4476	0.4823 0.4437	0.4626 0.4587	0.4748	0.4363	Ave		0.4580				3.7		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12991-1 Analy Batch No.: 45233

SDG No.: 200-12991

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2012 13:52 Calibration End Date: 09/19/2012 20:06 Calibration ID: 17700

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
n-Octane	+++++ 0.3082	0.3184 0.2994	0.3048 0.2949	0.3291	0.2931	Ave		0.3068				4.3		30.0			
trans-1,3-Dichloropropene	+++++ 0.2998	0.2816 0.2907	0.2751 0.2951	0.3056	0.2924	Ave		0.2915				3.6		30.0			
1,1,2-Trichloroethane	+++++ 0.1890	0.1956 0.1870	0.1857 0.1913	0.2031	0.1842	Ave		0.1909				3.5		30.0			
Tetrachloroethene	+++++ 0.4054	0.4257 0.4100	0.4208 0.4233	0.4454	0.3988	Ave		0.4185				3.7		30.0			
Methyl Butyl Ketone (2-Hexanone)	+++++ 0.2109	+++++ 0.2291	0.1778 0.2273	0.2251	0.2091	Ave		0.2132				9.1		30.0			
Dibromochloromethane	+++++ 0.4695	0.3835 0.4739	0.3737 0.4926	0.4887	0.4498	Ave		0.4474				11.0		30.0			
1,2-Dibromoethane	+++++ 0.4029	0.3550 0.4039	0.3574 0.4154	0.4275	0.3858	Ave		0.3925				7.1		30.0			
Chlorobenzene	+++++ 0.6470	0.6717 0.6447	0.6481 0.6708	0.6911	0.6293	Ave		0.6575				3.2		30.0			
Ethylbenzene	+++++ 0.9185	0.9420 0.9109	0.8767 0.9630	0.9848	0.9176	Ave		0.9305				3.9		30.0			
n-Nonane	+++++ 0.3385	0.3381 0.3346	0.3116 0.3505	0.3692	0.3283	Ave		0.3387				5.3		30.0			
m,p-Xylene	+++++ 0.4025	0.3910 0.3974	0.3730 0.4221	0.4338	0.4038	Ave		0.4034				4.9		30.0			
Xylene, o-	+++++ 0.3896	0.4005 0.3825	0.3770 0.4028	0.4229	0.3894	Ave		0.3949				3.9		30.0			
Styrene	+++++ 0.5919	0.4202 0.5851	0.4277 0.6421	0.5959	0.5752	Ave		0.5483				16.0		30.0			
Bromoform	+++++ 0.4293	0.3266 0.4294	0.3208 0.4497	0.4523	0.4142	Ave		0.4032				13.9		30.0			
Cumene	+++++ 1.1025	1.0925 1.0902	1.0242 1.1641	1.1852	1.0924	Ave		1.1073				4.8		30.0			
1,1,2,2-Tetrachloroethane	+++++ 0.4584	0.4542 0.4554	0.4373 0.4723	0.5013	0.4507	Ave		0.4614				4.4		30.0			
n-Dodecane	+++++ 0.2186	+++++ 0.1554	+++++ 0.2397	0.2339	0.1951	Ave		0.2086				16.5		30.0			
1,2,3-Trichloropropane	+++++ 0.3648	+++++ 0.3566	0.3641 0.3702	0.4040	0.3620	Ave		0.3703				4.6		30.0			
n-Propylbenzene	+++++ 1.2167	1.1264 1.1951	1.0314 1.2869	1.2933	1.1964	Ave		1.1923				7.7		30.0			
4-Ethyltoluene	+++++ 1.1149	0.9422 1.0895	0.9123 1.1688	1.1667	1.0885	Ave		1.0690				9.6		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12991-1 Analy Batch No.: 45233

SDG No.: 200-12991

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2012 13:52 Calibration End Date: 09/19/2012 20:06 Calibration ID: 17700

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
n-Decane	+++++ 0.4123	+++++ 0.3975	0.3306 0.4126	0.4399	0.3999	Ave		0.3988				9.2		30.0			
2-Chlorotoluene	+++++ 0.8860	0.8462 0.8715	0.8092 0.9175	0.9552	0.8659	Ave		0.8788				5.4		30.0			
1,3,5-Trimethylbenzene	+++++ 0.9256	0.8581 0.9055	0.7960 0.9765	0.9814	0.9065	Ave		0.9071				7.2		30.0			
Alpha Methyl Styrene	+++++ 0.4664	0.3002 0.4754	0.2924 0.5194	0.4825	0.4649	Ave		0.4288				21.5		30.0			
tert-Butylbenzene	+++++ 0.9294	0.9219 0.9095	0.8482 0.9803	1.0103	0.9178	Ave		0.9311				5.6		30.0			
1,2,4-Trimethylbenzene	+++++ 0.9080	0.7469 0.8815	0.7487 0.9593	0.9626	0.8895	Ave		0.8709				10.3		30.0			
sec-Butylbenzene	+++++ 1.3060	1.1751 1.2813	1.1292 1.3766	1.4050	1.2869	Ave		1.2800				7.8		30.0			
4-Isopropyltoluene	+++++ 1.1565	0.8833 1.1331	0.8976 1.2277	1.2000	1.1292	Ave		1.0896				12.9		30.0			
1,3-Dichlorobenzene	+++++ 0.6434	0.6016 0.6274	0.5872 0.6802	0.6691	0.6139	Ave		0.6318				5.4		30.0			
1,4-Dichlorobenzene	+++++ 0.6216	0.5938 0.6095	0.5656 0.6645	0.6409	0.5921	Ave		0.6126				5.4		30.0			
Benzyl chloride	+++++ 0.6726	0.4769 0.6652	0.4599 0.7289	0.6428	0.5554	Ave		0.6002				17.3		30.0			
n-Butylbenzene	+++++ 0.8667	0.6353 0.8335	0.5821 0.9123	0.8514	0.8327	Ave		0.7877				16.0		30.0			
n-Undecane	+++++ 0.3655	+++++ 0.3242	+++++ 0.3824	0.3370	0.3470	Ave		0.3512				6.6		30.0			
1,2-Dichlorobenzene	+++++ 0.5962	0.5540 0.5834	0.5168 0.6281	0.6173	0.5794	Ave		0.5822				6.5		30.0			
1,2,4-Trichlorobenzene	+++++ 0.2608	+++++ 0.2712	0.2090 0.2901	0.2718	0.2370	Ave		0.2567				11.3		30.0			
Hexachlorobutadiene	+++++ 0.2899	0.2757 0.2825	0.2428 0.2877	0.2995	0.2777	Ave		0.2794				6.5		30.0			
Naphthalene	+++++ 0.6060	+++++ 0.5936	0.3283 0.6982	0.6030	0.5482	Ave		0.5629				22.2		30.0			
1,2,3-Trichlorobenzene	+++++ 0.2132	0.2130 0.2217	0.1632 0.2291	0.2261	0.1936	Ave		0.2086				11.1		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12991-1 Analy Batch No.: 45233

SDG No.: 200-12991

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2012 13:52 Calibration End Date: 09/19/2012 20:06 Calibration ID: 17700

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-45233/3	cla003.d
Level 2	IC 200-45233/4	cla004.d
Level 3	IC 200-45233/5	cla005.d
Level 4	IC 200-45233/6	cla006.d
Level 5	ICIS 200-45233/7	cla007.d
Level 6	IC 200-45233/8	cla008.d
Level 7	IC 200-45233/9	cla009.d
Level 8	IC 200-45233/10	cla010.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	+++++ 240709	+++++ 322487	8837 641267	80957	157106	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Dichlorodifluoromethane	BCM	Ave	+++++ 1381719	+++++ 1848798	43299 3697858	441101	868779	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Freon 22	BCM	Ave	+++++ 601239	+++++ 803345	19445 1604598	197279	382965	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
1,2-Dichlorotetrafluoroethane	BCM	Ave	+++++ 1371532	18046 1849373	41393 3742168	425080	858791	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chloromethane	BCM	Ave	+++++ 288654	+++++ 389708	9671 781560	90795	186197	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
n-Butane	BCM	Ave	+++++ 493310	+++++ 689807	14344 1386830	156486	320751	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
1,3-Butadiene	BCM	Ave	+++++ 271031	3262 378959	7596 770069	80634	167613	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Vinyl chloride	BCM	Ave	1122 385411	4754 535916	11424 1090220	115338	243353	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromomethane	BCM	Ave	+++++ 432538	5656 581314	13469 1180608	132972	253066	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chloroethane	BCM	Ave	+++++ 191726	+++++ 266922	5988 536749	58499	109713	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Ethanol	BCM	Ave	+++++ 125129	+++++ 249380	26798 644074	53469	69822	+++++ 20.0	+++++ 40.0	5.00 100	10.0	15.0
Isopentane	BCM	Ave	+++++ 358035	4652 486760	10690 992114	109259	204131	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromoethene(Vinyl Bromide)	BCM	Ave	+++++ 503828	5981 687589	14355 1412470	152380	293320	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acrolein	BCM	Ave	+++++ 119764	+++++ 153406	+++++ 316258	34200	68808	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
Trichlorofluoromethane	BCM	Ave	+++++ 1450350	18291 1948983	44330 3955951	453971	878306	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12991-1 Analy Batch No.: 45233

SDG No.: 200-12991

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2012 13:52 Calibration End Date: 09/19/2012 20:06 Calibration ID: 17700

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
n-Pentane	BCM	Ave	+++++ 575686	+++++ 780237	16900 1562391	179880	333573	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Isopropyl alcohol	BCM	Ave	+++++ 341205	+++++ 451943	+++++ 918012	105692	243791	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
Ethyl ether	BCM	Ave	+++++ 269248	3046 356331	7792 725646	81299	168757	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Freon TF	BCM	Ave	+++++ 1012000	12743 1375528	30737 2788917	311395	605584	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
tert-Butyl alcohol	BCM	Ave	+++++ 592060	+++++ 820654	+++++ 1625761	194546	454215	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
1,1-Dichloroethene	BCM	Ave	+++++ 475934	6313 650100	14859 1328987	145370	279113	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acetone	BCM	Ave	+++++ 494441	+++++ 625823	+++++ 1251382	182249	369183	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
Carbon disulfide	BCM	Ave	+++++ 1248619	+++++ 1700721	36748 3447482	372869	742817	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
3-Chloropropene	BCM	Ave	+++++ 433878	5248 576360	11874 1171543	135023	248174	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acetonitrile	BCM	Ave	+++++ 177606	+++++ 227839	+++++ 456642	55434	125129	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
Methylene Chloride	BCM	Ave	+++++ 370626	+++++ 495108	13380 987568	116737	220800	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Methyl tert-butyl ether	BCM	Ave	+++++ 1332718	17237 1753371	38984 3548859	407092	868422	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
trans-1,2-Dichloroethene	BCM	Ave	+++++ 623725	7483 846787	18040 1696084	191805	377022	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acrylonitrile	BCM	Ave	+++++ 228311	+++++ 296511	6757 618100	70482	145649	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Ethyl acetate	BCM	Ave	+++++ 42274	+++++ 57869	+++++ 116417	13312	28713	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
n-Hexane	BCM	Ave	+++++ 632476	8010 852243	18345 1718252	192287	369387	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Butanol	DFB	Ave	+++++ 138515	+++++ 197440	+++++ 418058	45071	95587	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
1,1-Dichloroethane	BCM	Ave	+++++ 794063	10199 1062707	23789 2134273	243776	474670	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Vinyl acetate	BCM	Ave	+++++ 806141	+++++ 1043754	+++++ 2142365	246093	518257	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
cis-1,2-Dichloroethene	BCM	Ave	+++++ 551934	7423 756494	17259 1528553	171560	337689	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl Ethyl Ketone	BCM	Ave	+++++ 201183	+++++ 262980	7986 537176	63160	136115	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12991-1 Analy Batch No.: 45233

SDG No.: 200-12991

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2012 13:52 Calibration End Date: 09/19/2012 20:06 Calibration ID: 17700

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrahydrofuran	DFB	Ave	+++++ 339410	+++++ 443042	+++++ 880793	106277	227090	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
Chloroform	BCM	Ave	+++++ 1082691	13848 1464006	33268 2968545	338052	667098	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,1-Trichloroethane	DFB	Ave	+++++ 1266025	16227 1713778	38012 3466033	400798	781984	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Cyclohexane	DFB	Ave	+++++ 750617	9281 1015614	21299 2067088	226422	448582	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Benzene	DFB	Ave	+++++ 1528525	21363 2084437	45909 4225948	468143	918448	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
2,2,4-Trimethylpentane	DFB	Ave	+++++ 2044663	24698 2784868	59479 5625336	624992	1225212	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dichloroethane	DFB	Ave	+++++ 724886	9231 969322	22244 1935754	233567	453881	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Heptane	DFB	Ave	+++++ 661406	8168 898896	20832 1777359	208571	404737	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Carbon tetrachloride	DFB	Ave	3187 1336819	16193 1816943	38712 3720266	418317	827814	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dichloropropane	DFB	Ave	+++++ 476419	6043 639992	14011 1273248	143172	286122	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl methacrylate	DFB	Ave	+++++ 453064	+++++ 603767	10285 1237573	129389	296247	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
1,4-Dioxane	DFB	Ave	+++++ 201471	+++++ 270493	+++++ 528949	60313	157530	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
Dibromomethane	DFB	Ave	+++++ 701622	8463 953828	19927 1933404	217335	440613	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromodichloromethane	DFB	Ave	+++++ 1232475	13542 1660565	33104 3353191	379435	752163	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
cis-1,3-Dichloropropene	DFB	Ave	+++++ 877661	10310 1178210	24012 2375427	262228	532422	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
methyl isobutyl ketone	DFB	Ave	+++++ 658002	+++++ 904495	17624 1777191	198717	426918	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Trichloroethene	DFB	Ave	2308 768229	9272 1052034	23265 2130487	234147	465174	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Toluene	CBZ	Ave	+++++ 1274946	16240 1693003	39566 3435067	387138	789338	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Octane	DFB	Ave	+++++ 929163	11690 1230630	28442 2450155	294270	564669	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
trans-1,3-Dichloropropene	DFB	Ave	+++++ 903933	10337 1194928	25670 2451562	273327	563422	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,2-Trichloroethane	CBZ	Ave	+++++ 538446	6587 713423	15886 1432755	165602	333217	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12991-1 Analy Batch No.: 45233

SDG No.: 200-12991

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2012 13:52 Calibration End Date: 09/19/2012 20:06 Calibration ID: 17700

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrachloroethene	CBZ	Ave	+++++ 1154912	14334 1564542	35991 3169841	363104	721525	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl Butyl Ketone (2-Hexanone)	CBZ	Ave	+++++ 600613	+++++ 874173	15209 1702199	183490	378237	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Dibromochloromethane	CBZ	Ave	+++++ 1337492	12913 1808049	31962 3689260	398458	813767	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dibromoethane	CBZ	Ave	+++++ 1147671	11953 1541004	30565 3110623	348564	697948	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chlorobenzene	CBZ	Ave	+++++ 1842917	22618 2460032	55432 5023890	563455	1138497	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Ethylbenzene	CBZ	Ave	+++++ 2616312	31722 3475459	74981 7212048	802895	1660081	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Nonane	CBZ	Ave	+++++ 964240	11384 1276870	26650 2624795	301015	594028	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
m,p-Xylene	CBZ	Ave	+++++ 2293077	26334 3032623	63811 6322862	707383	1461033	+++++ 30.0	0.400 40.0	1.00 80.0	10.0	20.0
Xylene, o-	CBZ	Ave	+++++ 1109665	13486 1459383	32243 3016289	344801	704503	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Styrene	CBZ	Ave	+++++ 1686157	14151 2232443	36580 4808739	485824	1040651	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromoform	CBZ	Ave	+++++ 1222980	10997 1638280	27441 3367536	368758	749290	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Cumene	CBZ	Ave	+++++ 3140417	36790 4159880	87602 8717952	966280	1976280	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,2,2-Tetrachloroethane	CBZ	Ave	+++++ 1305621	15296 1737445	37405 3536720	408695	815378	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Dodecane	CBZ	Ave	+++++ 622793	+++++ 592763	+++++ 1795265	190705	353028	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
1,2,3-Trichloropropane	CBZ	Ave	+++++ 1039035	+++++ 1360645	31144 2772107	329383	654907	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
n-Propylbenzene	CBZ	Ave	+++++ 3465692	37932 4559882	88213 9637520	1054426	2164447	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
4-Ethyltoluene	CBZ	Ave	+++++ 3175846	31729 4157221	78026 8753328	951211	1969378	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Decane	CBZ	Ave	+++++ 1174586	+++++ 1516571	28273 3089654	358609	723449	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
2-Chlorotoluene	CBZ	Ave	+++++ 2523779	28494 3325250	69212 6871216	778788	1566514	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,3,5-Trimethylbenzene	CBZ	Ave	+++++ 2636629	28895 3455134	68080 7313305	800104	1639965	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Alpha Methyl Styrene	CBZ	Ave	+++++ 1328653	10110 1813856	25005 3889527	393412	841168	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12991-1 Analy Batch No.: 45233

SDG No.: 200-12991

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2012 13:52 Calibration End Date: 09/19/2012 20:06 Calibration ID: 17700

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
tert-Butylbenzene	CBZ	Ave	+++++ 2647394	31044 3470227	72547 7341232	823704	1660548	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2,4-Trimethylbenzene	CBZ	Ave	+++++ 2586587	25152 3363539	64034 7183813	784770	1609305	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
sec-Butylbenzene	CBZ	Ave	+++++ 3720224	39570 4889052	96580 10309213	1145456	2328248	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
4-Isopropyltoluene	CBZ	Ave	+++++ 3294258	29745 4323424	76769 9194227	978337	2042978	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,3-Dichlorobenzene	CBZ	Ave	+++++ 1832636	20260 2394037	50220 5093670	545551	1110701	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,4-Dichlorobenzene	CBZ	Ave	+++++ 1770622	19995 2325511	48379 4976418	522555	1071176	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Benzyl chloride	CBZ	Ave	+++++ 1915856	16058 2538026	39333 5458657	524099	1004875	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Butylbenzene	CBZ	Ave	+++++ 2468766	21392 3180248	49783 6831951	694138	1506445	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Undecane	CBZ	Ave	+++++ 1041274	+++++ 1237015	+++++ 2864108	274743	627815	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
1,2-Dichlorobenzene	CBZ	Ave	+++++ 1698166	18655 2226004	44201 4703654	503309	1048239	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2,4-Trichlorobenzene	CBZ	Ave	+++++ 743029	+++++ 1034945	17878 2172499	221562	428796	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Hexachlorobutadiene	CBZ	Ave	+++++ 825770	9283 1077978	20765 2154342	244148	502338	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Naphthalene	CBZ	Ave	+++++ 1726305	+++++ 2265061	28081 5229031	491591	991714	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
1,2,3-Trichlorobenzene	CBZ	Ave	+++++ 607391	7173 845782	13961 1715485	184354	350174	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/clato15.b/cla003.d
Lab Smp Id: ic 376701
Inj Date : 19-SEP-2012 13:52
Operator : wrd Inst ID: C.i
Smp Info : ic 376701
Misc Info : 40,1,lvl 8
Comment :
Method : /chem/C.i/Csvr.p/clato15.b/to15v5.m
Meth Date : 20-Sep-2012 12:16 wrd Quant Type: ISTD
Cal Date : 19-SEP-2012 13:52 Cal File: cla003.d
Als bottle: 2 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	40.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
1 Propene	41	Compound Not Detected.					
2 Dichlorodifluoromethane	85	Compound Not Detected.					
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	Compound Not Detected.					
6 Butane	43	Compound Not Detected.					
7 Vinyl chloride	62	5.120	5.115	(0.424)	1122	0.04000	0.046(aQM)
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
11 2-Methylbutane	43	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Pentane	43	Compound Not Detected.					

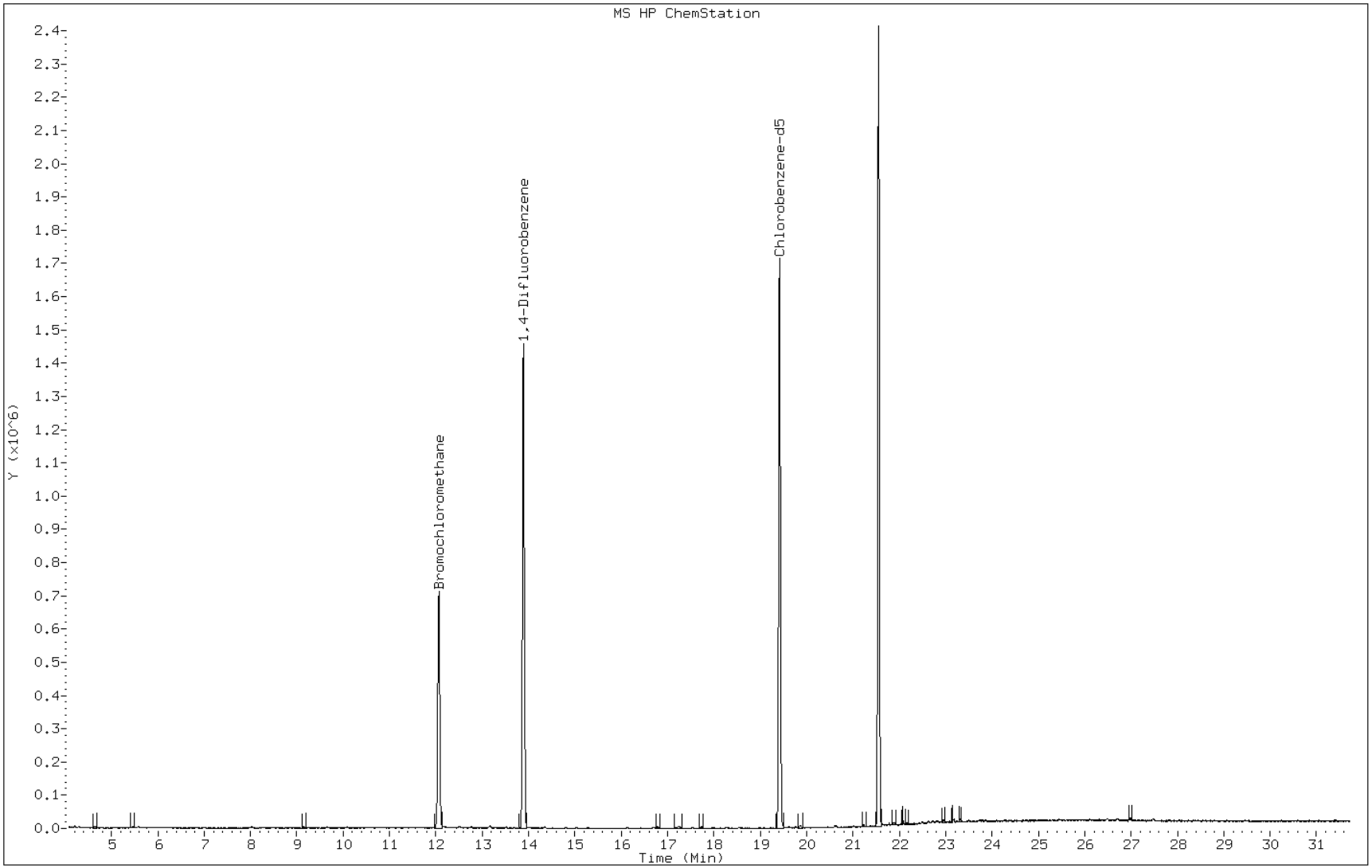
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	Compound Not Detected.					
	16 Ethyl ether	59	Compound Not Detected.					
	17 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
	18 Acrolein	56	Compound Not Detected.					
	19 1,1-Dichloroethene	96	Compound Not Detected.					
	20 Acetone	43	Compound Not Detected.					
	21 Carbon disulfide	76	Compound Not Detected.					
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	24 Acetonitrile	41	Compound Not Detected.					
	25 Methylene chloride	49	Compound Not Detected.					
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	29 Acrylonitrile	53	Compound Not Detected.					
	30 n-Hexane	57	Compound Not Detected.					
	31 1,1-Dichloroethane	63	Compound Not Detected.					
	32 Vinyl acetate	43	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.					
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.					
	35 Ethyl acetate	88	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	Compound Not Detected.					
*	37 Bromochloromethane	128	12.064	12.069	(1.000)	337913	10.0000	
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	Compound Not Detected.					
	40 Cyclohexane	84	Compound Not Detected.					
	41 1,1,1-Trichloroethane	97	Compound Not Detected.					
	42 Carbon tetrachloride	117	12.758	12.758	(0.919)	3187	0.04000	0.038(aQ)
	43 2,2,4-Trimethylpentane	57	Compound Not Detected.					
	44 Benzene	78	Compound Not Detected.					
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	13.889	13.894	(1.000)	1934657	10.0000	
	48 n-Butanol	56	Compound Not Detected.					
	49 Trichloroethene	95	14.343	14.348	(1.033)	2308	0.04000	0.046(a)
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	52 Dibromomethane	174	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	Compound Not Detected.					
	57 n-Octane	43	Compound Not Detected.					
	58 Toluene	92	Compound Not Detected.					
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	19.413	19.418	(1.000)	1777789	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	67 n-Nonane	57	Compound Not Detected.					
	68 Ethylbenzene	91	Compound Not Detected.					
	69 Xylene (m,p)	106	Compound Not Detected.					
M	70 Xylenes, Total	106	Compound Not Detected.					
	71 Xylene (o)	106	Compound Not Detected.					
	72 Styrene	104	Compound Not Detected.					
	73 Bromoform	173	Compound Not Detected.					
	74 Isopropylbenzene	105	Compound Not Detected.					
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	76 n-Propylbenzene	91	Compound Not Detected.					
	77 1,2,3-Trichloropropane	75	Compound Not Detected.					
	78 n-Decane	57	Compound Not Detected.					
	79 4-Ethyltoluene	105	Compound Not Detected.					
	80 2-Chlorotoluene	91	Compound Not Detected.					
	81 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	82 Alpha Methyl Styrene	118	Compound Not Detected.					
	83 tert-butylbenzene	119	Compound Not Detected.					
	84 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	85 sec-Butylbenzene	105	Compound Not Detected.					
	86 4-Isopropyltoluene	119	Compound Not Detected.					
	87 1,3-Dichlorobenzene	146	Compound Not Detected.					
	88 1,4-Dichlorobenzene	146	Compound Not Detected.					
	89 Benzyl chloride	91	Compound Not Detected.					
	90 Undecane	57	Compound Not Detected.					
	91 n-Butylbenzene	91	Compound Not Detected.					
	92 1,2-Dichlorobenzene	146	Compound Not Detected.					
	93 Dodecane	57	Compound Not Detected.					
	94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
	96 Naphthalene	128	Compound Not Detected.					
	97 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File:	cla003.d	Date:	19-SEP-2012 13:52
Client ID:		Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 376701		
Lab Sample ID:	ic 376701		



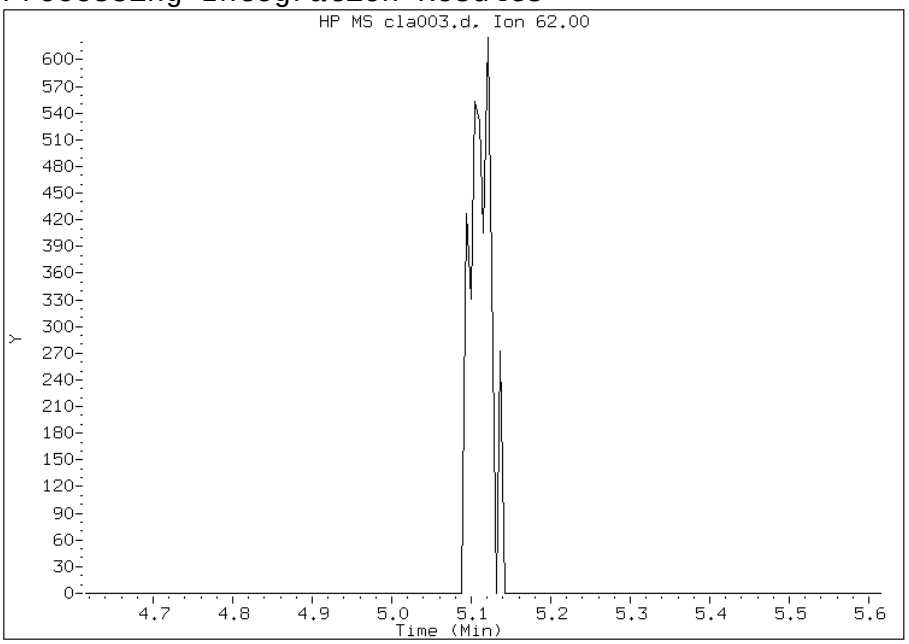
Manual Integration Report

Data File: cla003.d
Lab Sample ID: ic 376701
Inj. Date and Time: 19-SEP-2012 13:52
Instrument ID: C.i
Client ID:
Compound: 7 Vinyl chloride
CAS #: 75-01-4
Report Date: 09/21/2012

Processing Integration Results

Not Detected

Expected RT: 5.12



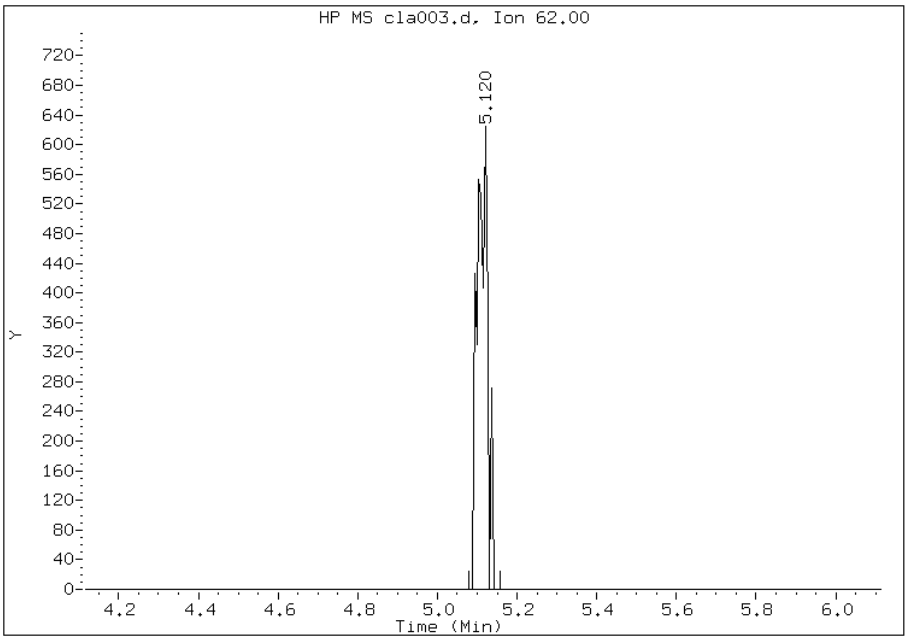
Manual Integration Results

RT: 5.12

Response: 1122

Amount: 0.045591

Conc: 0.045591



File Uploaded By: wrd
Manual Integration Reason: Peak not found by the data system

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/clato15.b/cla004.d
Lab Smp Id: ic 376701
Inj Date : 19-SEP-2012 14:45
Operator : wrd Inst ID: C.i
Smp Info : ic 376701
Misc Info : 200,1,lvl 1
Comment :
Method : /chem/C.i/Csvr.p/clato15.b/to15v5.m
Meth Date : 20-Sep-2012 12:16 wrd Quant Type: ISTD
Cal Date : 19-SEP-2012 14:45 Cal File: cla004.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
1 Propene	41	4.208	4.208	(0.349)	4595	0.20000	0.30(a)
2 Dichlorodifluoromethane	85	4.299	4.304	(0.356)	18407	0.20000	0.22(a)
3 Chlorodifluoromethane	51	4.352	4.363	(0.361)	8276	0.20000	0.23(a)
4 1,2-Dichloro-1,1,2,2-tetraflu	85	4.640	4.651	(0.385)	18046	0.20000	0.22
5 Chloromethane	50	4.811	4.811	(0.399)	4604	0.20000	0.26(a)
6 Butane	43	5.067	5.078	(0.420)	6269	0.20000	0.21(a)
7 Vinyl chloride	62	5.104	5.115	(0.423)	4754	0.20000	0.20
8 1,3-Butadiene	54	5.201	5.216	(0.431)	3262	0.20000	0.20
9 Bromomethane	94	6.001	5.990	(0.498)	5656	0.20000	0.22
10 Chloroethane	64	6.268	6.268	(0.520)	2469	0.20000	0.22(a)
11 2-Methylbutane	43	6.385	6.380	(0.530)	4652	0.20000	0.22
12 Vinyl bromide	106	6.706	6.711	(0.556)	5981	0.20000	0.20
13 Trichlorofluoromethane	101	6.839	6.844	(0.567)	18291	0.20000	0.21
14 Pentane	43	7.004	7.010	(0.581)	7492	0.20000	0.22(a)
15 Ethanol	45	Compound Not Detected.					

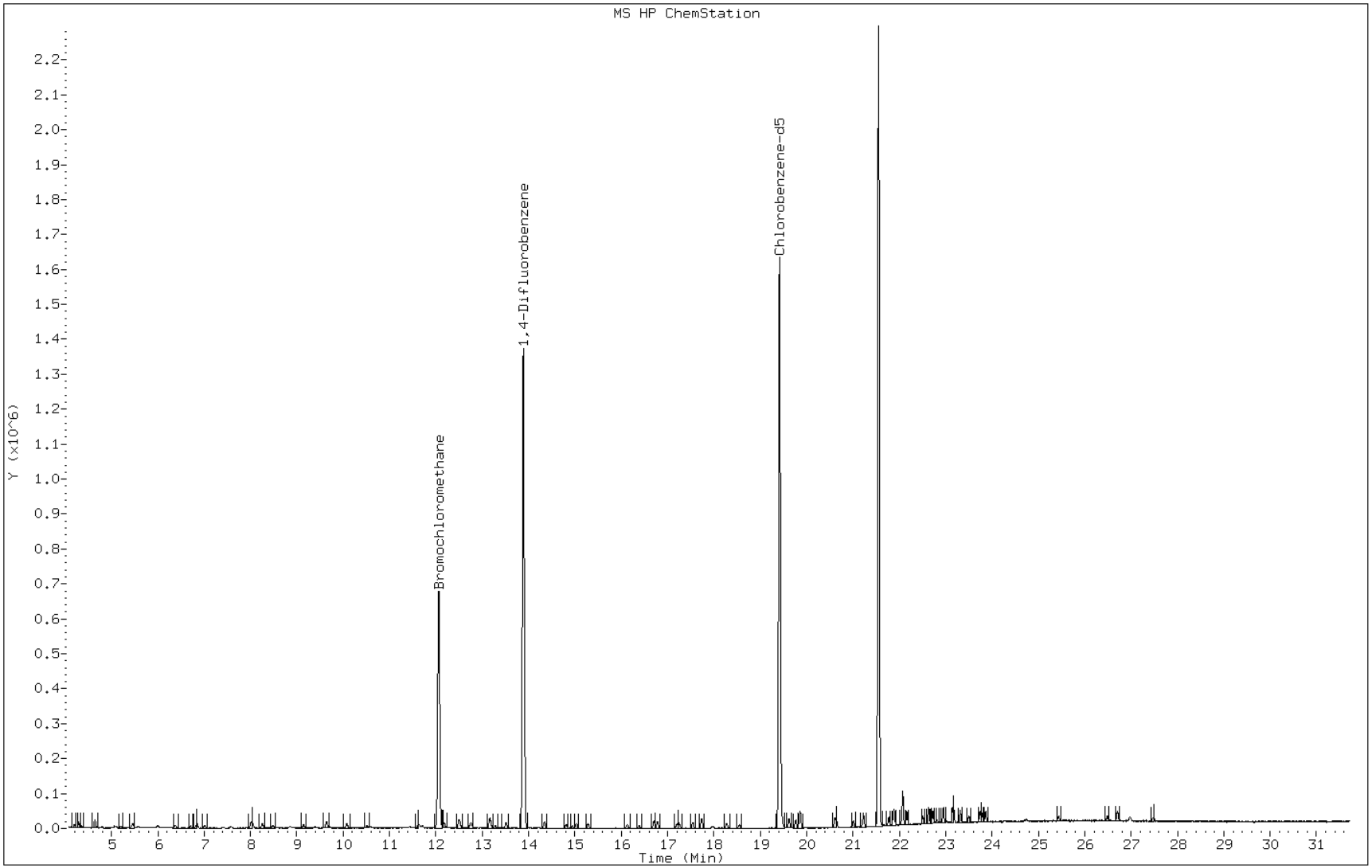
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	16 Ethyl ether	59	7.581	7.565	(0.629)	3046	0.20000	0.20(Q)
	17 1,1,2-Trichloro-1,2,2-trifluo	101	8.008	8.018	(0.664)	12743	0.20000	0.21
	18 Acrolein	56	Compound Not Detected.					
	19 1,1-Dichloroethene	96	8.040	8.050	(0.667)	6313	0.20000	0.22(Q)
	20 Acetone	43	8.259	8.248	(0.685)	23620	0.20000	0.75(a)
	21 Carbon disulfide	76	8.483	8.488	(0.703)	15636	0.20000	0.21(a)
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	8.846	8.862	(0.734)	5248	0.20000	0.21(aM)
	24 Acetonitrile	41	8.926	8.915	(0.740)	2838	0.20000	0.27(aQ)
	25 Methylene chloride	49	9.150	9.150	(0.759)	7206	0.20000	0.38(a)
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	9.641	9.619	(0.800)	17237	0.20000	0.22
	28 1,2-Dichloroethene (trans)	61	9.646	9.641	(0.800)	7483	0.20000	0.20(M)
	29 Acrylonitrile	53	9.716	9.715	(0.806)	2455	0.20000	0.18(a)
	30 n-Hexane	57	10.073	10.084	(0.835)	8010	0.20000	0.22
	31 1,1-Dichloroethane	63	10.521	10.521	(0.873)	10199	0.20000	0.22
	32 Vinyl acetate	43	10.585	10.580	(0.878)	8727	0.20000	0.18(a)
M	33 1,2-Dichloroethene,Total	61				14906	0.40000	0.42
	34 1,2-Dichloroethene (cis)	96	11.626	11.621	(0.964)	7423	0.20000	0.22
	35 Ethyl acetate	88	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	11.648	11.642	(0.966)	3305	0.20000	0.26(aQ)
*	37 Bromochloromethane	128	12.058	12.069	(1.000)	325263	10.0000	
	38 Tetrahydrofuran	42	12.139	12.117	(0.874)	4448	0.20000	0.22(a)
	39 Chloroform	83	12.176	12.186	(1.010)	13848	0.20000	0.21
	40 Cyclohexane	84	12.517	12.523	(0.901)	9281	0.20000	0.21(Q)
	41 1,1,1-Trichloroethane	97	12.496	12.501	(0.900)	16227	0.20000	0.21
	42 Carbon tetrachloride	117	12.758	12.758	(0.919)	16193	0.20000	0.20
	43 2,2,4-Trimethylpentane	57	13.174	13.174	(0.948)	24698	0.20000	0.20
	44 Benzene	78	13.158	13.163	(0.947)	21363	0.20000	0.23
	45 1,2-Dichloroethane	62	13.281	13.286	(0.956)	9231	0.20000	0.21
	46 n-Heptane	43	13.521	13.515	(0.973)	8168	0.20000	0.20
*	47 1,4-Difluorobenzene	114	13.889	13.894	(1.000)	1835512	10.0000	
	48 n-Butanol	56	Compound Not Detected.					
	49 Trichloroethene	95	14.348	14.348	(1.033)	9272	0.20000	0.19(a)
	50 1,2-Dichloropropane	63	14.802	14.812	(1.066)	6043	0.20000	0.21
	51 Methyl methacrylate	69	14.956	14.946	(1.077)	4241	0.20000	0.16(a)
	52 Dibromomethane	174	15.031	15.036	(1.082)	8463	0.20000	0.20(Q)
	53 1,4-Dioxane	88	15.026	15.020	(1.082)	2420	0.20000	0.19(a)
	54 Bromodichloromethane	83	15.282	15.293	(1.100)	13542	0.20000	0.19(a)
	55 1,3-Dichloropropene (cis)	75	16.125	16.136	(1.161)	10310	0.20000	0.20
	56 Methyl isobutyl ketone	43	16.376	16.381	(1.179)	7522	0.20000	0.19(a)
	57 n-Octane	43	16.782	16.782	(1.208)	11690	0.20000	0.21(a)
	58 Toluene	92	16.702	16.707	(0.860)	16240	0.20000	0.21
	59 1,3-Dichloropropene (trans)	75	17.198	17.203	(1.238)	10337	0.20000	0.19(a)
	60 1,1,2-Trichloroethane	83	17.539	17.550	(0.904)	6587	0.20000	0.20
	61 Tetrachloroethene	166	17.732	17.737	(0.913)	14334	0.20000	0.20
	62 2-Hexanone	43	17.966	17.966	(0.925)	6255	0.20000	0.17(aQ)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	63 Dibromochloromethane	129	18.276	18.287	(0.941)	12913	0.20000	0.17(a)
	64 1,2-Dibromoethane	107	18.548	18.553	(0.955)	11953	0.20000	0.18(a)
*	65 Chlorobenzene-d5	117	19.413	19.418	(1.000)	1683728	10.0000	
	66 Chlorobenzene	112	19.471	19.477	(1.003)	22618	0.20000	0.20
	67 n-Nonane	57	19.754	19.765	(1.018)	11384	0.20000	0.20(M)
	68 Ethylbenzene	91	19.626	19.626	(1.011)	31722	0.20000	0.20
	69 Xylene (m,p)	106	19.856	19.861	(1.023)	26334	0.40000	0.39(a)
M	70 Xylenes, Total	106				39820	0.20000	0.62
	71 Xylene (o)	106	20.608	20.619	(1.062)	13486	0.20000	0.24
	72 Styrene	104	20.651	20.651	(1.064)	14151	0.20000	0.18(a)
	73 Bromoform	173	21.008	21.014	(1.082)	10997	0.20000	0.16(a)
	74 Isopropylbenzene	105	21.222	21.227	(1.093)	36790	0.20000	0.20
	75 1,1,2,2-Tetrachloroethane	83	21.772	21.772	(1.121)	15296	0.20000	0.20
	76 n-Propylbenzene	91	21.889	21.889	(1.128)	37932	0.20000	0.19(a)
	77 1,2,3-Trichloropropane	75	21.873	21.873	(1.127)	13907	0.20000	0.22(a)
	78 n-Decane	57	22.070	22.070	(1.137)	12210	0.20000	0.18(a)
	79 4-Ethyltoluene	105	22.065	22.070	(1.137)	31729	0.20000	0.18(a)
	80 2-Chlorotoluene	91	22.076	22.076	(1.137)	28494	0.20000	0.19(a)
	81 1,3,5-Trimethylbenzene	105	22.167	22.166	(1.142)	28895	0.20000	0.19(a)
	82 Alpha Methyl Styrene	118	22.513	22.508	(1.160)	10110	0.20000	0.14(a)
	83 tert-butylbenzene	119	22.636	22.636	(1.166)	31044	0.20000	0.20
	84 1,2,4-Trimethylbenzene	105	22.722	22.722	(1.170)	25152	0.20000	0.17(a)
	85 sec-Butylbenzene	105	22.946	22.951	(1.182)	39570	0.20000	0.18(a)
	86 4-Isopropyltoluene	119	23.149	23.148	(1.192)	29745	0.20000	0.16(a)
	87 1,3-Dichlorobenzene	146	23.181	23.180	(1.194)	20260	0.20000	0.19(a)
	88 1,4-Dichlorobenzene	146	23.314	23.314	(1.201)	19995	0.20000	0.19(a)
	89 Benzyl chloride	91	23.495	23.495	(1.210)	16058	0.20000	0.16(a)
	90 Undecane	57	23.784	23.784	(1.225)	9338	0.20000	0.16(a)
	91 n-Butylbenzene	91	23.741	23.741	(1.223)	21392	0.20000	0.16(a)
	92 1,2-Dichlorobenzene	146	23.864	23.864	(1.229)	18655	0.20000	0.19(a)
	93 Dodecane	57	Compound Not Detected.					
	94 1,2,4-Trichlorobenzene	180	26.484	26.484	(1.364)	8632	0.20000	0.24(a)
	95 1,3-Hexachlorobutadiene	225	26.703	26.703	(1.376)	9283	0.20000	0.20(Q)
	96 Naphthalene	128	26.986	26.975	(1.390)	17863	0.20000	0.19(a)
	97 1,2,3-Trichlorobenzene	180	27.487	27.482	(1.416)	7173	0.20000	0.21

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File:	cla004.d	Date:	19-SEP-2012 14:45
Client ID:		Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 376701		
Lab Sample ID:	ic 376701		



Manual Integration Report

Data File: cla004.d
Lab Sample ID: ic 376701
Inj. Date and Time: 19-SEP-2012 14:45
Instrument ID: C.i
Client ID:
Compound: 23 Allyl chloride
CAS #: 107-05-1
Report Date: 09/21/2012

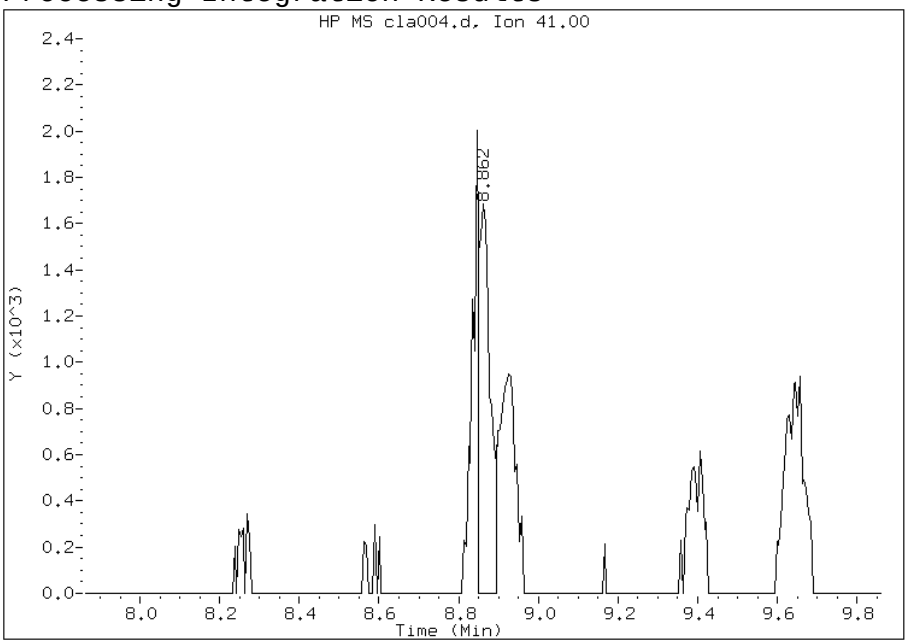
Processing Integration Results

RT: 8.86

Response: 3329

Amount: 0.117813

Conc: 0.117813



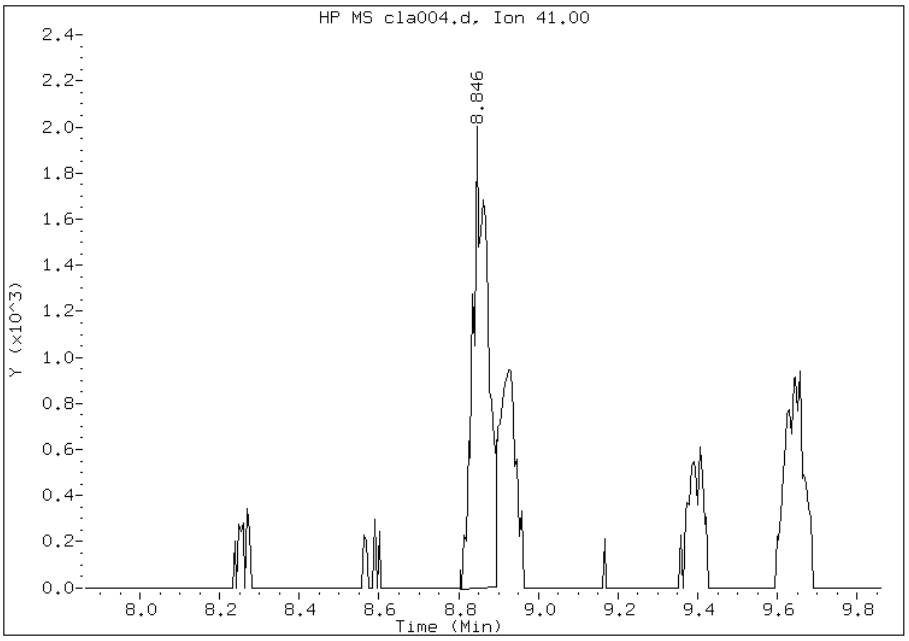
Manual Integration Results

RT: 8.85

Response: 5248

Amount: 0.209758

Conc: 0.209758



File Uploaded By: wrd
Manual Integration Reason: Baseline event

Manual Integration Report

Data File: cla004.d
Lab Sample ID: ic 376701
Inj. Date and Time: 19-SEP-2012 14:45
Instrument ID: C.i
Client ID:
Compound: 28 1,2-Dichloroethene (trans)
CAS #: 156-60-5
Report Date: 09/21/2012

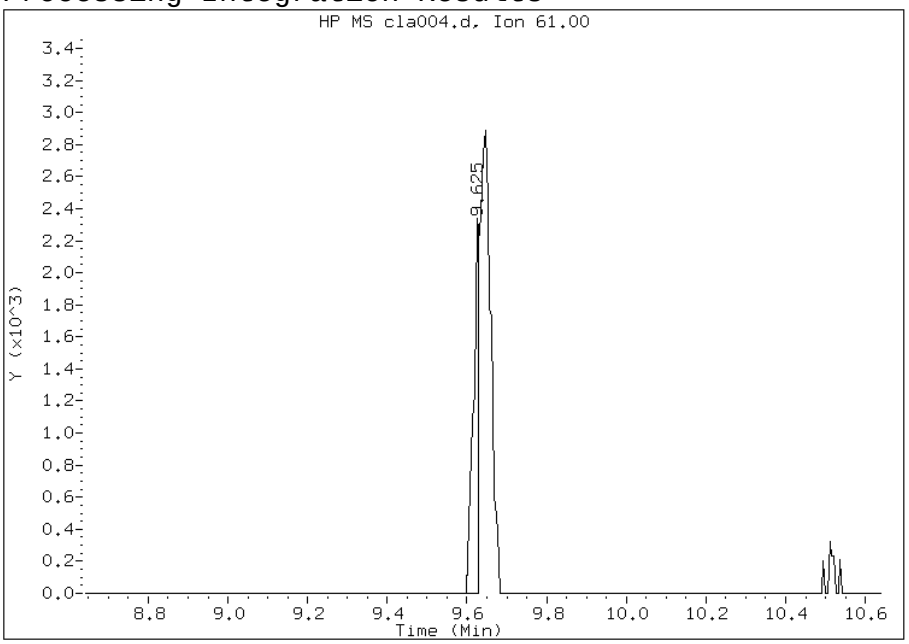
Processing Integration Results

RT: 9.62

Response: 2546

Amount: 0.078193

Conc: 0.078193



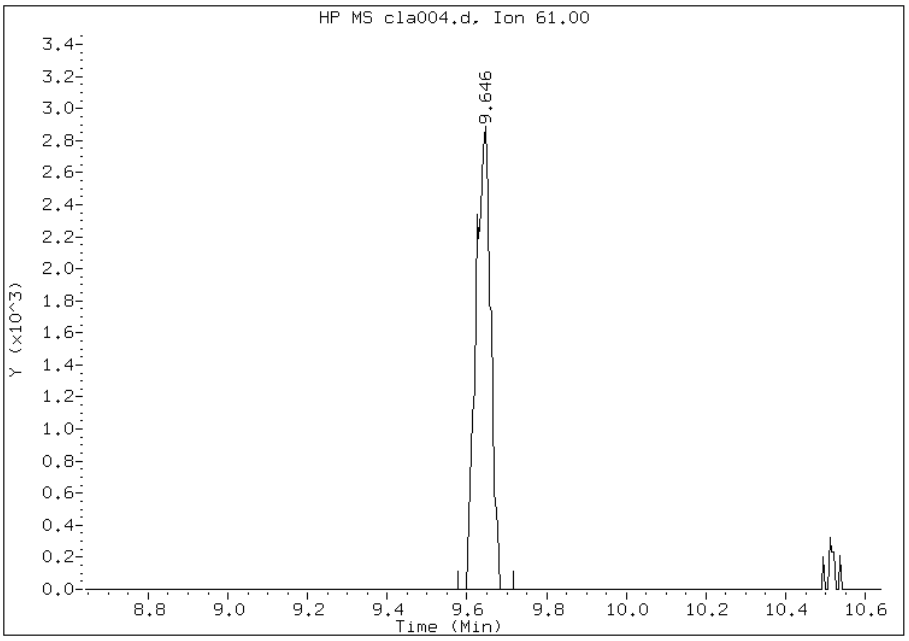
Manual Integration Results

RT: 9.65

Response: 7483

Amount: 0.204199

Conc: 0.204199



File Uploaded By: wrd
Manual Integration Reason: Baseline event

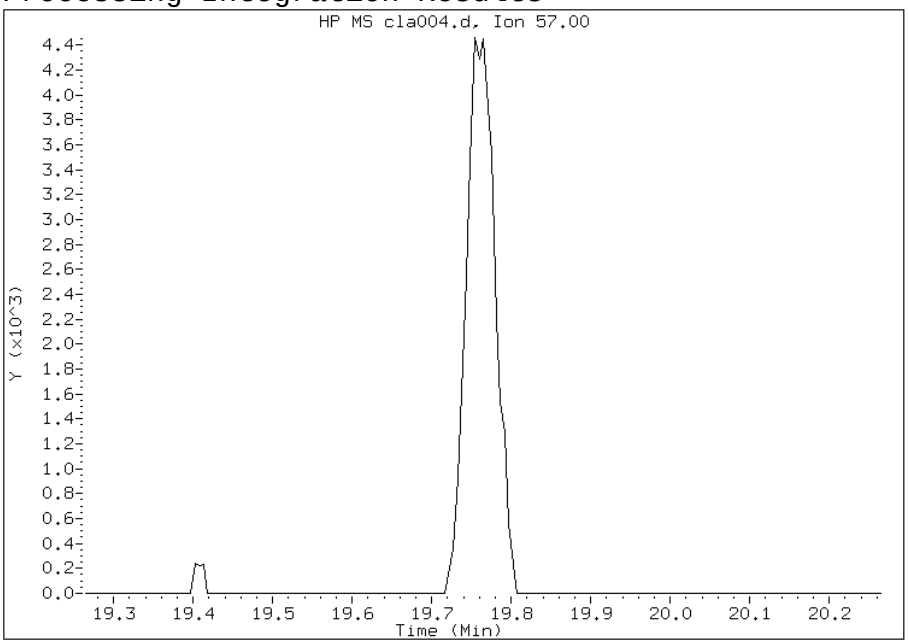
Manual Integration Report

Data File: cla004.d
Lab Sample ID: ic 376701
Inj. Date and Time: 19-SEP-2012 14:45
Instrument ID: C.i
Client ID:
Compound: 67 n-Nonane
CAS #: 111-84-2
Report Date: 09/21/2012

Processing Integration Results

Not Detected

Expected RT: 19.76



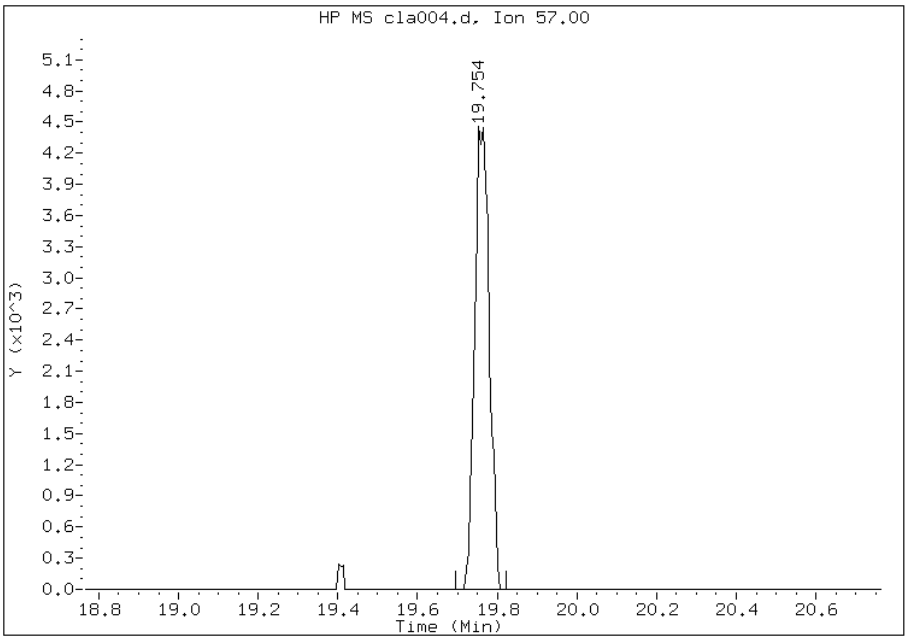
Manual Integration Results

RT: 19.75

Response: 11384

Amount: 0.199608

Conc: 0.199608



File Uploaded By: wrd
Manual Integration Reason: Baseline event

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/clato15.b/cla005.d
Lab Smp Id: ic 376703
Inj Date : 19-SEP-2012 15:38
Operator : wrd Inst ID: C.i
Smp Info : ic 376703
Misc Info : 200,1,lvl 2
Comment :
Method : /chem/C.i/Csvr.p/clato15.b/to15v5.m
Meth Date : 20-Sep-2012 12:16 wrd Quant Type: ISTD
Cal Date : 19-SEP-2012 15:38 Cal File: cla005.d
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
1 Propene	41	4.213	4.208	(0.349)	8837	0.50000	0.57(a)
2 Dichlorodifluoromethane	85	4.304	4.304	(0.357)	43299	0.50000	0.51
3 Chlorodifluoromethane	51	4.368	4.363	(0.362)	19445	0.50000	0.52
4 1,2-Dichloro-1,1,2,2-tetraflu	85	4.656	4.651	(0.386)	41393	0.50000	0.49
5 Chloromethane	50	4.811	4.811	(0.399)	9671	0.50000	0.54
6 Butane	43	5.078	5.078	(0.421)	14344	0.50000	0.47(a)
7 Vinyl chloride	62	5.110	5.115	(0.423)	11424	0.50000	0.48
8 1,3-Butadiene	54	5.211	5.216	(0.432)	7596	0.50000	0.47
9 Bromomethane	94	6.012	5.990	(0.498)	13469	0.50000	0.51
10 Chloroethane	64	6.273	6.268	(0.520)	5988	0.50000	0.52
11 2-Methylbutane	43	6.385	6.380	(0.529)	10690	0.50000	0.50
12 Vinyl bromide	106	6.716	6.711	(0.556)	14355	0.50000	0.48
13 Trichlorofluoromethane	101	6.850	6.844	(0.568)	44330	0.50000	0.50
14 Pentane	43	7.020	7.010	(0.582)	16900	0.50000	0.50

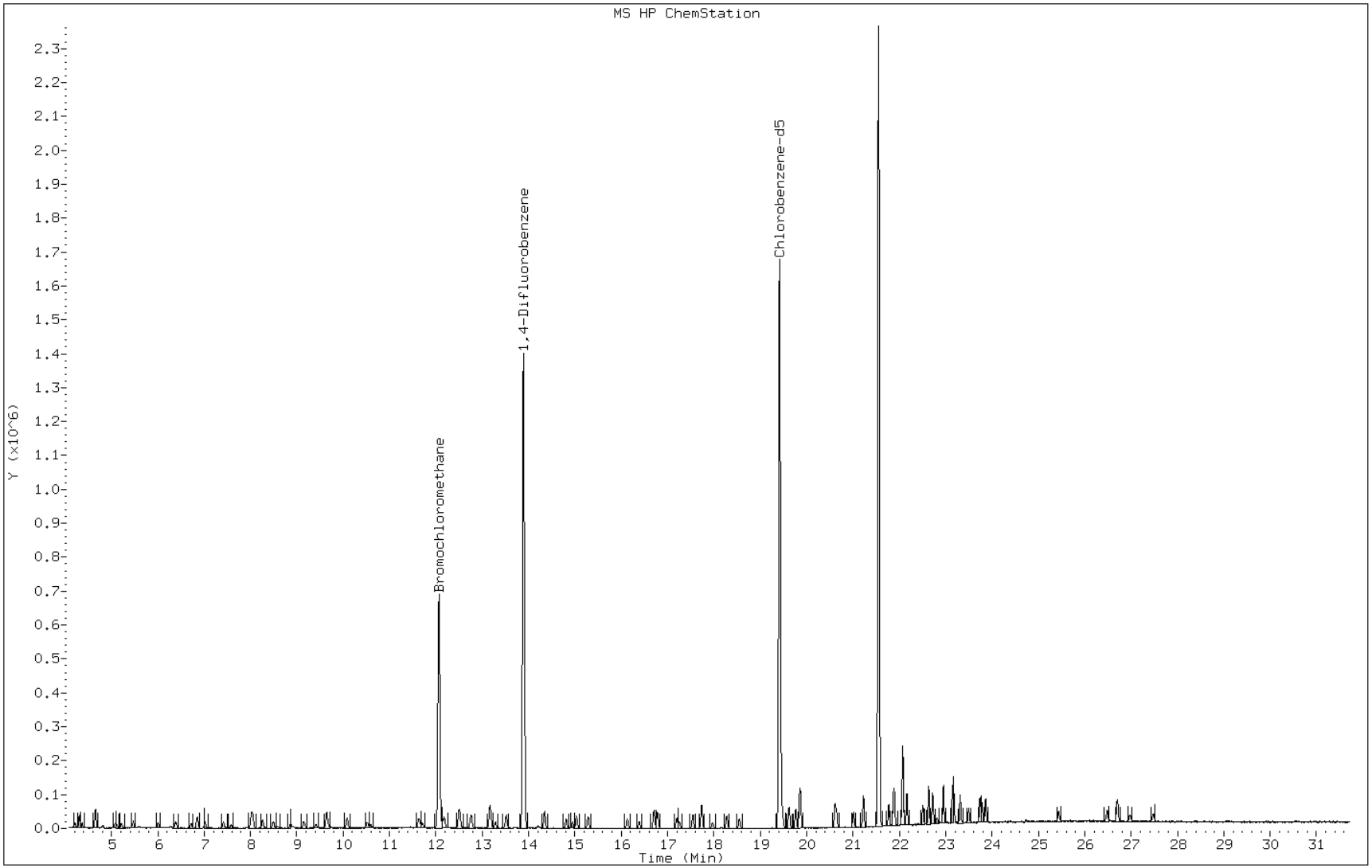
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	7.421	7.522	(0.615)	26798	5.00000	5.1(H)
	16 Ethyl ether	59	7.575	7.565	(0.628)	7792	0.50000	0.49(Q)
	17 1,1,2-Trichloro-1,2,2-trifluo	101	8.018	8.018	(0.664)	30737	0.50000	0.50
	18 Acrolein	56	7.928	7.917	(0.657)	3825	0.50000	0.56(aM)
	19 1,1-Dichloroethene	96	8.050	8.050	(0.667)	14859	0.50000	0.51
	20 Acetone	43	8.259	8.248	(0.684)	43570	0.50000	1.4(a)
	21 Carbon disulfide	76	8.488	8.488	(0.703)	36748	0.50000	0.50
	22 Isopropanol	45	8.584	8.632	(0.711)	9880	0.50000	0.47(a)
	23 Allyl chloride	41	8.856	8.862	(0.734)	11874	0.50000	0.47(a)
	24 Acetonitrile	41	8.915	8.915	(0.739)	7419	0.50000	0.69(aQ)
	25 Methylene chloride	49	9.150	9.150	(0.758)	13380	0.50000	0.70
	26 Tert-butyl alcohol	59	9.406	9.433	(0.779)	18609	0.50000	0.48(a)
	27 Methyl tert-butyl ether	73	9.646	9.619	(0.799)	38984	0.50000	0.48
	28 1,2-Dichloroethene (trans)	61	9.641	9.641	(0.799)	18040	0.50000	0.49
	29 Acrylonitrile	53	9.721	9.715	(0.805)	6757	0.50000	0.50
	30 n-Hexane	57	10.084	10.084	(0.836)	18345	0.50000	0.49
	31 1,1-Dichloroethane	63	10.521	10.521	(0.872)	23789	0.50000	0.50
	32 Vinyl acetate	43	10.591	10.580	(0.878)	21626	0.50000	0.45(a)
M	33 1,2-Dichloroethene,Total	61				35299	1.00000	0.99
	34 1,2-Dichloroethene (cis)	96	11.626	11.621	(0.963)	17259	0.50000	0.50
	35 Ethyl acetate	88	11.712	11.701	(0.970)	1374	0.50000	0.52(aQM)
	36 Methyl Ethyl Ketone	72	11.653	11.642	(0.966)	7986	0.50000	0.61(Q)
*	37 Bromochloromethane	128	12.069	12.069	(1.000)	329876	10.0000	
	38 Tetrahydrofuran	42	12.139	12.117	(0.874)	10459	0.50000	0.50(a)
	39 Chloroform	83	12.187	12.186	(1.010)	33268	0.50000	0.50
	40 Cyclohexane	84	12.523	12.523	(0.902)	21299	0.50000	0.47
	41 1,1,1-Trichloroethane	97	12.496	12.501	(0.900)	38012	0.50000	0.48
	42 Carbon tetrachloride	117	12.763	12.758	(0.919)	38712	0.50000	0.48
	43 2,2,4-Trimethylpentane	57	13.174	13.174	(0.948)	59479	0.50000	0.48
	44 Benzene	78	13.158	13.163	(0.947)	45909	0.50000	0.48
	45 1,2-Dichloroethane	62	13.286	13.286	(0.957)	22244	0.50000	0.49
	46 n-Heptane	43	13.515	13.515	(0.973)	20832	0.50000	0.51
*	47 1,4-Difluorobenzene	114	13.889	13.894	(1.000)	1866333	10.0000	
	48 n-Butanol	56	Compound Not Detected.					
	49 Trichloroethene	95	14.348	14.348	(1.033)	23265	0.50000	0.48
	50 1,2-Dichloropropane	63	14.807	14.812	(1.066)	14011	0.50000	0.48
	51 Methyl methacrylate	69	14.951	14.946	(1.076)	10285	0.50000	0.39(a)
	52 Dibromomethane	174	15.031	15.036	(1.082)	19927	0.50000	0.46
	53 1,4-Dioxane	88	15.026	15.020	(1.082)	5619	0.50000	0.43(a)
	54 Bromodichloromethane	83	15.287	15.293	(1.101)	33104	0.50000	0.45
	55 1,3-Dichloropropene (cis)	75	16.136	16.136	(1.162)	24012	0.50000	0.46
	56 Methyl isobutyl ketone	43	16.387	16.381	(1.180)	17624	0.50000	0.44(a)
	57 n-Octane	43	16.782	16.782	(1.208)	28442	0.50000	0.50
	58 Toluene	92	16.702	16.707	(0.860)	39566	0.50000	0.50
	59 1,3-Dichloropropene (trans)	75	17.193	17.203	(1.238)	25670	0.50000	0.47
	60 1,1,2-Trichloroethane	83	17.550	17.550	(0.904)	15886	0.50000	0.49
	61 Tetrachloroethene	166	17.732	17.737	(0.913)	35991	0.50000	0.50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
62 2-Hexanone	43	17.972	17.966	(0.926)	15209	0.50000	0.42(a)
63 Dibromochloromethane	129	18.276	18.287	(0.941)	31962	0.50000	0.42
64 1,2-Dibromoethane	107	18.543	18.553	(0.955)	30565	0.50000	0.46
* 65 Chlorobenzene-d5	117	19.413	19.418	(1.000)	1710570	10.0000	
66 Chlorobenzene	112	19.477	19.477	(1.003)	55432	0.50000	0.49
67 n-Nonane	57	19.770	19.765	(1.018)	26650	0.50000	0.46(M)
68 Ethylbenzene	91	19.621	19.626	(1.011)	74981	0.50000	0.47
69 Xylene (m,p)	106	19.856	19.861	(1.023)	63811	1.00000	0.92
M 70 Xylenes, Total	106				96054	0.50000	1.5
71 Xylene (o)	106	20.613	20.619	(1.062)	32243	0.50000	0.56
72 Styrene	104	20.646	20.651	(1.063)	36580	0.50000	0.46
73 Bromoform	173	21.014	21.014	(1.082)	27441	0.50000	0.40
74 Isopropylbenzene	105	21.227	21.227	(1.093)	87602	0.50000	0.46
75 1,1,2,2-Tetrachloroethane	83	21.772	21.772	(1.121)	37405	0.50000	0.47
76 n-Propylbenzene	91	21.889	21.889	(1.128)	88213	0.50000	0.43
77 1,2,3-Trichloropropane	75	21.873	21.873	(1.127)	31144	0.50000	0.49(a)
78 n-Decane	57	22.070	22.070	(1.137)	28273	0.50000	0.42(a)
79 4-Ethyltoluene	105	22.065	22.070	(1.137)	78026	0.50000	0.43
80 2-Chlorotoluene	91	22.081	22.076	(1.137)	69212	0.50000	0.46
81 1,3,5-Trimethylbenzene	105	22.167	22.166	(1.142)	68080	0.50000	0.44
82 Alpha Methyl Styrene	118	22.513	22.508	(1.160)	25005	0.50000	0.35
83 tert-butylbenzene	119	22.636	22.636	(1.166)	72547	0.50000	0.46
84 1,2,4-Trimethylbenzene	105	22.722	22.722	(1.170)	64034	0.50000	0.43
85 sec-Butylbenzene	105	22.951	22.951	(1.182)	96580	0.50000	0.44
86 4-Isopropyltoluene	119	23.149	23.148	(1.192)	76769	0.50000	0.42
87 1,3-Dichlorobenzene	146	23.175	23.180	(1.194)	50220	0.50000	0.47
88 1,4-Dichlorobenzene	146	23.314	23.314	(1.201)	48379	0.50000	0.46
89 Benzyl chloride	91	23.495	23.495	(1.210)	39333	0.50000	0.39
90 Undecane	57	23.778	23.784	(1.225)	22924	0.50000	0.39(a)
91 n-Butylbenzene	91	23.741	23.741	(1.223)	49783	0.50000	0.38
92 1,2-Dichlorobenzene	146	23.869	23.864	(1.230)	44201	0.50000	0.45
93 Dodecane	57	25.438	25.438	(1.310)	13352	0.50000	0.38(a)
94 1,2,4-Trichlorobenzene	180	26.484	26.484	(1.364)	17878	0.50000	0.49(a)
95 1,3-Hexachlorobutadiene	225	26.708	26.703	(1.376)	20765	0.50000	0.44
96 Naphthalene	128	26.975	26.975	(1.390)	28081	0.50000	0.30(a)
97 1,2,3-Trichlorobenzene	180	27.482	27.482	(1.416)	13961	0.50000	0.39

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File:	cla005.d	Date:	19-SEP-2012 15:38
Client ID:		Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 376703		
Lab Sample ID:	ic 376703		



Manual Integration Report

Data File: cla005.d
Lab Sample ID: ic 376703
Inj. Date and Time: 19-SEP-2012 15:38
Instrument ID: C.i
Client ID:
Compound: 18 Acrolein
CAS #: 107-02-8
Report Date: 09/21/2012

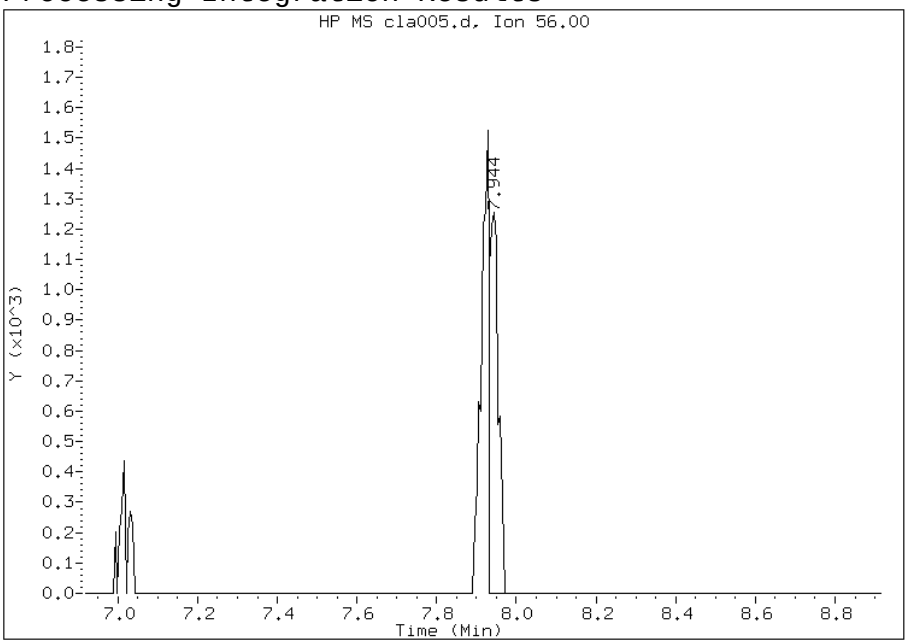
Processing Integration Results

RT: 7.94

Response: 1967

Amount: 0.285539

Conc: 0.285539



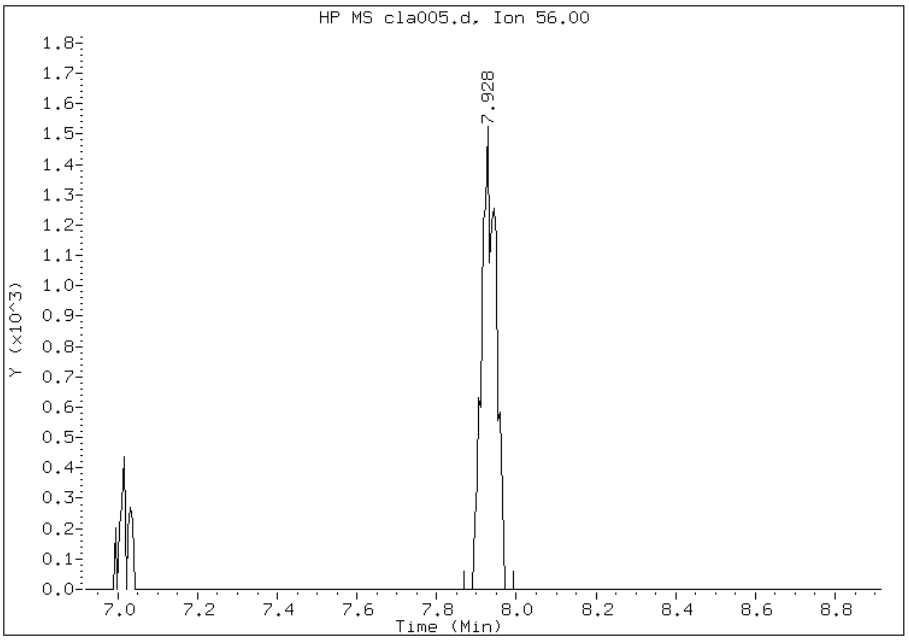
Manual Integration Results

RT: 7.93

Response: 3825

Amount: 0.564284

Conc: 0.564284



File Uploaded By: wrd
Manual Integration Reason: Baseline event

Manual Integration Report

Data File: cla005.d
Lab Sample ID: ic 376703
Inj. Date and Time: 19-SEP-2012 15:38
Instrument ID: C.i
Client ID:
Compound: 35 Ethyl acetate
CAS #: 141-78-6
Report Date: 09/21/2012

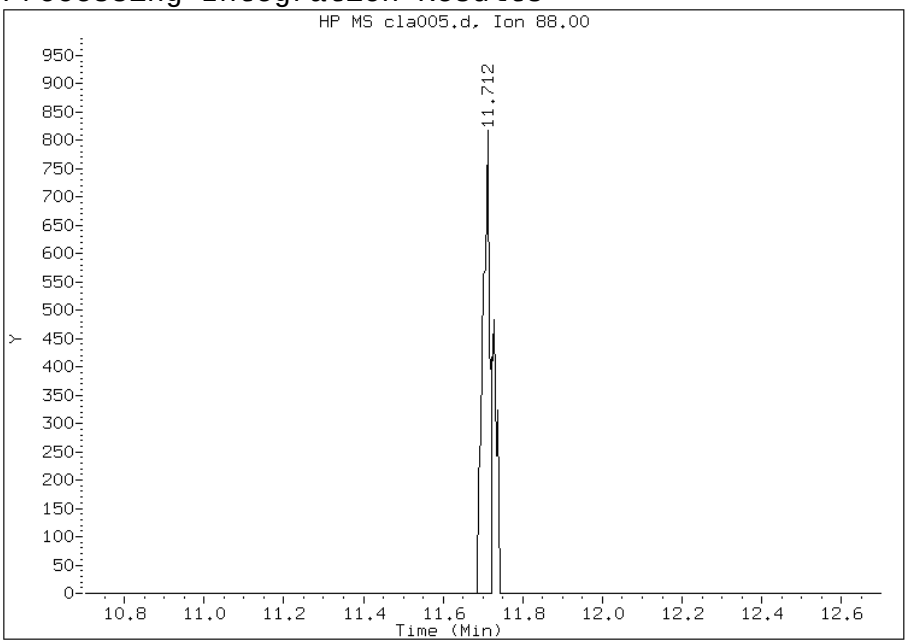
Processing Integration Results

RT: 11.71

Response: 1038

Amount: 0.395334

Conc: 0.395334



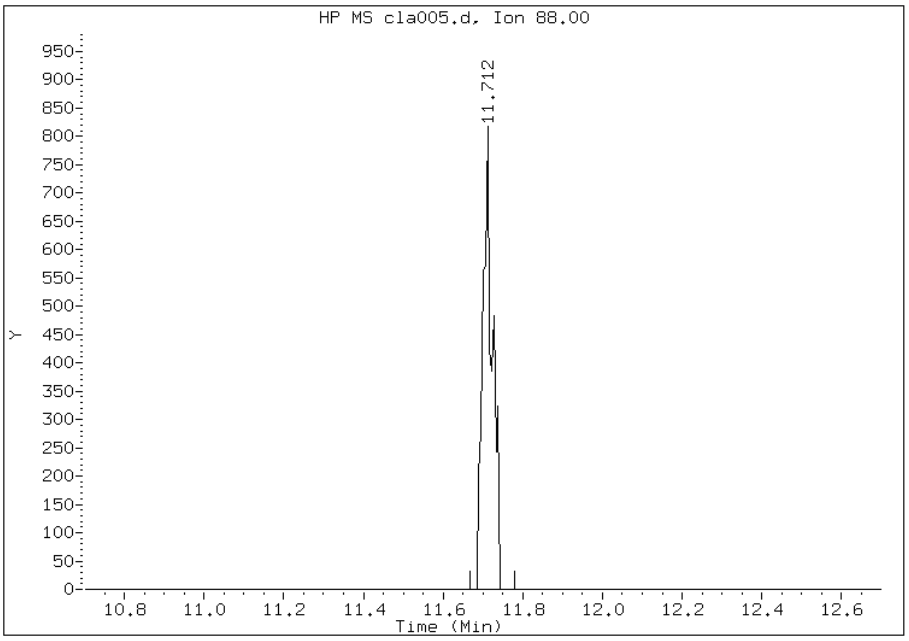
Manual Integration Results

RT: 11.71

Response: 1374

Amount: 0.522847

Conc: 0.522847



File Uploaded By: wrd
Manual Integration Reason: Baseline event

Manual Integration Report

Data File: cla005.d
Lab Sample ID: ic 376703
Inj. Date and Time: 19-SEP-2012 15:38
Instrument ID: C.i
Client ID:
Compound: 67 n-Nonane
CAS #: 111-84-2
Report Date: 09/21/2012

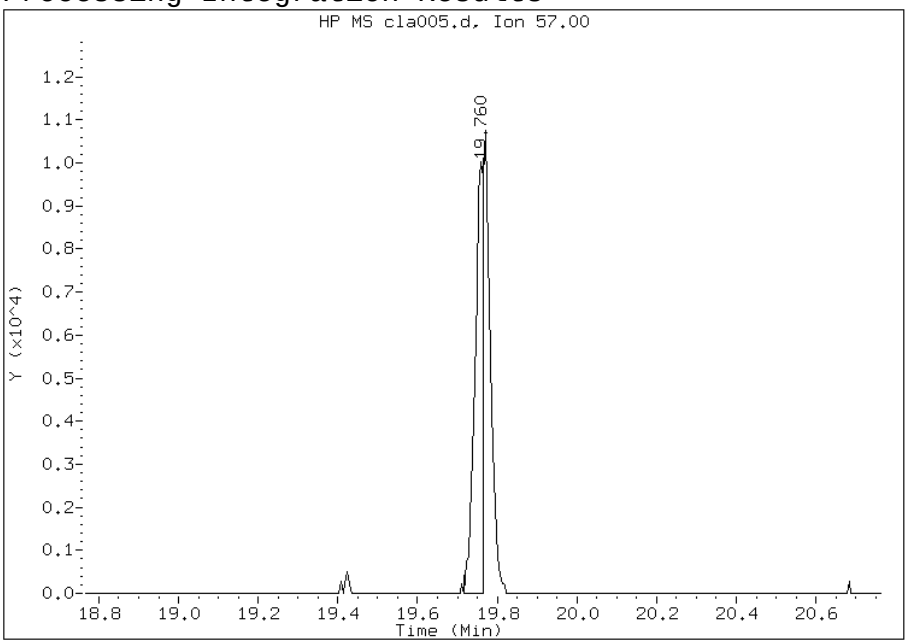
Processing Integration Results

RT: 19.76

Response: 15214

Amount: 0.280500

Conc: 0.280500



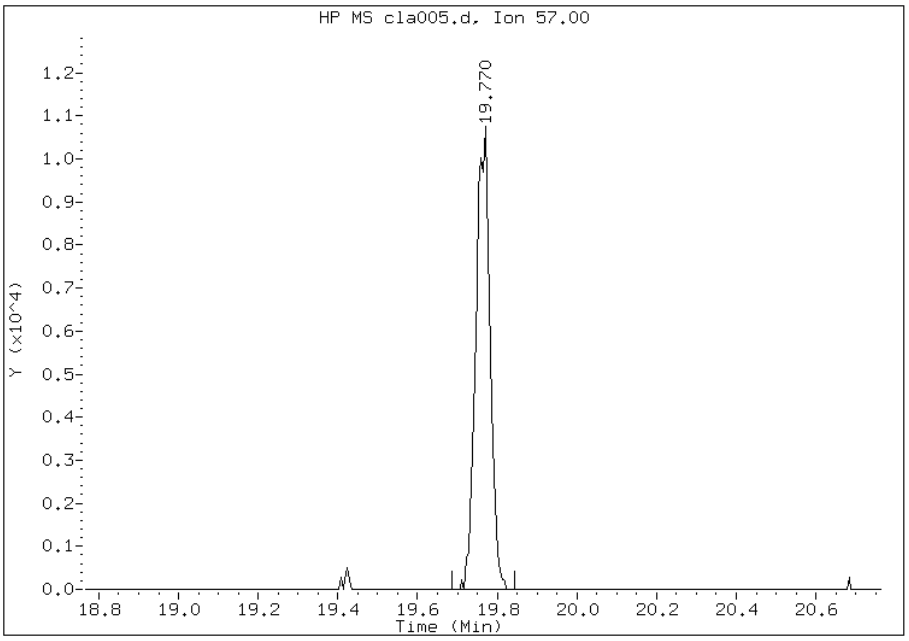
Manual Integration Results

RT: 19.77

Response: 26650

Amount: 0.459951

Conc: 0.459951



File Uploaded By: wrd
Manual Integration Reason: Baseline event

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/clato15.b/cla006.d
Lab Smp Id: ic 370618
Inj Date : 19-SEP-2012 16:32
Operator : wrd Inst ID: C.i
Smp Info : ic 370618
Misc Info : 200,1,lvl 3
Comment :
Method : /chem/C.i/Csvr.p/clato15.b/to15v5.m
Meth Date : 20-Sep-2012 12:17 wrd Quant Type: ISTD
Cal Date : 19-SEP-2012 16:32 Cal File: cla006.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
1 Propene	41	4.208	4.208	(0.349)	80957	5.00000	5.4
2 Dichlorodifluoromethane	85	4.299	4.304	(0.356)	441101	5.00000	5.4
3 Chlorodifluoromethane	51	4.357	4.363	(0.361)	197279	5.00000	5.5
4 1,2-Dichloro-1,1,2,2-tetraflu	85	4.640	4.651	(0.385)	425080	5.00000	5.2
5 Chloromethane	50	4.806	4.811	(0.398)	90795	5.00000	5.2
6 Butane	43	5.067	5.078	(0.420)	156486	5.00000	5.3
7 Vinyl chloride	62	5.110	5.115	(0.424)	115338	5.00000	5.0
8 1,3-Butadiene	54	5.211	5.216	(0.432)	80634	5.00000	5.1
9 Bromomethane	94	5.996	5.990	(0.497)	132972	5.00000	5.2
10 Chloroethane	64	6.268	6.268	(0.520)	58499	5.00000	5.2
11 2-Methylbutane	43	6.380	6.380	(0.529)	109259	5.00000	5.2
12 Vinyl bromide	106	6.711	6.711	(0.556)	152380	5.00000	5.3
13 Trichlorofluoromethane	101	6.839	6.844	(0.567)	453971	5.00000	5.3
14 Pentane	43	7.010	7.010	(0.581)	179880	5.00000	5.4

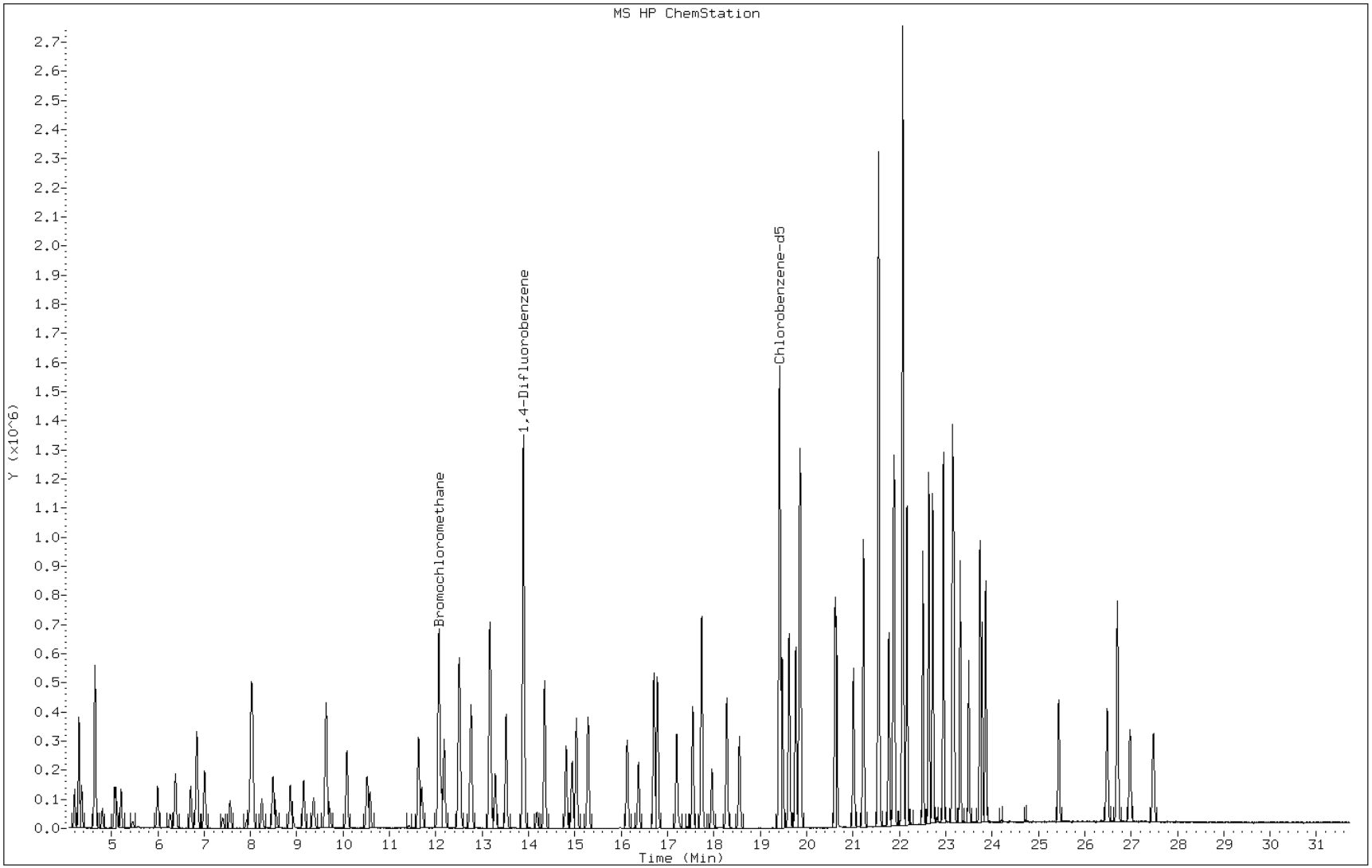
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	7.405	7.522	(0.614)	53469	10.0000	10(H)
	16 Ethyl ether	59	7.554	7.565	(0.626)	81299	5.00000	5.3(Q)
	17 1,1,2-Trichloro-1,2,2-trifluo	101	8.018	8.018	(0.665)	311395	5.00000	5.2
	18 Acrolein	56	7.917	7.917	(0.656)	34200	5.00000	5.2
	19 1,1-Dichloroethene	96	8.045	8.050	(0.667)	145370	5.00000	5.1
	20 Acetone	43	8.243	8.248	(0.683)	182249	5.00000	5.9
	21 Carbon disulfide	76	8.488	8.488	(0.704)	372869	5.00000	5.2
	22 Isopropanol	45	8.547	8.632	(0.708)	105692	5.00000	5.2
	23 Allyl chloride	41	8.856	8.862	(0.734)	135023	5.00000	5.5(M)
	24 Acetonitrile	41	8.910	8.915	(0.739)	55434	5.00000	5.3(QM)
	25 Methylene chloride	49	9.150	9.150	(0.758)	116737	5.00000	6.3
	26 Tert-butyl alcohol	59	9.363	9.433	(0.776)	194546	5.00000	5.2
	27 Methyl tert-butyl ether	73	9.619	9.619	(0.797)	407092	5.00000	5.2
	28 1,2-Dichloroethene (trans)	61	9.641	9.641	(0.799)	191805	5.00000	5.3
	29 Acrylonitrile	53	9.716	9.715	(0.805)	70482	5.00000	5.3
	30 n-Hexane	57	10.078	10.084	(0.835)	192287	5.00000	5.3
	31 1,1-Dichloroethane	63	10.516	10.521	(0.872)	243776	5.00000	5.3
	32 Vinyl acetate	43	10.580	10.580	(0.877)	246093	5.00000	5.3
M	33 1,2-Dichloroethene,Total	61				363365	10.0000	10
	34 1,2-Dichloroethene (cis)	96	11.621	11.621	(0.963)	171560	5.00000	5.2
	35 Ethyl acetate	88	11.701	11.701	(0.970)	13312	5.00000	5.2
	36 Methyl Ethyl Ketone	72	11.642	11.642	(0.965)	63160	5.00000	5.0
*	37 Bromochloromethane	128	12.064	12.069	(1.000)	319601	10.0000	
	38 Tetrahydrofuran	42	12.117	12.117	(0.872)	106277	5.00000	5.3
	39 Chloroform	83	12.181	12.186	(1.010)	338052	5.00000	5.3
	40 Cyclohexane	84	12.517	12.523	(0.901)	226422	5.00000	5.2
	41 1,1,1-Trichloroethane	97	12.496	12.501	(0.900)	400798	5.00000	5.3
	42 Carbon tetrachloride	117	12.758	12.758	(0.919)	418317	5.00000	5.4
	43 2,2,4-Trimethylpentane	57	13.174	13.174	(0.948)	624992	5.00000	5.2
	44 Benzene	78	13.158	13.163	(0.947)	468143	5.00000	5.1
	45 1,2-Dichloroethane	62	13.281	13.286	(0.956)	233567	5.00000	5.4
	46 n-Heptane	43	13.515	13.515	(0.973)	208571	5.00000	5.3
*	47 1,4-Difluorobenzene	114	13.889	13.894	(1.000)	1788530	10.0000	
	48 n-Butanol	56	14.183	14.204	(1.021)	45071	5.00000	5.1
	49 Trichloroethene	95	14.343	14.348	(1.033)	234147	5.00000	5.0
	50 1,2-Dichloropropane	63	14.812	14.812	(1.066)	143172	5.00000	5.2
	51 Methyl methacrylate	69	14.940	14.946	(1.076)	129389	5.00000	5.1
	52 Dibromomethane	174	15.036	15.036	(1.083)	217335	5.00000	5.3
	53 1,4-Dioxane	88	15.015	15.020	(1.081)	60313	5.00000	4.8(a)
	54 Bromodichloromethane	83	15.282	15.293	(1.100)	379435	5.00000	5.4
	55 1,3-Dichloropropene (cis)	75	16.130	16.136	(1.161)	262228	5.00000	5.2
	56 Methyl isobutyl ketone	43	16.371	16.381	(1.179)	198717	5.00000	5.2
	57 n-Octane	43	16.782	16.782	(1.208)	294270	5.00000	5.4
	58 Toluene	92	16.702	16.707	(0.860)	387138	5.00000	5.2
	59 1,3-Dichloropropene (trans)	75	17.193	17.203	(1.238)	273327	5.00000	5.3
	60 1,1,2-Trichloroethane	83	17.545	17.550	(0.904)	165602	5.00000	5.3
	61 Tetrachloroethene	166	17.737	17.737	(0.913)	363104	5.00000	5.3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	17.961	17.966	(0.925)	183490	5.00000	5.3
	63 Dibromochloromethane	129	18.281	18.287	(0.941)	398458	5.00000	5.5
	64 1,2-Dibromoethane	107	18.548	18.553	(0.955)	348564	5.00000	5.5
*	65 Chlorobenzene-d5	117	19.418	19.418	(1.000)	1630581	10.0000	
	66 Chlorobenzene	112	19.471	19.477	(1.003)	563455	5.00000	5.2
	67 n-Nonane	57	19.765	19.765	(1.018)	301015	5.00000	5.5
	68 Ethylbenzene	91	19.621	19.626	(1.010)	802895	5.00000	5.3
	69 Xylene (m,p)	106	19.856	19.861	(1.023)	707383	10.0000	11
M	70 Xylenes, Total	106				1052184	5.00000	17
	71 Xylene (o)	106	20.613	20.619	(1.062)	344801	5.00000	6.2
	72 Styrene	104	20.651	20.651	(1.063)	485824	5.00000	6.4
	73 Bromoform	173	21.014	21.014	(1.082)	368758	5.00000	5.7
	74 Isopropylbenzene	105	21.227	21.227	(1.093)	966280	5.00000	5.3
	75 1,1,2,2-Tetrachloroethane	83	21.772	21.772	(1.121)	408695	5.00000	5.4
	76 n-Propylbenzene	91	21.889	21.889	(1.127)	1054426	5.00000	5.4
	77 1,2,3-Trichloropropane	75	21.868	21.873	(1.126)	329383	5.00000	5.4
	78 n-Decane	57	22.070	22.070	(1.137)	358609	5.00000	5.6
	79 4-Ethyltoluene	105	22.065	22.070	(1.136)	951211	5.00000	5.5
	80 2-Chlorotoluene	91	22.076	22.076	(1.137)	778788	5.00000	5.4
	81 1,3,5-Trimethylbenzene	105	22.167	22.166	(1.142)	800104	5.00000	5.4
	82 Alpha Methyl Styrene	118	22.508	22.508	(1.159)	393412	5.00000	5.7
	83 tert-butylbenzene	119	22.636	22.636	(1.166)	823704	5.00000	5.4
	84 1,2,4-Trimethylbenzene	105	22.722	22.722	(1.170)	784770	5.00000	5.6
	85 sec-Butylbenzene	105	22.951	22.951	(1.182)	1145456	5.00000	5.5
	86 4-Isopropyltoluene	119	23.149	23.148	(1.192)	978337	5.00000	5.6
	87 1,3-Dichlorobenzene	146	23.175	23.180	(1.193)	545551	5.00000	5.3
	88 1,4-Dichlorobenzene	146	23.314	23.314	(1.201)	522555	5.00000	5.2
	89 Benzyl chloride	91	23.495	23.495	(1.210)	524099	5.00000	5.5
	90 Undecane	57	23.784	23.784	(1.225)	274743	5.00000	4.8(a)
	91 n-Butylbenzene	91	23.741	23.741	(1.223)	694138	5.00000	5.5
	92 1,2-Dichlorobenzene	146	23.869	23.864	(1.229)	503309	5.00000	5.3
	93 Dodecane	57	25.438	25.438	(1.310)	190705	5.00000	5.7
	94 1,2,4-Trichlorobenzene	180	26.479	26.484	(1.364)	221562	5.00000	6.4
	95 1,3-Hexachlorobutadiene	225	26.708	26.703	(1.375)	244148	5.00000	5.4
	96 Naphthalene	128	26.980	26.975	(1.389)	491591	5.00000	5.4
	97 1,2,3-Trichlorobenzene	180	27.482	27.482	(1.415)	184354	5.00000	5.4

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File:	cla006.d	Date:	19-SEP-2012 16:32
Client ID:		Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 370618		
Lab Sample ID:	ic 370618		



Manual Integration Report

Data File: cla006.d
Lab Sample ID: ic 370618
Inj. Date and Time: 19-SEP-2012 16:32
Instrument ID: C.i
Client ID:
Compound: 23 Allyl chloride
CAS #: 107-05-1
Report Date: 09/21/2012

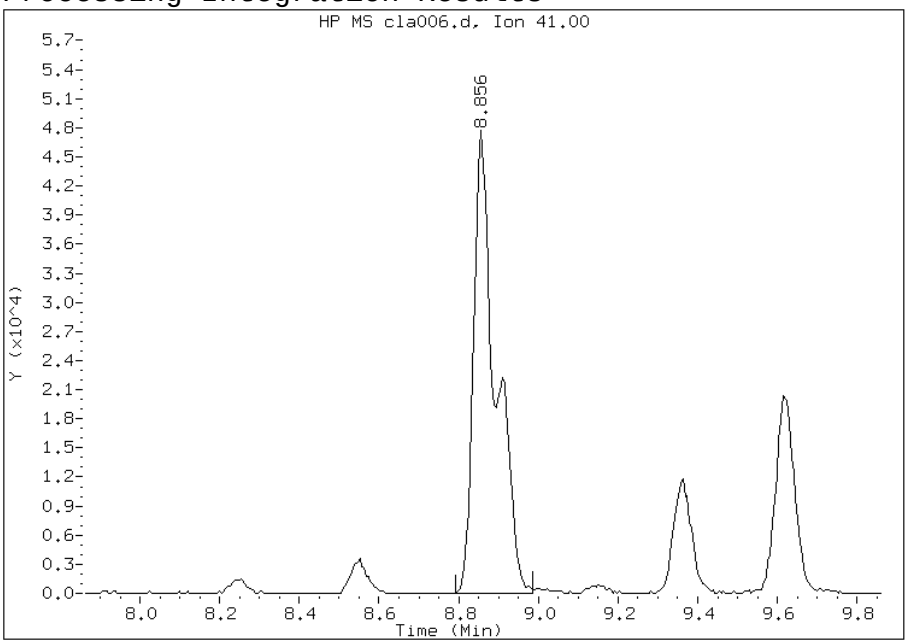
Processing Integration Results

RT: 8.86

Response: 185786

Amount: 6.33

Conc: 6.33



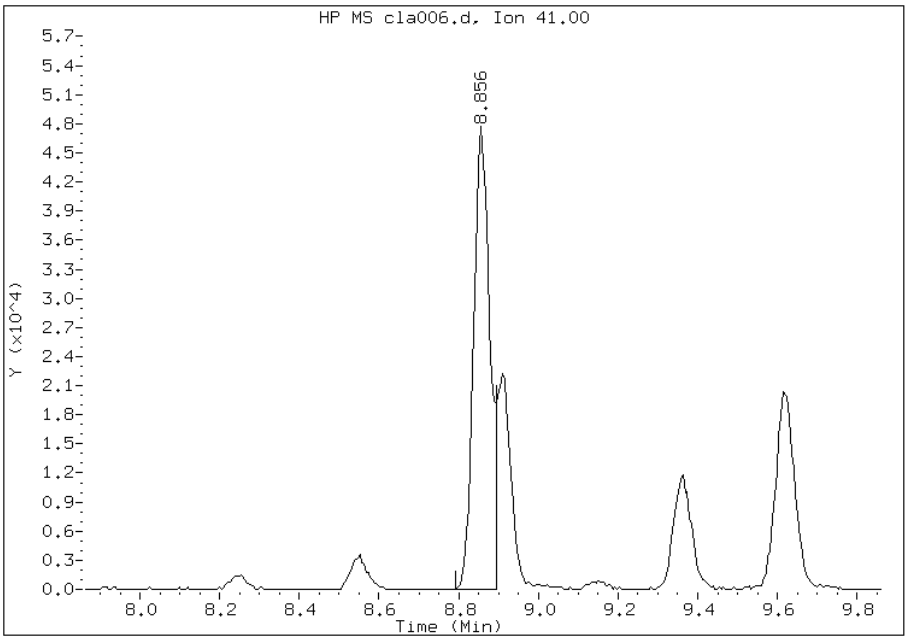
Manual Integration Results

RT: 8.86

Response: 135023

Amount: 5.49

Conc: 5.49



File Uploaded By: wrd
Manual Integration Reason: Baseline event

Manual Integration Report

Data File: cla006.d
Lab Sample ID: ic 370618
Inj. Date and Time: 19-SEP-2012 16:32
Instrument ID: C.i
Client ID:
Compound: 24 Acetonitrile
CAS #: 75-05-8
Report Date: 09/21/2012

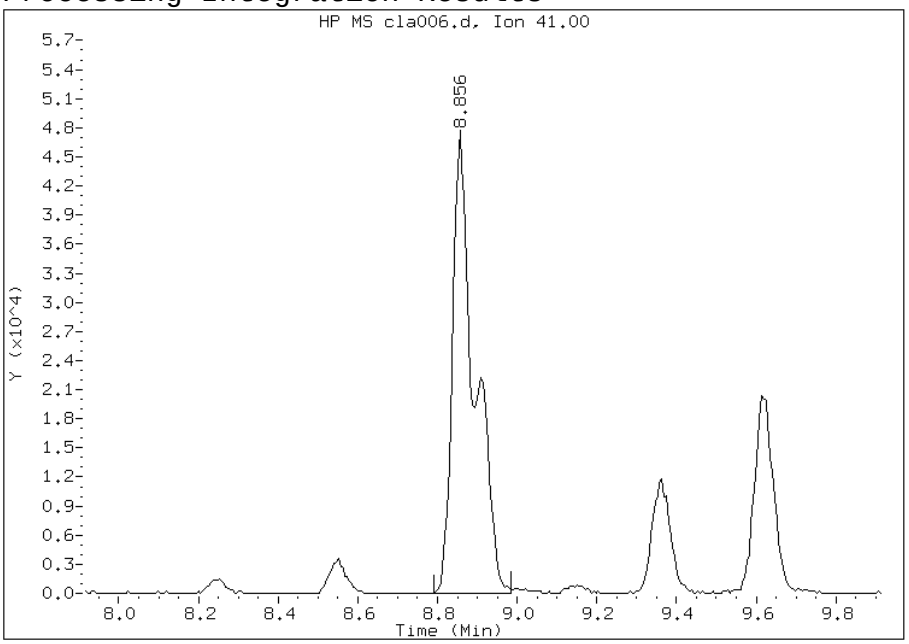
Processing Integration Results

RT: 8.86

Response: 185786

Amount: 6.41

Conc: 6.41



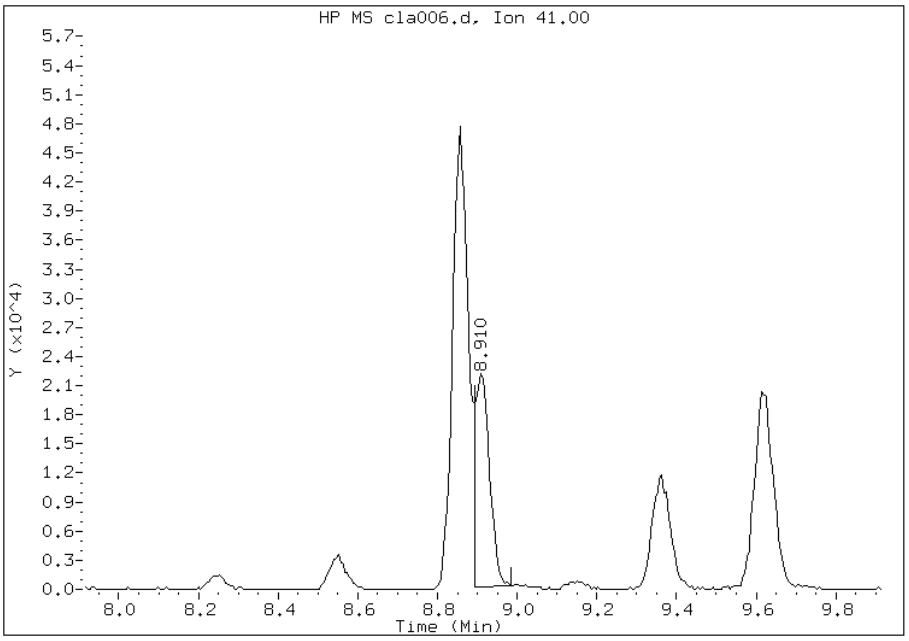
Manual Integration Results

RT: 8.91

Response: 55434

Amount: 5.31

Conc: 5.31



File Uploaded By: wrd
Manual Integration Reason: Baseline event

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/clato15.b/cla007.d
Lab Smp Id: icis 380699
Inj Date : 19-SEP-2012 17:25
Operator : wrd Inst ID: C.i
Smp Info : icis 380699
Misc Info : 200,1,lvl 4 icis
Comment :
Method : /chem/C.i/Csvr.p/clato15.b/to15v5.m
Meth Date : 20-Sep-2012 12:17 wrd Quant Type: ISTD
Cal Date : 19-SEP-2012 17:25 Cal File: cla007.d
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

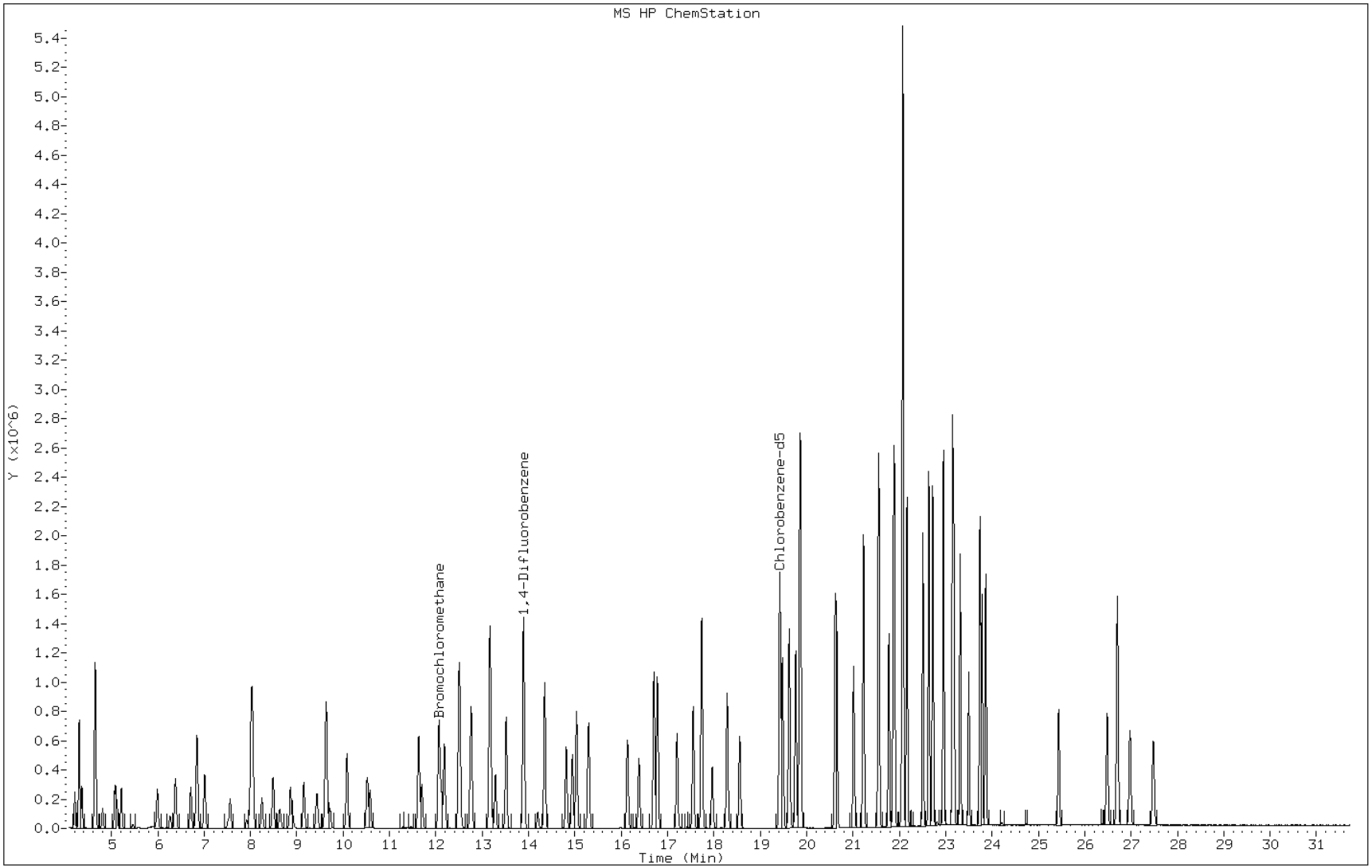
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
1 Propene	41	4.208	4.208	(0.349)	157106	10.0000	9.6
2 Dichlorodifluoromethane	85	4.304	4.304	(0.357)	868779	10.0000	9.8
3 Chlorodifluoromethane	51	4.363	4.363	(0.361)	382965	10.0000	9.7
4 1,2-Dichloro-1,1,2,2-tetraflu	85	4.651	4.651	(0.385)	858791	10.0000	9.6
5 Chloromethane	50	4.811	4.811	(0.399)	186197	10.0000	9.8
6 Butane	43	5.078	5.078	(0.421)	320751	10.0000	10
7 Vinyl chloride	62	5.115	5.115	(0.424)	243353	10.0000	9.6
8 1,3-Butadiene	54	5.216	5.216	(0.432)	167613	10.0000	9.7
9 Bromomethane	94	5.990	5.990	(0.496)	253066	10.0000	9.1
10 Chloroethane	64	6.268	6.268	(0.519)	109713	10.0000	9.0
11 2-Methylbutane	43	6.380	6.380	(0.529)	204131	10.0000	8.9
12 Vinyl bromide	106	6.711	6.711	(0.556)	293320	10.0000	9.3
13 Trichlorofluoromethane	101	6.844	6.844	(0.567)	878306	10.0000	9.4
14 Pentane	43	7.010	7.010	(0.581)	333573	10.0000	9.2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	7.522	7.522	(0.623)	69822	15.0000	13
	16 Ethyl ether	59	7.565	7.565	(0.627)	168757	10.0000	10
	17 1,1,2-Trichloro-1,2,2-trifluo	101	8.018	8.018	(0.664)	605584	10.0000	9.3
	18 Acrolein	56	7.917	7.917	(0.656)	68808	10.0000	9.6
	19 1,1-Dichloroethene	96	8.050	8.050	(0.667)	279113	10.0000	9.0
	20 Acetone	43	8.248	8.248	(0.683)	369183	10.0000	11
	21 Carbon disulfide	76	8.488	8.488	(0.703)	742817	10.0000	9.5
	22 Isopropanol	45	8.632	8.632	(0.715)	243791	10.0000	11
	23 Allyl chloride	41	8.862	8.862	(0.734)	248174	10.0000	9.2
	24 Acetonitrile	41	8.915	8.915	(0.739)	125129	10.0000	11
	25 Methylene chloride	49	9.150	9.150	(0.758)	220800	10.0000	11
	26 Tert-butyl alcohol	59	9.433	9.433	(0.782)	454215	10.0000	11
	27 Methyl tert-butyl ether	73	9.619	9.619	(0.797)	868422	10.0000	10
	28 1,2-Dichloroethene (trans)	61	9.641	9.641	(0.799)	377022	10.0000	9.6
	29 Acrylonitrile	53	9.715	9.715	(0.805)	145649	10.0000	10
	30 n-Hexane	57	10.084	10.084	(0.836)	369387	10.0000	9.2
	31 1,1-Dichloroethane	63	10.521	10.521	(0.872)	474670	10.0000	9.4
	32 Vinyl acetate	43	10.580	10.580	(0.877)	518257	10.0000	10
M	33 1,2-Dichloroethene,Total	61				714711	20.0000	19
	34 1,2-Dichloroethene (cis)	96	11.621	11.621	(0.963)	337689	10.0000	9.3
	35 Ethyl acetate	88	11.701	11.701	(0.969)	28713	10.0000	10
	36 Methyl Ethyl Ketone	72	11.642	11.642	(0.965)	136115	10.0000	9.9
*	37 Bromochloromethane	128	12.069	12.069	(1.000)	349260	10.0000	
	38 Tetrahydrofuran	42	12.117	12.117	(0.872)	227090	10.0000	10
	39 Chloroform	83	12.186	12.186	(1.010)	667098	10.0000	9.5
	40 Cyclohexane	84	12.523	12.523	(0.901)	448582	10.0000	9.5
	41 1,1,1-Trichloroethane	97	12.501	12.501	(0.900)	781984	10.0000	9.6
	42 Carbon tetrachloride	117	12.758	12.758	(0.918)	827814	10.0000	9.8
	43 2,2,4-Trimethylpentane	57	13.174	13.174	(0.948)	1225212	10.0000	9.5
	44 Benzene	78	13.163	13.163	(0.947)	918448	10.0000	9.3
	45 1,2-Dichloroethane	62	13.286	13.286	(0.956)	453881	10.0000	9.7
	46 n-Heptane	43	13.515	13.515	(0.973)	404737	10.0000	9.5
*	47 1,4-Difluorobenzene	114	13.894	13.894	(1.000)	1926691	10.0000	
	48 n-Butanol	56	14.204	14.204	(1.022)	95587	10.0000	10
	49 Trichloroethene	95	14.348	14.348	(1.033)	465174	10.0000	9.3
	50 1,2-Dichloropropane	63	14.812	14.812	(1.066)	286122	10.0000	9.6
	51 Methyl methacrylate	69	14.946	14.946	(1.076)	296247	10.0000	11
	52 Dibromomethane	174	15.036	15.036	(1.082)	440613	10.0000	9.9
	53 1,4-Dioxane	88	15.020	15.020	(1.081)	157530	10.0000	12
	54 Bromodichloromethane	83	15.293	15.293	(1.101)	752163	10.0000	10
	55 1,3-Dichloropropene (cis)	75	16.136	16.136	(1.161)	532422	10.0000	9.9
	56 Methyl isobutyl ketone	43	16.381	16.381	(1.179)	426918	10.0000	10
	57 n-Octane	43	16.782	16.782	(1.208)	564669	10.0000	9.6
	58 Toluene	92	16.707	16.707	(0.860)	789338	10.0000	9.5
	59 1,3-Dichloropropene (trans)	75	17.203	17.203	(1.238)	563422	10.0000	10
	60 1,1,2-Trichloroethane	83	17.550	17.550	(0.904)	333217	10.0000	9.6
	61 Tetrachloroethene	166	17.737	17.737	(0.913)	721525	10.0000	9.5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	17.966	17.966	(0.925)	378237	10.0000	9.8
	63 Dibromochloromethane	129	18.287	18.287	(0.942)	813767	10.0000	10
	64 1,2-Dibromoethane	107	18.553	18.553	(0.955)	697948	10.0000	9.9
*	65 Chlorobenzene-d5	117	19.418	19.418	(1.000)	1809194	10.0000	
	66 Chlorobenzene	112	19.477	19.477	(1.003)	1138497	10.0000	9.5
	67 n-Nonane	57	19.765	19.765	(1.018)	594028	10.0000	9.7
	68 Ethylbenzene	91	19.626	19.626	(1.011)	1660081	10.0000	9.8
	69 Xylene (m,p)	106	19.861	19.861	(1.023)	1461033	20.0000	20
M	70 Xylenes, Total	106				2165536	10.0000	31
	71 Xylene (o)	106	20.619	20.619	(1.062)	704503	10.0000	11
	72 Styrene	104	20.651	20.651	(1.063)	1040651	10.0000	12
	73 Bromoform	173	21.014	21.014	(1.082)	749290	10.0000	10
	74 Isopropylbenzene	105	21.227	21.227	(1.093)	1976280	10.0000	9.9
	75 1,1,2,2-Tetrachloroethane	83	21.772	21.772	(1.121)	815378	10.0000	9.8
	76 n-Propylbenzene	91	21.889	21.889	(1.127)	2164447	10.0000	10
	77 1,2,3-Trichloropropane	75	21.873	21.873	(1.126)	654907	10.0000	9.7
	78 n-Decane	57	22.070	22.070	(1.137)	723449	10.0000	10
	79 4-Ethyltoluene	105	22.070	22.070	(1.137)	1969378	10.0000	10
	80 2-Chlorotoluene	91	22.076	22.076	(1.137)	1566514	10.0000	9.9
	81 1,3,5-Trimethylbenzene	105	22.166	22.166	(1.142)	1639965	10.0000	10
	82 Alpha Methyl Styrene	118	22.508	22.508	(1.159)	841168	10.0000	11
	83 tert-butylbenzene	119	22.636	22.636	(1.166)	1660548	10.0000	9.9
	84 1,2,4-Trimethylbenzene	105	22.722	22.722	(1.170)	1609305	10.0000	10
	85 sec-Butylbenzene	105	22.951	22.951	(1.182)	2328248	10.0000	10
	86 4-Isopropyltoluene	119	23.148	23.148	(1.192)	2042978	10.0000	10
	87 1,3-Dichlorobenzene	146	23.180	23.180	(1.194)	1110701	10.0000	9.7
	88 1,4-Dichlorobenzene	146	23.314	23.314	(1.201)	1071176	10.0000	9.7
	89 Benzyl chloride	91	23.495	23.495	(1.210)	1004875	10.0000	9.4
	90 Undecane	57	23.784	23.784	(1.225)	627815	10.0000	10
	91 n-Butylbenzene	91	23.741	23.741	(1.223)	1506445	10.0000	11
	92 1,2-Dichlorobenzene	146	23.864	23.864	(1.229)	1048239	10.0000	10
	93 Dodecane	57	25.438	25.438	(1.310)	353028	10.0000	9.5
	94 1,2,4-Trichlorobenzene	180	26.484	26.484	(1.364)	428796	10.0000	11
	95 1,3-Hexachlorobutadiene	225	26.703	26.703	(1.375)	502338	10.0000	10
	96 Naphthalene	128	26.975	26.975	(1.389)	991714	10.0000	9.9
	97 1,2,3-Trichlorobenzene	180	27.482	27.482	(1.415)	350174	10.0000	9.3

Data File:	cla007.d	Date:	19-SEP-2012 17:25
Client ID:		Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	icis 380699		
Lab Sample ID:	icis 380699		



TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/clato15.b/cla008.d
Lab Smp Id: ic 370603
Inj Date : 19-SEP-2012 18:19
Operator : wrd Inst ID: C.i
Smp Info : ic 370603
Misc Info : 200,1,lvl 5
Comment :
Method : /chem/C.i/Csvr.p/clato15.b/to15v5.m
Meth Date : 20-Sep-2012 12:17 wrd Quant Type: ISTD
Cal Date : 19-SEP-2012 18:19 Cal File: cla008.d
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
1 Propene	41	4.208	4.208	(0.349)	240709	15.0000	14
2 Dichlorodifluoromethane	85	4.298	4.304	(0.356)	1381719	15.0000	15
3 Chlorodifluoromethane	51	4.357	4.363	(0.361)	601239	15.0000	15
4 1,2-Dichloro-1,1,2,2-tetraflu	85	4.645	4.651	(0.385)	1371532	15.0000	15
5 Chloromethane	50	4.806	4.811	(0.398)	288654	15.0000	15
6 Butane	43	5.072	5.078	(0.420)	493310	15.0000	15
7 Vinyl chloride	62	5.115	5.115	(0.424)	385411	15.0000	15
8 1,3-Butadiene	54	5.211	5.216	(0.432)	271031	15.0000	15
9 Bromomethane	94	5.996	5.990	(0.497)	432538	15.0000	15
10 Chloroethane	64	6.268	6.268	(0.520)	191726	15.0000	15
11 2-Methylbutane	43	6.380	6.380	(0.529)	358035	15.0000	15
12 Vinyl bromide	106	6.711	6.711	(0.556)	503828	15.0000	15
13 Trichlorofluoromethane	101	6.844	6.844	(0.567)	1450350	15.0000	15
14 Pentane	43	7.010	7.010	(0.581)	575686	15.0000	15

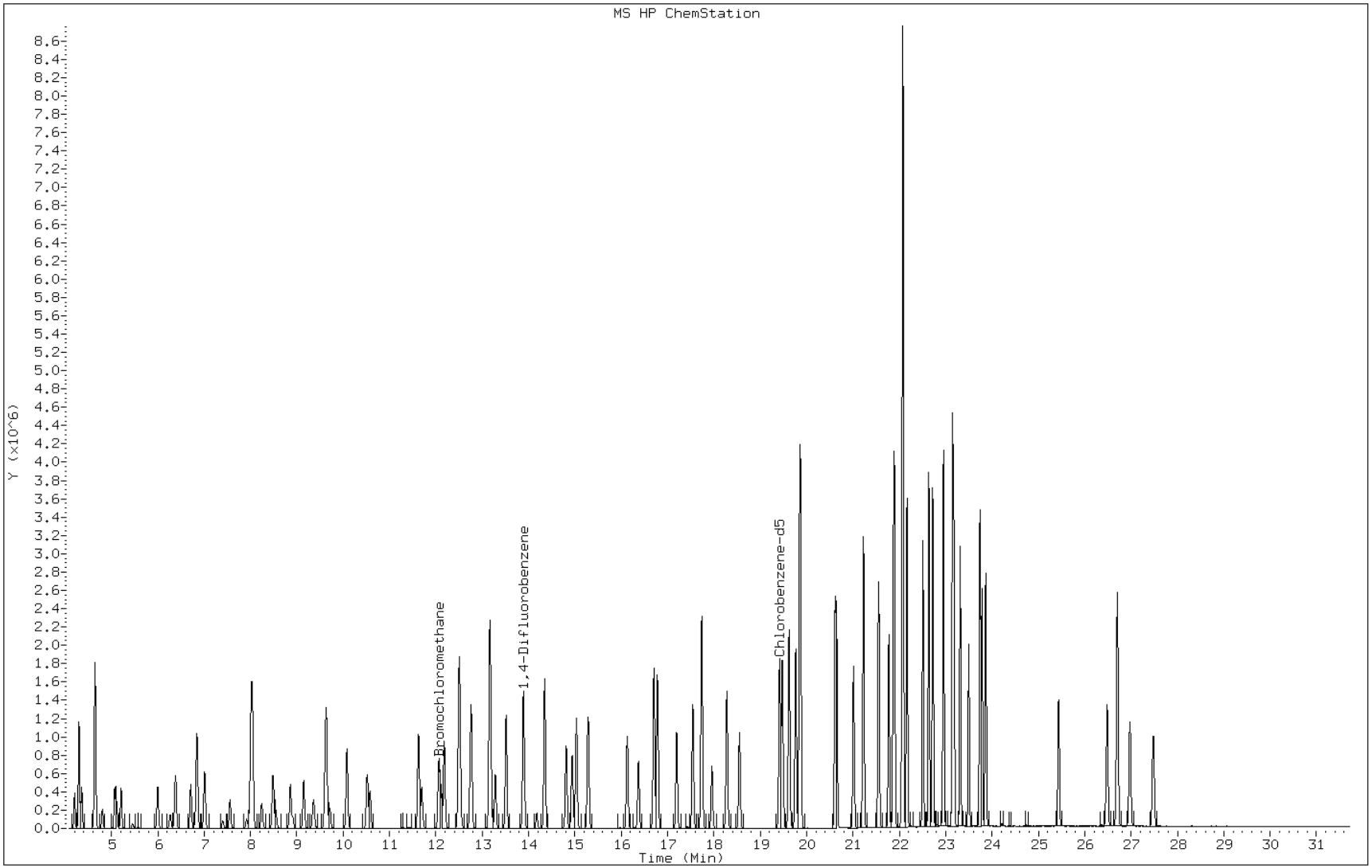
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	7.405	7.522	(0.614)	125129	20.0000	21(H)
	16 Ethyl ether	59	7.559	7.565	(0.627)	269248	15.0000	15(Q)
	17 1,1,2-Trichloro-1,2,2-trifluo	101	8.013	8.018	(0.664)	1012000	15.0000	15
	18 Acrolein	56	7.912	7.917	(0.656)	119764	15.0000	16
	19 1,1-Dichloroethene	96	8.050	8.050	(0.667)	475934	15.0000	15
	20 Acetone	43	8.242	8.248	(0.683)	494441	15.0000	14
	21 Carbon disulfide	76	8.488	8.488	(0.704)	1248619	15.0000	15
	22 Isopropanol	45	8.547	8.632	(0.708)	341205	15.0000	15
	23 Allyl chloride	41	8.856	8.862	(0.734)	433878	15.0000	15(M)
	24 Acetonitrile	41	8.910	8.915	(0.739)	177606	15.0000	15(QM)
	25 Methylene chloride	49	9.150	9.150	(0.758)	370626	15.0000	15
	26 Tert-butyl alcohol	59	9.358	9.433	(0.776)	592060	15.0000	14
	27 Methyl tert-butyl ether	73	9.619	9.619	(0.797)	1332718	15.0000	15
	28 1,2-Dichloroethene (trans)	61	9.641	9.641	(0.799)	623725	15.0000	15
	29 Acrylonitrile	53	9.710	9.715	(0.805)	228311	15.0000	15
	30 n-Hexane	57	10.078	10.084	(0.835)	632476	15.0000	15
	31 1,1-Dichloroethane	63	10.521	10.521	(0.872)	794063	15.0000	15
	32 Vinyl acetate	43	10.580	10.580	(0.877)	806141	15.0000	15
M	33 1,2-Dichloroethene,Total	61				1175659	30.0000	30
	34 1,2-Dichloroethene (cis)	96	11.621	11.621	(0.963)	551934	15.0000	15
	35 Ethyl acetate	88	11.695	11.701	(0.969)	42274	15.0000	15
	36 Methyl Ethyl Ketone	72	11.637	11.642	(0.965)	201183	15.0000	14
*	37 Bromochloromethane	128	12.064	12.069	(1.000)	363996	10.0000	
	38 Tetrahydrofuran	42	12.112	12.117	(0.872)	339410	15.0000	15
	39 Chloroform	83	12.181	12.186	(1.010)	1082691	15.0000	15
	40 Cyclohexane	84	12.523	12.523	(0.902)	750617	15.0000	15
	41 1,1,1-Trichloroethane	97	12.496	12.501	(0.900)	1266025	15.0000	15
	42 Carbon tetrachloride	117	12.758	12.758	(0.919)	1336819	15.0000	15
	43 2,2,4-Trimethylpentane	57	13.174	13.174	(0.948)	2044663	15.0000	15
	44 Benzene	78	13.163	13.163	(0.948)	1528525	15.0000	15
	45 1,2-Dichloroethane	62	13.281	13.286	(0.956)	724886	15.0000	15
	46 n-Heptane	43	13.521	13.515	(0.973)	661406	15.0000	15
*	47 1,4-Difluorobenzene	114	13.889	13.894	(1.000)	2009988	10.0000	
	48 n-Butanol	56	14.177	14.204	(1.021)	138515	15.0000	14
	49 Trichloroethene	95	14.348	14.348	(1.033)	768229	15.0000	15
	50 1,2-Dichloropropane	63	14.812	14.812	(1.066)	476419	15.0000	15
	51 Methyl methacrylate	69	14.940	14.946	(1.076)	453064	15.0000	16
	52 Dibromomethane	174	15.036	15.036	(1.083)	701622	15.0000	15
	53 1,4-Dioxane	88	15.010	15.020	(1.081)	201471	15.0000	15
	54 Bromodichloromethane	83	15.282	15.293	(1.100)	1232475	15.0000	16
	55 1,3-Dichloropropene (cis)	75	16.130	16.136	(1.161)	877661	15.0000	16
	56 Methyl isobutyl ketone	43	16.371	16.381	(1.179)	658002	15.0000	15
	57 n-Octane	43	16.782	16.782	(1.208)	929163	15.0000	15
	58 Toluene	92	16.707	16.707	(0.860)	1274946	15.0000	15
	59 1,3-Dichloropropene (trans)	75	17.192	17.203	(1.238)	903933	15.0000	15
	60 1,1,2-Trichloroethane	83	17.545	17.550	(0.904)	538446	15.0000	15
	61 Tetrachloroethene	166	17.737	17.737	(0.913)	1154912	15.0000	15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	17.956	17.966	(0.925)	600613	15.0000	15
	63 Dibromochloromethane	129	18.281	18.287	(0.941)	1337492	15.0000	16
	64 1,2-Dibromoethane	107	18.548	18.553	(0.955)	1147671	15.0000	15
*	65 Chlorobenzene-d5	117	19.418	19.418	(1.000)	1899016	10.0000	
	66 Chlorobenzene	112	19.477	19.477	(1.003)	1842917	15.0000	15
	67 n-Nonane	57	19.765	19.765	(1.018)	964240	15.0000	15
	68 Ethylbenzene	91	19.621	19.626	(1.010)	2616312	15.0000	15
	69 Xylene (m,p)	106	19.861	19.861	(1.023)	2293077	30.0000	30
M	70 Xylenes, Total	106				3402742	15.0000	45
	71 Xylene (o)	106	20.613	20.619	(1.062)	1109665	15.0000	15
	72 Styrene	104	20.651	20.651	(1.063)	1686157	15.0000	16
	73 Bromoform	173	21.014	21.014	(1.082)	1222980	15.0000	16
	74 Isopropylbenzene	105	21.227	21.227	(1.093)	3140417	15.0000	15
	75 1,1,2,2-Tetrachloroethane	83	21.772	21.772	(1.121)	1305621	15.0000	15
	76 n-Propylbenzene	91	21.894	21.889	(1.128)	3465692	15.0000	15
	77 1,2,3-Trichloropropane	75	21.873	21.873	(1.126)	1039035	15.0000	15
	78 n-Decane	57	22.070	22.070	(1.137)	1174586	15.0000	16
	79 4-Ethyltoluene	105	22.065	22.070	(1.136)	3175846	15.0000	16
	80 2-Chlorotoluene	91	22.076	22.076	(1.137)	2523779	15.0000	15
	81 1,3,5-Trimethylbenzene	105	22.166	22.166	(1.142)	2636629	15.0000	15
	82 Alpha Methyl Styrene	118	22.508	22.508	(1.159)	1328653	15.0000	16
	83 tert-butylbenzene	119	22.636	22.636	(1.166)	2647394	15.0000	15
	84 1,2,4-Trimethylbenzene	105	22.721	22.722	(1.170)	2586587	15.0000	16
	85 sec-Butylbenzene	105	22.951	22.951	(1.182)	3720224	15.0000	15
	86 4-Isopropyltoluene	119	23.148	23.148	(1.192)	3294258	15.0000	16
	87 1,3-Dichlorobenzene	146	23.180	23.180	(1.194)	1832636	15.0000	15
	88 1,4-Dichlorobenzene	146	23.314	23.314	(1.201)	1770622	15.0000	15
	89 Benzyl chloride	91	23.495	23.495	(1.210)	1915856	15.0000	17
	90 Undecane	57	23.784	23.784	(1.225)	1041274	15.0000	16
	91 n-Butylbenzene	91	23.741	23.741	(1.223)	2468766	15.0000	17
	92 1,2-Dichlorobenzene	146	23.864	23.864	(1.229)	1698166	15.0000	15
	93 Dodecane	57	25.438	25.438	(1.310)	622793	15.0000	16
	94 1,2,4-Trichlorobenzene	180	26.484	26.484	(1.364)	743029	15.0000	15
	95 1,3-Hexachlorobutadiene	225	26.708	26.703	(1.375)	825770	15.0000	16
	96 Naphthalene	128	26.975	26.975	(1.389)	1726305	15.0000	16
	97 1,2,3-Trichlorobenzene	180	27.482	27.482	(1.415)	607391	15.0000	15

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File:	cla008.d	Date:	19-SEP-2012 18:19
Client ID:		Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 370603		
Lab Sample ID:	ic 370603		



Manual Integration Report

Data File: cla008.d
Lab Sample ID: ic 370603
Inj. Date and Time: 19-SEP-2012 18:19
Instrument ID: C.i
Client ID:
Compound: 23 Allyl chloride
CAS #: 107-05-1
Report Date: 09/21/2012

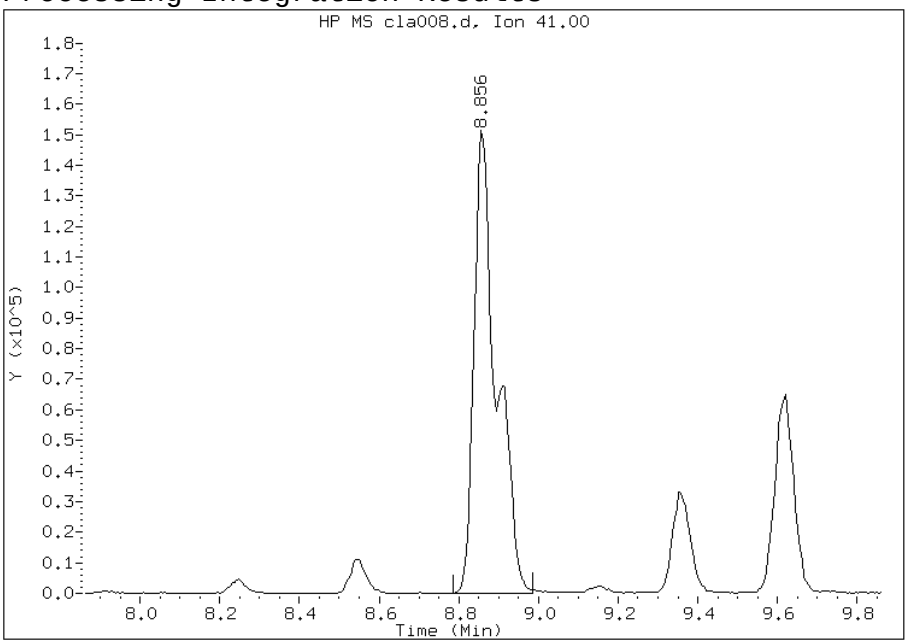
Processing Integration Results

RT: 8.86

Response: 592373

Amount: 18.82

Conc: 18.82



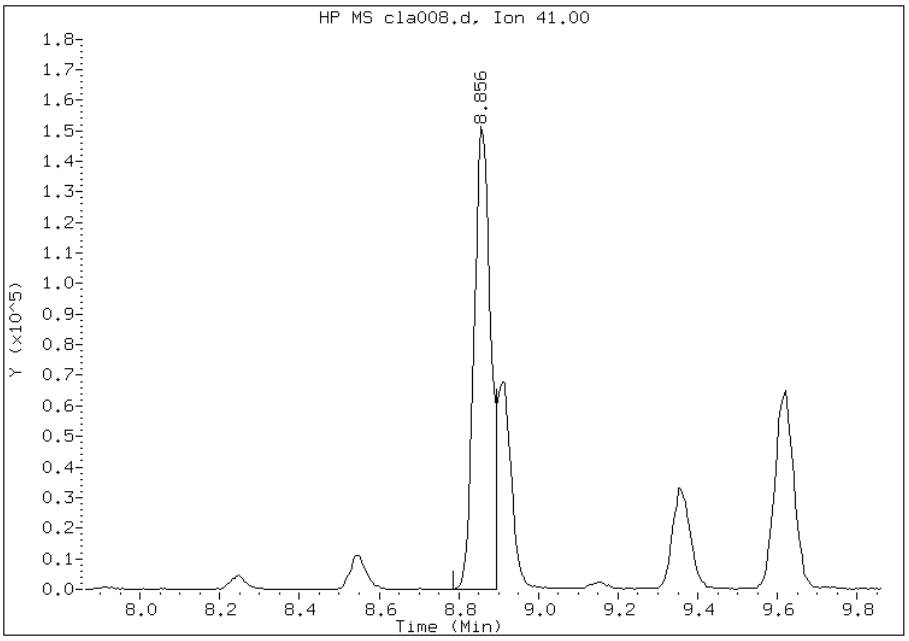
Manual Integration Results

RT: 8.86

Response: 433878

Amount: 15.42

Conc: 15.42



File Uploaded By: wrd
Manual Integration Reason: Baseline event

Manual Integration Report

Data File: cla008.d
Lab Sample ID: ic 370603
Inj. Date and Time: 19-SEP-2012 18:19
Instrument ID: C.i
Client ID:
Compound: 24 Acetonitrile
CAS #: 75-05-8
Report Date: 09/21/2012

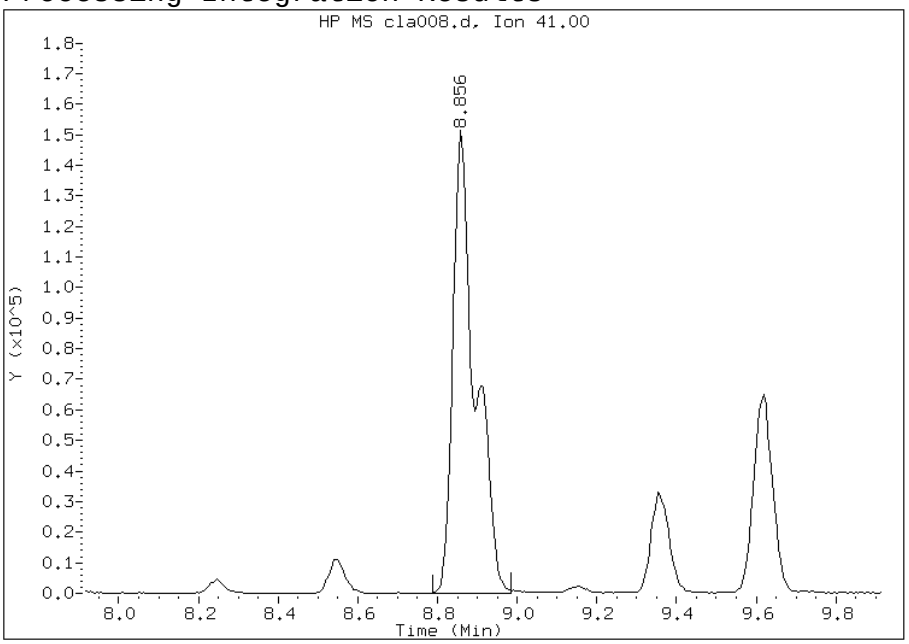
Processing Integration Results

RT: 8.86

Response: 592373

Amount: 23.14

Conc: 23.14



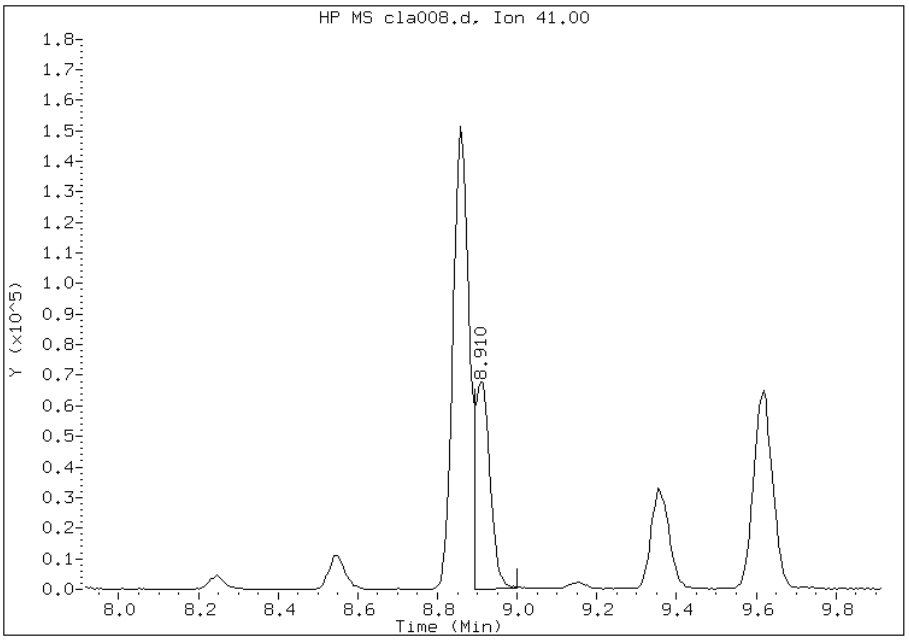
Manual Integration Results

RT: 8.91

Response: 177606

Amount: 14.95

Conc: 14.95



File Uploaded By: wrd
Manual Integration Reason: Baseline event

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/clato15.b/cla009.d
Lab Smp Id: ic 370601
Inj Date : 19-SEP-2012 19:13
Operator : wrd Inst ID: C.i
Smp Info : ic 370601
Misc Info : 200,1,lvl 6
Comment :
Method : /chem/C.i/Csvr.p/clato15.b/to15v5.m
Meth Date : 20-Sep-2012 12:17 wrd Quant Type: ISTD
Cal Date : 19-SEP-2012 19:13 Cal File: cla009.d
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
1 Propene	41	4.208	4.208	(0.349)	322487	20.0000	19
2 Dichlorodifluoromethane	85	4.298	4.304	(0.356)	1848798	20.0000	19
3 Chlorodifluoromethane	51	4.357	4.363	(0.361)	803345	20.0000	19
4 1,2-Dichloro-1,1,2,2-tetraflu	85	4.645	4.651	(0.385)	1849373	20.0000	20
5 Chloromethane	50	4.806	4.811	(0.398)	389708	20.0000	19
6 Butane	43	5.072	5.078	(0.420)	689807	20.0000	20
7 Vinyl chloride	62	5.110	5.115	(0.424)	535916	20.0000	20
8 1,3-Butadiene	54	5.211	5.216	(0.432)	378959	20.0000	21
9 Bromomethane	94	5.996	5.990	(0.497)	581314	20.0000	20
10 Chloroethane	64	6.273	6.268	(0.520)	266922	20.0000	20
11 2-Methylbutane	43	6.380	6.380	(0.529)	486760	20.0000	20
12 Vinyl bromide	106	6.711	6.711	(0.556)	687589	20.0000	20
13 Trichlorofluoromethane	101	6.844	6.844	(0.567)	1948983	20.0000	20
14 Pentane	43	7.010	7.010	(0.581)	780237	20.0000	20

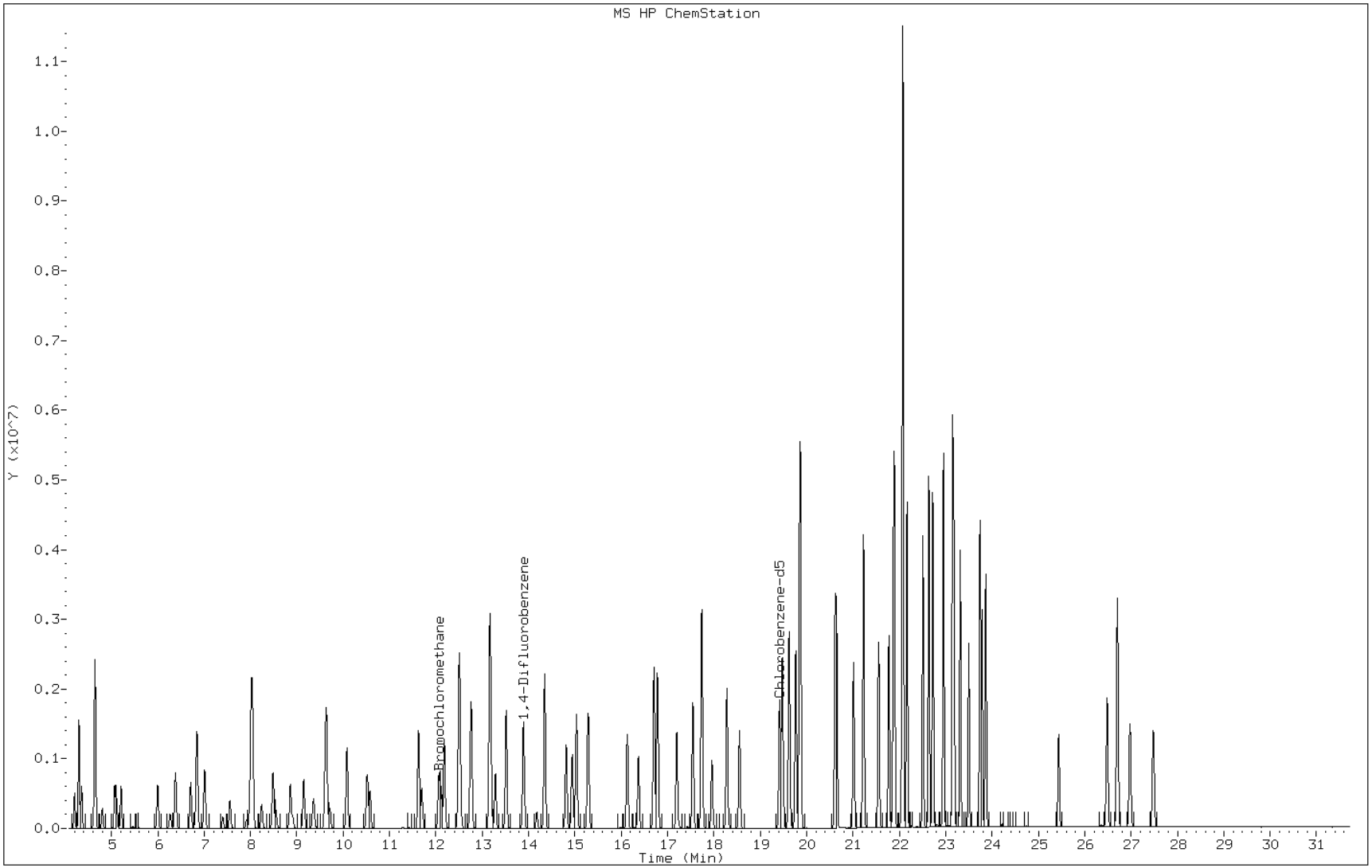
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	7.399	7.522	(0.613)	249380	40.0000	41(H)
	16 Ethyl ether	59	7.554	7.565	(0.626)	356331	20.0000	20(Q)
	17 1,1,2-Trichloro-1,2,2-trifluo	101	8.018	8.018	(0.665)	1375528	20.0000	20
	18 Acrolein	56	7.917	7.917	(0.656)	153406	20.0000	20
	19 1,1-Dichloroethene	96	8.050	8.050	(0.667)	650100	20.0000	20
	20 Acetone	43	8.242	8.248	(0.683)	625823	20.0000	18
	21 Carbon disulfide	76	8.488	8.488	(0.704)	1700721	20.0000	20
	22 Isopropanol	45	8.547	8.632	(0.708)	451943	20.0000	19
	23 Allyl chloride	41	8.862	8.862	(0.735)	576360	20.0000	20(M)
	24 Acetonitrile	41	8.899	8.915	(0.738)	227839	20.0000	19(QM)
	25 Methylene chloride	49	9.150	9.150	(0.758)	495108	20.0000	19
	26 Tert-butyl alcohol	59	9.358	9.433	(0.776)	820654	20.0000	19
	27 Methyl tert-butyl ether	73	9.619	9.619	(0.797)	1753371	20.0000	19
	28 1,2-Dichloroethene (trans)	61	9.641	9.641	(0.799)	846787	20.0000	20
	29 Acrylonitrile	53	9.710	9.715	(0.805)	296511	20.0000	19
	30 n-Hexane	57	10.084	10.084	(0.836)	852243	20.0000	20
	31 1,1-Dichloroethane	63	10.521	10.521	(0.872)	1062707	20.0000	20
	32 Vinyl acetate	43	10.580	10.580	(0.877)	1043754	20.0000	19
M	33 1,2-Dichloroethene,Total	61				1603281	40.0000	40
	34 1,2-Dichloroethene (cis)	96	11.621	11.621	(0.963)	756494	20.0000	20
	35 Ethyl acetate	88	11.695	11.701	(0.969)	57869	20.0000	20
	36 Methyl Ethyl Ketone	72	11.637	11.642	(0.965)	262980	20.0000	18
*	37 Bromochloromethane	128	12.064	12.069	(1.000)	372372	10.0000	
	38 Tetrahydrofuran	42	12.112	12.117	(0.872)	443042	20.0000	19
	39 Chloroform	83	12.181	12.186	(1.010)	1464006	20.0000	20
	40 Cyclohexane	84	12.517	12.523	(0.901)	1015614	20.0000	20
	41 1,1,1-Trichloroethane	97	12.501	12.501	(0.900)	1713778	20.0000	20
	42 Carbon tetrachloride	117	12.758	12.758	(0.918)	1816943	20.0000	20
	43 2,2,4-Trimethylpentane	57	13.174	13.174	(0.948)	2784868	20.0000	20
	44 Benzene	78	13.163	13.163	(0.947)	2084437	20.0000	20
	45 1,2-Dichloroethane	62	13.281	13.286	(0.956)	969322	20.0000	19
	46 n-Heptane	43	13.515	13.515	(0.973)	898896	20.0000	20
*	47 1,4-Difluorobenzene	114	13.894	13.894	(1.000)	2055330	10.0000	
	48 n-Butanol	56	14.177	14.204	(1.020)	197440	20.0000	20
	49 Trichloroethene	95	14.348	14.348	(1.033)	1052034	20.0000	20
	50 1,2-Dichloropropane	63	14.812	14.812	(1.066)	639992	20.0000	20
	51 Methyl methacrylate	69	14.940	14.946	(1.075)	603767	20.0000	21
	52 Dibromomethane	174	15.036	15.036	(1.082)	953828	20.0000	20
	53 1,4-Dioxane	88	15.010	15.020	(1.080)	270493	20.0000	19
	54 Bromodichloromethane	83	15.287	15.293	(1.100)	1660565	20.0000	21
	55 1,3-Dichloropropene (cis)	75	16.130	16.136	(1.161)	1178210	20.0000	20
	56 Methyl isobutyl ketone	43	16.371	16.381	(1.178)	904495	20.0000	21
	57 n-Octane	43	16.782	16.782	(1.208)	1230630	20.0000	20
	58 Toluene	92	16.707	16.707	(0.860)	1693003	20.0000	19
	59 1,3-Dichloropropene (trans)	75	17.198	17.203	(1.238)	1194928	20.0000	20
	60 1,1,2-Trichloroethane	83	17.545	17.550	(0.904)	713423	20.0000	20
	61 Tetrachloroethene	166	17.737	17.737	(0.913)	1564542	20.0000	20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	17.956	17.966	(0.925)	874173	20.0000	21
	63 Dibromochloromethane	129	18.281	18.287	(0.941)	1808049	20.0000	21
	64 1,2-Dibromoethane	107	18.548	18.553	(0.955)	1541004	20.0000	21
*	65 Chlorobenzene-d5	117	19.418	19.418	(1.000)	1907775	10.0000	
	66 Chlorobenzene	112	19.477	19.477	(1.003)	2460032	20.0000	20
	67 n-Nonane	57	19.765	19.765	(1.018)	1276870	20.0000	20
	68 Ethylbenzene	91	19.621	19.626	(1.010)	3475459	20.0000	20
	69 Xylene (m,p)	106	19.861	19.861	(1.023)	3032623	40.0000	39
M	70 Xylenes, Total	106				4492006	20.0000	59
	71 Xylene (o)	106	20.613	20.619	(1.062)	1459383	20.0000	19
	72 Styrene	104	20.651	20.651	(1.063)	2232443	20.0000	21
	73 Bromoform	173	21.014	21.014	(1.082)	1638280	20.0000	21
	74 Isopropylbenzene	105	21.227	21.227	(1.093)	4159880	20.0000	20
	75 1,1,2,2-Tetrachloroethane	83	21.772	21.772	(1.121)	1737445	20.0000	20
	76 n-Propylbenzene	91	21.894	21.889	(1.128)	4559882	20.0000	20
	77 1,2,3-Trichloropropane	75	21.873	21.873	(1.126)	1360645	20.0000	19
	78 n-Decane	57	22.076	22.070	(1.137)	1516571	20.0000	20
	79 4-Ethyltoluene	105	22.070	22.070	(1.137)	4157221	20.0000	20
	80 2-Chlorotoluene	91	22.076	22.076	(1.137)	3325250	20.0000	20
	81 1,3,5-Trimethylbenzene	105	22.166	22.166	(1.142)	3455134	20.0000	20
	82 Alpha Methyl Styrene	118	22.508	22.508	(1.159)	1813856	20.0000	22
	83 tert-butylbenzene	119	22.636	22.636	(1.166)	3470227	20.0000	20
	84 1,2,4-Trimethylbenzene	105	22.721	22.722	(1.170)	3363539	20.0000	20
	85 sec-Butylbenzene	105	22.951	22.951	(1.182)	4889052	20.0000	20
	86 4-Isopropyltoluene	119	23.148	23.148	(1.192)	4323424	20.0000	21
	87 1,3-Dichlorobenzene	146	23.180	23.180	(1.194)	2394037	20.0000	20
	88 1,4-Dichlorobenzene	146	23.314	23.314	(1.201)	2325511	20.0000	20
	89 Benzyl chloride	91	23.501	23.495	(1.210)	2538026	20.0000	22
	90 Undecane	57	23.784	23.784	(1.225)	1237015	20.0000	18
	91 n-Butylbenzene	91	23.741	23.741	(1.223)	3180248	20.0000	21
	92 1,2-Dichlorobenzene	146	23.864	23.864	(1.229)	2226004	20.0000	20
	93 Dodecane	57	25.438	25.438	(1.310)	592763	20.0000	15
	94 1,2,4-Trichlorobenzene	180	26.484	26.484	(1.364)	1034945	20.0000	21
	95 1,3-Hexachlorobutadiene	225	26.708	26.703	(1.375)	1077978	20.0000	20
	96 Naphthalene	128	26.975	26.975	(1.389)	2265061	20.0000	21
	97 1,2,3-Trichlorobenzene	180	27.477	27.482	(1.415)	845782	20.0000	21

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File:	cla009.d	Date:	19-SEP-2012 19:13
Client ID:		Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 370601		
Lab Sample ID:	ic 370601		



Manual Integration Report

Data File: cla009.d
Lab Sample ID: ic 370601
Inj. Date and Time: 19-SEP-2012 19:13
Instrument ID: C.i
Client ID:
Compound: 23 Allyl chloride
CAS #: 107-05-1
Report Date: 09/21/2012

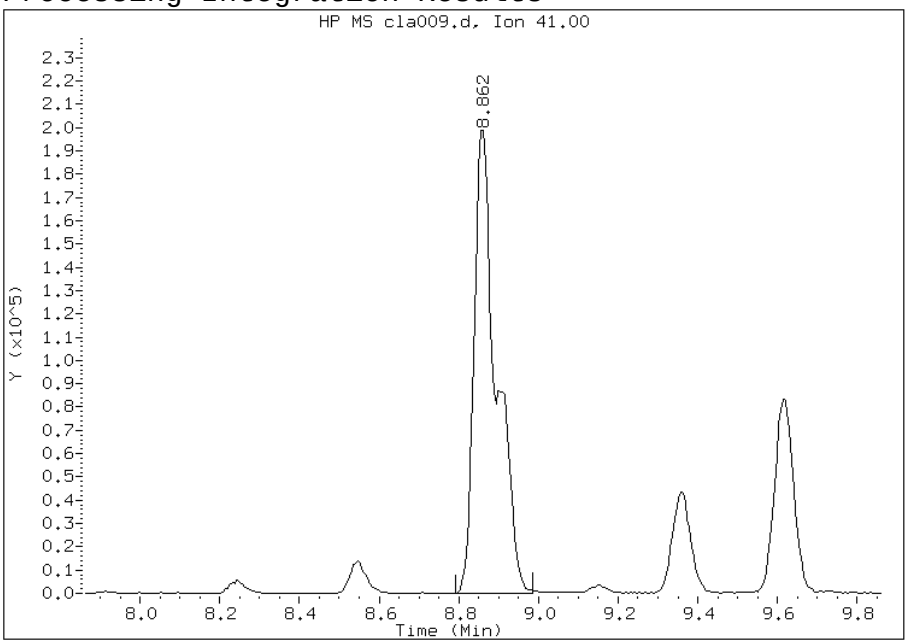
Processing Integration Results

RT: 8.86

Response: 778899

Amount: 25.62

Conc: 25.62



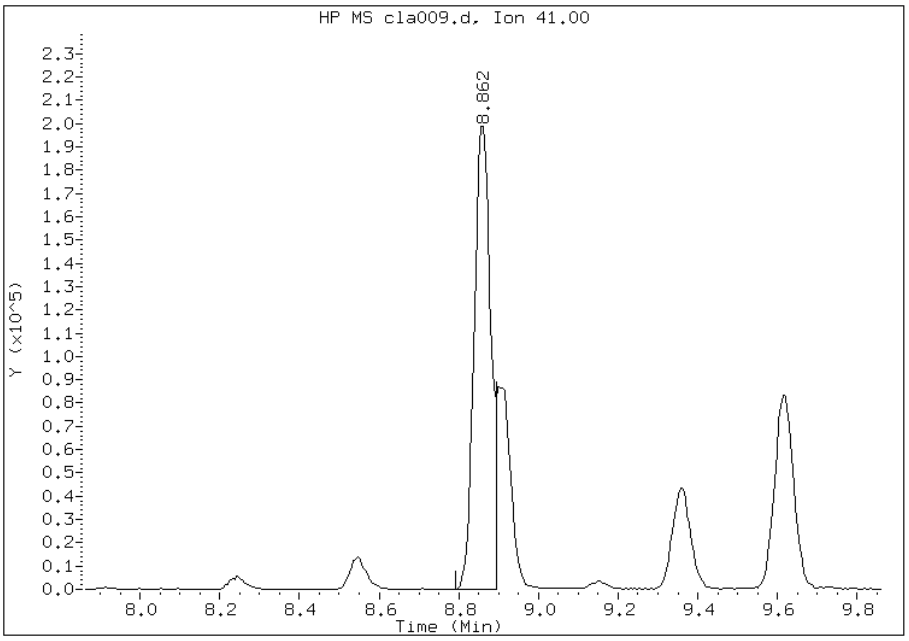
Manual Integration Results

RT: 8.86

Response: 576360

Amount: 20.03

Conc: 20.03



File Uploaded By: wrd
Manual Integration Reason: Baseline event

Manual Integration Report

Data File: cla009.d
Lab Sample ID: ic 370601
Inj. Date and Time: 19-SEP-2012 19:13
Instrument ID: C.i
Client ID:
Compound: 24 Acetonitrile
CAS #: 75-05-8
Report Date: 09/21/2012

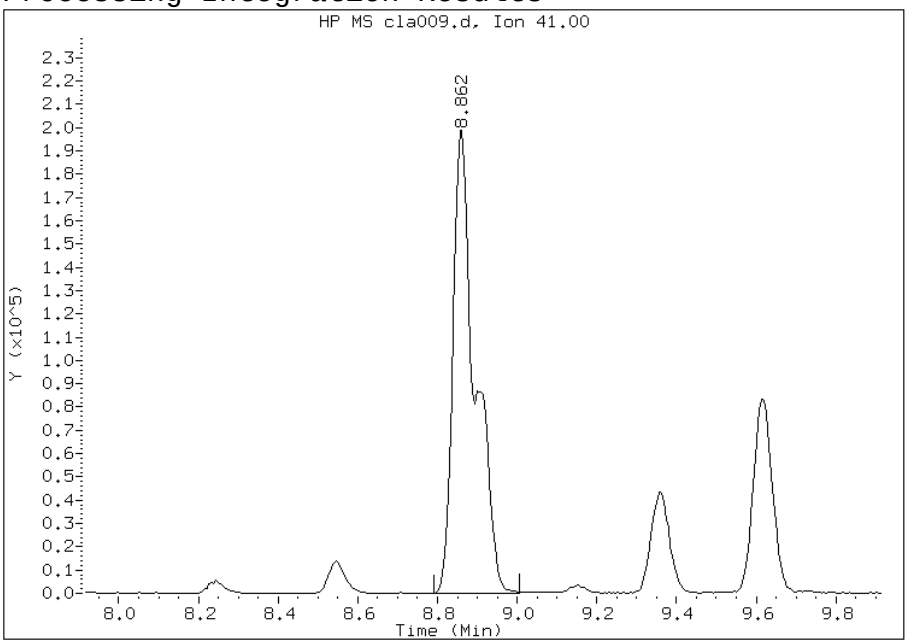
Processing Integration Results

RT: 8.86

Response: 779901

Amount: 40.81

Conc: 40.81



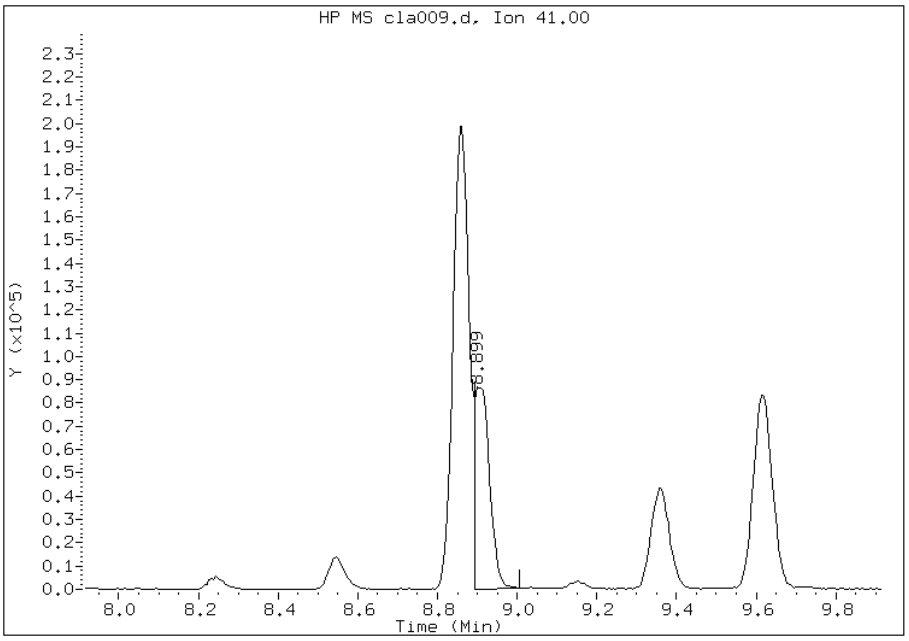
Manual Integration Results

RT: 8.90

Response: 227839

Amount: 18.74

Conc: 18.74



File Uploaded By: wrd
Manual Integration Reason: Baseline event

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/clato15.b/cla010.d
Lab Smp Id: ic 370600
Inj Date : 19-SEP-2012 20:06
Operator : wrd Inst ID: C.i
Smp Info : ic 370600
Misc Info : 200,1,lvl 7
Comment :
Method : /chem/C.i/Csvr.p/clato15.b/to15v5.m
Meth Date : 20-Sep-2012 12:17 wrd Quant Type: ISTD
Cal Date : 19-SEP-2012 20:06 Cal File: cla010.d
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
1 Propene	41	4.208	4.208	(0.349)	641267	40.0000	36
2 Dichlorodifluoromethane	85	4.304	4.304	(0.357)	3697858	40.0000	38
3 Chlorodifluoromethane	51	4.363	4.363	(0.361)	1604598	40.0000	37
4 1,2-Dichloro-1,1,2,2-tetraflu	85	4.645	4.651	(0.385)	3742168	40.0000	38
5 Chloromethane	50	4.806	4.811	(0.398)	781560	40.0000	37
6 Butane	43	5.072	5.078	(0.420)	1386830	40.0000	39
7 Vinyl chloride	62	5.115	5.115	(0.424)	1090220	40.0000	39
8 1,3-Butadiene	54	5.211	5.216	(0.432)	770069	40.0000	40(A)
9 Bromomethane	94	6.001	5.990	(0.497)	1180608	40.0000	38
10 Chloroethane	64	6.273	6.268	(0.520)	536749	40.0000	40
11 2-Methylbutane	43	6.385	6.380	(0.529)	992114	40.0000	39
12 Vinyl bromide	106	6.716	6.711	(0.556)	1412470	40.0000	40(A)
13 Trichlorofluoromethane	101	6.844	6.844	(0.567)	3955951	40.0000	38
14 Pentane	43	7.015	7.010	(0.581)	1562391	40.0000	39

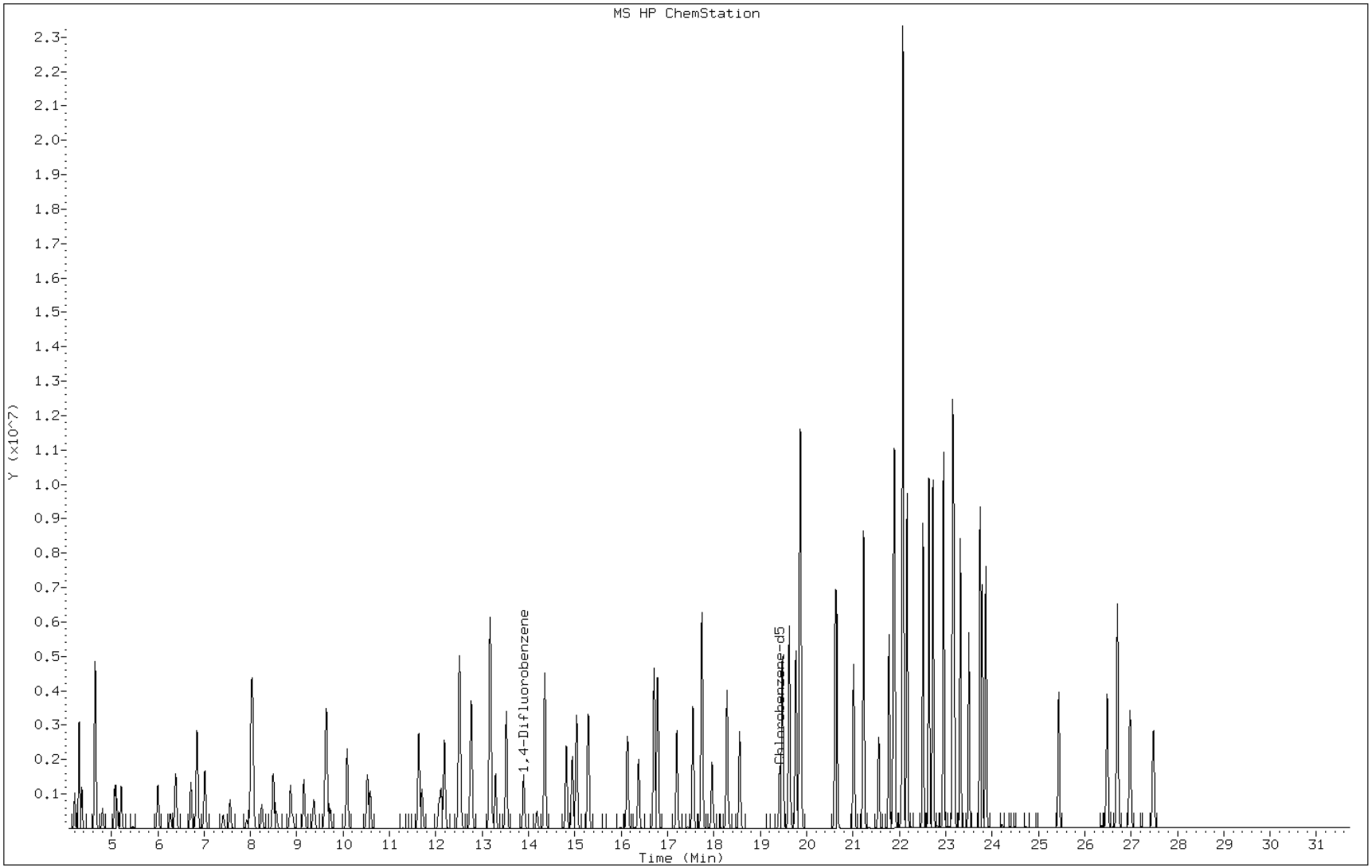
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	7.410	7.522	(0.614)	644074	100.000	100(AH)
	16 Ethyl ether	59	7.559	7.565	(0.626)	725646	40.0000	39(Q)
	17 1,1,2-Trichloro-1,2,2-trifluo	101	8.018	8.018	(0.664)	2788917	40.0000	39
	18 Acrolein	56	7.917	7.917	(0.656)	316258	40.0000	39
	19 1,1-Dichloroethene	96	8.050	8.050	(0.667)	1328987	40.0000	39
	20 Acetone	43	8.242	8.248	(0.683)	1251382	40.0000	34
	21 Carbon disulfide	76	8.488	8.488	(0.703)	3447482	40.0000	40
	22 Isopropanol	45	8.557	8.632	(0.709)	918012	40.0000	37
	23 Allyl chloride	41	8.862	8.862	(0.734)	1171543	40.0000	39(M)
	24 Acetonitrile	41	8.910	8.915	(0.738)	456642	40.0000	36(QM)
	25 Methylene chloride	49	9.150	9.150	(0.758)	987568	40.0000	37
	26 Tert-butyl alcohol	59	9.369	9.433	(0.776)	1625761	40.0000	37
	27 Methyl tert-butyl ether	73	9.619	9.619	(0.797)	3548859	40.0000	38
	28 1,2-Dichloroethene (trans)	61	9.646	9.641	(0.799)	1696084	40.0000	39
	29 Acrylonitrile	53	9.715	9.715	(0.805)	618100	40.0000	39
	30 n-Hexane	57	10.084	10.084	(0.836)	1718252	40.0000	39
	31 1,1-Dichloroethane	63	10.521	10.521	(0.872)	2134273	40.0000	38
	32 Vinyl acetate	43	10.585	10.580	(0.877)	2142365	40.0000	38
M	33 1,2-Dichloroethene,Total	61				3224637	80.0000	77
	34 1,2-Dichloroethene (cis)	96	11.626	11.621	(0.963)	1528553	40.0000	38
	35 Ethyl acetate	88	11.701	11.701	(0.969)	116417	40.0000	38
	36 Methyl Ethyl Ketone	72	11.642	11.642	(0.965)	537176	40.0000	36
*	37 Bromochloromethane	128	12.069	12.069	(1.000)	385808	10.0000	
	38 Tetrahydrofuran	42	12.112	12.117	(0.872)	880793	40.0000	38
	39 Chloroform	83	12.186	12.186	(1.010)	2968545	40.0000	38
	40 Cyclohexane	84	12.523	12.523	(0.901)	2067088	40.0000	41(A)
	41 1,1,1-Trichloroethane	97	12.501	12.501	(0.900)	3466033	40.0000	39
	42 Carbon tetrachloride	117	12.763	12.758	(0.919)	3720266	40.0000	41(A)
	43 2,2,4-Trimethylpentane	57	13.179	13.174	(0.949)	5625336	40.0000	41(A)
	44 Benzene	78	13.163	13.163	(0.947)	4225948	40.0000	40
	45 1,2-Dichloroethane	62	13.286	13.286	(0.956)	1935754	40.0000	38
	46 n-Heptane	43	13.521	13.515	(0.973)	1777359	40.0000	39
*	47 1,4-Difluorobenzene	114	13.894	13.894	(1.000)	2077039	10.0000	
	48 n-Butanol	56	14.182	14.204	(1.021)	418058	40.0000	41(A)
	49 Trichloroethene	95	14.348	14.348	(1.033)	2130487	40.0000	40
	50 1,2-Dichloropropane	63	14.812	14.812	(1.066)	1273248	40.0000	39
	51 Methyl methacrylate	69	14.946	14.946	(1.076)	1237573	40.0000	42(A)
	52 Dibromomethane	174	15.042	15.036	(1.083)	1933404	40.0000	40(A)
	53 1,4-Dioxane	88	15.015	15.020	(1.081)	528949	40.0000	37
	54 Bromodichloromethane	83	15.287	15.293	(1.100)	3353191	40.0000	41(A)
	55 1,3-Dichloropropene (cis)	75	16.136	16.136	(1.161)	2375427	40.0000	41(A)
	56 Methyl isobutyl ketone	43	16.376	16.381	(1.179)	1777191	40.0000	40
	57 n-Octane	43	16.782	16.782	(1.208)	2450155	40.0000	38
	58 Toluene	92	16.707	16.707	(0.860)	3435067	40.0000	40(A)
	59 1,3-Dichloropropene (trans)	75	17.198	17.203	(1.238)	2451562	40.0000	40(A)
	60 1,1,2-Trichloroethane	83	17.545	17.550	(0.904)	1432755	40.0000	40(A)
	61 Tetrachloroethene	166	17.742	17.737	(0.914)	3169841	40.0000	40(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	17.961	17.966	(0.925)	1702199	40.0000	43(A)
	63 Dibromochloromethane	129	18.281	18.287	(0.941)	3689260	40.0000	44(A)
	64 1,2-Dibromoethane	107	18.553	18.553	(0.955)	3110623	40.0000	42(A)
*	65 Chlorobenzene-d5	117	19.418	19.418	(1.000)	1872246	10.0000	
	66 Chlorobenzene	112	19.477	19.477	(1.003)	5023890	40.0000	41(A)
	67 n-Nonane	57	19.770	19.765	(1.018)	2624795	40.0000	41(A)
	68 Ethylbenzene	91	19.626	19.626	(1.011)	7212048	40.0000	41(A)
	69 Xylene (m,p)	106	19.861	19.861	(1.023)	6322862	80.0000	84(A)
M	70 Xylenes, Total	106				9339151	40.0000	120
	71 Xylene (o)	106	20.619	20.619	(1.062)	3016289	40.0000	41(A)
	72 Styrene	104	20.651	20.651	(1.063)	4808739	40.0000	47(A)
	73 Bromoform	173	21.014	21.014	(1.082)	3367536	40.0000	45(A)
	74 Isopropylbenzene	105	21.227	21.227	(1.093)	8717952	40.0000	42(A)
	75 1,1,2,2-Tetrachloroethane	83	21.777	21.772	(1.121)	3536720	40.0000	41(A)
	76 n-Propylbenzene	91	21.894	21.889	(1.128)	9637520	40.0000	43(A)
	77 1,2,3-Trichloropropane	75	21.873	21.873	(1.126)	2772107	40.0000	40
	78 n-Decane	57	22.076	22.070	(1.137)	3089654	40.0000	41(A)
	79 4-Ethyltoluene	105	22.070	22.070	(1.137)	8753328	40.0000	44(A)
	80 2-Chlorotoluene	91	22.081	22.076	(1.137)	6871216	40.0000	42(A)
	81 1,3,5-Trimethylbenzene	105	22.166	22.166	(1.142)	7313305	40.0000	43(A)
	82 Alpha Methyl Styrene	118	22.513	22.508	(1.159)	3889527	40.0000	48(A)
	83 tert-butylbenzene	119	22.641	22.636	(1.166)	7341232	40.0000	42(A)
	84 1,2,4-Trimethylbenzene	105	22.727	22.722	(1.170)	7183813	40.0000	44(A)
	85 sec-Butylbenzene	105	22.951	22.951	(1.182)	10309213	40.0000	43(A)
	86 4-Isopropyltoluene	119	23.148	23.148	(1.192)	9194227	40.0000	45(A)
	87 1,3-Dichlorobenzene	146	23.180	23.180	(1.194)	5093670	40.0000	43(A)
	88 1,4-Dichlorobenzene	146	23.314	23.314	(1.201)	4976418	40.0000	43(A)
	89 Benzyl chloride	91	23.501	23.495	(1.210)	5458657	40.0000	49(A)
	90 Undecane	57	23.784	23.784	(1.225)	2864108	40.0000	44(A)
	91 n-Butylbenzene	91	23.741	23.741	(1.223)	6831951	40.0000	46(A)
	92 1,2-Dichlorobenzene	146	23.869	23.864	(1.229)	4703654	40.0000	43(A)
	93 Dodecane	57	25.438	25.438	(1.310)	1795265	40.0000	46(A)
	94 1,2,4-Trichlorobenzene	180	26.484	26.484	(1.364)	2172499	40.0000	45(A)
	95 1,3-Hexachlorobutadiene	225	26.708	26.703	(1.375)	2154342	40.0000	41(A)
	96 Naphthalene	128	26.975	26.975	(1.389)	5229031	40.0000	50(A)
	97 1,2,3-Trichlorobenzene	180	27.482	27.482	(1.415)	1715485	40.0000	44(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File:	cla010.d	Date:	19-SEP-2012 20:06
Client ID:		Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 370600		
Lab Sample ID:	ic 370600		



Manual Integration Report

Data File: cla010.d
Lab Sample ID: ic 370600
Inj. Date and Time: 19-SEP-2012 20:06
Instrument ID: C.i
Client ID:
Compound: 23 Allyl chloride
CAS #: 107-05-1
Report Date: 09/21/2012

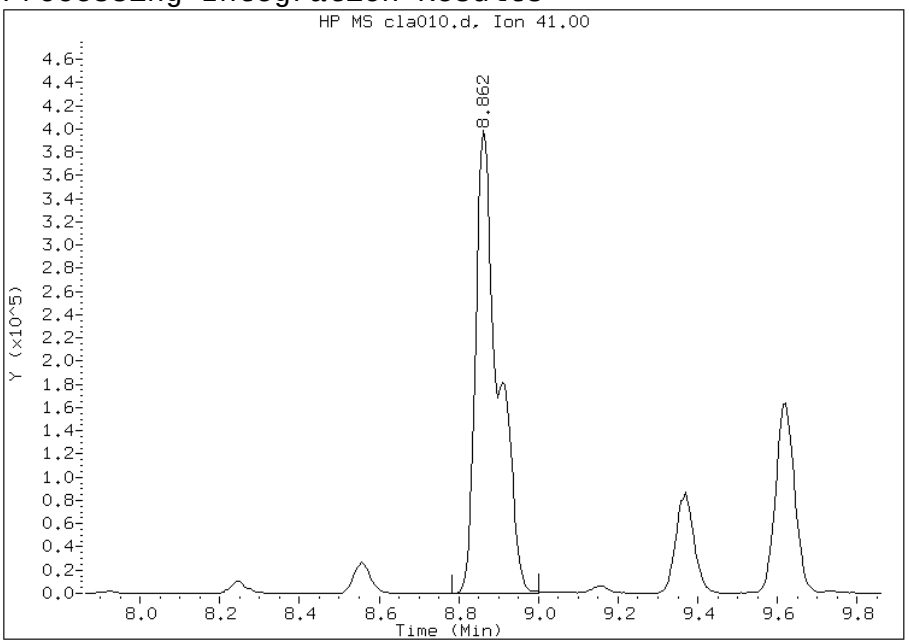
Processing Integration Results

RT: 8.86

Response: 1578131

Amount: 50.09

Conc: 50.09



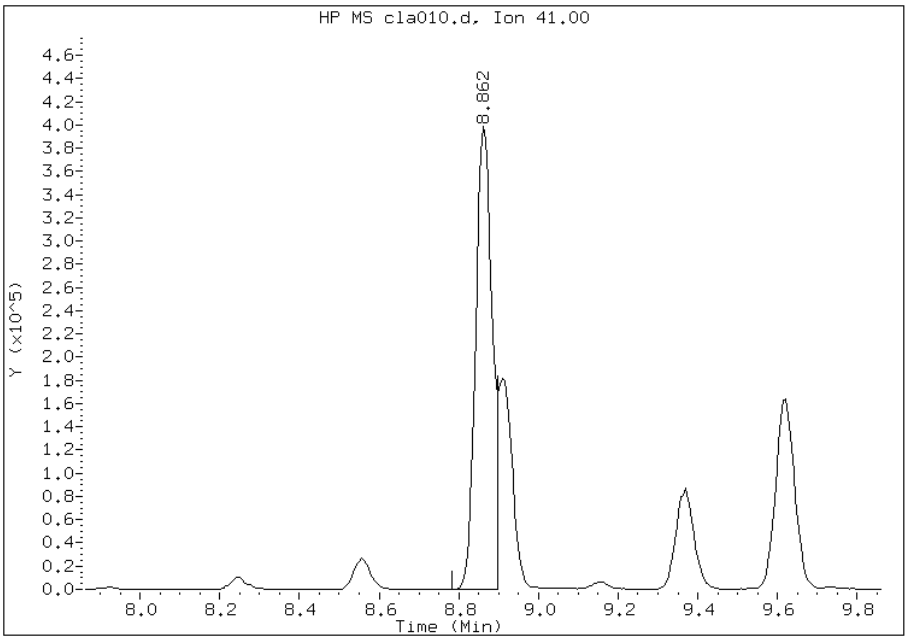
Manual Integration Results

RT: 8.86

Response: 1171543

Amount: 39.29

Conc: 39.29



File Uploaded By: wrd
Manual Integration Reason: Baseline event

Manual Integration Report

Data File: cla010.d
Lab Sample ID: ic 370600
Inj. Date and Time: 19-SEP-2012 20:06
Instrument ID: C.i
Client ID:
Compound: 24 Acetonitrile
CAS #: 75-05-8
Report Date: 09/21/2012

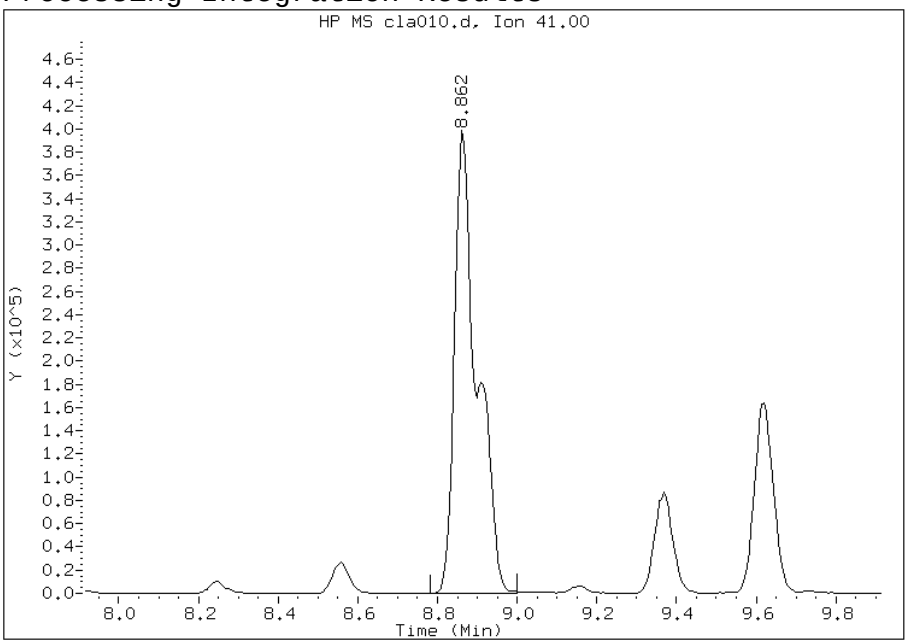
Processing Integration Results

RT: 8.86

Response: 1578131

Amount: 79.69

Conc: 79.69



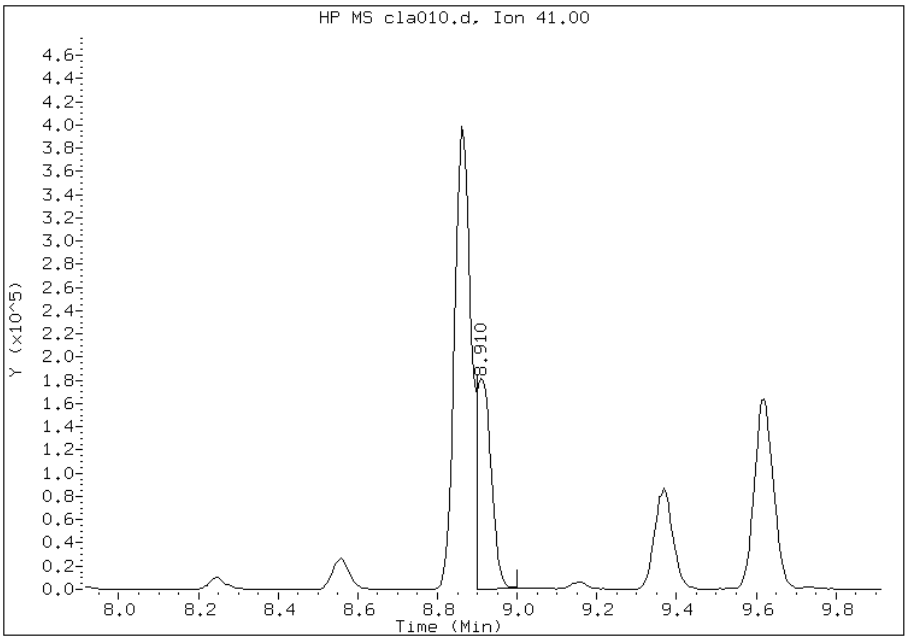
Manual Integration Results

RT: 8.91

Response: 456642

Amount: 36.26

Conc: 36.26



File Uploaded By: wrd
Manual Integration Reason: Baseline event

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Lab Sample ID: ICV 200-45233/14 Calibration Date: 09/20/2012 09:17

Instrument ID: C.i Calib Start Date: 09/19/2012 13:52

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/19/2012 20:06

Lab File ID: cla014.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.4636	0.4639		10.0	10.0	0.0	30.0
Dichlorodifluoromethane	Ave	2.547	2.525		9.91	10.0	-0.9	30.0
Freon 22	Ave	1.122	1.143		10.2	10.0	1.9	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.546	2.630		10.3	10.0	3.3	30.0
Chloromethane	Ave	0.5410	0.5870		10.8	10.0	8.5	30.0
n-Butane	Ave	0.9159	1.077		11.8	10.0	17.6	30.0
Vinyl chloride	Ave	0.7255	0.7608		10.5	10.0	4.9	30.0
1,3-Butadiene	Ave	0.4930	0.5685		11.5	10.0	15.3	30.0
Bromomethane	Ave	0.7972	0.8014		10.1	10.0	0.5	30.0
Chloroethane	Ave	0.3501	0.3807		10.9	10.0	8.7	30.0
Isopentane	Ave	0.6548	0.7318		11.2	10.0	11.8	30.0
Bromoethene(Vinyl Bromide)	Ave	0.9063	0.9854		10.9	10.0	8.7	30.0
Trichlorofluoromethane	Ave	2.670	2.633		9.86	10.0	-1.4	30.0
n-Pentane	Ave	1.037	1.160		11.2	10.0	11.9	30.0
Ethanol	Ave	0.1615	0.1875		17.4	15.0	16.1	30.0
Ethyl ether	Ave	0.4821	0.4997		10.4	10.0	3.7	30.0
Acrolein	Ave	0.2083	0.1928		9.26	10.0	-7.4	30.0
Freon TF	Ave	1.859	2.095		11.3	10.0	12.7	30.0
1,1-Dichloroethene	Ave	0.8837	1.032		11.7	10.0	16.8	30.0
Acetone	Ave	0.9509	1.040		10.9	10.0	9.3	30.0
Carbon disulfide	Ave	2.249	2.541		11.3	10.0	13.0	30.0
Isopropyl alcohol	Ave	0.6372	0.6385		10.0	10.0	0.2	30.0
3-Chloropropene	Ave	0.7728	0.8162		10.6	10.0	5.6	30.0
Acetonitrile	Ave	0.3265	0.3391		10.4	10.0	3.9	30.0
Methylene Chloride	Ave	0.6929	0.7598		11.0	10.0	9.6	30.0
tert-Butyl alcohol	Ave	1.152	1.072		9.30	10.0	-7.0	30.0
Methyl tert-butyl ether	Ave	2.449	2.503		10.2	10.0	2.2	30.0
trans-1,2-Dichloroethene	Ave	1.129	1.193		10.6	10.0	5.7	30.0
Acrylonitrile	Ave	0.4141	0.4620		11.2	10.0	11.6	30.0
n-Hexane	Ave	1.146	1.321		11.5	10.0	15.3	30.0
1,1-Dichloroethane	Ave	1.451	1.523		10.5	10.0	4.9	30.0
Vinyl acetate	Ave	1.458	1.499		10.3	10.0	2.8	30.0
cis-1,2-Dichloroethene	Ave	1.035	1.107		10.7	10.0	6.9	30.0
Methyl Ethyl Ketone	Ave	0.3898	0.4034		10.3	10.0	3.5	30.0
Ethyl acetate	Ave	0.0792	0.0830		10.5	10.0	4.8	30.0
Tetrahydrofuran	Ave	0.1126	0.1110		9.85	10.0	-1.5	30.0
Chloroform	Ave	2.006	2.058		10.3	10.0	2.6	30.0
1,1,1-Trichloroethane	Ave	0.4225	0.4121		9.75	10.0	-2.5	30.0
Cyclohexane	Ave	0.2446	0.2596		10.6	10.0	6.2	30.0
Carbon tetrachloride	Ave	0.4373	0.4222		9.65	10.0	-3.5	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Lab Sample ID: ICV 200-45233/14 Calibration Date: 09/20/2012 09:17

Instrument ID: C.i Calib Start Date: 09/19/2012 13:52

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/19/2012 20:06

Lab File ID: cla014.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzene	Ave	0.5138	0.5323		10.4	10.0	3.6	30.0
2,2,4-Trimethylpentane	Ave	0.6682	0.6992		10.5	10.0	4.6	30.0
1,2-Dichloroethane	Ave	0.2423	0.2325		9.59	10.0	-4.0	30.0
n-Heptane	Ave	0.2201	0.2309		10.5	10.0	4.9	30.0
n-Butanol	Ave	0.0489	0.0477		9.76	10.0	-2.4	30.0
Trichloroethene	Ave	0.2588	0.2552		9.86	10.0	-1.4	30.0
1,2-Dichloropropane	Ave	0.1558	0.1589		10.2	10.0	2.0	30.0
Methyl methacrylate	Ave	0.1425	0.1488		10.4	10.0	4.4	30.0
1,4-Dioxane	Ave	0.0691	0.0599		8.66	10.0	-13.4	30.0
Dibromomethane	Ave	0.2305	0.2176		9.44	10.0	-5.6	30.0
Bromodichloromethane	Ave	0.3935	0.4135		10.5	10.0	5.1	30.0
cis-1,3-Dichloropropene	Ave	0.2816	0.2872		10.2	10.0	2.0	30.0
methyl isobutyl ketone	Ave	0.2141	0.2144		10.0	10.0	0.1	30.0
Toluene	Ave	0.4580	0.4581		10.0	10.0	0.0	30.0
n-Octane	Ave	0.3068	0.3186		10.4	10.0	3.8	30.0
trans-1,3-Dichloropropene	Ave	0.2915	0.2920		10.0	10.0	0.2	30.0
1,1,2-Trichloroethane	Ave	0.1909	0.1871		9.80	10.0	-2.0	30.0
Tetrachloroethene	Ave	0.4185	0.3753		8.97	10.0	-10.3	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2132	0.2060		9.66	10.0	-3.4	30.0
Dibromochloromethane	Ave	0.4474	0.4629		10.3	10.0	3.5	30.0
1,2-Dibromoethane	Ave	0.3925	0.3879		9.88	10.0	-1.2	30.0
Chlorobenzene	Ave	0.6575	0.6241		9.49	10.0	-5.1	30.0
Ethylbenzene	Ave	0.9305	0.9165		9.85	10.0	-1.5	30.0
n-Nonane	Ave	0.3387	0.3487		10.3	10.0	3.0	30.0
m,p-Xylene	Ave	0.4034	0.3877		19.2	20.0	-3.9	30.0
Xylene, o-	Ave	0.3949	0.3705		9.38	10.0	-6.2	30.0
Styrene	Ave	0.5483	0.5547		10.1	10.0	1.2	30.0
Bromoform	Ave	0.4032	0.4049		10.0	10.0	0.4	30.0
Cumene	Ave	1.107	1.078		9.73	10.0	-2.7	30.0
1,1,2,2-Tetrachloroethane	Ave	0.4614	0.4362		9.45	10.0	-5.5	30.0
1,2,3-Trichloropropane	Ave	0.3703	0.3522		9.51	10.0	-4.9	30.0
n-Propylbenzene	Ave	1.192	1.178		9.88	10.0	-1.2	30.0
4-Ethyltoluene	Ave	1.069	1.073		10.0	10.0	0.3	30.0
n-Decane	Ave	0.3988	0.4040		10.1	10.0	1.3	30.0
2-Chlorotoluene	Ave	0.8788	0.8800		10.0	10.0	0.1	30.0
1,3,5-Trimethylbenzene	Ave	0.9071	0.8691		9.58	10.0	-4.2	30.0
Alpha Methyl Styrene	Ave	0.4288	0.4370		10.2	10.0	1.9	30.0
tert-Butylbenzene	Ave	0.9311	0.8925		9.58	10.0	-4.1	30.0
1,2,4-Trimethylbenzene	Ave	0.8709	0.8283		9.51	10.0	-4.9	30.0
sec-Butylbenzene	Ave	1.280	1.258		9.83	10.0	-1.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Lab Sample ID: ICV 200-45233/14 Calibration Date: 09/20/2012 09:17

Instrument ID: C.i Calib Start Date: 09/19/2012 13:52

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/19/2012 20:06

Lab File ID: cla014.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.090	1.093		10.0	10.0	0.3	30.0
1,3-Dichlorobenzene	Ave	0.6318	0.5556		8.79	10.0	-12.1	30.0
1,4-Dichlorobenzene	Ave	0.6126	0.5340		8.72	10.0	-12.8	30.0
Benzyl chloride	Ave	0.6002	0.6016		10.0	10.0	0.2	30.0
n-Butylbenzene	Ave	0.7877	0.8084		10.3	10.0	2.6	30.0
n-Undecane	Ave	0.3512	0.3485		9.92	10.0	-0.8	30.0
1,2-Dichlorobenzene	Ave	0.5822	0.5123		8.80	10.0	-12.0	30.0
n-Dodecane	Ave	0.2086	0.2424		11.6	10.0	16.2	30.0
1,2,4-Trichlorobenzene	Ave	0.2567	0.2009		7.83	10.0	-21.7	30.0
Hexachlorobutadiene	Ave	0.2794	0.2870		10.3	10.0	2.7	30.0
Naphthalene	Ave	0.5629	0.3949		7.01	10.0	-29.9	30.0
1,2,3-Trichlorobenzene	Ave	0.2086	0.1873		8.98	10.0	-10.2	30.0

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/clato15.b/cla014.d
Lab Smp Id: icv 370621
Inj Date : 20-SEP-2012 09:17
Operator : wrd Inst ID: C.i
Smp Info : icv 370621
Misc Info : 200,1,icv
Comment :
Method : /chem/C.i/Csvr.p/clato15.b/to15v5.m
Meth Date : 20-Sep-2012 12:17 wrd Quant Type: ISTD
Cal Date : 19-SEP-2012 20:06 Cal File: cla010.d
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
1 Propene	41	4.208	4.208	(0.349)	172658	10.0041	10
2 Dichlorodifluoromethane	85	4.299	4.304	(0.356)	939839	9.91187	9.9
3 Chlorodifluoromethane	51	4.357	4.363	(0.361)	425254	10.1847	10
4 1,2-Dichloro-1,1,2,2-tetraflu	85	4.646	4.651	(0.385)	978704	10.3256	10
5 Chloromethane	50	4.806	4.811	(0.398)	218475	10.8477	11
6 Butane	43	5.072	5.078	(0.420)	401013	11.7605	12
7 Vinyl chloride	62	5.115	5.115	(0.424)	283155	10.4840	10
8 1,3-Butadiene	54	5.211	5.216	(0.432)	211579	11.5292	12
9 Bromomethane	94	5.996	5.990	(0.497)	298296	10.0510	10
10 Chloroethane	64	6.268	6.268	(0.519)	141697	10.8719	11
11 2-Methylbutane	43	6.385	6.380	(0.529)	272377	11.1737	11
12 Vinyl bromide	106	6.711	6.711	(0.556)	366748	10.8696	11
13 Trichlorofluoromethane	101	6.844	6.844	(0.567)	980040	9.85893	9.9
14 Pentane	43	7.010	7.010	(0.581)	431810	11.1893	11

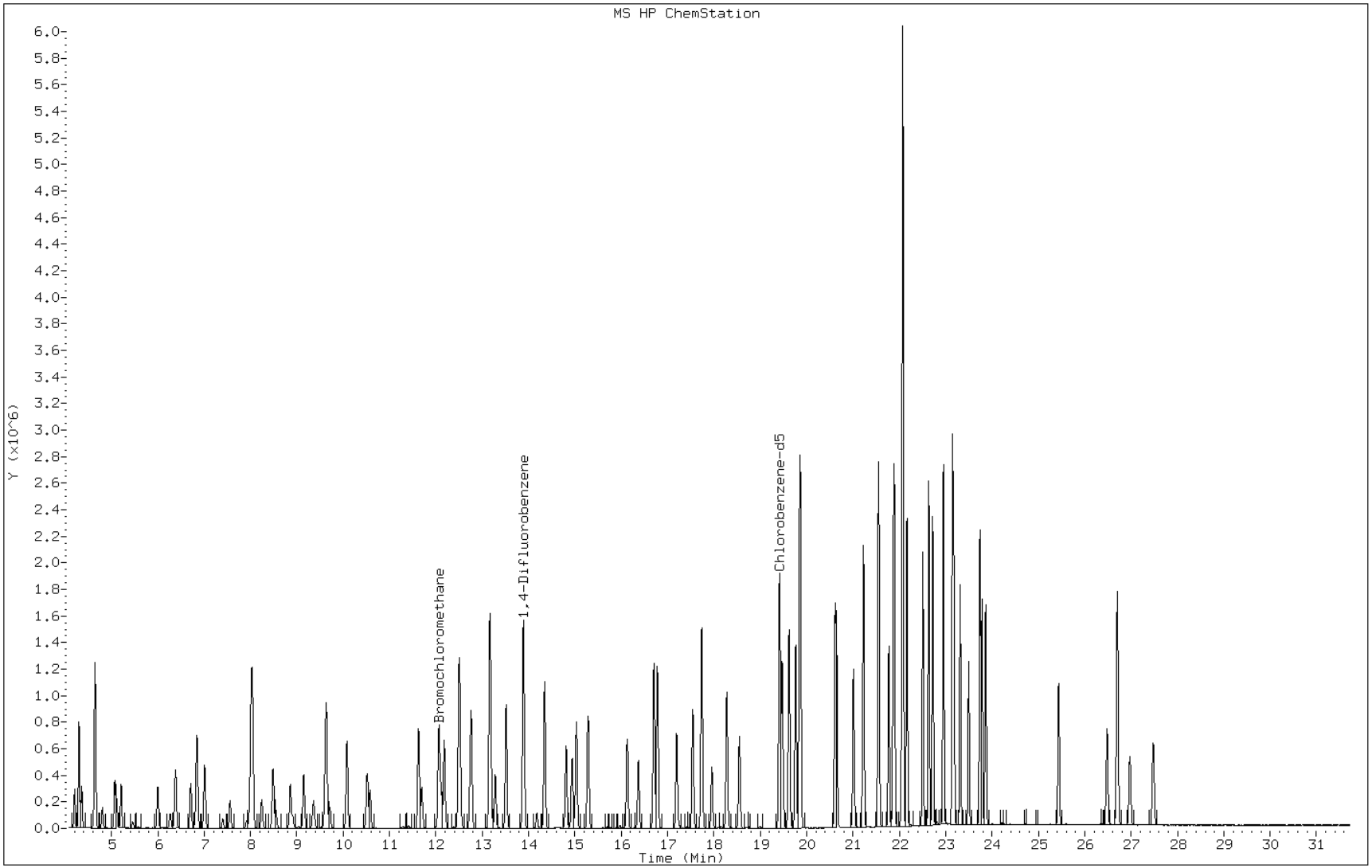
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	15 Ethanol	45	7.399	7.522	(0.613)	104721	17.4127	17(H)
	16 Ethyl ether	59	7.559	7.565	(0.626)	185975	10.3632	10(Q)
	17 1,1,2-Trichloro-1,2,2-trifluo	101	8.013	8.018	(0.664)	779870	11.2692	11
	18 Acrolein	56	7.912	7.917	(0.656)	71763	9.25625	9.3
	19 1,1-Dichloroethene	96	8.050	8.050	(0.667)	384252	11.6801	12
	20 Acetone	43	8.243	8.248	(0.683)	386992	10.9326	11
	21 Carbon disulfide	76	8.488	8.488	(0.703)	945791	11.2977	11
	22 Isopropanol	45	8.547	8.632	(0.708)	237663	10.0188	10
	23 Allyl chloride	41	8.862	8.862	(0.734)	303800	10.5594	11(M)
	24 Acetonitrile	41	8.910	8.915	(0.738)	126206	10.3847	10(QM)
	25 Methylene chloride	49	9.150	9.150	(0.758)	282780	10.9625	11
	26 Tert-butyl alcohol	59	9.358	9.433	(0.775)	398812	9.30308	9.3
	27 Methyl tert-butyl ether	73	9.620	9.619	(0.797)	931496	10.2177	10
	28 1,2-Dichloroethene (trans)	61	9.641	9.641	(0.799)	443987	10.5647	11
	29 Acrylonitrile	53	9.710	9.715	(0.805)	171952	11.1544	11
	30 n-Hexane	57	10.084	10.084	(0.836)	491569	11.5243	12
	31 1,1-Dichloroethane	63	10.516	10.521	(0.871)	566817	10.4913	10
	32 Vinyl acetate	43	10.580	10.580	(0.877)	557820	10.2771	10
M	33 1,2-Dichloroethene,Total	61				855946	21.2564	21
	34 1,2-Dichloroethene (cis)	96	11.621	11.621	(0.963)	411959	10.6917	11
	35 Ethyl acetate	88	11.696	11.701	(0.969)	30901	10.4785	10
	36 Methyl Ethyl Ketone	72	11.637	11.642	(0.964)	150136	10.3461	10
*	37 Bromochloromethane	128	12.069	12.069	(1.000)	372273	10.0000	
	38 Tetrahydrofuran	42	12.112	12.117	(0.872)	234311	9.85069	9.9
	39 Chloroform	83	12.181	12.186	(1.009)	766020	10.2565	10
	40 Cyclohexane	84	12.517	12.523	(0.901)	548209	10.6129	11
	41 1,1,1-Trichloroethane	97	12.496	12.501	(0.900)	870220	9.75177	9.8
	42 Carbon tetrachloride	117	12.758	12.758	(0.919)	891479	9.65170	9.7
	43 2,2,4-Trimethylpentane	57	13.174	13.174	(0.948)	1476495	10.4609	10
	44 Benzene	78	13.158	13.163	(0.947)	1124165	10.3582	10
	45 1,2-Dichloroethane	62	13.281	13.286	(0.956)	490958	9.59480	9.6
	46 n-Heptane	43	13.515	13.515	(0.973)	487541	10.4851	10
*	47 1,4-Difluorobenzene	114	13.889	13.894	(1.000)	2112167	10.0000	
	48 n-Butanol	56	14.177	14.204	(1.021)	100762	9.76353	9.8
	49 Trichloroethene	95	14.348	14.348	(1.033)	538982	9.85933	9.9
	50 1,2-Dichloropropane	63	14.807	14.812	(1.066)	335543	10.1991	10
	51 Methyl methacrylate	69	14.940	14.946	(1.076)	314226	10.4428	10
	52 Dibromomethane	174	15.036	15.036	(1.083)	459456	9.43864	9.4
	53 1,4-Dioxane	88	15.010	15.020	(1.081)	126437	8.66303	8.7
	54 Bromodichloromethane	83	15.282	15.293	(1.100)	873286	10.5064	11
	55 1,3-Dichloropropene (cis)	75	16.131	16.136	(1.161)	606552	10.1969	10
	56 Methyl isobutyl ketone	43	16.371	16.381	(1.179)	452735	10.0096	10
	57 n-Octane	43	16.782	16.782	(1.208)	672859	10.3823	10
	58 Toluene	92	16.707	16.707	(0.861)	913626	10.0002	10
	59 1,3-Dichloropropene (trans)	75	17.193	17.203	(1.238)	616640	10.0162	10
	60 1,1,2-Trichloroethane	83	17.545	17.550	(0.904)	373091	9.79987	9.8
	61 Tetrachloroethene	166	17.737	17.737	(0.914)	748404	8.96516	9.0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	62 2-Hexanone	43	17.956	17.966	(0.925)	410787	9.65900	9.7
	63 Dibromochloromethane	129	18.281	18.287	(0.942)	923275	10.3454	10
	64 1,2-Dibromoethane	107	18.548	18.553	(0.955)	773649	9.88017	9.9
*	65 Chlorobenzene-d5	117	19.413	19.418	(1.000)	1994790	10.0000	
	66 Chlorobenzene	112	19.477	19.477	(1.003)	1244790	9.49036	9.5
	67 n-Nonane	57	19.765	19.765	(1.018)	695478	10.2939	10
	68 Ethylbenzene	91	19.621	19.626	(1.011)	1827826	9.84748	9.8
	69 Xylene (m,p)	106	19.861	19.861	(1.023)	1546373	19.2175	19
M	70 Xylenes, Total	106				2285237	28.5960	29
	71 Xylene (o)	106	20.614	20.619	(1.062)	738864	9.37853	9.4
	72 Styrene	104	20.646	20.651	(1.063)	1106294	10.1146	10
	73 Bromoform	173	21.014	21.014	(1.082)	807604	10.0417	10
	74 Isopropylbenzene	105	21.227	21.227	(1.093)	2149539	9.73153	9.7
	75 1,1,2,2-Tetrachloroethane	83	21.772	21.772	(1.121)	869863	9.45182	9.5
	76 n-Propylbenzene	91	21.889	21.889	(1.128)	2349570	9.87881	9.9
	77 1,2,3-Trichloropropane	75	21.868	21.873	(1.126)	702417	9.50982	9.5
	78 n-Decane	57	22.070	22.070	(1.137)	805786	10.1295	10
	79 4-Ethyltoluene	105	22.065	22.070	(1.137)	2139454	10.0329	10
	80 2-Chlorotoluene	91	22.076	22.076	(1.137)	1755035	10.0117	10
	81 1,3,5-Trimethylbenzene	105	22.167	22.166	(1.142)	1733253	9.57894	9.6
	82 Alpha Methyl Styrene	118	22.508	22.508	(1.159)	871549	10.1904	10
	83 tert-butylbenzene	119	22.636	22.636	(1.166)	1779919	9.58353	9.6
	84 1,2,4-Trimethylbenzene	105	22.722	22.722	(1.170)	1651906	9.50834	9.5
	85 sec-Butylbenzene	105	22.951	22.951	(1.182)	2509423	9.82792	9.8
	86 4-Isopropyltoluene	119	23.149	23.148	(1.192)	2179308	10.0264	10
	87 1,3-Dichlorobenzene	146	23.175	23.180	(1.194)	1107994	8.79097	8.8
	88 1,4-Dichlorobenzene	146	23.314	23.314	(1.201)	1065026	8.71576	8.7
	89 Benzyl chloride	91	23.495	23.495	(1.210)	1199779	10.0203	10
	90 Undecane	57	23.784	23.784	(1.225)	695133	9.92128	9.9
	91 n-Butylbenzene	91	23.741	23.741	(1.223)	1612238	10.2607	10
	92 1,2-Dichlorobenzene	146	23.864	23.864	(1.229)	1021714	8.79806	8.8
	93 Dodecane	57	25.438	25.438	(1.310)	483500	11.6222	12
	94 1,2,4-Trichlorobenzene	180	26.479	26.484	(1.364)	400670	7.82574	7.8
	95 1,3-Hexachlorobutadiene	225	26.703	26.703	(1.376)	572386	10.2706	10
	96 Naphthalene	128	26.975	26.975	(1.390)	787492	7.01334	7.0
	97 1,2,3-Trichlorobenzene	180	27.477	27.482	(1.415)	373530	8.97861	9.0

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File:	cla014.d	Date:	20-SEP-2012 09:17
Client ID:		Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	icv 370621		
Lab Sample ID:	icv 370621		



Manual Integration Report

Data File: cla014.d
Lab Sample ID: icv 370621
Inj. Date and Time: 20-SEP-2012 09:17
Instrument ID: C.i
Client ID:
Compound: 23 Allyl chloride
CAS #: 107-05-1
Report Date: 09/21/2012

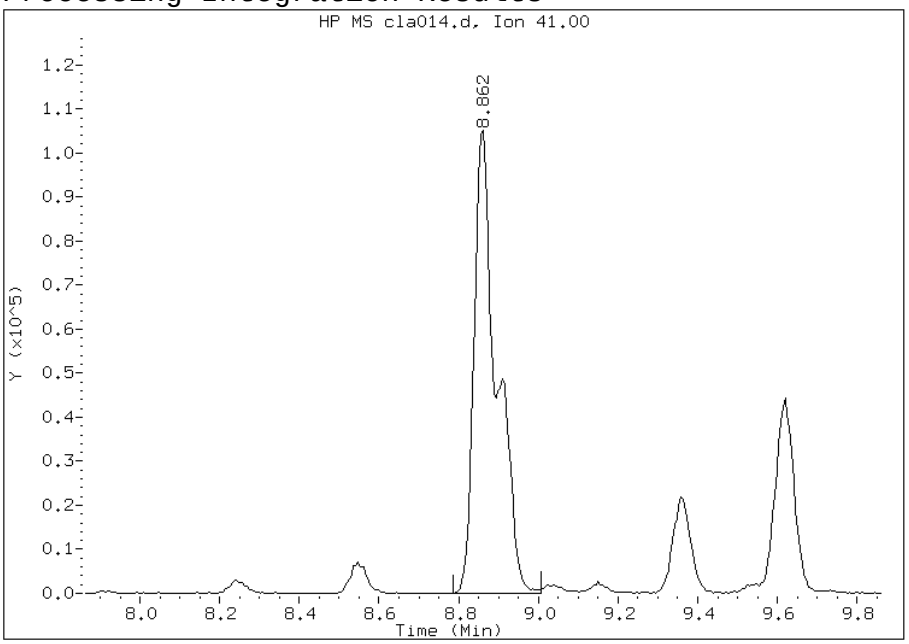
Processing Integration Results

RT: 8.86

Response: 418443

Amount: 14.55

Conc: 14.55



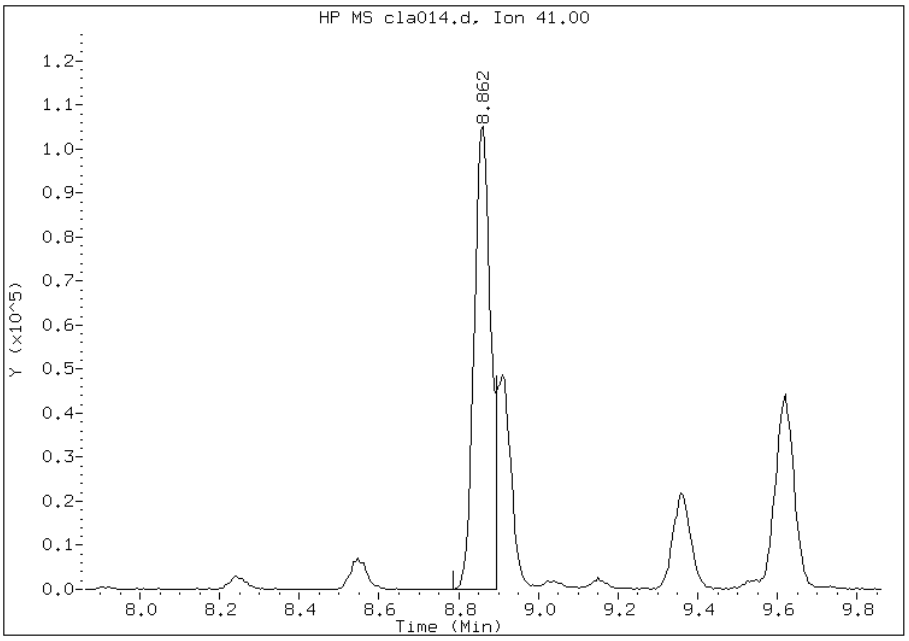
Manual Integration Results

RT: 8.86

Response: 303800

Amount: 10.56

Conc: 10.56



File Uploaded By: wrd
Manual Integration Reason: Baseline event

Manual Integration Report

Data File: cla014.d
Lab Sample ID: icv 370621
Inj. Date and Time: 20-SEP-2012 09:17
Instrument ID: C.i
Client ID:
Compound: 24 Acetonitrile
CAS #: 75-05-8
Report Date: 09/21/2012

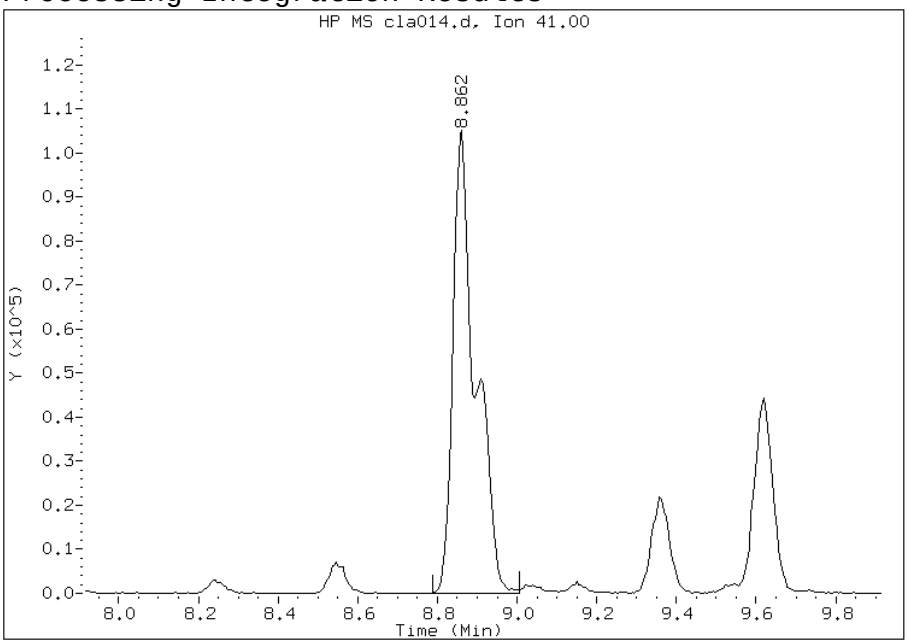
Processing Integration Results

RT: 8.86

Response: 418443

Amount: 33.90

Conc: 33.90



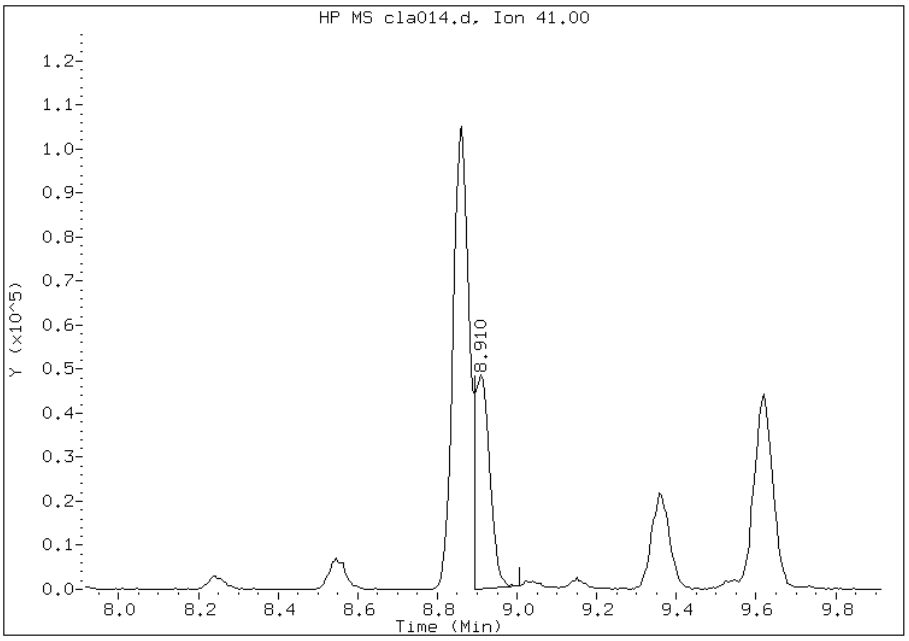
Manual Integration Results

RT: 8.91

Response: 126206

Amount: 10.38

Conc: 10.38



File Uploaded By: wrd
Manual Integration Reason: Baseline event

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Lab Sample ID: CCVIS 200-46287/2 Calibration Date: 10/10/2012 10:58

Instrument ID: C.i Calib Start Date: 09/19/2012 13:52

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/19/2012 20:06

Lab File ID: claq002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.4636	0.4662		10.1	10.0	0.6	30.0
Dichlorodifluoromethane	Ave	2.547	2.713		10.6	10.0	6.5	30.0
Freon 22	Ave	1.122	1.156		10.3	10.0	3.0	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.546	2.578		10.1	10.0	1.2	30.0
Chloromethane	Ave	0.5410	0.5237		9.68	10.0	-3.2	30.0
n-Butane	Ave	0.9159	0.8800		9.61	10.0	-3.9	30.0
Vinyl chloride	Ave	0.7255	0.7021		9.67	10.0	-3.2	30.0
1,3-Butadiene	Ave	0.4930	0.4750		9.63	10.0	-3.6	30.0
Bromomethane	Ave	0.7972	0.8253		10.3	10.0	3.5	30.0
Chloroethane	Ave	0.3501	0.3368		9.62	10.0	-3.8	30.0
Isopentane	Ave	0.6548	0.5934		9.06	10.0	-9.4	30.0
Bromoethene(Vinyl Bromide)	Ave	0.9063	0.9425		10.4	10.0	4.0	30.0
Trichlorofluoromethane	Ave	2.670	2.635		9.87	10.0	-1.3	30.0
n-Pentane	Ave	1.037	0.9437		9.10	10.0	-9.0	30.0
Ethanol	Ave	0.1615	0.1648		15.3	15.0	2.0	30.0
Ethyl ether	Ave	0.4821	0.4425		9.18	10.0	-8.2	30.0
Acrolein	Ave	0.2083	0.1915		9.20	10.0	-8.0	30.0
Freon TF	Ave	1.859	1.859		10.0	10.0	-0.0	30.0
1,1-Dichloroethene	Ave	0.8837	0.8777		9.93	10.0	-0.7	30.0
Acetone	Ave	0.9509	0.8690		9.14	10.0	-8.6	30.0
Carbon disulfide	Ave	2.249	2.193		9.75	10.0	-2.5	30.0
Isopropyl alcohol	Ave	0.6372	0.6215		9.75	10.0	-2.5	30.0
3-Chloropropene	Ave	0.7728	0.7320		9.47	10.0	-5.3	30.0
Acetonitrile	Ave	0.3265	0.2709		8.30	10.0	-17.0	30.0
Methylene Chloride	Ave	0.6929	0.6275		9.05	10.0	-9.4	30.0
tert-Butyl alcohol	Ave	1.152	1.203		10.4	10.0	4.5	30.0
Methyl tert-butyl ether	Ave	2.449	2.285		9.33	10.0	-6.7	30.0
trans-1,2-Dichloroethene	Ave	1.129	1.077		9.54	10.0	-4.6	30.0
Acrylonitrile	Ave	0.4141	0.3698		8.93	10.0	-10.7	30.0
n-Hexane	Ave	1.146	1.059		9.24	10.0	-7.5	30.0
1,1-Dichloroethane	Ave	1.451	1.380		9.51	10.0	-4.9	30.0
Vinyl acetate	Ave	1.458	1.289		8.84	10.0	-11.6	30.0
cis-1,2-Dichloroethene	Ave	1.035	1.005		9.71	10.0	-2.9	30.0
Methyl Ethyl Ketone	Ave	0.3898	0.3404		8.73	10.0	-12.7	30.0
Ethyl acetate	Ave	0.0792	0.0761		9.60	10.0	-3.9	30.0
Tetrahydrofuran	Ave	0.1126	0.0993		8.82	10.0	-11.8	30.0
Chloroform	Ave	2.006	1.981		9.87	10.0	-1.3	30.0
1,1,1-Trichloroethane	Ave	0.4225	0.4241		10.0	10.0	0.4	30.0
Cyclohexane	Ave	0.2446	0.2387		9.76	10.0	-2.4	30.0
Carbon tetrachloride	Ave	0.4373	0.4492		10.3	10.0	2.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Lab Sample ID: CCVIS 200-46287/2 Calibration Date: 10/10/2012 10:58

Instrument ID: C.i Calib Start Date: 09/19/2012 13:52

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/19/2012 20:06

Lab File ID: claq002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzene	Ave	0.5138	0.4869		9.47	10.0	-5.2	30.0
2,2,4-Trimethylpentane	Ave	0.6682	0.6206		9.29	10.0	-7.1	30.0
1,2-Dichloroethane	Ave	0.2423	0.2362		9.75	10.0	-2.5	30.0
n-Heptane	Ave	0.2201	0.1976		8.98	10.0	-10.2	30.0
n-Butanol	Ave	0.0489	0.0542		11.1	10.0	10.9	30.0
Trichloroethene	Ave	0.2588	0.2501		9.66	10.0	-3.4	30.0
1,2-Dichloropropane	Ave	0.1558	0.1452		9.32	10.0	-6.8	30.0
Methyl methacrylate	Ave	0.1425	0.1355		9.51	10.0	-4.9	30.0
1,4-Dioxane	Ave	0.0691	0.0712		10.3	10.0	3.1	30.0
Dibromomethane	Ave	0.2305	0.2408		10.4	10.0	4.5	30.0
Bromodichloromethane	Ave	0.3935	0.4023		10.2	10.0	2.2	30.0
cis-1,3-Dichloropropene	Ave	0.2816	0.2710		9.62	10.0	-3.8	30.0
methyl isobutyl ketone	Ave	0.2141	0.2045		9.55	10.0	-4.5	30.0
Toluene	Ave	0.4580	0.4440		9.69	10.0	-3.1	30.0
n-Octane	Ave	0.3068	0.2744		8.94	10.0	-10.6	30.0
trans-1,3-Dichloropropene	Ave	0.2915	0.2796		9.59	10.0	-4.1	30.0
1,1,2-Trichloroethane	Ave	0.1909	0.1881		9.85	10.0	-1.4	30.0
Tetrachloroethene	Ave	0.4185	0.4290		10.2	10.0	2.5	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2132	0.2102		9.86	10.0	-1.4	30.0
Dibromochloromethane	Ave	0.4474	0.4839		10.8	10.0	8.2	30.0
1,2-Dibromoethane	Ave	0.3925	0.4096		10.4	10.0	4.4	30.0
Chlorobenzene	Ave	0.6575	0.6627		10.1	10.0	0.8	30.0
Ethylbenzene	Ave	0.9305	0.9106		9.78	10.0	-2.1	30.0
n-Nonane	Ave	0.3387	0.3097		9.14	10.0	-8.6	30.0
m,p-Xylene	Ave	0.4034	0.4060		20.1	20.0	0.7	30.0
Xylene, o-	Ave	0.3949	0.3981		10.1	10.0	0.8	30.0
Styrene	Ave	0.5483	0.5852		10.7	10.0	6.7	30.0
Bromoform	Ave	0.4032	0.4418		11.0	10.0	9.6	30.0
Cumene	Ave	1.107	1.105		9.98	10.0	-0.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.4614	0.4503		9.76	10.0	-2.4	30.0
1,2,3-Trichloropropane	Ave	0.3703	0.3554		9.60	10.0	-4.0	30.0
n-Propylbenzene	Ave	1.192	1.178		9.88	10.0	-1.2	30.0
4-Ethyltoluene	Ave	1.069	1.094		10.2	10.0	2.3	30.0
n-Decane	Ave	0.3988	0.3611		9.05	10.0	-9.4	30.0
2-Chlorotoluene	Ave	0.8788	0.8776		9.98	10.0	-0.1	30.0
1,3,5-Trimethylbenzene	Ave	0.9071	0.9110		10.0	10.0	0.4	30.0
Alpha Methyl Styrene	Ave	0.4288	0.4731		11.0	10.0	10.3	30.0
tert-Butylbenzene	Ave	0.9311	0.9395		10.1	10.0	0.9	30.0
1,2,4-Trimethylbenzene	Ave	0.8709	0.8865		10.2	10.0	1.8	30.0
sec-Butylbenzene	Ave	1.280	1.286		10.0	10.0	0.4	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Lab Sample ID: CCVIS 200-46287/2 Calibration Date: 10/10/2012 10:58

Instrument ID: C.i Calib Start Date: 09/19/2012 13:52

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 09/19/2012 20:06

Lab File ID: claq002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.090	1.125		10.3	10.0	3.2	30.0
1,3-Dichlorobenzene	Ave	0.6318	0.6514		10.3	10.0	3.1	30.0
1,4-Dichlorobenzene	Ave	0.6126	0.6243		10.2	10.0	1.9	30.0
Benzyl chloride	Ave	0.6002	0.6227		10.4	10.0	3.7	30.0
n-Butylbenzene	Ave	0.7877	0.7856		9.97	10.0	-0.3	30.0
n-Undecane	Ave	0.3512	0.3132		8.91	10.0	-10.8	30.0
1,2-Dichlorobenzene	Ave	0.5822	0.6057		10.4	10.0	4.0	30.0
n-Dodecane	Ave	0.2086	0.2315		11.1	10.0	11.0	30.0
1,2,4-Trichlorobenzene	Ave	0.2567	0.3205		12.5	10.0	24.9	30.0
Hexachlorobutadiene	Ave	0.2794	0.2829		10.1	10.0	1.3	30.0
Naphthalene	Ave	0.5629	0.7613		13.5	10.0	35.3*	30.0
1,2,3-Trichlorobenzene	Ave	0.2086	0.2786		13.4	10.0	33.6*	30.0

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/claqto15.b/claq002.d
Lab Smp Id: ccvis 393944
Inj Date : 10-OCT-2012 10:58
Operator : WRD Inst ID: C.i
Smp Info : ccvis 393944
Misc Info : 200,1, ccvis
Comment :
Method : /chem/C.i/Csvr.p/claqto15.b/to15v5.m
Meth Date : 11-Oct-2012 10:12 wrd Quant Type: ISTD
Cal Date : 19-SEP-2012 20:06 Cal File: cla010.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
1 Propene	41	4.213	4.208	(0.349)	152096	10.0000	10
2 Dichlorodifluoromethane	85	4.304	4.304	(0.357)	885018	10.0000	11
3 Chlorodifluoromethane	51	4.363	4.363	(0.362)	377027	10.0000	10
4 1,2-Dichloro-1,1,2,2-tetraflu	85	4.646	4.651	(0.385)	841001	10.0000	10
5 Chloromethane	50	4.811	4.811	(0.399)	170865	10.0000	9.7
6 Butane	43	5.078	5.078	(0.421)	287118	10.0000	9.6
7 Vinyl chloride	62	5.115	5.115	(0.424)	229057	10.0000	9.7
8 1,3-Butadiene	54	5.211	5.216	(0.432)	154989	10.0000	9.6
9 Bromomethane	94	6.001	5.990	(0.498)	269262	10.0000	10
10 Chloroethane	64	6.268	6.268	(0.520)	109879	10.0000	9.6
11 2-Methylbutane	43	6.385	6.380	(0.530)	193617	10.0000	9.1
12 Vinyl bromide	106	6.711	6.711	(0.557)	307523	10.0000	10
13 Trichlorofluoromethane	101	6.844	6.844	(0.568)	859774	10.0000	9.9
14 Pentane	43	7.010	7.010	(0.581)	307894	10.0000	9.1

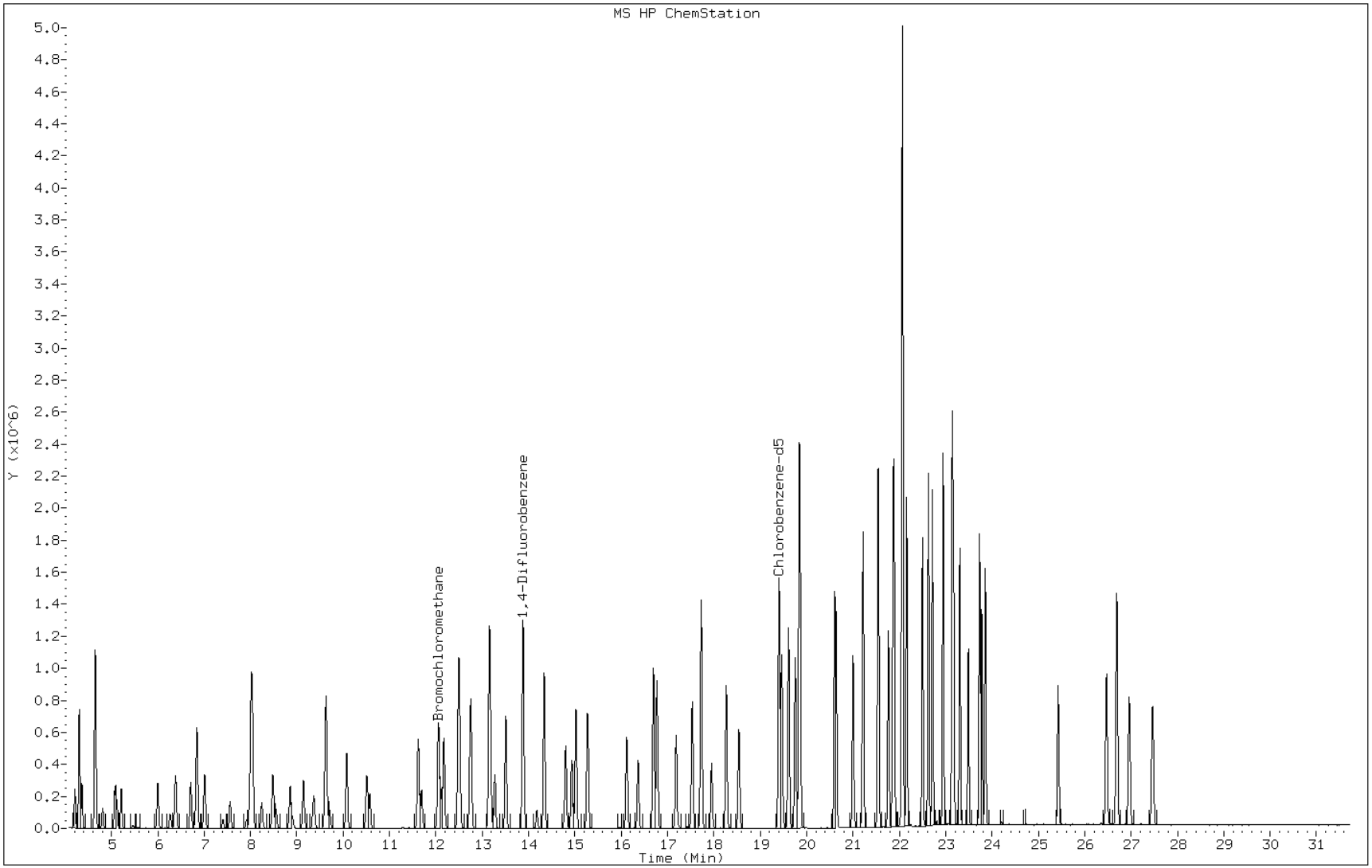
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	7.410	7.522	(0.614)	80708	15.0000	15(H)
	16 Ethyl ether	59	7.559	7.565	(0.627)	144370	10.0000	9.2(Q)
	17 1,1,2-Trichloro-1,2,2-trifluo	101	8.013	8.018	(0.665)	606426	10.0000	10
	18 Acrolein	56	7.917	7.917	(0.657)	62494	10.0000	9.2
	19 1,1-Dichloroethene	96	8.045	8.050	(0.667)	286354	10.0000	9.9
	20 Acetone	43	8.243	8.248	(0.684)	283522	10.0000	9.1
	21 Carbon disulfide	76	8.483	8.488	(0.703)	715659	10.0000	9.8
	22 Isopropanol	45	8.552	8.632	(0.709)	202782	10.0000	9.8
	23 Allyl chloride	41	8.851	8.862	(0.734)	238829	10.0000	9.5(M)
	24 Acetonitrile	41	8.910	8.915	(0.739)	88371	10.0000	8.3(QM)
	25 Methylene chloride	49	9.150	9.150	(0.759)	204717	10.0000	9.1
	26 Tert-butyl alcohol	59	9.363	9.433	(0.776)	392570	10.0000	10
	27 Methyl tert-butyl ether	73	9.620	9.619	(0.798)	745516	10.0000	9.3
	28 1,2-Dichloroethene (trans)	61	9.636	9.641	(0.799)	351441	10.0000	9.5
	29 Acrylonitrile	53	9.705	9.715	(0.805)	120653	10.0000	8.9
	30 n-Hexane	57	10.078	10.084	(0.836)	345619	10.0000	9.2
	31 1,1-Dichloroethane	63	10.511	10.521	(0.872)	450299	10.0000	9.5
	32 Vinyl acetate	43	10.575	10.580	(0.877)	420684	10.0000	8.8
M	33 1,2-Dichloroethene,Total	61				679360	20.0000	19
	34 1,2-Dichloroethene (cis)	96	11.616	11.621	(0.963)	327919	10.0000	9.7
	35 Ethyl acetate	88	11.696	11.701	(0.970)	24826	10.0000	9.6
	36 Methyl Ethyl Ketone	72	11.632	11.642	(0.965)	111061	10.0000	8.7(Q)
*	37 Bromochloromethane	128	12.058	12.069	(1.000)	326333	10.0000	
	38 Tetrahydrofuran	42	12.112	12.117	(0.872)	178584	10.0000	8.8
	39 Chloroform	83	12.176	12.186	(1.010)	646311	10.0000	9.9
	40 Cyclohexane	84	12.507	12.523	(0.901)	429181	10.0000	9.8
	41 1,1,1-Trichloroethane	97	12.491	12.501	(0.900)	762451	10.0000	10
	42 Carbon tetrachloride	117	12.752	12.758	(0.918)	807429	10.0000	10
	43 2,2,4-Trimethylpentane	57	13.169	13.174	(0.948)	1115618	10.0000	9.3
	44 Benzene	78	13.153	13.163	(0.947)	875214	10.0000	9.5
	45 1,2-Dichloroethane	62	13.270	13.286	(0.956)	424656	10.0000	9.7
	46 n-Heptane	43	13.510	13.515	(0.973)	355270	10.0000	9.0
*	47 1,4-Difluorobenzene	114	13.884	13.894	(1.000)	1798031	10.0000	
	48 n-Butanol	56	14.177	14.204	(1.021)	97372	10.0000	11
	49 Trichloroethene	95	14.337	14.348	(1.033)	449658	10.0000	9.7
	50 1,2-Dichloropropane	63	14.796	14.812	(1.066)	261042	10.0000	9.3
	51 Methyl methacrylate	69	14.930	14.946	(1.075)	243575	10.0000	9.5
	52 Dibromomethane	174	15.026	15.036	(1.082)	432795	10.0000	10
	53 1,4-Dioxane	88	15.004	15.020	(1.081)	128041	10.0000	10
	54 Bromodichloromethane	83	15.277	15.293	(1.100)	723146	10.0000	10
	55 1,3-Dichloropropene (cis)	75	16.120	16.136	(1.161)	487177	10.0000	9.6
	56 Methyl isobutyl ketone	43	16.365	16.381	(1.179)	367566	10.0000	9.5
	57 n-Octane	43	16.771	16.782	(1.208)	493205	10.0000	8.9
	58 Toluene	92	16.696	16.707	(0.861)	736445	10.0000	9.7
	59 1,3-Dichloropropene (trans)	75	17.187	17.203	(1.238)	502642	10.0000	9.6
	60 1,1,2-Trichloroethane	83	17.534	17.550	(0.904)	311999	10.0000	9.9
	61 Tetrachloroethene	166	17.726	17.737	(0.914)	711511	10.0000	10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	17.950	17.966	(0.925)	348714	10.0000	9.9
	63 Dibromochloromethane	129	18.265	18.287	(0.941)	802617	10.0000	11
	64 1,2-Dibromoethane	107	18.537	18.553	(0.955)	679432	10.0000	10
*	65 Chlorobenzene-d5	117	19.402	19.418	(1.000)	1658980	10.0000	
	66 Chlorobenzene	112	19.461	19.477	(1.003)	1099224	10.0000	10
	67 n-Nonane	57	19.754	19.765	(1.018)	513689	10.0000	9.1
	68 Ethylbenzene	91	19.610	19.626	(1.011)	1510370	10.0000	9.8
	69 Xylene (m,p)	106	19.850	19.861	(1.023)	1346898	20.0000	20
M	70 Xylenes, Total	106				2007222	10.0000	30
	71 Xylene (o)	106	20.603	20.619	(1.062)	660324	10.0000	10
	72 Styrene	104	20.640	20.651	(1.064)	970696	10.0000	11
	73 Bromoform	173	21.003	21.014	(1.083)	732851	10.0000	11
	74 Isopropylbenzene	105	21.217	21.227	(1.094)	1833305	10.0000	10
	75 1,1,2,2-Tetrachloroethane	83	21.761	21.772	(1.122)	746863	10.0000	9.8
	76 n-Propylbenzene	91	21.884	21.889	(1.128)	1953654	10.0000	9.9
	77 1,2,3-Trichloropropane	75	21.862	21.873	(1.127)	589410	10.0000	9.6
	78 n-Decane	57	22.065	22.070	(1.137)	598967	10.0000	9.1
	79 4-Ethyltoluene	105	22.060	22.070	(1.137)	1814404	10.0000	10
	80 2-Chlorotoluene	91	22.071	22.076	(1.138)	1455672	10.0000	10
	81 1,3,5-Trimethylbenzene	105	22.156	22.166	(1.142)	1511053	10.0000	10
	82 Alpha Methyl Styrene	118	22.503	22.508	(1.160)	784698	10.0000	11
	83 tert-butylbenzene	119	22.631	22.636	(1.166)	1558306	10.0000	10
	84 1,2,4-Trimethylbenzene	105	22.716	22.722	(1.171)	1470374	10.0000	10
	85 sec-Butylbenzene	105	22.940	22.951	(1.182)	2132383	10.0000	10
	86 4-Isopropyltoluene	119	23.138	23.148	(1.193)	1865278	10.0000	10
	87 1,3-Dichlorobenzene	146	23.170	23.180	(1.194)	1080523	10.0000	10
	88 1,4-Dichlorobenzene	146	23.303	23.314	(1.201)	1035534	10.0000	10
	89 Benzyl chloride	91	23.490	23.495	(1.211)	1032769	10.0000	10
	90 Undecane	57	23.773	23.784	(1.225)	519418	10.0000	8.9
	91 n-Butylbenzene	91	23.730	23.741	(1.223)	1303000	10.0000	10
	92 1,2-Dichlorobenzene	146	23.858	23.864	(1.230)	1004702	10.0000	10
	93 Dodecane	57	25.427	25.438	(1.311)	384045	10.0000	11
	94 1,2,4-Trichlorobenzene	180	26.473	26.484	(1.364)	531540	10.0000	12
	95 1,3-Hexachlorobutadiene	225	26.692	26.703	(1.376)	469239	10.0000	10
	96 Naphthalene	128	26.959	26.975	(1.389)	1262761	10.0000	14
	97 1,2,3-Trichlorobenzene	180	27.466	27.482	(1.416)	462118	10.0000	13

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File:	claq002.d	Date:	10-OCT-2012 10:58
Client ID:		Instrument:	C.i
Operator:	WRD	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ccvis 393944		
Lab Sample ID:	ccvis 393944		



Manual Integration Report

Data File: claq002.d
Lab Sample ID: ccvis 393944
Inj. Date and Time: 10-OCT-2012 10:58
Instrument ID: C.i
Client ID:
Compound: 23 Allyl chloride
CAS #: 107-05-1
Report Date: 10/11/2012

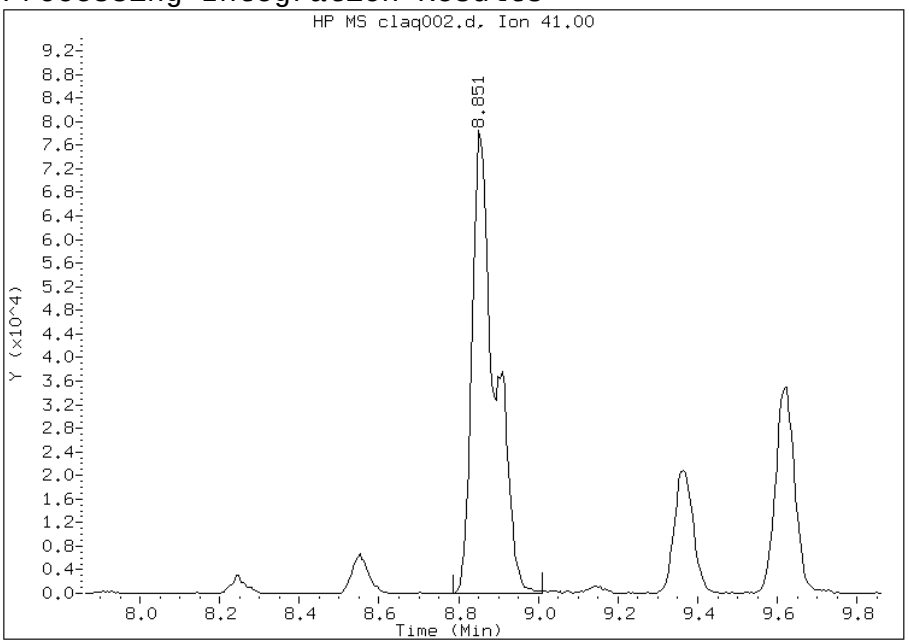
Processing Integration Results

RT: 8.85

Response: 316949

Amount: 12.57

Conc: 12.57



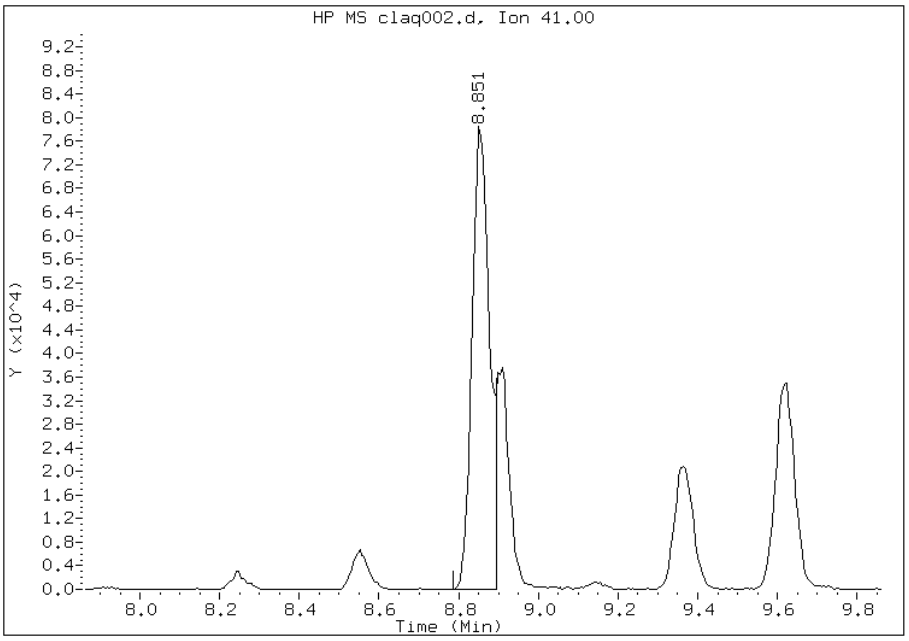
Manual Integration Results

RT: 8.85

Response: 238829

Amount: 9.47

Conc: 9.47



File Uploaded By: wrd
Manual Integration Reason: Baseline event

Manual Integration Report

Data File: claq002.d
Lab Sample ID: ccvis 393944
Inj. Date and Time: 10-OCT-2012 10:58
Instrument ID: C.i
Client ID:
Compound: 24 Acetonitrile
CAS #: 75-05-8
Report Date: 10/11/2012

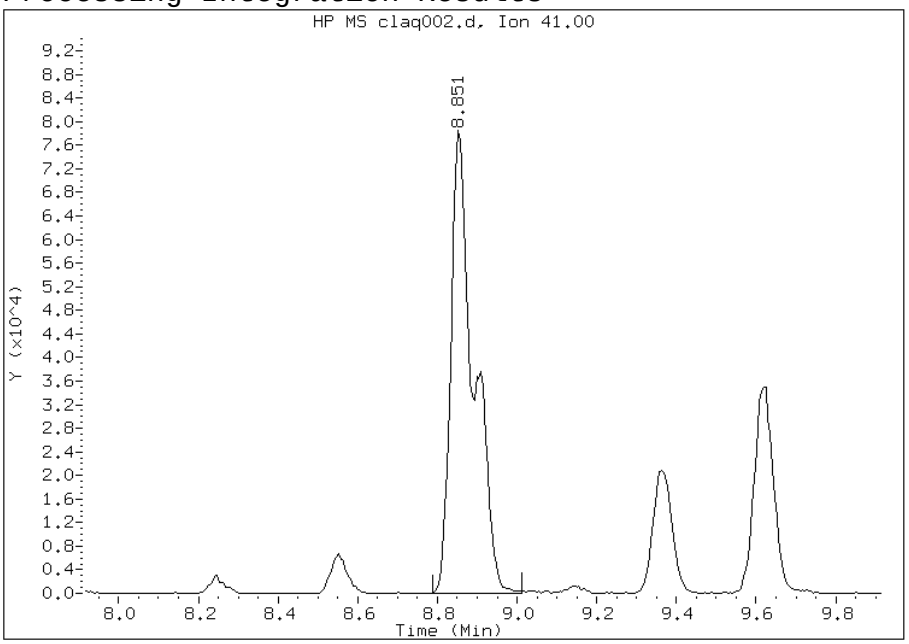
Processing Integration Results

RT: 8.85

Response: 316949

Amount: 29.75

Conc: 29.75



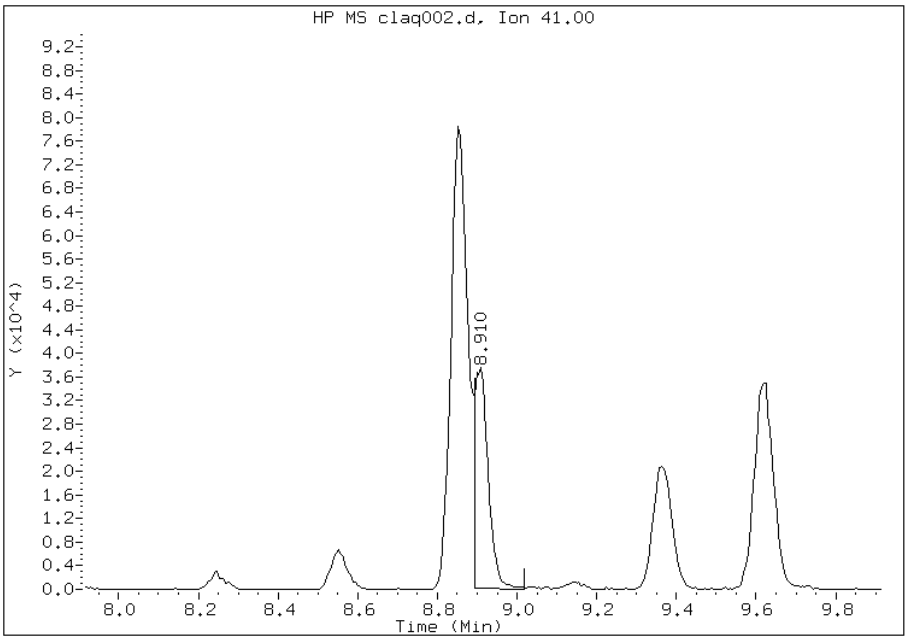
Manual Integration Results

RT: 8.91

Response: 88371

Amount: 8.30

Conc: 8.30



File Uploaded By: wrd
Manual Integration Reason: Baseline event

TestAmerica Burlington

Data file : /chem/C.i/Csvr.p/clato15.b/cla001.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 19-SEP-2012 12:05
Operator : wrd Inst ID: C.i
Smp Info : BFB
Misc Info :
Comment :
Method : /chem/C.i/Csvr.p/clato15.b/bfbto15.m
Meth Date : 08-Aug-2011 11:21 jd1 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

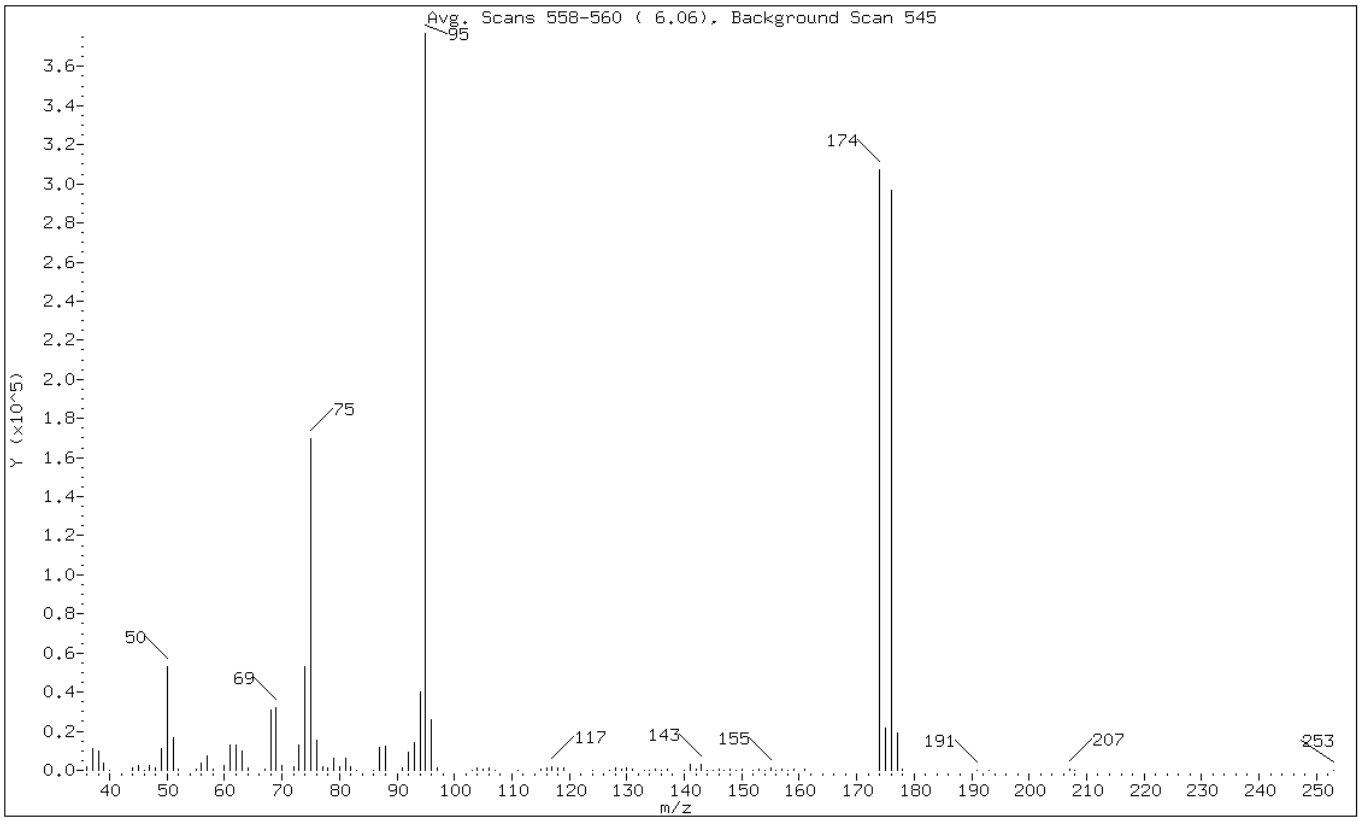
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 bfb						CAS #: 460-00-4		
6.063	6.760	-0.697	95	376938			100.00- 100.00	100.00
6.063	6.760	-0.697	50	52936			8.00- 40.00	14.04
6.063	6.760	-0.697	75	169607			30.00- 66.00	45.00
6.063	6.760	-0.697	96	26162			5.00- 9.00	6.94
6.063	6.760	-0.697	173	0			0.00- 2.00	0.00
6.063	6.760	-0.697	174	306944			50.00- 120.00	81.43
6.063	6.760	-0.697	175	21733			4.00- 9.00	7.08
6.063	6.760	-0.697	176	296938			93.00- 101.00	96.74
6.063	6.760	-0.697	177	18969			5.00- 9.00	6.39

Data File: cla001.d
Client ID: BFB
Operator: wrd
Column Type: Capillary
Stationary Phase: RTX-624
Sample Info: BFB
Lab Sample ID: BFB
1 bfb

Date: 19-SEP-2012 12:05
Instrument: C.i
Inj Vol: 0.0 (ul)
Diameter: 0.32 (mm)



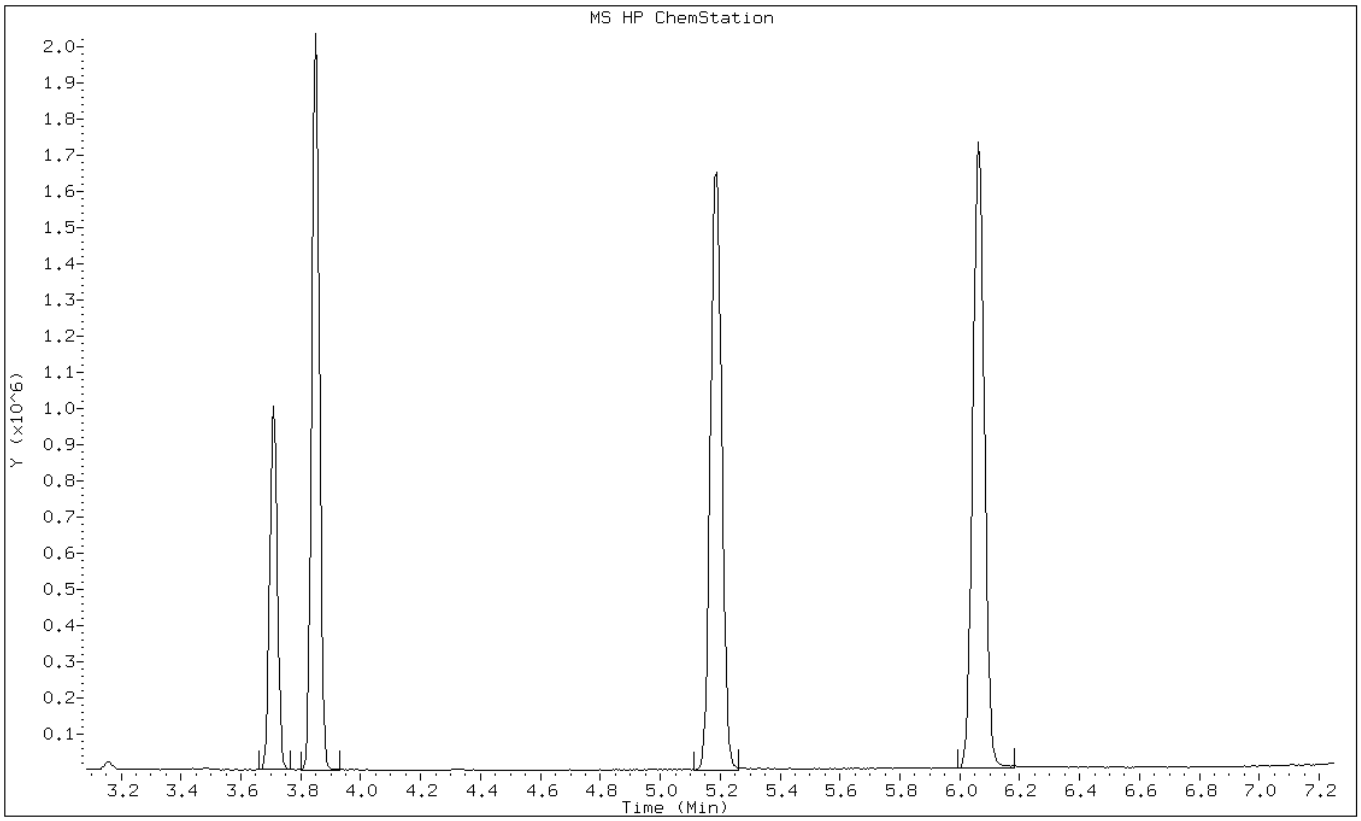
m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	14.04
75	30.00 - 66.00% of mass 95	45.00
96	5.00 - 9.00% of mass 95	6.94
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	81.43
175	4.00 - 9.00% of mass 174	5.77 (7.08)
176	93.00 - 101.00% of mass 174	78.78 (96.74)
177	5.00 - 9.00% of mass 176	5.03 (6.39)

Data File:	cla001.d	Date:	19-SEP-2012 12:05
Client ID:	BFB	Instrument:	C.i
Operator:	wrd	Inj Vol:	0.0 (ul)
Column Type:	Capillary	Diameter:	0.32 (mm)
Stationary Phase:	RTX-624		
Sample Info:	BFB		
Lab Sample ID:	BFB		

Data File: /chem/C.i/Csvr.p/clato15.b/cla001.d
Spectrum: Avg. Scans 558-560 (6.06), Background Scan 545
Location of Maximum: 95.00
Number of points: 101

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1990	70.00	2322	106.00	1086	147.00	219
37.00	10919	72.00	1831	107.00	219	148.00	732
38.00	9955	73.00	12835	111.00	141	149.00	217
39.00	3971	74.00	53344	115.00	363	150.00	423
40.00	288	75.00	169600	116.00	1019	152.00	177
44.00	929	76.00	15343	117.00	1909	153.00	376
45.00	2178	77.00	1672	118.00	1057	154.00	271
46.00	125	78.00	947	119.00	1455	155.00	1130
47.00	2206	79.00	6089	124.00	112	156.00	67
48.00	1307	80.00	2036	127.00	210	157.00	609
49.00	10920	81.00	6466	128.00	1320	158.00	81
50.00	52936	82.00	1814	129.00	545	159.00	402
51.00	16808	83.00	186	130.00	1290	161.00	426
52.00	718	86.00	270	131.00	513	174.00	306944
55.00	714	87.00	11947	133.00	191	175.00	21728
56.00	3715	88.00	12390	134.00	74	176.00	296896
57.00	7120	91.00	947	135.00	396	177.00	18968
58.00	339	92.00	8972	136.00	69	178.00	632
60.00	2460	93.00	14188	137.00	563	191.00	251
61.00	12698	94.00	39800	140.00	160	193.00	171
62.00	13248	95.00	376896	141.00	2879	207.00	433
63.00	9887	96.00	26160	142.00	338	208.00	6
64.00	953	97.00	1016	143.00	3035	253.00	33
67.00	780	103.00	214	144.00	72		
68.00	30984	104.00	1223	145.00	267		
69.00	32296	105.00	457	146.00	501		

Data File:	cla001.d	Date:	19-SEP-2012 12:05
Client ID:	BFB	Instrument:	C.i
Operator:	wrd	Inj Vol:	0.0 (ul)
Column Type:	Capillary	Diameter:	0.32 (mm)
Stationary Phase:	RTX-624		
Sample Info:	BFB		
Lab Sample ID:	BFB		



TestAmerica Burlington

Data file : /chem/C.i/Csvr.p/claqto15.b/claq001.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 10-OCT-2012 10:20
Operator : WRD Inst ID: C.i
Smp Info : BFB
Misc Info : bfb
Comment :
Method : /chem/C.i/Csvr.p/claqto15.b/bfbto15.m
Meth Date : 08-Aug-2011 11:21 jd1 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

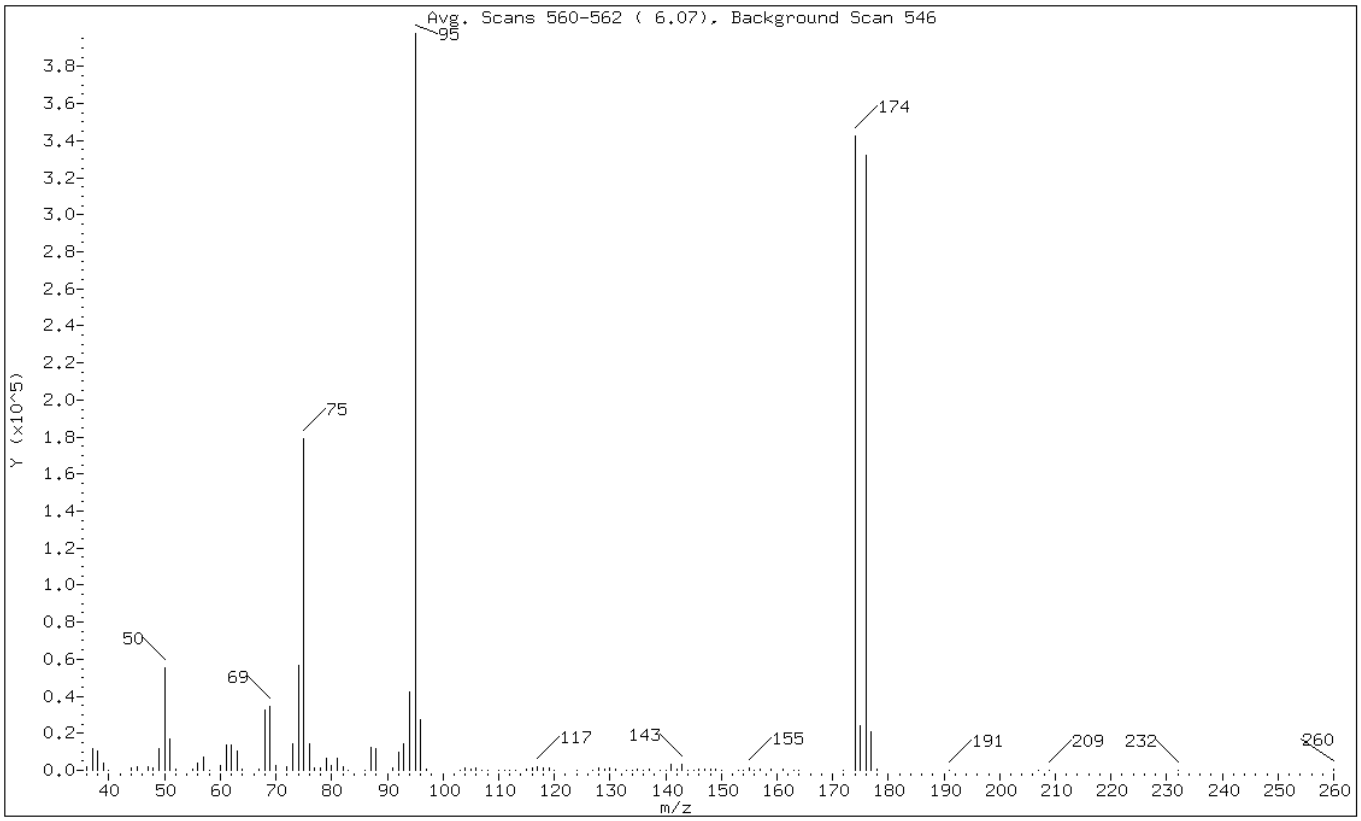
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 bfb						CAS #: 460-00-4		
6.074	6.760	-0.686	95	397845			100.00- 100.00	100.00
6.074	6.760	-0.686	50	55498			8.00- 40.00	13.95
6.074	6.760	-0.686	75	179093			30.00- 66.00	45.02
6.074	6.760	-0.686	96	27444			5.00- 9.00	6.90
6.074	6.760	-0.686	173	0			0.00- 2.00	0.00
6.074	6.760	-0.686	174	342698			50.00- 120.00	86.14
6.074	6.760	-0.686	175	24048			4.00- 9.00	7.02
6.074	6.760	-0.686	176	332202			93.00- 101.00	96.94
6.074	6.760	-0.686	177	21032			5.00- 9.00	6.33

Data File:	claq001.d	Date:	10-OCT-2012 10:20
Client ID:	BFB	Instrument:	C.i
Operator:	WRD	Inj Vol:	0.0 (ul)
Column Type:	Capillary	Diameter:	0.32 (mm)
Stationary Phase:	RTX-624		
Sample Info:	BFB		
Lab Sample ID:	BFB		

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	13.95
75	30.00 - 66.00% of mass 95	45.02
96	5.00 - 9.00% of mass 95	6.90
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	86.14
175	4.00 - 9.00% of mass 174	6.04 (7.02)
176	93.00 - 101.00% of mass 174	83.50 (96.94)
177	5.00 - 9.00% of mass 176	5.29 (6.33)

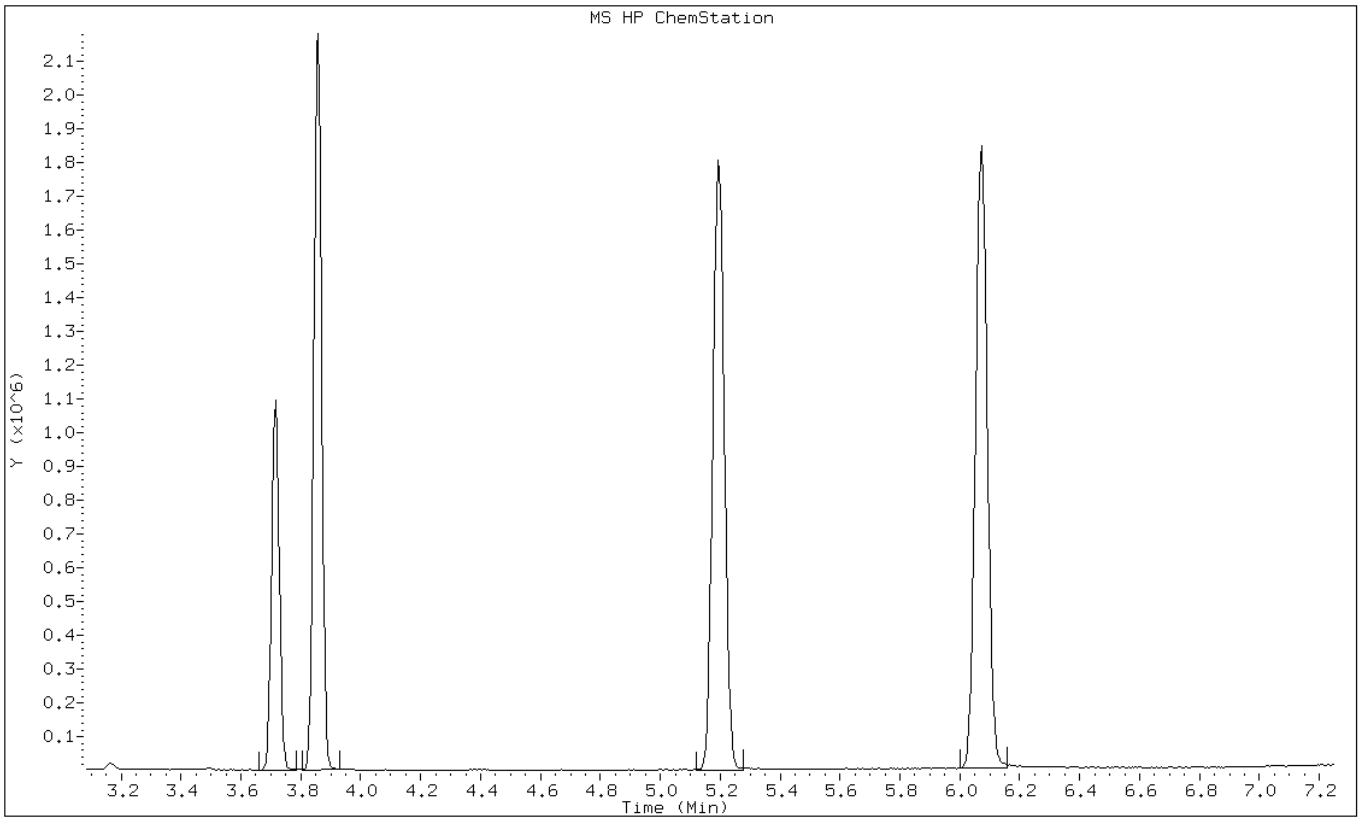
Data File: claq001.d
Client ID: BFB
Operator: WRD
Column Type: Capillary
Stationary Phase: RTX-624
Sample Info: BFB
Lab Sample ID: BFB

Date: 10-OCT-2012 10:20
Instrument: C.i
Inj Vol: 0.0 (ul)
Diameter: 0.32 (mm)

Data File: /chem/C.i/Csvr.p/claqto15.b/claq001.d
Spectrum: Avg. Scans 560-562 (6.07), Background Scan 546
Location of Maximum: 95.00
Number of points: 107

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1987	73.00	14129	110.00	76	145.00	193
37.00	11500	74.00	56456	111.00	69	146.00	610
38.00	10418	75.00	179072	112.00	97	147.00	515
39.00	4046	76.00	14542	113.00	69	148.00	787
40.00	247	77.00	1540	115.00	388	149.00	392
44.00	1384	78.00	1089	116.00	1033	150.00	323
45.00	2150	79.00	6226	117.00	2203	153.00	325
47.00	1999	80.00	2364	118.00	984	154.00	184
48.00	1458	81.00	6618	119.00	1465	155.00	1022
49.00	11729	82.00	1750	120.00	72	156.00	321
50.00	55496	83.00	107	124.00	171	157.00	845
51.00	17040	86.00	114	127.00	174	159.00	491
52.00	805	87.00	12151	128.00	1516	161.00	601
55.00	657	88.00	11789	129.00	723	163.00	81
56.00	3990	91.00	1110	130.00	1353	164.00	70
57.00	7451	92.00	9452	131.00	596	172.00	82
58.00	241	93.00	14626	133.00	26	174.00	342656
60.00	2526	94.00	42224	134.00	90	175.00	24048
61.00	13473	95.00	397824	135.00	389	176.00	332160
62.00	13768	96.00	27440	136.00	72	177.00	21032
63.00	10158	97.00	944	137.00	483	178.00	600
64.00	938	103.00	294	139.00	94	191.00	1
67.00	808	104.00	1294	140.00	159	207.00	70
68.00	32520	105.00	565	141.00	3094	209.00	84
69.00	34304	106.00	1194	142.00	380	232.00	84
70.00	2539	107.00	263	143.00	3447	260.00	382
72.00	1651	108.00	78	144.00	78		

Data File:	claq001.d	Date:	10-OCT-2012 10:20
Client ID:	BFB	Instrument:	C.i
Operator:	WRD	Inj Vol:	0.0 (ul)
Column Type:	Capillary	Diameter:	0.32 (mm)
Stationary Phase:	RTX-624		
Sample Info:	BFB		
Lab Sample ID:	BFB		



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Client Sample ID: Lab Sample ID: MB 200-46287/4

Matrix: Air Lab File ID: claq004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 10/10/2012 12:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 46287 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.50	U	0.50	0.020
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.020
74-87-3	Chloromethane	50.49	0.50	U	0.50	0.034
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.0091
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.025
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.027
75-00-3	Chloroethane	64.52	0.50	U	0.50	0.033
75-69-4	Trichlorofluoromethane	137.37	0.20	U	0.20	0.021
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.086
67-64-1	Acetone	58.08	5.0	U	5.0	0.40
67-63-0	Isopropyl alcohol	60.10	5.0	U	5.0	0.076
75-15-0	Carbon disulfide	76.14	0.50	U	0.50	0.020
75-09-2	Methylene Chloride	84.93	0.50	U	0.50	0.023
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.015
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.023
110-54-3	n-Hexane	86.17	0.20	U	0.20	0.020
75-34-3	1,1-Dichloroethane	98.96	0.20	U	0.20	0.023
78-93-3	Methyl Ethyl Ketone	72.11	0.50	U	0.50	0.025
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.084
67-66-3	Chloroform	119.38	0.20	U	0.20	0.024
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	0.029
71-55-6	1,1,1-Trichloroethane	133.41	0.20	U	0.20	0.020
110-82-7	Cyclohexane	84.16	0.20	U	0.20	0.019
56-23-5	Carbon tetrachloride	153.81	0.20	U	0.20	0.013
71-43-2	Benzene	78.11	0.20	U	0.20	0.018
107-06-2	1,2-Dichloroethane	98.96	0.20	U	0.20	0.018
142-82-5	n-Heptane	100.21	0.20	U	0.20	0.017
79-01-6	Trichloroethene	131.39	0.20	U	0.20	0.0092
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.023
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.012
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.013
108-10-1	methyl isobutyl ketone	100.16	0.50	U	0.50	0.034
108-88-3	Toluene	92.14	0.20	U	0.20	0.014
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.015
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.016

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-12991-1

SDG No.: 200-12991

Client Sample ID: | Lab Sample ID: MB 200-46287/4

Matrix: Air | Lab File ID: claq004.d

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 10/10/2012 12:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 46287 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	0.015
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	0.040
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.011
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.014
108-90-7	Chlorobenzene	112.30	0.20	U	0.20	0.013
100-41-4	Ethylbenzene	106.17	0.20	U	0.20	0.015
179601-23-1	m,p-Xylene	106.17	0.50	U	0.50	0.022
95-47-6	Xylene, o-	106.17	0.20	U	0.20	0.016
1330-20-7	Xylene (total)	106.17	0.20	U	0.20	0.016
100-42-5	Styrene	104.15	0.20	U	0.20	0.011
75-25-2	Bromoform	252.75	0.20	U	0.20	0.0072
98-82-8	Cumene	120.19	0.20	U	0.20	0.011
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.011
103-65-1	n-Propylbenzene	120.19	0.20	U	0.20	0.013
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	0.015
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	0.019
95-63-6	1,2,4-Trimethylbenzene	120.20	0.20	U	0.20	0.021
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.019
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	0.018
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.022
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.026
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.030
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.029

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Client Sample ID: Lab Sample ID: MB 200-46287/4

Matrix: Air Lab File ID: claq004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 10/10/2012 12:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 46287 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.5	U	2.5	0.099
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	0.14
74-87-3	Chloromethane	50.49	1.0	U	1.0	0.070
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	0.023
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.055
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.10
75-00-3	Chloroethane	64.52	1.3	U	1.3	0.087
75-69-4	Trichlorofluoromethane	137.37	1.1	U	1.1	0.12
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.34
67-64-1	Acetone	58.08	12	U	12	0.95
67-63-0	Isopropyl alcohol	60.10	12	U	12	0.19
75-15-0	Carbon disulfide	76.14	1.6	U	1.6	0.062
75-09-2	Methylene Chloride	84.93	1.7	U	1.7	0.080
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.054
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.091
110-54-3	n-Hexane	86.17	0.70	U	0.70	0.070
75-34-3	1,1-Dichloroethane	98.96	0.81	U	0.81	0.093
78-93-3	Methyl Ethyl Ketone	72.11	1.5	U	1.5	0.074
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.33
67-66-3	Chloroform	119.38	0.98	U	0.98	0.12
109-99-9	Tetrahydrofuran	72.11	15	U	15	0.086
71-55-6	1,1,1-Trichloroethane	133.41	1.1	U	1.1	0.11
110-82-7	Cyclohexane	84.16	0.69	U	0.69	0.065
56-23-5	Carbon tetrachloride	153.81	1.3	U	1.3	0.082
71-43-2	Benzene	78.11	0.64	U	0.64	0.058
107-06-2	1,2-Dichloroethane	98.96	0.81	U	0.81	0.073
142-82-5	n-Heptane	100.21	0.82	U	0.82	0.070
79-01-6	Trichloroethene	131.39	1.1	U	1.1	0.049
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.11
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	0.080
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.059
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	0.14
108-88-3	Toluene	92.14	0.75	U	0.75	0.053
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.068
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	0.087

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Client Sample ID: Lab Sample ID: MB 200-46287/4

Matrix: Air Lab File ID: claq004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 10/10/2012 12:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 46287 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	0.10
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	0.16
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	0.094
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	0.11
108-90-7	Chlorobenzene	112.30	0.92	U	0.92	0.060
100-41-4	Ethylbenzene	106.17	0.87	U	0.87	0.065
179601-23-1	m,p-Xylene	106.17	2.2	U	2.2	0.096
95-47-6	Xylene, o-	106.17	0.87	U	0.87	0.069
1330-20-7	Xylene (total)	106.17	0.87	U	0.87	0.069
100-42-5	Styrene	104.15	0.85	U	0.85	0.047
75-25-2	Bromoform	252.75	2.1	U	2.1	0.074
98-82-8	Cumene	120.19	0.98	U	0.98	0.054
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	0.076
103-65-1	n-Propylbenzene	120.19	0.98	U	0.98	0.064
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	0.074
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	0.093
95-63-6	1,2,4-Trimethylbenzene	120.20	0.98	U	0.98	0.10
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	0.11
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	0.11
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.11
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	0.16
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	0.22
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	0.31

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/claqto15.b/claq004.d
Lab Smp Id: mb
Inj Date : 10-OCT-2012 12:39
Operator : WRD Inst ID: C.i
Smp Info : mb
Misc Info : 200,1,mb
Comment :
Method : /chem/C.i/Csvr.p/claqto15.b/to15v5.m
Meth Date : 11-Oct-2012 10:12 wrd Quant Type: ISTD
Cal Date : 19-SEP-2012 20:06 Cal File: cla010.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

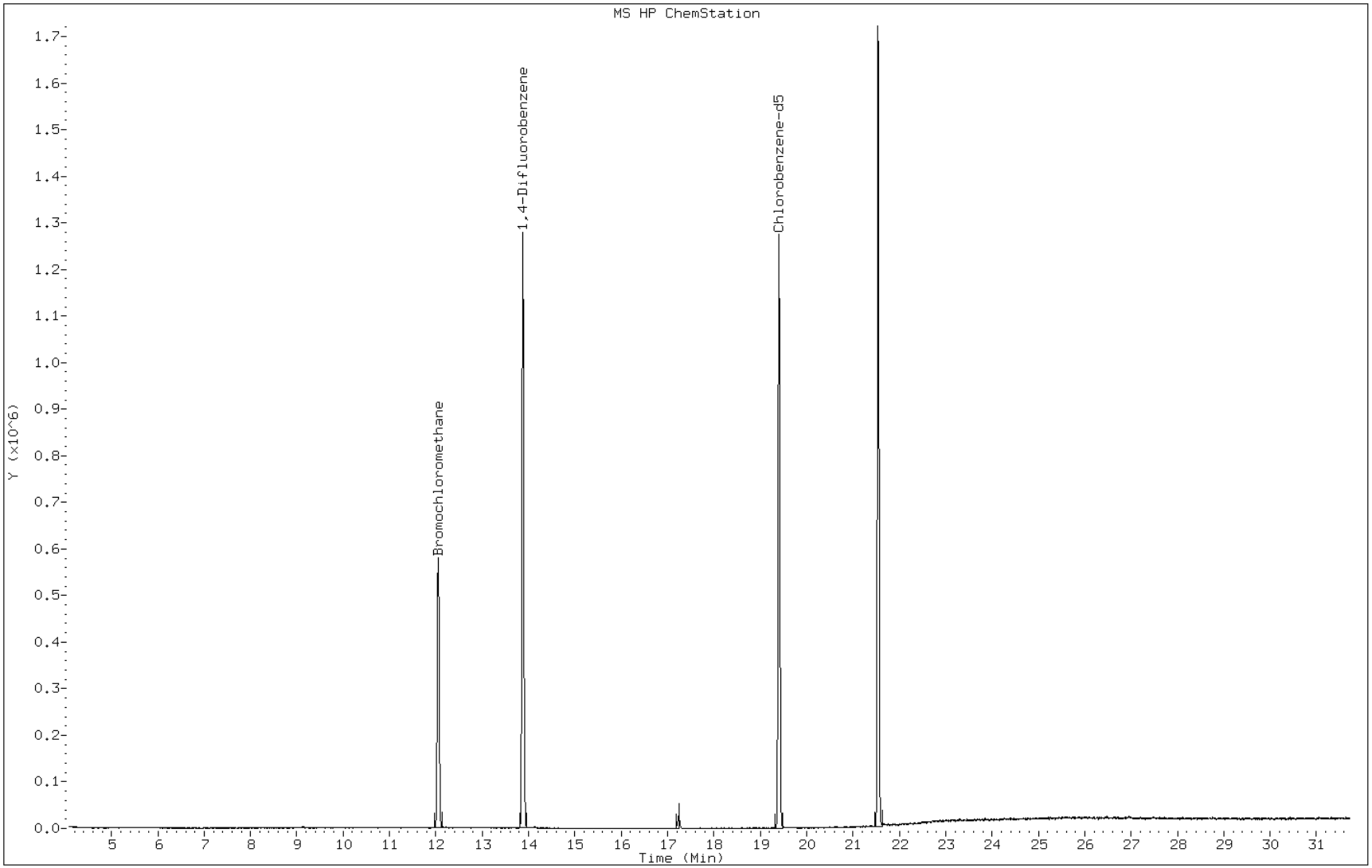
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
1 Propene	41	Compound Not Detected.					
2 Dichlorodifluoromethane	85	Compound Not Detected.					
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	Compound Not Detected.					
6 Butane	43	Compound Not Detected.					
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
11 2-Methylbutane	43	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Pentane	43	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	15 Ethanol	45	Compound Not Detected.					
	16 Ethyl ether	59	Compound Not Detected.					
	17 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
	18 Acrolein	56	Compound Not Detected.					
	19 1,1-Dichloroethene	96	Compound Not Detected.					
	20 Acetone	43	Compound Not Detected.					
	21 Carbon disulfide	76	Compound Not Detected.					
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	24 Acetonitrile	41	Compound Not Detected.					
	25 Methylene chloride	49	Compound Not Detected.					
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	29 Acrylonitrile	53	Compound Not Detected.					
	30 n-Hexane	57	Compound Not Detected.					
	31 1,1-Dichloroethane	63	Compound Not Detected.					
	32 Vinyl acetate	43	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.					
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.					
	35 Ethyl acetate	88	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	Compound Not Detected.					
*	37 Bromochloromethane	128	12.053	12.069	(1.000)	292068	10.0000	
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	Compound Not Detected.					
	40 Cyclohexane	84	Compound Not Detected.					
	41 1,1,1-Trichloroethane	97	Compound Not Detected.					
	42 Carbon tetrachloride	117	Compound Not Detected.					
	43 2,2,4-Trimethylpentane	57	Compound Not Detected.					
	44 Benzene	78	Compound Not Detected.					
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	13.878	13.894	(1.000)	1753478	10.0000	
	48 n-Butanol	56	Compound Not Detected.					
	49 Trichloroethene	95	Compound Not Detected.					
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	52 Dibromomethane	174	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	Compound Not Detected.					
	57 n-Octane	43	Compound Not Detected.					
	58 Toluene	92	Compound Not Detected.					
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	19.402	19.418	(1.000)	1347865	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	67 n-Nonane	57	Compound Not Detected.					
	68 Ethylbenzene	91	Compound Not Detected.					
	69 Xylene (m,p)	106	Compound Not Detected.					
M	70 Xylenes, Total	106	Compound Not Detected.					
	71 Xylene (o)	106	Compound Not Detected.					
	72 Styrene	104	Compound Not Detected.					
	73 Bromoform	173	Compound Not Detected.					
	74 Isopropylbenzene	105	Compound Not Detected.					
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	76 n-Propylbenzene	91	Compound Not Detected.					
	77 1,2,3-Trichloropropane	75	Compound Not Detected.					
	78 n-Decane	57	Compound Not Detected.					
	79 4-Ethyltoluene	105	Compound Not Detected.					
	80 2-Chlorotoluene	91	Compound Not Detected.					
	81 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	82 Alpha Methyl Styrene	118	Compound Not Detected.					
	83 tert-butylbenzene	119	Compound Not Detected.					
	84 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	85 sec-Butylbenzene	105	Compound Not Detected.					
	86 4-Isopropyltoluene	119	Compound Not Detected.					
	87 1,3-Dichlorobenzene	146	Compound Not Detected.					
	88 1,4-Dichlorobenzene	146	Compound Not Detected.					
	89 Benzyl chloride	91	Compound Not Detected.					
	90 Undecane	57	Compound Not Detected.					
	91 n-Butylbenzene	91	Compound Not Detected.					
	92 1,2-Dichlorobenzene	146	Compound Not Detected.					
	93 Dodecane	57	Compound Not Detected.					
	94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
	96 Naphthalene	128	Compound Not Detected.					
	97 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

Data File:	claq004.d	Date:	10-OCT-2012 12:39
Client ID:		Instrument:	C.i
Operator:	WRD	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	mb		
Lab Sample ID:	mb		



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-12991-1

SDG No.: 200-12991

Client Sample ID: | Lab Sample ID: LCS 200-46287/3

Matrix: Air | Lab File ID: claq003.d

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 10/10/2012 11:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 46287 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	10.5		0.50	0.020
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	10.1		0.20	0.020
74-87-3	Chloromethane	50.49	9.72		0.50	0.034
75-01-4	Vinyl chloride	62.50	9.59		0.20	0.0091
106-99-0	1,3-Butadiene	54.09	10.1		0.20	0.025
74-83-9	Bromomethane	94.94	9.92		0.20	0.027
75-00-3	Chloroethane	64.52	9.57		0.50	0.033
75-69-4	Trichlorofluoromethane	137.37	9.97		0.20	0.021
75-35-4	1,1-Dichloroethene	96.94	10.8		0.20	0.086
67-64-1	Acetone	58.08	7.20		5.0	0.40
67-63-0	Isopropyl alcohol	60.10	8.99		5.0	0.076
75-15-0	Carbon disulfide	76.14	9.85		0.50	0.020
75-09-2	Methylene Chloride	84.93	9.63		0.50	0.023
1634-04-4	Methyl tert-butyl ether	88.15	8.23		0.20	0.015
156-60-5	trans-1,2-Dichloroethene	96.94	9.47		0.20	0.023
110-54-3	n-Hexane	86.17	9.30		0.20	0.020
75-34-3	1,1-Dichloroethane	98.96	9.58		0.20	0.023
78-93-3	Methyl Ethyl Ketone	72.11	7.84		0.50	0.025
156-59-2	cis-1,2-Dichloroethene	96.94	9.98		0.20	0.084
67-66-3	Chloroform	119.38	9.83		0.20	0.024
109-99-9	Tetrahydrofuran	72.11	7.81		5.0	0.029
71-55-6	1,1,1-Trichloroethane	133.41	10.1		0.20	0.020
110-82-7	Cyclohexane	84.16	10.2		0.20	0.019
56-23-5	Carbon tetrachloride	153.81	10.3		0.20	0.013
71-43-2	Benzene	78.11	9.67		0.20	0.018
107-06-2	1,2-Dichloroethane	98.96	9.86		0.20	0.018
142-82-5	n-Heptane	100.21	9.21		0.20	0.017
79-01-6	Trichloroethene	131.39	9.78		0.20	0.0092
78-87-5	1,2-Dichloropropane	112.99	9.28		0.20	0.023
75-27-4	Bromodichloromethane	163.83	10.5		0.20	0.012
10061-01-5	cis-1,3-Dichloropropene	110.97	9.13		0.20	0.013
108-10-1	methyl isobutyl ketone	100.16	9.68		0.50	0.034
108-88-3	Toluene	92.14	10.3		0.20	0.014
10061-02-6	trans-1,3-Dichloropropene	110.97	8.65		0.20	0.015
79-00-5	1,1,2-Trichloroethane	133.41	10.1		0.20	0.016

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Client Sample ID: Lab Sample ID: LCS 200-46287/3

Matrix: Air Lab File ID: claq003.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 10/10/2012 11:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 46287 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	165.83	11.6		0.20	0.015
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	11.4		0.50	0.040
124-48-1	Dibromochloromethane	208.29	12.2		0.20	0.011
106-93-4	1,2-Dibromoethane	187.87	10.9		0.20	0.014
108-90-7	Chlorobenzene	112.30	10.5		0.20	0.013
100-41-4	Ethylbenzene	106.17	9.98		0.20	0.015
179601-23-1	m,p-Xylene	106.17	20.2		0.50	0.022
95-47-6	Xylene, o-	106.17	9.99		0.20	0.016
1330-20-7	Xylene (total)	106.17	30.2		0.20	0.016
100-42-5	Styrene	104.15	10.7		0.20	0.011
75-25-2	Bromoform	252.75	11.9		0.20	0.0072
98-82-8	Cumene	120.19	10.3		0.20	0.011
79-34-5	1,1,2,2-Tetrachloroethane	167.85	9.79		0.20	0.011
103-65-1	n-Propylbenzene	120.19	10.1		0.20	0.013
622-96-8	4-Ethyltoluene	120.20	10.5		0.20	0.015
108-67-8	1,3,5-Trimethylbenzene	120.20	9.99		0.20	0.019
95-63-6	1,2,4-Trimethylbenzene	120.20	10.0		0.20	0.021
541-73-1	1,3-Dichlorobenzene	147.00	10.5		0.20	0.019
106-46-7	1,4-Dichlorobenzene	147.00	10.5		0.20	0.018
100-44-7	Benzyl chloride	126.58	11.6		0.20	0.022
95-50-1	1,2-Dichlorobenzene	147.00	10.5		0.20	0.026
120-82-1	1,2,4-Trichlorobenzene	181.45	14.5		0.50	0.030
87-68-3	Hexachlorobutadiene	260.76	11.3		0.20	0.029

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/claqto15.b/claq003.d
Lab Smp Id: lcs 393263
Inj Date : 10-OCT-2012 11:49
Operator : WRD Inst ID: C.i
Smp Info : lcs 393263
Misc Info : 200,1, lcs
Comment :
Method : /chem/C.i/Csvr.p/claqto15.b/to15v5.m
Meth Date : 11-Oct-2012 10:12 wrd Quant Type: ISTD
Cal Date : 19-SEP-2012 20:06 Cal File: cla010.d
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
1 Propene	41	4.208	4.208	(0.349)	154641	9.85211	9.9
2 Dichlorodifluoromethane	85	4.298	4.304	(0.356)	905251	10.4975	10
3 Chlorodifluoromethane	51	4.357	4.363	(0.361)	382099	10.0622	10
4 1,2-Dichloro-1,1,2,2-tetraflu	85	4.645	4.651	(0.385)	873607	10.1343	10
5 Chloromethane	50	4.800	4.811	(0.398)	177954	9.71535	9.7
6 Butane	43	5.072	5.078	(0.421)	288490	9.30278	9.3
7 Vinyl chloride	62	5.110	5.115	(0.424)	235484	9.58690	9.6
8 1,3-Butadiene	54	5.206	5.216	(0.432)	168081	10.0707	10
9 Bromomethane	94	5.996	5.990	(0.497)	267679	9.91721	9.9
10 Chloroethane	64	6.262	6.268	(0.519)	113460	9.57194	9.6
11 2-Methylbutane	43	6.380	6.380	(0.529)	199676	9.00670	9.0
12 Vinyl bromide	106	6.705	6.711	(0.556)	321787	10.4864	10
13 Trichlorofluoromethane	101	6.839	6.844	(0.567)	901514	9.97178	10
14 Pentane	43	7.004	7.010	(0.581)	311229	8.86760	8.9

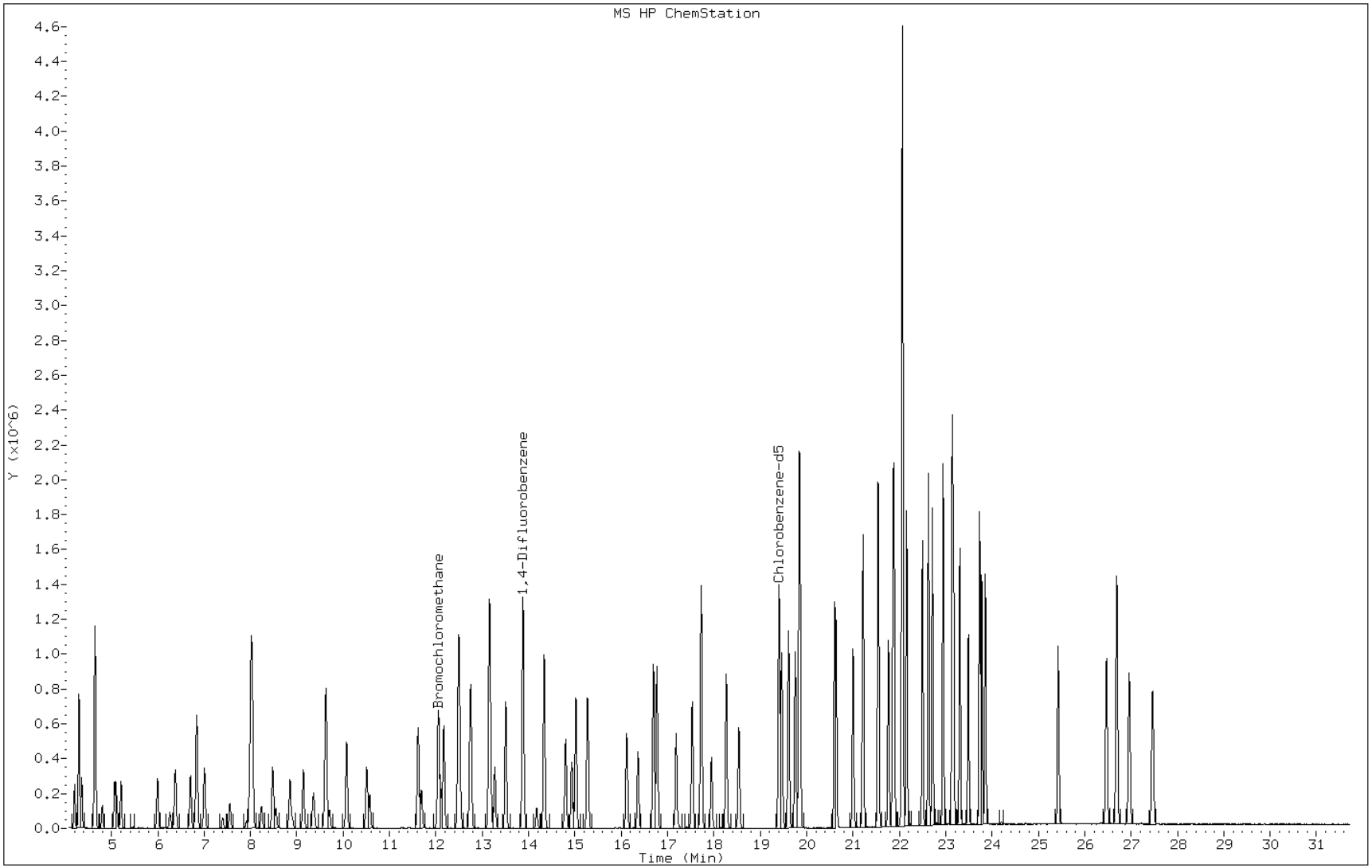
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	15 Ethanol	45	7.559	7.522	(0.627)	73255	13.3932	13(Q)
	16 Ethyl ether	59	7.554	7.565	(0.626)	124216	7.61083	7.6(Q)
	17 1,1,2-Trichloro-1,2,2-trifluo	101	8.008	8.018	(0.664)	688057	10.9322	11
	18 Acrolein	56	7.906	7.917	(0.656)	49352	6.99929	7.0(R)
	19 1,1-Dichloroethene	96	8.045	8.050	(0.667)	323548	10.8139	11
	20 Acetone	43	8.242	8.248	(0.684)	231664	7.19605	7.2
	21 Carbon disulfide	76	8.483	8.488	(0.703)	750127	9.85243	9.9
	22 Isopropanol	45	8.547	8.632	(0.709)	193878	8.98666	9.0
	23 Allyl chloride	41	8.851	8.862	(0.734)	245442	9.38022	9.4(M)
	24 Acetonitrile	41	8.904	8.915	(0.738)	80503	7.28349	7.3(QM)
	25 Methylene chloride	49	9.139	9.150	(0.758)	225975	9.63241	9.6
	26 Tert-butyl alcohol	59	9.358	9.433	(0.776)	380696	9.76452	9.8
	27 Methyl tert-butyl ether	73	9.619	9.619	(0.798)	682126	8.22720	8.2
	28 1,2-Dichloroethene (trans)	61	9.635	9.641	(0.799)	361897	9.46860	9.5
	29 Acrylonitrile	53	9.699	9.715	(0.804)	110585	7.88767	7.9
	30 n-Hexane	57	10.073	10.084	(0.835)	360694	9.29784	9.3
	31 1,1-Dichloroethane	63	10.511	10.521	(0.872)	470914	9.58392	9.6
	32 Vinyl acetate	43	10.575	10.580	(0.877)	364554	7.38505	7.4
M	33 1,2-Dichloroethene,Total	61				711760	19.4526	19
	34 1,2-Dichloroethene (cis)	96	11.610	11.621	(0.963)	349863	9.98404	10
	35 Ethyl acetate	88	11.701	11.701	(0.970)	22867	8.52605	8.5
	36 Methyl Ethyl Ketone	72	11.631	11.642	(0.965)	103427	7.83685	7.8(Q)
*	37 Bromochloromethane	128	12.058	12.069	(1.000)	338569	10.0000	
	38 Tetrahydrofuran	42	12.106	12.117	(0.872)	160616	7.81025	7.8
	39 Chloroform	83	12.170	12.186	(1.009)	667539	9.82765	9.8
	40 Cyclohexane	84	12.512	12.523	(0.901)	455088	10.1903	10
	41 1,1,1-Trichloroethane	97	12.485	12.501	(0.899)	782103	10.1373	10
	42 Carbon tetrachloride	117	12.747	12.758	(0.918)	820820	10.2788	10
	43 2,2,4-Trimethylpentane	57	13.163	13.174	(0.948)	1176208	9.63881	9.6
	44 Benzene	78	13.152	13.163	(0.947)	907252	9.66903	9.7
	45 1,2-Dichloroethane	62	13.270	13.286	(0.956)	436157	9.85908	9.9
	46 n-Heptane	43	13.510	13.515	(0.973)	370331	9.21202	9.2
*	47 1,4-Difluorobenzene	114	13.884	13.894	(1.000)	1826106	10.0000	
	48 n-Butanol	56	14.172	14.204	(1.021)	99153	11.1127	11
	49 Trichloroethene	95	14.337	14.348	(1.033)	462039	9.77584	9.8
	50 1,2-Dichloropropane	63	14.796	14.812	(1.066)	263906	9.27825	9.3
	51 Methyl methacrylate	69	14.930	14.946	(1.075)	215388	8.27936	8.3
	52 Dibromomethane	174	15.026	15.036	(1.082)	436576	10.3736	10
	53 1,4-Dioxane	88	14.999	15.020	(1.080)	113470	8.99247	9.0
	54 Bromodichloromethane	83	15.276	15.293	(1.100)	751495	10.4575	10
	55 1,3-Dichloropropene (cis)	75	16.120	16.136	(1.161)	469473	9.12879	9.1
	56 Methyl isobutyl ketone	43	16.360	16.381	(1.178)	378717	9.68477	9.7
	57 n-Octane	43	16.771	16.782	(1.208)	488748	8.72279	8.7
	58 Toluene	92	16.696	16.707	(0.861)	693630	10.3072	10
	59 1,3-Dichloropropene (trans)	75	17.182	17.203	(1.238)	460261	8.64723	8.6
	60 1,1,2-Trichloroethane	83	17.529	17.550	(0.903)	284171	10.1335	10
	61 Tetrachloroethene	166	17.726	17.737	(0.914)	712084	11.5805	12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	62 2-Hexanone	43	17.950	17.966	(0.925)	356763	11.3885	11
	63 Dibromochloromethane	129	18.265	18.287	(0.941)	799821	12.1670	12
	64 1,2-Dibromoethane	107	18.537	18.553	(0.955)	629747	10.9184	11
*	65 Chlorobenzene-d5	117	19.402	19.418	(1.000)	1469346	10.0000	
	66 Chlorobenzene	112	19.461	19.477	(1.003)	1016834	10.5247	11
	67 n-Nonane	57	19.754	19.765	(1.018)	485269	9.75110	9.8
	68 Ethylbenzene	91	19.610	19.626	(1.011)	1363826	9.97522	10
	69 Xylene (m,p)	106	19.845	19.861	(1.023)	1198320	20.2175	20
M	70 Xylenes, Total	106				1777955	30.2060	30
	71 Xylene (o)	106	20.603	20.619	(1.062)	579635	9.98844	10
	72 Styrene	104	20.640	20.651	(1.064)	864716	10.7331	11
	73 Bromoform	173	21.003	21.014	(1.083)	707430	11.9416	12
	74 Isopropylbenzene	105	21.216	21.227	(1.094)	1671064	10.2707	10
	75 1,1,2,2-Tetrachloroethane	83	21.761	21.772	(1.122)	663426	9.78656	9.8
	76 n-Propylbenzene	91	21.884	21.889	(1.128)	1771417	10.1114	10
	77 1,2,3-Trichloropropane	75	21.862	21.873	(1.127)	536657	9.86386	9.9
	78 n-Decane	57	22.065	22.070	(1.137)	530174	9.04819	9.0
	79 4-Ethyltoluene	105	22.060	22.070	(1.137)	1650596	10.5084	11
	80 2-Chlorotoluene	91	22.070	22.076	(1.138)	1359217	10.5265	11
	81 1,3,5-Trimethylbenzene	105	22.156	22.166	(1.142)	1331895	9.99306	10
	82 Alpha Methyl Styrene	118	22.503	22.508	(1.160)	709600	11.2638	11
	83 tert-butylbenzene	119	22.625	22.636	(1.166)	1415930	10.3500	10
	84 1,2,4-Trimethylbenzene	105	22.716	22.722	(1.171)	1282716	10.0236	10
	85 sec-Butylbenzene	105	22.940	22.951	(1.182)	1911630	10.1640	10
	86 4-Isopropyltoluene	119	23.138	23.148	(1.193)	1725076	10.7747	11
	87 1,3-Dichlorobenzene	146	23.170	23.180	(1.194)	973659	10.4877	10
	88 1,4-Dichlorobenzene	146	23.303	23.314	(1.201)	949039	10.5439	11
	89 Benzyl chloride	91	23.490	23.495	(1.211)	1025113	11.6232	12
	90 Undecane	57	23.773	23.784	(1.225)	561277	10.8755	11
	91 n-Butylbenzene	91	23.730	23.741	(1.223)	1294363	11.1835	11
	92 1,2-Dichlorobenzene	146	23.853	23.864	(1.229)	897721	10.4948	10
	93 Dodecane	57	25.427	25.438	(1.311)	453395	14.7959	15(R)
	94 1,2,4-Trichlorobenzene	180	26.468	26.484	(1.364)	547975	14.5302	15(R)
	95 1,3-Hexachlorobutadiene	225	26.692	26.703	(1.376)	465617	11.3425	11
	96 Naphthalene	128	26.959	26.975	(1.389)	1358407	16.4241	16(R)
	97 1,2,3-Trichlorobenzene	180	27.466	27.482	(1.416)	477352	15.5774	16(R)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File:	claq003.d	Date:	10-OCT-2012 11:49
Client ID:		Instrument:	C.i
Operator:	WRD	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	lcs 393263		
Lab Sample ID:	lcs 393263		



#45259 NTCL
#45233 TO15

GC/MS Air Instrument Run Log

Sequence		Standard Traceability		Instrument Information
Target Batch ID: CLA	Start Date: 9/19/12 Time: 1205	ISTD Container ID:	248052	Instrument ID: C
Test Method: TO15	End Date: 9/20/12 Time: 1205	CCV Container ID:	see Comment	Instrument: 5973
ICAL Date: 9/19/12		ICV/LCS Container ID:	see Comment	Column Type: RTX-624

Analyst / Supervisor Signature(s): *Insert signature when specified as project requirement. Otherwise leave this section blank.*

Mark Phillips MTP William Des Jardins WMD
Mark Phillips William Des Jardins

Sequence Information								Individual Sample Review			
Injection Time	GC/MS File Name	Summa Can ID	TALS Sample ID	Dilution Factor	Inlet #	Volume (mL)	Operator	Internal Std.	Result Conc.	Primary Anal.	Comments
1205	CLA001		BFB	NA	NA	NA	WRD	NA	NA	WRD	
1258	02	4633	VIBLK		1	200			✓		
1352	03	3643	DC LVL 8		2	40			✓		376201
1445	04	↓	DC LVL 1		2	200			✓		↓
1538	05	3014	DC LVL 2		3				✓		376203
1632	06	2572	DC LVL 3		4				✓		370618
1725	07	4837	DCDS LVL 4		5				✓		380699
1819	08	3089	DC LVL 5		6				✓		370603
1913	09	4943	DC LVL 6		7				✓		370601
2006	10	3649	DC LVL 7		8				✓		370600
2100	11	4633	VIBLK		1	↓		↓			
2153	12	3088	ICV NATURE		9	200		✓	↑		373262
2247	13	4833	VIBLK		1	1	↓				
0917	14	3308	ICV		10	200	WRD	✓	✓		370621 AG
1013	15	4633	MB	↓	1	↓	↓	✓	✓	↓	

WMD 9/20/12

Legend: C=Complete • R=Reanalyze • ↑ = High • ↓= Low • ✓=Reviewed and Acceptable

#46252

GC/MS Air Instrument Run Log

Sequence			Standard Traceability		Instrument Information
Target Batch ID: 246	Start Date: 10/10/12	Time: 1020	ISTD Container ID:	248052	Instrument ID: C
Test Method: TO15	End Date: 10/11/12	Time: [illegible]	CCV Container ID:	343944	Instrument: 5973
ICAL Date: 4/12/12			ICV/LCS Container ID:	343263	Column Type: RTX-624

Analyst / Supervisor Signature(s): *Insert signature when specified as project requirement. Otherwise leave this section blank.*

Sequence Information								Individual Sample Review			
Injection Time	GC/MS File Name	Summa Can ID	TALS Sample ID	Dilution Factor	Inlet #	Volume (mL)	Operator	Internal Std.	Result Conc.	Primary Anal.	Comments
1020	CA6601		BFB	N/A			WKO			WKO	
1058	02	3152	CCV15	1	1	200			✓		AG
1149	03	2518	LCS		2			✓	✓		1247087 Mg/L
1239	04	4633	MB		3			✓	✓		
1330	05	3547	12990-1	10	4	20		✓	✓		
1421	06	2757	12991-1	10	5	20		✓	↑		
1512	07	3243	13038-1	1	6	200		✓	✓	WKO	
1606	08	3243	-100		6			✓	✓		
1657	09	2488	-2		7			✓	↑		
1748	10	2977	-3		8			✓	✓		
1838	11	2576	45485-1	1	9	200		✓	✓		
1924	12	2732	12991-1	15.1	10	133	WKO	✓	✓		
2020	13	4256	13131-5	0.4	11	500		✓	✓		
2111	14	3648	13132-1	1	12	200		✓	✓		
2202	15	4487	-2		13			✓	✓		
2253	16	3806	-3		14			✓	✓		
2344	17	4161	13013-1	1	15	200	WKO	✓	✓		
0035	18	3519	-2	2450	16	23		✓	↑		CDF 856.91
0126	19	2791	-3	2250	1	26		✓	✓		942.09
0217	20	4136	-4	4850	2	36		✓	✓		822.21
0308	21	3349	-5	4850	3	35		✓	✓		842.18
0359	22	4361	-6	5283	4	33		✓	✓		858.80
0450	23	4357	-7	1	5	200		✓	✓		
0541	24	4357	-7	1	5	200		✓	✓		
0632	25	4951	13132-04	1	6	200	WKO	✓	✓		
0723	26	4988	13035-02	1.63	7	123		✓	✓		
0814	27	4962	13132-05	1	8	200		✓	✓		
0904	28	bag	13125-01	27.0	9	74		✓	✓		DF-10
0955	29		13127-01	1	10	200		✓	✓		TB3

Legend: C=Complete • R=Reanalyze • ↑ = High • ↓= Low • ✓=Reviewed and Acceptable

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Instrument ID: C.i Start Date: 09/19/2012 12:05

Analysis Batch Number: 45233 End Date: 09/20/2012 10:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-45233/1		09/19/2012 12:05	1	cla001.d	RTX-624 0.32(mm)
VIBLK 200-45233/2		09/19/2012 12:58	1		RTX-624 0.32(mm)
IC 200-45233/3		09/19/2012 13:52	1	cla003.d	RTX-624 0.32(mm)
IC 200-45233/4		09/19/2012 14:45	1	cla004.d	RTX-624 0.32(mm)
IC 200-45233/5		09/19/2012 15:38	1	cla005.d	RTX-624 0.32(mm)
IC 200-45233/6		09/19/2012 16:32	1	cla006.d	RTX-624 0.32(mm)
ICIS 200-45233/7		09/19/2012 17:25	1	cla007.d	RTX-624 0.32(mm)
IC 200-45233/8		09/19/2012 18:19	1	cla008.d	RTX-624 0.32(mm)
IC 200-45233/9		09/19/2012 19:13	1	cla009.d	RTX-624 0.32(mm)
IC 200-45233/10		09/19/2012 20:06	1	cla010.d	RTX-624 0.32(mm)
VIBLK 200-45233/11		09/19/2012 21:00	1		RTX-624 0.32(mm)
ZZZZZ		09/19/2012 21:53	1		RTX-624 0.32(mm)
VIBLK 200-45233/13		09/19/2012 22:47	1		RTX-624 0.32(mm)
ICV 200-45233/14		09/20/2012 09:17	1	cla014.d	RTX-624 0.32(mm)
ZZZZZ		09/20/2012 10:13	1		RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12991-1

SDG No.: 200-12991

Instrument ID: C.i Start Date: 10/10/2012 10:20

Analysis Batch Number: 46287 End Date: 10/11/2012 09:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-46287/1		10/10/2012 10:20	1	claq001.d	RTX-624 0.32(mm)
CCVIS 200-46287/2		10/10/2012 10:58	1	claq002.d	RTX-624 0.32(mm)
LCS 200-46287/3		10/10/2012 11:49	1	claq003.d	RTX-624 0.32(mm)
MB 200-46287/4		10/10/2012 12:39	1	claq004.d	RTX-624 0.32(mm)
ZZZZZ		10/10/2012 13:30	10		RTX-624 0.32(mm)
ZZZZZ		10/10/2012 14:21	10		RTX-624 0.32(mm)
ZZZZZ		10/10/2012 15:12	1		RTX-624 0.32(mm)
ZZZZZ		10/10/2012 16:06	1		RTX-624 0.32(mm)
ZZZZZ		10/10/2012 16:57	1		RTX-624 0.32(mm)
ZZZZZ		10/10/2012 17:48	1		RTX-624 0.32(mm)
ZZZZZ		10/10/2012 18:38	1		RTX-624 0.32(mm)
200-12991-1	BA316	10/10/2012 19:29	15.1	claq012.d	RTX-624 0.32(mm)
ZZZZZ		10/10/2012 20:20	0.4		RTX-624 0.32(mm)
ZZZZZ		10/10/2012 21:11	1		RTX-624 0.32(mm)
ZZZZZ		10/10/2012 22:02	1		RTX-624 0.32(mm)
ZZZZZ		10/10/2012 22:53	1		RTX-624 0.32(mm)
ZZZZZ		10/10/2012 23:44	1		RTX-624 0.32(mm)
ZZZZZ		10/11/2012 00:35	7450		RTX-624 0.32(mm)
ZZZZZ		10/11/2012 01:26	7250		RTX-624 0.32(mm)
ZZZZZ		10/11/2012 02:17	4850		RTX-624 0.32(mm)
ZZZZZ		10/11/2012 03:08	4840		RTX-624 0.32(mm)
ZZZZZ		10/11/2012 03:59	5200		RTX-624 0.32(mm)
ZZZZZ		10/11/2012 04:50	1		RTX-624 0.32(mm)
ZZZZZ		10/11/2012 05:41	1		RTX-624 0.32(mm)
ZZZZZ		10/11/2012 05:41	1		RTX-624 0.32(mm)
ZZZZZ		10/11/2012 06:32	1		RTX-624 0.32(mm)
ZZZZZ		10/11/2012 07:23	1.63		RTX-624 0.32(mm)
ZZZZZ		10/11/2012 08:14	1		RTX-624 0.32(mm)
ZZZZZ		10/11/2012 09:04	27		RTX-624 0.32(mm)
ZZZZZ		10/11/2012 09:55	1		RTX-624 0.32(mm)

TO-15

Post-Sampling Air Canister Pressure Check Record

Client ID	TALS Job	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gague ID	Analyst
Encounter	12991	10/5/12	1550	29.2	22	G1	[illegible]

Sampling Information and Return Equipment Check	Yes	No	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?	✓		
(2) Is the flow controller ID used for each canister recorded?	✓		Grab
(3) MA MCP: Check return flow rate for flow controllers			
(4) Is visible sign of damage to canister and/or flow controller (FC) present?		✓	Possible water [illegible]

If damage observed, list equipment IDs and describe condition:

Post-Sampling Return Pressure Check

Lab ID	Canister ID	Pressure[1] ("Hg)	Anomaly[2] (Y/N)	FC ID[3]	FC Return (Y/N)	Can Cert Batch ID	Comments
1	2737	-4.4	N	NA	NA	3423CK2U.	

10/5/12

[1] Criteria: Return Pressure should be between -1 and -10 ("Hg)

[2] If return pressure is not within criteria, initiate anomaly report.

[3] Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

Internal Use Only: Flow Controller Date and Page # NA

Summa Canister Dilution Worksheet

Client: Arrowhead Contracting

TestAmerica Job ID: 200-12991-1
Client: 200-12991

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Dilution Factor	Final Dilution Factor	Date	Analyst
200-12991-1	0	-5.0	0.83	0.00	34.3	3.33	0.00	4.00	4.00	10/10/12 15:35	Desjardins, William R

Formulae:

Preadjusted Volume (L) = (Preadjusted Pressure ("Hg) + 29.92 "Hg * Vol L) / 29.92 "Hg
Adjusted Volume (L) = (Adjusted Pressure (psig) + 14.7 psig * Vol L) / 14.7 psig
Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury (“Hg)
14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)
Vol = Volume of SUMMA canister at atmospheric pressure

Pre-Shipment Clean Canister Certification Report

Certification Type: ☑ Batch ☐ Individual

Canister Cleaning & Pre-Shipment Leak Test					
System ID	# Cycles	Cleaning Date	Technician	Canister Size	
Batton	10	9/12/12	SML	(6L)	1L / 3L

Port	Can ID	Leak Test: Initial[1] ("Hg)	Final ("Hg)	Adjusted Initial[2] ("Hg)	Difference[3]
1	4871	-29.4	-29.0	-29.0	0.0
2	2737				
3	3622				
4	3006				
5	3409				
6	2567				
7	3462				
8	3412				
9	3225				
10	3521				
11	3323				
12	3423				

Initial Reading		Final Reading	
Gauge ID:	G-1	Gauge ID:	G-1
Date:	9/12/12	Date:	9/18/12
Time:	1530	Time:	1130
Tech:	SML	Tech:	[illegible]
BP:	29.6 ("Hg)	BP:	29.2 ("Hg)
Temp	21 (°C)	Temp:	21 (°C)

[3]Acceptance Criteria:

(1) The difference must be less than or equal to + 0.5

(2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister:

PM Authorization:

Signature Date

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[2] To calculate Adjusted Initial Pressure, subtract Final BP from Initial BP and add the result (positive or negative) to the initial pressure reading.

[3] To calculate Difference, subtract the Adjusted Initial Pressure from the Final Pressure (See Acceptance Criteria)

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☐TO15 Routine ☐ TO15 LL ☐ NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Limited	Secondary Review: Review Date	Reviewer
3423	09/13/12	CKZU	AHK		X				09/14/12	TPD

Inventory Level 1: Individual Canister Certification Only. Certified clean to RLs listed in laboratory SOP for LLTO15.

Inventory Level 2: Individual or Batch Certification. Certified clean to 0.04 ppbv.

Inventory Level 3: Individual or Batch Certification. Certified clean to 0.20 ppbv.

Inventory Level 4: Individual or Batch Certification. Certified clean following procedures and RLs listed in laboratory SOP NJDEP-LLTO15.

Inventory Level Limited Use: Canisters may only be used for certain projects.

Comments:

200-12631-A-12
3423
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 9/12/2012 12:00

Loc: 200
12631
#12
A

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-12631-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ckzu003.d

Lab ID: LCS 200-44923/3 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Propylene	10.0	7.50	75	70-130	
Dichlorodifluoromethane	10.0	9.48	95	70-130	
Freon 22	10.0	8.56	86	70-130	
1,2-Dichlorotetrafluoroethane	10.0	9.24	92	70-130	
Chloromethane	10.0	7.81	78	70-130	
n-Butane	10.0	7.76	78	70-130	
Vinyl chloride	10.0	8.16	82	70-130	
1,3-Butadiene	10.0	8.21	82	70-130	
Bromomethane	10.0	8.79	88	70-130	
Chloroethane	10.0	7.89	79	70-130	
Bromoethene(Vinyl Bromide)	10.0	9.92	99	70-130	
Trichlorofluoromethane	10.0	9.71	97	70-130	
Ethanol	15.0	11.9	79	70-130	
Freon TF	10.0	10.3	103	70-130	
1,1-Dichloroethene	10.0	10.3	103	70-130	
Acetone	10.0	10.1	101	70-130	
Isopropyl alcohol	10.0	8.08	81	70-130	
Carbon disulfide	10.0	9.10	91	70-130	
3-Chloropropene	10.0	7.96	80	70-130	
Methylene Chloride	10.0	8.53	85	70-130	
tert-Butyl alcohol	10.0	9.49	95	70-130	
Methyl tert-butyl ether	10.0	9.88	99	70-130	
trans-1,2-Dichloroethene	10.0	8.70	87	70-130	
n-Hexane	10.0	8.30	83	70-130	
1,1-Dichloroethane	10.0	8.63	86	70-130	
Vinyl acetate	10.0	8.69	87	70-130	
Ethyl acetate	10.0	10.2	102	70-130	
Methyl Ethyl Ketone	10.0	9.53	95	70-130	
cis-1,2-Dichloroethene	10.0	9.58	96	70-130	
Chloroform	10.0	9.43	94	70-130	
Tetrahydrofuran	10.0	8.14	81	70-130	
1,1,1-Trichloroethane	10.0	9.72	97	70-130	
Cyclohexane	10.0	9.21	92	70-130	
Carbon tetrachloride	10.0	9.72	97	70-130	
2,2,4-Trimethylpentane	10.0	8.31	83	70-130	
Benzene	10.0	8.79	88	70-130	
1,2-Dichloroethane	10.0	9.53	95	70-130	
n-Heptane	10.0	7.86	79	70-130	
Trichloroethene	10.0	9.31	93	70-130	
Methyl methacrylate	10.0	9.41	94	70-130	
1,2-Dichloropropane	10.0	8.31	83	70-130	
1,4-Dioxane	10.0	8.47	85	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-12631-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ckzu003.d

Lab ID: LCS 200-44923/3 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Bromodichloromethane	10.0	10.0	100	70-130	
cis-1,3-Dichloropropene	10.0	9.10	91	70-130	
methyl isobutyl ketone	10.0	9.16	92	70-130	
Toluene	10.0	9.35	94	70-130	
trans-1,3-Dichloropropene	10.0	9.56	96	70-130	
1,1,2-Trichloroethane	10.0	8.52	85	70-130	
Tetrachloroethene	10.0	10.0	100	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	8.61	86	70-130	
Dibromochloromethane	10.0	10.6	106	70-130	
1,2-Dibromoethane	10.0	9.55	96	70-130	
Chlorobenzene	10.0	9.32	93	70-130	
Ethylbenzene	10.0	9.31	93	70-130	
m,p-Xylene	20.0	19.3	97	70-130	
Xylene, o-	10.0	9.59	96	70-130	
Styrene	10.0	9.78	98	70-130	
Bromoform	10.0	11.0	110	70-130	
Cumene	10.0	9.71	97	70-130	
1,1,2,2-Tetrachloroethane	10.0	8.56	86	70-130	
n-Propylbenzene	10.0	9.53	95	70-130	
4-Ethyltoluene	10.0	10.2	102	70-130	
1,3,5-Trimethylbenzene	10.0	9.42	94	70-130	
2-Chlorotoluene	10.0	9.54	95	70-130	
tert-Butylbenzene	10.0	9.91	99	70-130	
1,2,4-Trimethylbenzene	10.0	9.33	93	70-130	
sec-Butylbenzene	10.0	9.67	97	70-130	
4-Isopropyltoluene	10.0	10.2	102	70-130	
1,3-Dichlorobenzene	10.0	9.50	95	70-130	
1,4-Dichlorobenzene	10.0	9.34	93	70-130	
Benzyl chloride	10.0	9.25	92	70-130	
n-Butylbenzene	10.0	9.95	100	70-130	
1,2-Dichlorobenzene	10.0	9.43	94	70-130	
1,2,4-Trichlorobenzene	10.0	8.55	85	70-130	
Hexachlorobutadiene	10.0	10.9	109	70-130	
Naphthalene	10.0	7.24	72	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12631-1

SDG No.:

Lab File ID: ckzu004.d Lab Sample ID: MB 200-44923/4

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: C.i Date Analyzed: 09/13/2012 13:31

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-44923/3	ckzu003.d	09/13/2012 12:38
3423	200-12631-12	ckzu020.d	09/14/2012 03:47

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-12631-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 200-44923/4

Matrix: Air | Lab File ID: ckzu004.d

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 09/13/2012 13:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 44923 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.20	U	0.20	0.20
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.20	U	0.20	0.20
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-12631-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 200-44923/4

Matrix: Air | Lab File ID: ckzu004.d

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 09/13/2012 13:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 44923 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.20	U	0.20	0.20
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-12631-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 200-44923/4

Matrix: Air | Lab File ID: ckzu004.d

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 09/13/2012 13:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 44923 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/ckzuto15.b/ckzu004.d
Lab Smp Id: mb
Inj Date : 13-SEP-2012 13:31
Operator : pad Inst ID: C.i
Smp Info : mb
Misc Info : 200,1,mb
Comment :
Method : /chem/C.i/Csvr.p/ckzuto15.b/to15v5.m
Meth Date : 13-Sep-2012 13:19 pd Quant Type: ISTD
Cal Date : 15-AUG-2012 08:24 Cal File: ckz015.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allTO15.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
1 Propene	41	Compound Not Detected.					
2 Dichlorodifluoromethane	85	Compound Not Detected.					
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	Compound Not Detected.					
6 Butane	43	Compound Not Detected.					
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
11 2-Methylbutane	43	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Pentane	43	Compound Not Detected.					

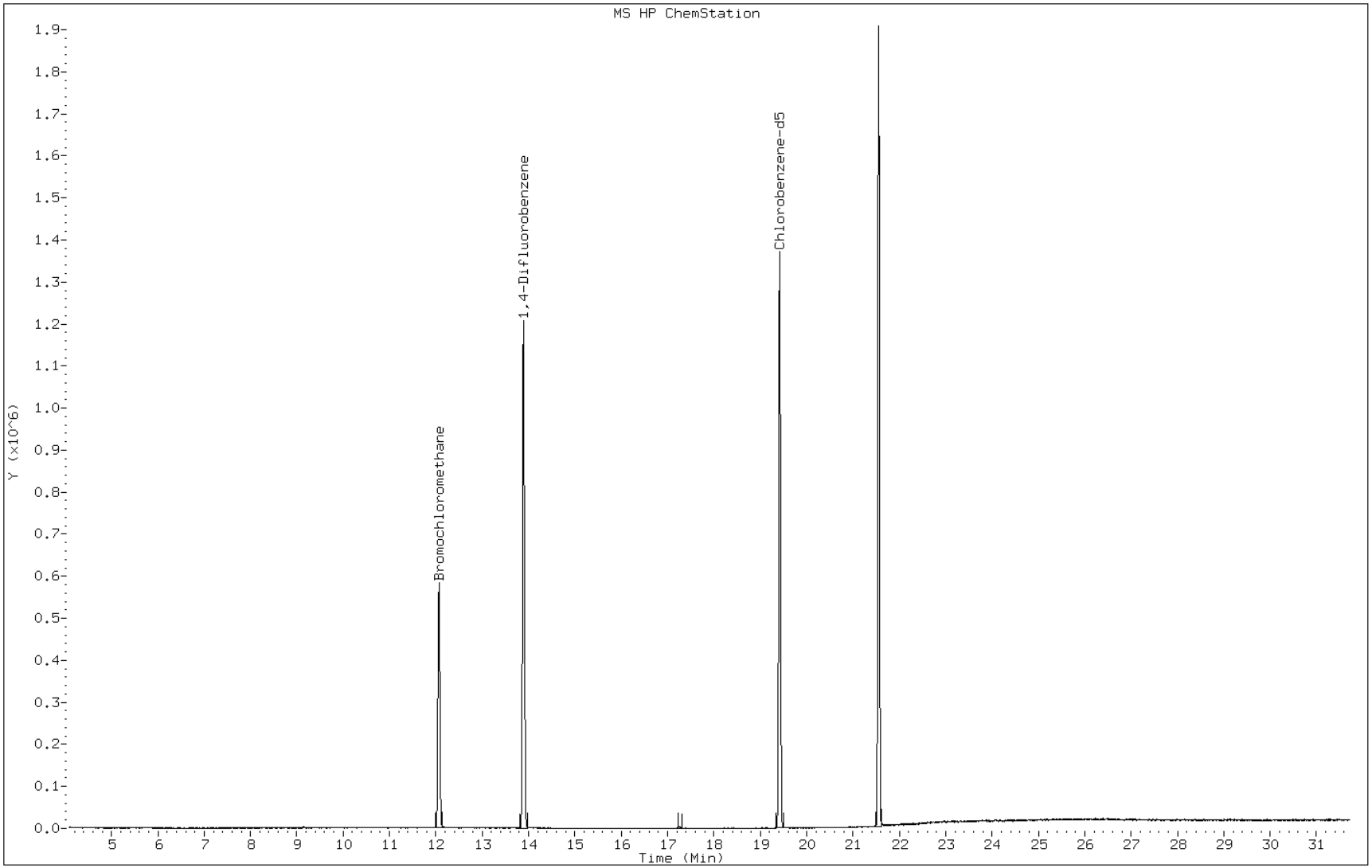
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)	
	15 Ethanol	45	Compound Not Detected.						
	16 Ethyl ether	59	Compound Not Detected.						
	17 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.						
	18 Acrolein	56	Compound Not Detected.						
	19 1,1-Dichloroethene	96	Compound Not Detected.						
	20 Acetone	43	Compound Not Detected.						
	21 Carbon disulfide	76	Compound Not Detected.						
	22 Isopropanol	45	Compound Not Detected.						
	23 Allyl chloride	41	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						
	26 Tert-butyl alcohol	59	Compound Not Detected.						
	27 Methyl tert-butyl ether	73	Compound Not Detected.						
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.						
	29 Acrylonitrile	53	Compound Not Detected.						
	30 n-Hexane	57	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						
	32 Vinyl acetate	43	Compound Not Detected.						
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.						
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.						
	35 Ethyl acetate	88	Compound Not Detected.						
	36 Methyl Ethyl Ketone	72	Compound Not Detected.						
*	37 Bromochloromethane	128	12.069	12.096	(1.000)	279463	10.0000		(Q)
	38 Tetrahydrofuran	42	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Cyclohexane	84	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 Carbon tetrachloride	117	Compound Not Detected.						
	43 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	44 Benzene	78	Compound Not Detected.						
	45 1,2-Dichloroethane	62	Compound Not Detected.						
	46 n-Heptane	43	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	13.894	13.921	(1.000)	1627111	10.0000		
	48 n-Butanol	56	Compound Not Detected.						
	49 Trichloroethene	95	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Methyl methacrylate	69	Compound Not Detected.						
	52 Dibromomethane	174	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.						
	56 Methyl isobutyl ketone	43	Compound Not Detected.						
	57 n-Octane	43	Compound Not Detected.						
	58 Toluene	92	Compound Not Detected.						
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.						
	60 1,1,2-Trichloroethane	83	Compound Not Detected.						
	61 Tetrachloroethene	166	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	19.418	19.450	(1.000)	1432190	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	67 n-Nonane	57	Compound Not Detected.					
	68 Ethylbenzene	91	Compound Not Detected.					
	69 Xylene (m,p)	106	Compound Not Detected.					
M	70 Xylenes, Total	106	Compound Not Detected.					
	71 Xylene (o)	106	Compound Not Detected.					
	72 Styrene	104	Compound Not Detected.					
	73 Bromoform	173	Compound Not Detected.					
	74 Isopropylbenzene	105	Compound Not Detected.					
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	76 n-Propylbenzene	91	Compound Not Detected.					
	77 1,2,3-Trichloropropane	75	Compound Not Detected.					
	78 n-Decane	57	Compound Not Detected.					
	79 4-Ethyltoluene	105	Compound Not Detected.					
	80 2-Chlorotoluene	91	Compound Not Detected.					
	81 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	82 Alpha Methyl Styrene	118	Compound Not Detected.					
	83 tert-butylbenzene	119	Compound Not Detected.					
	84 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	85 sec-Butylbenzene	105	Compound Not Detected.					
	86 4-Isopropyltoluene	119	Compound Not Detected.					
	87 1,3-Dichlorobenzene	146	Compound Not Detected.					
	88 1,4-Dichlorobenzene	146	Compound Not Detected.					
	89 Benzyl chloride	91	Compound Not Detected.					
	90 Undecane	57	Compound Not Detected.					
	91 n-Butylbenzene	91	Compound Not Detected.					
	92 1,2-Dichlorobenzene	146	Compound Not Detected.					
	93 Dodecane	57	Compound Not Detected.					
	94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
	96 Naphthalene	128	Compound Not Detected.					
	97 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File:	ckzu004.d	Date:	13-SEP-2012 13:31
Client ID:		Instrument:	C.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	mb		
Lab Sample ID:	mb		



FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12631-1

SDG No.:

Lab File ID: ckz001.d BFB Injection Date: 08/14/2012

Instrument ID: C.i BFB Injection Time: 16:28

Analysis Batch No.: 43490

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	14.1	
75	30.0 - 66.0% of mass 95	44.2	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.9	
173	Less than 2.0% of mass 174	0.3	(0.3)1
174	50.0 - 120.0% of mass 95	80.2	
175	4.0 - 9.0 % of mass 174	5.6	(6.9)1
176	93.0 - 101.0% of mass 174	77.7	(96.9)1
177	5.0 - 9.0% of mass 176	5.1	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-43490/3	ckz003.d	08/14/2012	18:13
	IC 200-43490/4	ckz004.d	08/14/2012	19:07
	IC 200-43490/5	ckz005.d	08/14/2012	20:00
	IC 200-43490/6	ckz006.d	08/14/2012	20:53
	IC 200-43490/8	ckz008.d	08/14/2012	22:41
	IC 200-43490/9	ckz009.d	08/14/2012	23:34
	IC 200-43490/10	ckz010.d	08/15/2012	00:28
	ICIS 200-43490/15	ckz015.d	08/15/2012	08:24
	ICV 200-43490/18	ckz018.d	08/15/2012	11:09

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12631-1

SDG No.:

Lab File ID: ckzu001.d BFB Injection Date: 09/13/2012

Instrument ID: C.i BFB Injection Time: 10:47

Analysis Batch No.: 44923

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	14.6	
75	30.0 - 66.0% of mass 95	45.6	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.7	
173	Less than 2.0% of mass 174	0.0	(0.0)1
174	50.0 - 120.0% of mass 95	89.0	
175	4.0 - 9.0 % of mass 174	6.3	(7.1)1
176	93.0 - 101.0% of mass 174	86.4	(97.0)1
177	5.0 - 9.0% of mass 176	5.6	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-44923/2	ckzu002.d	09/13/2012	11:44
	LCS 200-44923/3	ckzu003.d	09/13/2012	12:38
	MB 200-44923/4	ckzu004.d	09/13/2012	13:31
3423	200-12631-12	ckzu020.d	09/14/2012	03:47

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12631-1

SDG No.:

Sample No.: ICIS 200-43490/15 Date Analyzed: 08/15/2012 08:24

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): ckz015.d Heated Purge: (Y/N) N

Calibration ID: 17120

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		419299	12.10	2338098	13.92	2179074	19.45
UPPER LIMIT		587019	12.43	3273337	14.25	3050704	19.78
LOWER LIMIT		251579	11.77	1402859	13.59	1307444	19.12
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-43490/18		394482	12.10	2173520	13.93	1992042	19.45

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12631-1

SDG No.:

Sample No.: CCVIS 200-44923/2 Date Analyzed: 09/13/2012 11:44

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): ckzu002.d Heated Purge: (Y/N) N

Calibration ID: 17120

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		307202	12.07	1696526	13.90	1520090	19.42
UPPER LIMIT		430083	12.40	2375136	14.23	2128126	19.75
LOWER LIMIT		184321	11.74	1017916	13.57	912054	19.09
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-44923/3		306613	12.07	1681695	13.89	1590995	19.42
MB 200-44923/4		279463	12.07	1627111	13.89	1432190	19.42
200-12631-12	3423	242006	12.06	1417838	13.89	1145751	19.42

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-12631-1

SDG No.:

Client Sample ID: 3423 | Lab Sample ID: 200-12631-12

Matrix: Air | Lab File ID: ckzu020.d

Analysis Method: TO-15 | Date Collected: 09/12/2012 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 09/14/2012 03:47

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 44923 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.040	U	0.040	0.040
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-12631-1

SDG No.:

Client Sample ID: 3423 | Lab Sample ID: 200-12631-12

Matrix: Air | Lab File ID: ckzu020.d

Analysis Method: TO-15 | Date Collected: 09/12/2012 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 09/14/2012 03:47

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 44923 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.040	U	0.040	0.040
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12631-1

SDG No.:

Client Sample ID: 3423 Lab Sample ID: 200-12631-12

Matrix: Air Lab File ID: ckzu020.d

Analysis Method: TO-15 Date Collected: 09/12/2012 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/14/2012 03:47

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 44923 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Lab Sample Id: 200-12631-12
Client Smp ID: 3423
Inj Date : 14-SEP-2012 03:47
Operator : pad Inst ID: C.i
Smp Info : 200-12631-A-12
Misc Info : 1000,0.2, all74+MN
Comment :
Method : /chem/C.i/Csvr.p/ckzuto15.b/to15v5.m
Meth Date : 13-Sep-2012 13:19 pd Quant Type: ISTD
Cal Date : 15-AUG-2012 08:24 Cal File: ckz015.d
Als bottle: 3
Dil Factor: 0.20000
Integrator: HP RTE Compound Sublist: all74+MN.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	0.20000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	1000.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
1 Propene	41	Compound Not Detected.					
2 Dichlorodifluoromethane	85	Compound Not Detected.					
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	Compound Not Detected.					
6 Butane	43	Compound Not Detected.					
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Ethanol	45	Compound Not Detected.					
17 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					

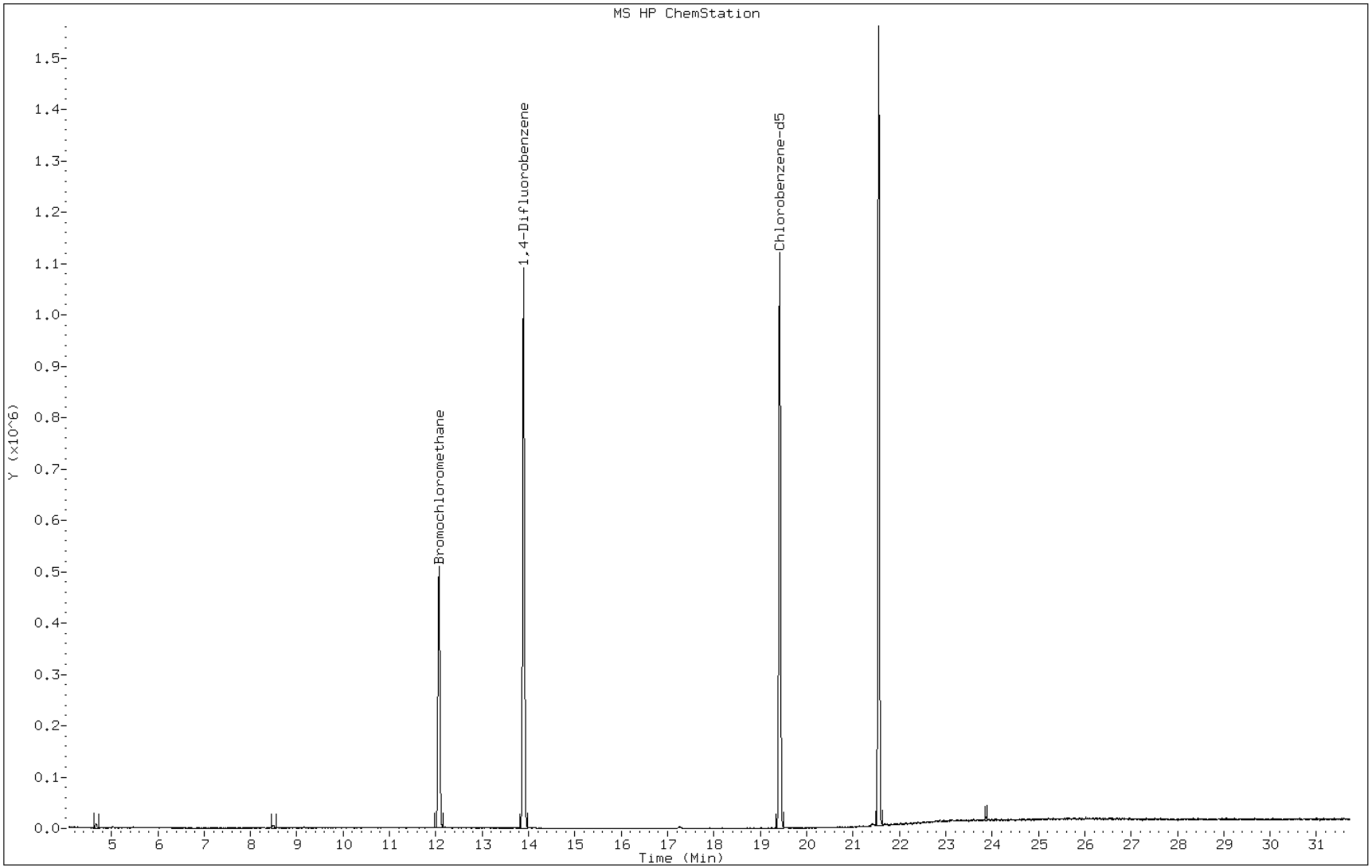
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	19 1,1-Dichloroethene	96	Compound Not Detected.					
	20 Acetone	43	Compound Not Detected.					
	21 Carbon disulfide	76	8.488	8.509	(0.704)	11025	0.17068	0.034(a)
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	25 Methylene chloride	49	Compound Not Detected.					
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	30 n-Hexane	57	Compound Not Detected.					
	31 1,1-Dichloroethane	63	Compound Not Detected.					
	32 Vinyl acetate	43	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.					
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.					
	35 Ethyl acetate	88	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	Compound Not Detected.					
*	37 Bromochloromethane	128	12.064	12.096	(1.000)	242006	10.0000	(Q)
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	Compound Not Detected.					
	40 Cyclohexane	84	Compound Not Detected.					
	41 1,1,1-Trichloroethane	97	Compound Not Detected.					
	42 Carbon tetrachloride	117	Compound Not Detected.					
	43 2,2,4-Trimethylpentane	57	Compound Not Detected.					
	44 Benzene	78	Compound Not Detected.					
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	13.894	13.921	(1.000)	1417838	10.0000	
	49 Trichloroethene	95	Compound Not Detected.					
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	Compound Not Detected.					
	58 Toluene	92	Compound Not Detected.					
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	Compound Not Detected.					
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	19.418	19.450	(1.000)	1145751	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	68 Ethylbenzene	91	Compound Not Detected.					
	69 Xylene (m,p)	106	Compound Not Detected.					
M	70 Xylenes, Total	106	Compound Not Detected.					
	71 Xylene (o)	106	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
72 Styrene	104	Compound Not Detected.					
73 Bromoform	173	Compound Not Detected.					
74 Isopropylbenzene	105	Compound Not Detected.					
75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
76 n-Propylbenzene	91	Compound Not Detected.					
79 4-Ethyltoluene	105	Compound Not Detected.					
80 2-Chlorotoluene	91	Compound Not Detected.					
81 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 tert-butylbenzene	119	Compound Not Detected.					
84 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
85 sec-Butylbenzene	105	Compound Not Detected.					
86 4-Isopropyltoluene	119	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 1,4-Dichlorobenzene	146	Compound Not Detected.					
89 Benzyl chloride	91	Compound Not Detected.					
91 n-Butylbenzene	91	Compound Not Detected.					
92 1,2-Dichlorobenzene	146	Compound Not Detected.					
94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
96 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File:	ckzu020.d	Date:	14-SEP-2012 03:47
Client ID:	3423	Instrument:	C.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	200-12631-A-12		
Lab Sample ID:	200-12631-12		



FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12631-1 Analy Batch No.: 43490

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

Calibration Files:

LEVEL:	LAB SAMPLE ID:	EPA SAMPLE NO:	LAB FILE ID:
Level 1	IC 200-43490/3	ic 376683	ckz003.d
Level 2	IC 200-43490/4	ic 376683	ckz004.d
Level 3	IC 200-43490/5	ic 376702	ckz005.d
Level 4	IC 200-43490/6	ic 370619	ckz006.d
Level 5	ICIS 200-43490/15	icis 370604	ckz015.d
Level 6	IC 200-43490/8	ic 370603	ckz008.d
Level 7	IC 200-43490/9	ic 370601	ckz009.d
Level 8	IC 200-43490/10	ic 370600	ckz010.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Propylene	+++++ 0.6295	+++++ 0.5874	0.7402 0.5409	0.7173	0.6751	Ave		0.6484				11.8		30.0			
Dichlorodifluoromethane	+++++ 2.6990	+++++ 2.5969	3.0739 2.4542	2.9563	2.6940	Ave		2.7457				8.4		30.0			
Freon 22	+++++ 1.3440	+++++ 1.2570	1.6383 1.1785	1.5074	1.3768	Ave		1.3837				12.1		30.0			
1,2-Dichlorotetrafluoroethane	+++++ 2.7953	3.0326 2.6891	2.8534 2.5507	2.9152	2.7473	Ave		2.7977				5.6		30.0			
Chloromethane	+++++ 0.7464	+++++ 0.7035	0.8814 0.6607	0.8254	0.7767	Ave		0.7657				10.5		30.0			
n-Butane	+++++ 1.3441	+++++ 1.2436	1.4925 1.1536	1.4833	1.4088	Ave		1.3543				10.0		30.0			
1,3-Butadiene	+++++ 0.6853	0.7256 0.6504	0.7225 0.6123	0.7244	0.6932	Ave		0.6877				6.3		30.0			
Acrolein	+++++ 0.2971	+++++ 0.2805	+++++ 0.2615	0.2879	0.2873	Ave		0.2829				4.7		30.0			
Vinyl chloride	1.0102 0.9389	1.0270 0.8943	0.9551 0.8450	0.9878	0.9461	Ave		0.9506				6.3		30.0			
Bromomethane	+++++ 0.9116	0.9619 0.9068	0.9221 0.8611	0.9265	0.9057	Ave		0.9137				3.3		30.0			
Chloroethane	+++++ 0.4839	+++++ 0.4636	0.4834 0.4416	0.5044	0.4835	Ave		0.4767				4.5		30.0			
Isopentane	+++++ 0.9958	1.1459 0.9497	1.1259 0.8853	1.1009	1.0165	Ave		1.0314				9.4		30.0			
Bromoethene(Vinyl Bromide)	+++++ 0.9780	1.0397 0.9713	0.9656 0.9395	0.9718	0.9601	Ave		0.9751				3.2		30.0			
Trichlorofluoromethane	+++++ 2.8528	3.1272 2.7322	3.1002 2.6033	3.0854	2.7689	Ave		2.8957				7.2		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12631-1 Analy Batch No.: 43490

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
n-Pentane	+++++ 1.5774	+++++ 1.4922	1.6768 1.3928	1.6987	1.6075	Ave		1.5742				7.3		30.0			
Ethanol	+++++ 0.2349	+++++ 0.2316	0.2485 0.2026	0.2536	0.2352	Ave		0.2344				7.6		30.0			
Ethyl ether	+++++ 0.6185	0.6091 0.5900	0.6031 0.5425	0.6261	0.6064	Ave		0.5994				4.6		30.0			
Freon TF	+++++ 1.9955	2.1282 1.9539	2.1940 1.8839	2.0570	1.9605	Ave		2.0247				5.3		30.0			
tert-Butyl alcohol	+++++ 1.1778	+++++ 1.1068	+++++ 1.0645	1.3202	1.2143	Ave		1.1767				8.4		30.0			
1,1-Dichloroethene	+++++ 0.9453	1.0305 0.9249	0.9672 0.9063	0.9532	0.9286	Ave		0.9508				4.2		30.0			
Acetone	+++++ 1.1122	+++++ 1.0173	+++++ 0.9194	1.2438	1.2129	Ave		1.1011				12.3		30.0			
Carbon disulfide	+++++ 2.6871	+++++ 2.6462	2.6890 2.5684	2.7553	2.6692	Ave		2.6692				2.3		30.0			
Isopropyl alcohol	+++++ 0.7860	+++++ 0.7474	+++++ 0.6592	0.8805	0.7949	Ave		0.7736				10.4		30.0			
3-Chloropropene	+++++ 1.1328	1.2061 1.0721	1.1458 1.0169	1.1852	1.1160	Ave		1.1250				5.8		30.0			
Acetonitrile	+++++ 0.4931	+++++ 0.4128	+++++ 0.4198	0.4870	0.4530	Ave		0.4531				8.2		30.0			
Methylene Chloride	+++++ 0.9029	+++++ 0.8597	1.1583 0.8039	0.9990	0.9121	Ave		0.9393				13.3		30.0			
Methyl tert-butyl ether	+++++ 2.7062	2.7875 2.5808	2.7311 2.4088	2.7209	2.5927	Ave		2.6468				4.9		30.0			
trans-1,2-Dichloroethene	+++++ 1.4050	1.4665 1.3364	1.4347 1.2690	1.5032	1.3799	Ave		1.3992				5.7		30.0			
Acrylonitrile	+++++ 0.5646	+++++ 0.5362	0.5065 0.5142	0.5690	0.5509	Ave		0.5402				4.8		30.0			
Ethyl acetate	+++++ 0.0857	+++++ 0.0841	+++++ 0.0804	0.0829	0.0808	Ave		0.0828				2.7		30.0			
n-Hexane	+++++ 1.5099	1.6008 1.4542	1.5311 1.3839	1.5967	1.5169	Ave		1.5134				5.1		30.0			
1,1-Dichloroethane	+++++ 1.7734	1.9531 1.7040	1.8624 1.6262	1.9013	1.7708	Ave		1.7987				6.4		30.0			
Vinyl acetate	+++++ 1.9832	+++++ 1.8707	+++++ 1.7205	1.9754	1.9144	Ave		1.8928				5.6		30.0			
cis-1,2-Dichloroethene	+++++ 1.0870	1.2717 1.0750	1.1730 1.0427	1.1081	1.0766	Ave		1.1192				7.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12631-1 Analy Batch No.: 43490

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Methyl Ethyl Ketone	+++++ 0.4322	+++++ 0.4192	0.4298 0.3859	0.4274	0.4157	Ave		0.4184				4.1		30.0			
Tetrahydrofuran	+++++ 0.1606	+++++ 0.1518	+++++ 0.1529	0.1659	0.1549	Ave		0.1572				3.8		30.0			
Chloroform	+++++ 2.2140	2.3865 2.1319	2.3238 2.0362	2.3519	2.1930	Ave		2.2339				5.7		30.0			
1,1,1-Trichloroethane	+++++ 0.4499	0.4704 0.4352	0.4665 0.4611	0.4759	0.4363	Ave		0.4565				3.6		30.0			
Cyclohexane	+++++ 0.2802	0.2903 0.2756	0.2698 0.2948	0.2807	0.2720	Ave		0.2805				3.3		30.0			
Benzene	+++++ 0.5802	0.6433 0.5730	0.5902 0.6008	0.5895	0.5688	Ave		0.5923				4.2		30.0			
2,2,4-Trimethylpentane	+++++ 0.8737	0.9119 0.8496	0.8673 0.8870	0.9116	0.8732	Ave		0.8821				2.6		30.0			
1,2-Dichloroethane	+++++ 0.2617	0.2786 0.2500	0.2746 0.2581	0.2845	0.2573	Ave		0.2664				4.8		30.0			
n-Heptane	+++++ 0.3082	0.3322 0.2952	0.3226 0.3039	0.3325	0.3119	Ave		0.3152				4.5		30.0			
n-Butanol	+++++ 0.0546	+++++ 0.0544	+++++ 0.0619	0.0604	0.0580	Ave		0.0579				5.8		30.0			
Carbon tetrachloride	0.5151 0.4828	0.4602 0.4675	0.4634 0.5042	0.5007	0.4614	Ave		0.4819				4.6		30.0			
1,2-Dichloropropane	+++++ 0.1966	0.2083 0.1933	0.1892 0.1958	0.2037	0.1917	Ave		0.1969				3.4		30.0			
Methyl methacrylate	+++++ 0.1803	+++++ 0.1783	0.1331 0.1864	0.1644	0.1664	Ave		0.1681				11.4		30.0			
1,4-Dioxane	+++++ 0.0712	+++++ 0.0699	+++++ 0.0667	0.0745	0.0684	Ave		0.0702				4.3		30.0			
Dibromomethane	+++++ 0.2615	0.2443 0.2624	0.2296 0.2869	0.2527	0.2476	Ave		0.2550				7.0		30.0			
Bromodichloromethane	+++++ 0.4495	0.4062 0.4369	0.4072 0.4516	0.4639	0.4358	Ave		0.4359				5.1		30.0			
cis-1,3-Dichloropropene	+++++ 0.3324	0.3100 0.3254	0.3061 0.3372	0.3336	0.3202	Ave		0.3236				3.7		30.0			
methyl isobutyl ketone	+++++ 0.2985	+++++ 0.2797	0.2594 0.2847	0.2942	0.2613	Ave		0.2796				5.9		30.0			
Trichloroethene	0.2875 0.2737	0.2880 0.2723	0.2663 0.2930	0.2792	0.2700	Ave		0.2787				3.5		30.0			
Toluene	+++++ 0.4835	0.4815 0.4825	0.4540 0.4965	0.4943	0.4634	Ave		0.4794				3.2		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12631-1 Analy Batch No.: 43490

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
n-Octane	+++++ 0.4230	0.4381 0.4028	0.4328 0.4014	0.4562	0.4227	Ave		0.4253				4.6		30.0			
trans-1,3-Dichloropropene	+++++ 0.3369	0.3008 0.3272	0.2874 0.3415	0.3314	0.3197	Ave		0.3207				6.2		30.0			
1,1,2-Trichloroethane	+++++ 0.2181	0.2203 0.2156	0.2095 0.2188	0.2245	0.2072	Ave		0.2163				2.8		30.0			
Tetrachloroethene	+++++ 0.4576	0.4531 0.4611	0.4152 0.4946	0.4561	0.4262	Ave		0.4520				5.7		30.0			
Methyl Butyl Ketone (2-Hexanone)	+++++ 0.2980	+++++ 0.2840	0.2417 0.2949	0.2986	0.2583	Ave		0.2793				8.5		30.0			
Dibromochloromethane	+++++ 0.5178	0.3838 0.5183	0.3915 0.5408	0.5062	0.4712	Ave		0.4757				13.4		30.0			
1,2-Dibromoethane	+++++ 0.4414	0.3774 0.4387	0.3681 0.4527	0.4415	0.4088	Ave		0.4184				8.1		30.0			
Chlorobenzene	+++++ 0.7086	0.6912 0.7037	0.6536 0.7341	0.7082	0.6592	Ave		0.6941				4.1		30.0			
Ethylbenzene	+++++ 1.0414	0.9953 1.0249	0.9260 1.0839	1.0198	0.9674	Ave		1.0084				5.1		30.0			
n-Nonane	+++++ 0.4527	0.4381 0.4333	0.4084 0.4449	0.4659	0.4292	Ave		0.4389				4.2		30.0			
m,p-Xylene	+++++ 0.4453	0.3947 0.4335	0.3717 0.4599	0.4270	0.4087	Ave		0.4201				7.2		30.0			
Xylene, o-	+++++ 0.4315	0.3697 0.4221	0.3672 0.4420	0.4158	0.3987	Ave		0.4067				7.2		30.0			
Styrene	+++++ 0.6545	0.4186 0.6503	0.4137 0.7079	0.5892	0.5921	Ave		0.5752				20.2		30.0			
Bromoform	+++++ 0.5234	0.3362 0.5184	0.3369 0.5577	0.4886	0.4670	Ave		0.4612				19.5		30.0			
Cumene	+++++ 1.2449	1.0564 1.2187	1.0303 1.3045	1.1942	1.1407	Ave		1.1699				8.5		30.0			
1,1,2,2-Tetrachloroethane	+++++ 0.5594	0.4939 0.5417	0.4842 0.5651	0.5497	0.5110	Ave		0.5293				6.2		30.0			
1,2,3-Trichloropropane	+++++ 0.4464	+++++ 0.4251	0.3994 0.4337	0.4504	0.4130	Ave		0.4280				4.6		30.0			
n-Propylbenzene	+++++ 1.4270	1.0943 1.3800	1.1149 1.4648	1.3660	1.3033	Ave		1.3072				11.3		30.0			
4-Ethyltoluene	+++++ 1.2731	0.8881 1.2219	0.9346 1.2697	1.1957	1.1452	Ave		1.1326				13.9		30.0			
n-Decane	+++++ 0.5415	+++++ 0.4921	0.4309 0.4565	0.5550	0.5122	Ave		0.4980				9.7		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12631-1 Analy Batch No.: 43490

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Chlorotoluene	+++++ 1.0237	0.9527 0.9776	0.8777 0.9916	1.0255	0.9416	Ave		0.9700				5.3		30.0			
1,3,5-Trimethylbenzene	+++++ 1.0725	0.8271 1.0376	0.8267 1.1237	1.0221	0.9668	Ave		0.9824				11.8		30.0			
Alpha Methyl Styrene	+++++ 0.5424	0.2741 0.5371	0.2919 0.5934	0.4862	0.4835	Ave		0.4584				27.4		30.0			
tert-Butylbenzene	+++++ 1.0660	0.8471 1.0342	0.8697 1.1094	1.0242	0.9632	Ave		0.9877				10.0		30.0			
1,2,4-Trimethylbenzene	+++++ 1.0623	0.7512 1.0193	0.7523 1.1125	1.0052	0.9499	Ave		0.9504				15.2		30.0			
sec-Butylbenzene	+++++ 1.5249	1.1189 1.4757	1.1564 1.5976	1.4642	1.3776	Ave		1.3879				13.2		30.0			
4-Isopropyltoluene	+++++ 1.3417	0.8530 1.2959	0.9130 1.4136	1.2477	1.1837	Ave		1.1784				18.2		30.0			
1,3-Dichlorobenzene	+++++ 0.7348	0.5588 0.7132	0.5407 0.8024	0.6860	0.6499	Ave		0.6694				14.1		30.0			
1,4-Dichlorobenzene	+++++ 0.7123	0.5378 0.6954	0.5185 0.7879	0.6573	0.6287	Ave		0.6483				14.8		30.0			
Benzyl chloride	+++++ 0.8213	0.5097 0.7993	0.4763 0.9010	0.7128	0.7009	Ave		0.7030				22.6		30.0			
n-Butylbenzene	+++++ 1.0531	0.5909 0.9990	0.6111 1.0906	0.9419	0.9124	Ave		0.8856				23.0		30.0			
n-Undecane	+++++ 0.5151	+++++ 0.4433	+++++ 0.5222	0.4232	0.4044	Ave		0.4617				11.7		30.0			
1,2-Dichlorobenzene	+++++ 0.6881	0.5127 0.6634	0.5013 0.7433	0.6447	0.6044	Ave		0.6226				14.4		30.0			
n-Dodecane	+++++ 0.2706	+++++ 0.2045	+++++ 0.3015	0.2987	0.2448	Ave		0.2640				15.3		30.0			
1,2,4-Trichlorobenzene	+++++ 0.2947	+++++ 0.2692	0.2232 0.3580	0.2901	0.2335	Ave		0.2781				17.5		30.0			
Hexachlorobutadiene	+++++ 0.4011	0.2962 0.3751	0.2901 0.4087	0.3822	0.3391	Ave		0.3561				13.6		30.0			
Naphthalene	+++++ 0.5959	+++++ 0.5080	0.4051 0.7434	0.5750	0.4881	Ave		0.5526				20.9		30.0			
1,2,3-Trichlorobenzene	+++++ 0.2299	0.1800 0.2069	0.1848 0.2710	0.2348	0.1940	Ave		0.2145				15.2		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12631-1 Analy Batch No.: 43490

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-43490/3	ckz003.d
Level 2	IC 200-43490/4	ckz004.d
Level 3	IC 200-43490/5	ckz005.d
Level 4	IC 200-43490/6	ckz006.d
Level 5	ICIS 200-43490/15	ckz015.d
Level 6	IC 200-43490/8	ckz008.d
Level 7	IC 200-43490/9	ckz009.d
Level 8	IC 200-43490/10	ckz010.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	+++++ 393566	+++++ 536817	13040 1063874	127364	283059	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Dichlorodifluoromethane	BCM	Ave	+++++ 1687394	+++++ 2373061	54156 4827325	524916	1129574	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Freon 22	BCM	Ave	+++++ 840224	+++++ 1148663	28864 2318035	267662	577311	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
1,2-Dichlorotetrafluoroethane	BCM	Ave	+++++ 1747564	22087 2457381	50270 5017164	517629	1151940	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chloromethane	BCM	Ave	+++++ 466665	+++++ 642841	15529 1299651	146550	325650	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
n-Butane	BCM	Ave	+++++ 840295	+++++ 1136393	26294 2269233	263379	590701	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
1,3-Butadiene	BCM	Ave	+++++ 428417	5285 594316	12729 1204410	128623	290672	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acrolein	BCM	Ave	+++++ 185751	+++++ 256344	+++++ 514321	51122	120447	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
Vinyl chloride	BCM	Ave	1524 586988	7480 817235	16827 1662035	175401	396687	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromomethane	BCM	Ave	+++++ 569942	7006 828656	16245 1693799	164502	379780	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chloroethane	BCM	Ave	+++++ 302553	+++++ 423646	8516 868559	89570	202738	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Isopentane	BCM	Ave	+++++ 622540	8346 867881	19836 1741356	195472	426219	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromoethene(Vinyl Bromide)	BCM	Ave	+++++ 611435	7572 887634	17011 1848007	172557	402574	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Trichlorofluoromethane	BCM	Ave	+++++ 1783517	22776 2496706	54619 5120772	547854	1161002	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Pentane	BCM	Ave	+++++ 986163	+++++ 1363630	29541 2739630	301630	674005	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12631-1 Analy Batch No.: 43490

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethanol	BCM	Ave	+++++ 195794	+++++ 423287	43784 996073	90045	147960	+++++ 20.0	+++++ 40.0	5.00 100	10.0	15.0
Ethyl ether	BCM	Ave	+++++ 386647	4436 539131	10625 1067046	111163	254247	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Freon TF	BCM	Ave	+++++ 1247555	15500 1785541	38654 3705569	365245	822029	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
tert-Butyl alcohol	BCM	Ave	+++++ 736341	+++++ 1011441	+++++ 2093862	234420	509154	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
1,1-Dichloroethene	BCM	Ave	+++++ 590970	7505 845197	17040 1782667	169248	389344	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acetone	BCM	Ave	+++++ 695313	+++++ 929650	+++++ 1808368	220856	508549	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
Carbon disulfide	BCM	Ave	+++++ 1679909	+++++ 2418141	47375 5052073	489232	1119189	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Isopropyl alcohol	BCM	Ave	+++++ 491424	+++++ 682994	+++++ 1296594	156350	333318	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
3-Chloropropene	BCM	Ave	+++++ 708216	8784 979703	20186 2000333	210440	467926	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acetonitrile	BCM	Ave	+++++ 308270	+++++ 377267	+++++ 825669	86464	189950	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
Methylene Chloride	BCM	Ave	+++++ 564476	+++++ 785574	20407 1581183	177376	382450	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Methyl tert-butyl ether	BCM	Ave	+++++ 1691850	20302 2358384	48116 4738158	483116	1087102	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
trans-1,2-Dichloroethene	BCM	Ave	+++++ 878373	10681 1221256	25276 2496079	266907	578583	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acrylonitrile	BCM	Ave	+++++ 352996	+++++ 489994	8923 1011403	101040	230986	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Ethyl acetate	BCM	Ave	+++++ 53550	+++++ 76824	+++++ 158228	14712	33878	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
n-Hexane	BCM	Ave	+++++ 943974	11659 1328827	26975 2722223	283502	636047	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1-Dichloroethane	BCM	Ave	+++++ 1108709	14225 1557111	32811 3198805	337595	742485	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Vinyl acetate	BCM	Ave	+++++ 1239854	+++++ 1709438	+++++ 3384215	350751	802692	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
cis-1,2-Dichloroethene	BCM	Ave	+++++ 679576	9262 982350	20666 2051085	196752	451438	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl Ethyl Ketone	BCM	Ave	+++++ 270226	+++++ 383108	7573 758972	75894	174301	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Tetrahydrofuran	DFB	Ave	+++++ 555906	+++++ 761622	+++++ 1491236	165101	362068	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12631-1 Analy Batch No.: 43490

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	BCM	Ave	+++++ 1384145	17381 1948138	40941 4005308	417596	919514	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,1-Trichloroethane	DFB	Ave	+++++ 1556934	19132 2183499	46194 4498299	473681	1020074	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Cyclohexane	DFB	Ave	+++++ 969727	11808 1382842	26715 2875788	279394	636062	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Benzene	DFB	Ave	+++++ 2008021	26166 2874734	58442 5861699	586751	1329811	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
2,2,4-Trimethylpentane	DFB	Ave	+++++ 3023710	37093 4262374	85877 8653827	907351	2041604	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dichloroethane	DFB	Ave	+++++ 905678	11331 1254053	27191 2518111	283185	601581	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Heptane	DFB	Ave	+++++ 1066712	13511 1481103	31946 2965258	331000	729294	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Butanol	DFB	Ave	+++++ 189079	+++++ 272944	+++++ 604323	60155	135583	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
Carbon tetrachloride	DFB	Ave	4394 1670958	18719 2345482	45880 4919166	498385	1078834	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dichloropropane	DFB	Ave	+++++ 680514	8471 969733	18732 1910510	202786	448163	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl methacrylate	DFB	Ave	+++++ 623788	+++++ 894560	13183 1818413	163651	388995	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
1,4-Dioxane	DFB	Ave	+++++ 246521	+++++ 350811	+++++ 650303	74196	159944	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
Dibromomethane	DFB	Ave	+++++ 905001	9939 1316604	22730 2799296	251523	578927	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromodichloromethane	DFB	Ave	+++++ 1555426	16523 2191881	40315 4405637	461707	1018972	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
cis-1,3-Dichloropropene	DFB	Ave	+++++ 1150398	12608 1632459	30308 3289522	332086	748632	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
methyl isobutyl ketone	DFB	Ave	+++++ 1032913	+++++ 1403370	25685 2777113	292876	610844	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Trichloroethene	DFB	Ave	2452 947186	11714 1365930	26365 2858818	277869	631256	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Toluene	CBZ	Ave	+++++ 1532941	17855 2202530	41556 4448120	439755	1009776	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Octane	DFB	Ave	+++++ 1463679	17820 2020913	42856 3915874	454106	988252	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
trans-1,3-Dichloropropene	DFB	Ave	+++++ 1166001	12235 1641621	28452 3332037	329846	747465	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,2-Trichloroethane	CBZ	Ave	+++++ 691388	8167 983941	19172 1959711	199746	451489	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12631-1 Analy Batch No.: 43490

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrachloroethene	CBZ	Ave	+++++ 1450848	16802 2104727	38008 4431081	405766	928617	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl Butyl Ketone (2-Hexanone)	CBZ	Ave	+++++ 944792	+++++ 1296084	22126 2641748	265661	562900	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Dibromochloromethane	CBZ	Ave	+++++ 1641809	14230 2365702	35839 4844163	450291	1026857	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dibromoethane	CBZ	Ave	+++++ 1399518	13995 2002421	33697 4055501	392787	890755	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chlorobenzene	CBZ	Ave	+++++ 2246719	25629 3211968	59828 6576503	630032	1436363	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Ethylbenzene	CBZ	Ave	+++++ 3302057	36906 4678329	84758 9709309	907186	2107945	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Nonane	CBZ	Ave	+++++ 1435289	16244 1978008	37379 3985736	414432	935342	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
m,p-Xylene	CBZ	Ave	+++++ 2823904	29267 3957139	68046 8239271	759733	1781171	+++++ 30.0	0.400 40.0	1.00 80.0	10.0	20.0
Xylene, o-	CBZ	Ave	+++++ 1368167	13709 1926863	33614 3959827	369852	868813	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Styrene	CBZ	Ave	+++++ 2075226	15521 2968156	37864 6341806	524148	1290186	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromoform	CBZ	Ave	+++++ 1659606	12464 2366238	30836 4995494	434651	1017655	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Cumene	CBZ	Ave	+++++ 3947303	39171 5562721	94306 11685494	1062326	2485603	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,2,2-Tetrachloroethane	CBZ	Ave	+++++ 1773677	18312 2472348	44322 5061975	488992	1113422	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2,3-Trichloropropane	CBZ	Ave	+++++ 1415521	+++++ 1940206	36558 3884902	400659	899864	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
n-Propylbenzene	CBZ	Ave	+++++ 4524580	40576 6298984	102048 13121769	1215235	2840068	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
4-Ethyltoluene	CBZ	Ave	+++++ 4036789	32929 5577490	85543 11374226	1063720	2495383	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Decane	CBZ	Ave	+++++ 1716815	+++++ 2246198	39442 4089282	493744	1116216	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
2-Chlorotoluene	CBZ	Ave	+++++ 3245736	35324 4462218	80335 8882480	912240	2051831	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,3,5-Trimethylbenzene	CBZ	Ave	+++++ 3400461	30668 4736016	75673 10066067	909268	2106707	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Alpha Methyl Styrene	CBZ	Ave	+++++ 1719742	10162 2451434	26719 5316033	432507	1053537	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
tert-Butylbenzene	CBZ	Ave	+++++ 3380018	31409 4720355	79610 9938298	911084	2098797	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12631-1 Analy Batch No.: 43490

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBZ	Ave	+++++ 3368303	27852 4652357	68858 9966136	894230	2069833	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
sec-Butylbenzene	CBZ	Ave	+++++ 4835073	41489 6735894	105849 14311357	1302558	3001987	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
4-Isopropyltoluene	CBZ	Ave	+++++ 4254247	31629 5915135	83572 12663046	1109988	2579274	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,3-Dichlorobenzene	CBZ	Ave	+++++ 2329856	20720 3255522	49495 7188170	610301	1416167	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,4-Dichlorobenzene	CBZ	Ave	+++++ 2258369	19940 3174265	47456 7057943	584758	1369962	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Benzyl chloride	CBZ	Ave	+++++ 2604019	18898 3648254	43600 8071371	634101	1527206	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Butylbenzene	CBZ	Ave	+++++ 3339168	21909 4559870	55935 9769839	837955	1988185	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Undecane	CBZ	Ave	+++++ 1633244	+++++ 2023452	+++++ 4678209	376487	881223	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
1,2-Dichlorobenzene	CBZ	Ave	+++++ 2181647	19010 3027941	45888 6658200	573557	1317115	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Dodecane	CBZ	Ave	+++++ 857889	+++++ 933475	+++++ 2701195	265689	533363	+++++ 15.0	+++++ 20.0	+++++ 40.0	5.00	10.0
1,2,4-Trichlorobenzene	CBZ	Ave	+++++ 934260	+++++ 1228920	20429 3207300	258080	508705	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
Hexachlorobutadiene	CBZ	Ave	+++++ 1271862	10984 1712222	26553 3660873	339968	738987	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Naphthalene	CBZ	Ave	+++++ 1889409	+++++ 2318811	37078 6659792	511479	1063574	+++++ 15.0	+++++ 20.0	0.500 40.0	5.00	10.0
1,2,3-Trichlorobenzene	CBZ	Ave	+++++ 729064	6673 944178	16918 2427773	208922	422731	+++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

Curve Type Legend:
Ave = Average ISTD

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12631-1

SDG No.:

Lab Sample ID: ICV 200-43490/18 Calibration Date: 08/15/2012 11:09

Instrument ID: C.i Calib Start Date: 08/14/2012 18:13

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/15/2012 08:24

Lab File ID: ckz018.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.6484	0.6663		10.3	10.0	2.8	30.0
Dichlorodifluoromethane	Ave	2.746	2.788		10.2	10.0	1.5	30.0
Freon 22	Ave	1.384	1.408		10.2	10.0	1.7	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.798	2.787		9.96	10.0	-0.4	30.0
Chloromethane	Ave	0.7657	0.7830		10.2	10.0	2.3	30.0
n-Butane	Ave	1.354	1.389		10.3	10.0	2.6	30.0
Vinyl chloride	Ave	0.9506	0.9470		9.96	10.0	-0.4	30.0
1,3-Butadiene	Ave	0.6877	0.7223		10.5	10.0	5.0	30.0
Bromomethane	Ave	0.9137	0.8865		9.70	10.0	-3.0	30.0
Chloroethane	Ave	0.4767	0.4754		9.97	10.0	-0.3	30.0
Isopentane	Ave	1.031	1.028		9.96	10.0	-0.3	30.0
Bromoethene(Vinyl Bromide)	Ave	0.9751	0.9765		10.0	10.0	0.1	30.0
Trichlorofluoromethane	Ave	2.896	2.875		9.93	10.0	-0.7	30.0
n-Pentane	Ave	1.574	1.575		10.0	10.0	0.0	30.0
Ethanol	Ave	0.2344	0.2513		16.1	15.0	7.2	30.0
Ethyl ether	Ave	0.5994	0.6146		10.3	10.0	2.5	30.0
Acrolein	Ave	0.2829	0.2616		9.25	10.0	-7.5	30.0
Freon TF	Ave	2.025	2.150		10.6	10.0	6.2	30.0
1,1-Dichloroethene	Ave	0.9508	1.032		10.9	10.0	8.6	30.0
Acetone	Ave	1.101	1.208		11.0	10.0	9.7	30.0
Carbon disulfide	Ave	2.669	2.747		10.3	10.0	2.9	30.0
Isopropyl alcohol	Ave	0.7736	0.8070		10.4	10.0	4.3	30.0
3-Chloropropene	Ave	1.125	1.202		10.7	10.0	6.9	30.0
Acetonitrile	Ave	0.4531	0.5060		11.2	10.0	11.7	30.0
Methylene Chloride	Ave	0.9393	0.997		10.6	10.0	6.1	30.0
tert-Butyl alcohol	Ave	1.177	1.247		10.6	10.0	6.0	30.0
Methyl tert-butyl ether	Ave	2.647	2.814		10.6	10.0	6.3	30.0
trans-1,2-Dichloroethene	Ave	1.399	1.427		10.2	10.0	2.0	30.0
Acrylonitrile	Ave	0.5402	0.6030		11.2	10.0	11.6	30.0
n-Hexane	Ave	1.513	1.551		10.2	10.0	2.5	30.0
1,1-Dichloroethane	Ave	1.799	1.826		10.1	10.0	1.5	30.0
Vinyl acetate	Ave	1.893	2.057		10.9	10.0	8.7	30.0
cis-1,2-Dichloroethene	Ave	1.119	1.121		10.0	10.0	0.2	30.0
Methyl Ethyl Ketone	Ave	0.4184	0.4474		10.7	10.0	6.9	30.0
Ethyl acetate	Ave	0.0828	0.0876		10.6	10.0	5.9	30.0
Tetrahydrofuran	Ave	0.1572	0.1703		10.8	10.0	8.3	30.0
Chloroform	Ave	2.234	2.250		10.1	10.0	0.7	30.0
1,1,1-Trichloroethane	Ave	0.4565	0.4551		9.97	10.0	-0.3	30.0
Cyclohexane	Ave	0.2805	0.2822		10.1	10.0	0.6	30.0
Carbon tetrachloride	Ave	0.4819	0.4760		9.88	10.0	-1.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12631-1

SDG No.:

Lab Sample ID: ICV 200-43490/18 Calibration Date: 08/15/2012 11:09

Instrument ID: C.i Calib Start Date: 08/14/2012 18:13

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/15/2012 08:24

Lab File ID: ckz018.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzene	Ave	0.5923	0.5887		9.94	10.0	-0.6	30.0
2,2,4-Trimethylpentane	Ave	0.8821	0.8996		10.2	10.0	2.0	30.0
1,2-Dichloroethane	Ave	0.2664	0.2710		10.2	10.0	1.7	30.0
n-Heptane	Ave	0.3152	0.3254		10.3	10.0	3.2	30.0
n-Butanol	Ave	0.0579	0.0581		10.0	10.0	0.4	30.0
Trichloroethene	Ave	0.2787	0.2714		9.73	10.0	-2.6	30.0
1,2-Dichloropropane	Ave	0.1969	0.1920		9.75	10.0	-2.5	30.0
Methyl methacrylate	Ave	0.1681	0.1777		10.6	10.0	5.7	30.0
1,4-Dioxane	Ave	0.0702	0.0639		9.11	10.0	-8.9	30.0
Dibromomethane	Ave	0.2550	0.2525		9.90	10.0	-1.0	30.0
Bromodichloromethane	Ave	0.4359	0.4614		10.6	10.0	5.9	30.0
cis-1,3-Dichloropropene	Ave	0.3236	0.3222		9.96	10.0	-0.4	30.0
methyl isobutyl ketone	Ave	0.2796	0.3062		10.9	10.0	9.5	30.0
Toluene	Ave	0.4794	0.4739		9.88	10.0	-1.1	30.0
n-Octane	Ave	0.4253	0.4341		10.2	10.0	2.1	30.0
trans-1,3-Dichloropropene	Ave	0.3207	0.3284		10.2	10.0	2.4	30.0
1,1,2-Trichloroethane	Ave	0.2163	0.2048		9.47	10.0	-5.3	30.0
Tetrachloroethene	Ave	0.4520	0.4338		9.60	10.0	-4.0	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2793	0.3020		10.8	10.0	8.1	30.0
Dibromochloromethane	Ave	0.4757	0.5164		10.9	10.0	8.6	30.0
1,2-Dibromoethane	Ave	0.4184	0.4150		9.92	10.0	-0.8	30.0
Chlorobenzene	Ave	0.6941	0.6711		9.67	10.0	-3.3	30.0
Ethylbenzene	Ave	1.008	1.035		10.3	10.0	2.7	30.0
n-Nonane	Ave	0.4389	0.4666		10.6	10.0	6.3	30.0
m,p-Xylene	Ave	0.4201	0.4322		20.6	20.0	2.9	30.0
Xylene, o-	Ave	0.4067	0.4199		10.3	10.0	3.2	30.0
Styrene	Ave	0.5752	0.6271		10.9	10.0	9.0	30.0
Bromoform	Ave	0.4612	0.5131		11.1	10.0	11.3	30.0
Cumene	Ave	1.170	1.245		10.6	10.0	6.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5293	0.5402		10.2	10.0	2.1	30.0
1,2,3-Trichloropropane	Ave	0.4280	0.4535		10.6	10.0	6.0	30.0
n-Propylbenzene	Ave	1.307	1.431		10.9	10.0	9.4	30.0
4-Ethyltoluene	Ave	1.133	1.288		11.4	10.0	13.8	30.0
n-Decane	Ave	0.4980	0.5713		11.5	10.0	14.7	30.0
2-Chlorotoluene	Ave	0.9700	1.058		10.9	10.0	9.0	30.0
1,3,5-Trimethylbenzene	Ave	0.9824	1.049		10.7	10.0	6.8	30.0
Alpha Methyl Styrene	Ave	0.4584	0.5383		11.7	10.0	17.4	30.0
tert-Butylbenzene	Ave	0.9877	1.083		11.0	10.0	9.6	30.0
1,2,4-Trimethylbenzene	Ave	0.9504	1.025		10.8	10.0	7.9	30.0
sec-Butylbenzene	Ave	1.388	1.543		11.1	10.0	11.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12631-1

SDG No.:

Lab Sample ID: ICV 200-43490/18 Calibration Date: 08/15/2012 11:09

Instrument ID: C.i Calib Start Date: 08/14/2012 18:13

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/15/2012 08:24

Lab File ID: ckz018.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.178	1.346		11.4	10.0	14.3	30.0
1,3-Dichlorobenzene	Ave	0.6694	0.6994		10.4	10.0	4.5	30.0
1,4-Dichlorobenzene	Ave	0.6483	0.6868		10.6	10.0	5.9	30.0
Benzyl chloride	Ave	0.7030	0.8020		11.4	10.0	14.1	30.0
n-Butylbenzene	Ave	0.8856	1.055		11.9	10.0	19.1	30.0
n-Undecane	Ave	0.4617	0.5107		11.1	10.0	10.6	30.0
1,2-Dichlorobenzene	Ave	0.6226	0.6471		10.4	10.0	3.9	30.0
n-Dodecane	Ave	0.2640	0.2963		11.2	10.0	12.2	30.0
1,2,4-Trichlorobenzene	Ave	0.2781	0.2872		10.3	10.0	3.3	30.0
Hexachlorobutadiene	Ave	0.3561	0.4031		11.3	10.0	13.2	30.0
Naphthalene	Ave	0.5526	0.6238		11.3	10.0	12.9	30.0
1,2,3-Trichlorobenzene	Ave	0.2145	0.2570		12.0	10.0	19.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12631-1

SDG No.:

Lab Sample ID: CCVIS 200-44923/2 Calibration Date: 09/13/2012 11:44

Instrument ID: C.i Calib Start Date: 08/14/2012 18:13

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/15/2012 08:24

Lab File ID: ckzu002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.6484	0.4984		7.68	10.0	-23.1	30.0
Dichlorodifluoromethane	Ave	2.746	2.577		9.38	10.0	-6.2	30.0
Freon 22	Ave	1.384	1.195		8.63	10.0	-13.7	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.798	2.558		9.14	10.0	-8.6	30.0
Chloromethane	Ave	0.7657	0.5991		7.82	10.0	-21.8	30.0
n-Butane	Ave	1.354	1.031		7.61	10.0	-23.8	30.0
Vinyl chloride	Ave	0.9506	0.7579		7.97	10.0	-20.3	30.0
1,3-Butadiene	Ave	0.6877	0.5437		7.90	10.0	-20.9	30.0
Bromomethane	Ave	0.9137	0.8017		8.77	10.0	-12.3	30.0
Chloroethane	Ave	0.4767	0.3747		7.86	10.0	-21.4	30.0
Isopentane	Ave	1.031	0.7298		7.07	10.0	-29.2	30.0
Bromoethene(Vinyl Bromide)	Ave	0.9751	0.9235		9.47	10.0	-5.3	30.0
Trichlorofluoromethane	Ave	2.896	2.704		9.34	10.0	-6.6	30.0
n-Pentane	Ave	1.574	1.176		7.47	10.0	-25.3	30.0
Ethanol	Ave	0.2344	0.1712		11.0	15.0	-27.0	30.0
Ethyl ether	Ave	0.5994	0.5039		8.41	10.0	-15.9	30.0
Acrolein	Ave	0.2829	0.1996		7.05	10.0	-29.4	30.0
Freon TF	Ave	2.025	1.876		9.26	10.0	-7.3	30.0
1,1-Dichloroethene	Ave	0.9508	0.8893		9.35	10.0	-6.5	30.0
Acetone	Ave	1.101	1.029		9.34	10.0	-6.5	30.0
Carbon disulfide	Ave	2.669	2.335		8.74	10.0	-12.5	30.0
Isopropyl alcohol	Ave	0.7736	0.7114		9.19	10.0	-8.0	30.0
3-Chloropropene	Ave	1.125	0.8398		7.46	10.0	-25.4	30.0
Acetonitrile	Ave	0.4531	0.4018		8.87	10.0	-11.3	30.0
Methylene Chloride	Ave	0.9393	0.7251		7.72	10.0	-22.8	30.0
tert-Butyl alcohol	Ave	1.177	1.321		11.2	10.0	12.3	30.0
Methyl tert-butyl ether	Ave	2.647	2.362		8.92	10.0	-10.8	30.0
trans-1,2-Dichloroethene	Ave	1.399	1.188		8.49	10.0	-15.1	30.0
Acrylonitrile	Ave	0.5402	0.4363		8.08	10.0	-19.2	30.0
n-Hexane	Ave	1.513	1.209		7.99	10.0	-20.1	30.0
1,1-Dichloroethane	Ave	1.799	1.515		8.42	10.0	-15.8	30.0
Vinyl acetate	Ave	1.893	1.486		7.85	10.0	-21.5	30.0
cis-1,2-Dichloroethene	Ave	1.119	1.017		9.08	10.0	-9.2	30.0
Methyl Ethyl Ketone	Ave	0.4184	0.3548		8.48	10.0	-15.2	30.0
Ethyl acetate	Ave	0.0828	0.0723		8.73	10.0	-12.7	30.0
Tetrahydrofuran	Ave	0.1572	0.1187		7.55	10.0	-24.5	30.0
Chloroform	Ave	2.234	2.047		9.16	10.0	-8.4	30.0
1,1,1-Trichloroethane	Ave	0.4565	0.4311		9.44	10.0	-5.6	30.0
Cyclohexane	Ave	0.2805	0.2467		8.79	10.0	-12.0	30.0
Carbon tetrachloride	Ave	0.4819	0.4556		9.45	10.0	-5.5	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12631-1

SDG No.:

Lab Sample ID: CCVIS 200-44923/2 Calibration Date: 09/13/2012 11:44

Instrument ID: C.i Calib Start Date: 08/14/2012 18:13

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/15/2012 08:24

Lab File ID: ckzu002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzene	Ave	0.5923	0.5060		8.54	10.0	-14.6	30.0
2,2,4-Trimethylpentane	Ave	0.8821	0.7037		7.98	10.0	-20.2	30.0
1,2-Dichloroethane	Ave	0.2664	0.2504		9.40	10.0	-6.0	30.0
n-Heptane	Ave	0.3152	0.2371		7.52	10.0	-24.8	30.0
n-Butanol	Ave	0.0579	0.0516		8.92	10.0	-10.8	30.0
Trichloroethene	Ave	0.2787	0.2582		9.26	10.0	-7.4	30.0
1,2-Dichloropropane	Ave	0.1969	0.1626		8.25	10.0	-17.4	30.0
Methyl methacrylate	Ave	0.1681	0.1422		8.45	10.0	-15.5	30.0
1,4-Dioxane	Ave	0.0702	0.0738		10.5	10.0	5.2	30.0
Dibromomethane	Ave	0.2550	0.2635		10.3	10.0	3.3	30.0
Bromodichloromethane	Ave	0.4359	0.4125		9.46	10.0	-5.4	30.0
cis-1,3-Dichloropropene	Ave	0.3236	0.2917		9.01	10.0	-9.8	30.0
methyl isobutyl ketone	Ave	0.2796	0.2327		8.32	10.0	-16.8	30.0
Toluene	Ave	0.4794	0.4601		9.60	10.0	-4.0	30.0
n-Octane	Ave	0.4253	0.3258		7.66	10.0	-23.4	30.0
trans-1,3-Dichloropropene	Ave	0.3207	0.2976		9.28	10.0	-7.2	30.0
1,1,2-Trichloroethane	Ave	0.2163	0.1986		9.18	10.0	-8.2	30.0
Tetrachloroethene	Ave	0.4520	0.4780		10.6	10.0	5.8	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2793	0.2467		8.83	10.0	-11.7	30.0
Dibromochloromethane	Ave	0.4757	0.4985		10.5	10.0	4.8	30.0
1,2-Dibromoethane	Ave	0.4184	0.4174		9.97	10.0	-0.2	30.0
Chlorobenzene	Ave	0.6941	0.6668		9.60	10.0	-3.9	30.0
Ethylbenzene	Ave	1.008	0.9368		9.29	10.0	-7.1	30.0
n-Nonane	Ave	0.4389	0.3572		8.14	10.0	-18.6	30.0
m,p-Xylene	Ave	0.4201	0.4085		19.4	20.0	-2.8	30.0
Xylene, o-	Ave	0.4067	0.3967		9.75	10.0	-2.5	30.0
Styrene	Ave	0.5752	0.5869		10.2	10.0	2.0	30.0
Bromoform	Ave	0.4612	0.4887		10.6	10.0	6.0	30.0
Cumene	Ave	1.170	1.118		9.56	10.0	-4.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5293	0.4742		8.96	10.0	-10.4	30.0
1,2,3-Trichloropropane	Ave	0.4280	0.3827		8.94	10.0	-10.6	30.0
n-Propylbenzene	Ave	1.307	1.221		9.34	10.0	-6.6	30.0
4-Ethyltoluene	Ave	1.133	1.111		9.80	10.0	-2.0	30.0
n-Decane	Ave	0.4980	0.4294		8.62	10.0	-13.8	30.0
2-Chlorotoluene	Ave	0.9700	0.9074		9.35	10.0	-6.5	30.0
1,3,5-Trimethylbenzene	Ave	0.9824	0.9287		9.45	10.0	-5.5	30.0
Alpha Methyl Styrene	Ave	0.4584	0.4751		10.4	10.0	3.6	30.0
tert-Butylbenzene	Ave	0.9877	0.9459		9.58	10.0	-4.2	30.0
1,2,4-Trimethylbenzene	Ave	0.9504	0.9064		9.54	10.0	-4.6	30.0
sec-Butylbenzene	Ave	1.388	1.308		9.42	10.0	-5.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12631-1

SDG No.:

Lab Sample ID: CCVIS 200-44923/2 Calibration Date: 09/13/2012 11:44

Instrument ID: C.i Calib Start Date: 08/14/2012 18:13

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/15/2012 08:24

Lab File ID: ckzu002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.178	1.154		9.80	10.0	-2.0	30.0
1,3-Dichlorobenzene	Ave	0.6694	0.6820		10.2	10.0	1.9	30.0
1,4-Dichlorobenzene	Ave	0.6483	0.6624		10.2	10.0	2.2	30.0
Benzyl chloride	Ave	0.7030	0.5936		8.44	10.0	-15.6	30.0
n-Butylbenzene	Ave	0.8856	0.8528		9.63	10.0	-3.7	30.0
n-Undecane	Ave	0.4617	0.3735		8.09	10.0	-19.1	30.0
1,2-Dichlorobenzene	Ave	0.6226	0.6356		10.2	10.0	2.1	30.0
n-Dodecane	Ave	0.2640	0.2654		10.0	10.0	0.5	30.0
1,2,4-Trichlorobenzene	Ave	0.2781	0.3643		13.1	10.0	31.0*	30.0
Hexachlorobutadiene	Ave	0.3561	0.3563		10.0	10.0	0.0	30.0
Naphthalene	Ave	0.5526	0.7564		13.7	10.0	36.9*	30.0
1,2,3-Trichlorobenzene	Ave	0.2145	0.3102		14.5	10.0	44.6*	30.0

GC/MS Air Instrument Run Log

Sequence			Standard Traceability	Instrument Information
Target Batch ID: CRZ	Start Date: 8/14/12	Time: 1628	ISTD Container ID: 248052	Instrument ID: C
Test Method: TO15	End Date: 8/15/12	Time: 1628	CCV Container ID: see comment	Instrument: 5973
ICAL Date: 8/14/12			ICV/LCS Container ID: see comment	Column Type: RTX-624

Analyst / Supervisor Signature(s): *Insert signature when specified as project requirement. Otherwise leave this section blank.*

Mark Phillips MTP — Angela H. Keene AHK — William D. [illegible] WDD

Mark Phillips — Angela H. Keene — William D. [illegible]

Sequence Information								Individual Sample Review			
Injection Time	GC/MS File Name	Summa Can ID	TALS Sample ID	Dilution Factor	Inlet #	Volume (mL)	Operator	Internal Std.	Result Conc.	Primary Anal.	Comments
1628	CRZ 01	NA	BFB	NA	NA	NA	WDD	NA	✓		
1721	CRZ 02	4632	viblk		1	200		✓	—	AHK	
1813	03	3142	IC level 8		2	40		✓	—		376683
1907	04	3142	IC level 1		2	200		✓	—		376683
2000	05	3611	IC level 2		3			✓	—		376702
2053	06	3639	IC level 3		4			✓	✓		370619
2147	07	4233	IC level 4		5			✓	✓		370617 Do not use
2241	08	3084	IC level 5		6		AHK	✓	✓		370603
2334	09	4943	IC level 6		7			✓	✓	WDD	370601
0028	10	3649	IC level 7		8			✓	✓		370600
0122	11	4632	viblk		1						
0215	12	2518	ICV		9						370624
0308	13	2518	LCS		9						370624
0402	14	4632	MB		1						
0824	15	3642	ICS level 4	NA	5	200	WDD	✓	✓		370604
0922	16	2518	Instrument ICL		9						370624 Do not use
1016	17	4632	VIBLK		1						
1109	18	3482	ICV		9			✓	✓		370622

8/15/12

Legend: C=Complete • R=Reanalyze • ↑ = High • ↓= Low • ✓=Reviewed and Acceptable

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12631-1

SDG No.:

Instrument ID: C.i Start Date: 08/14/2012 16:28

Analysis Batch Number: 43490 End Date: 08/15/2012 11:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-43490/1		08/14/2012 16:28	1	ckz001.d	RTX-624 0.32(mm)
VIBLK 200-43490/2		08/14/2012 17:21	1		RTX-624 0.32(mm)
IC 200-43490/3		08/14/2012 18:13	1	ckz003.d	RTX-624 0.32(mm)
IC 200-43490/4		08/14/2012 19:07	1	ckz004.d	RTX-624 0.32(mm)
IC 200-43490/5		08/14/2012 20:00	1	ckz005.d	RTX-624 0.32(mm)
IC 200-43490/6		08/14/2012 20:53	1	ckz006.d	RTX-624 0.32(mm)
ZZZZZ		08/14/2012 21:47	1		RTX-624 0.32(mm)
IC 200-43490/8		08/14/2012 22:41	1	ckz008.d	RTX-624 0.32(mm)
IC 200-43490/9		08/14/2012 23:34	1	ckz009.d	RTX-624 0.32(mm)
IC 200-43490/10		08/15/2012 00:28	1	ckz010.d	RTX-624 0.32(mm)
VIBLK 200-43490/11		08/15/2012 01:22	1		RTX-624 0.32(mm)
ZZZZZ		08/15/2012 02:15	1		RTX-624 0.32(mm)
ZZZZZ		08/15/2012 03:08	1		RTX-624 0.32(mm)
ZZZZZ		08/15/2012 04:02	1		RTX-624 0.32(mm)
ICIS 200-43490/15		08/15/2012 08:24	1	ckz015.d	RTX-624 0.32(mm)
ZZZZZ		08/15/2012 09:22	1		RTX-624 0.32(mm)
VIBLK 200-43490/17		08/15/2012 10:16	1		RTX-624 0.32(mm)
ICV 200-43490/18		08/15/2012 11:09	1	ckz018.d	RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12631-1

SDG No.:

Instrument ID: C.i Start Date: 09/13/2012 10:47

Analysis Batch Number: 44923 End Date: 09/14/2012 10:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-44923/1		09/13/2012 10:47	1	ckzu001.d	RTX-624 0.32(mm)
CCVIS 200-44923/2		09/13/2012 11:44	1	ckzu002.d	RTX-624 0.32(mm)
LCS 200-44923/3		09/13/2012 12:38	1	ckzu003.d	RTX-624 0.32(mm)
MB 200-44923/4		09/13/2012 13:31	1	ckzu004.d	RTX-624 0.32(mm)
ZZZZZ		09/13/2012 14:23	5		RTX-624 0.32(mm)
ZZZZZ		09/13/2012 15:16	5.56		RTX-624 0.32(mm)
ZZZZZ		09/13/2012 16:10	1		RTX-624 0.32(mm)
ZZZZZ		09/13/2012 17:03	1		RTX-624 0.32(mm)
ZZZZZ		09/13/2012 17:56	1		RTX-624 0.32(mm)
ZZZZZ		09/13/2012 18:50	2.99		RTX-624 0.32(mm)
ZZZZZ		09/13/2012 19:43	4		RTX-624 0.32(mm)
ZZZZZ		09/13/2012 20:37	2.5		RTX-624 0.32(mm)
ZZZZZ		09/13/2012 21:30	1		RTX-624 0.32(mm)
ZZZZZ		09/13/2012 22:23	1.5		RTX-624 0.32(mm)
ZZZZZ		09/13/2012 23:17	1		RTX-624 0.32(mm)
ZZZZZ		09/14/2012 00:12	1		RTX-624 0.32(mm)
ZZZZZ		09/14/2012 01:05	1		RTX-624 0.32(mm)
ZZZZZ		09/14/2012 01:59	1		RTX-624 0.32(mm)
ZZZZZ		09/14/2012 02:53	1		RTX-624 0.32(mm)
200-12631-12	3423	09/14/2012 03:47	0.2	ckzu020.d	RTX-624 0.32(mm)
ZZZZZ		09/14/2012 04:41	0.2		RTX-624 0.32(mm)
ZZZZZ		09/14/2012 05:35	665		RTX-624 0.32(mm)
ZZZZZ		09/14/2012 06:29	3330		RTX-624 0.32(mm)
ZZZZZ		09/14/2012 07:23	0.2		RTX-624 0.32(mm)
ZZZZZ		09/14/2012 08:29	1		RTX-624 0.32(mm)
ZZZZZ		09/14/2012 09:24	1.5		RTX-624 0.32(mm)
ZZZZZ		09/14/2012 10:17	5		RTX-624 0.32(mm)

TO-15

Shipping and Receiving Documents

SDG: BA316

USEPA CLP Organics COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 2-092612-090043-0027

DateShipped: 9/26/2012

CarrierName: FedEx

AirbillNo: ~~8758-0985-3461~~ 8011 3814 9774 BMOC 10/2/12

Case #:

Cooler #:

Lab: TestAmerica Laboratories Inc.

Lab Contact:

Lab Phone: 802-660-1990

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	For Lab Use Only
BA316	Air/ Joe Cotter		TO-15	A (1)	AS-EFF-120926	09/26/2012 14:20		

Joseph A Cotter

Special Instructions: WET SAMPLE!! Canister may contain moisture!

CUSTODY SEAL #s: 585655, 656

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Joseph A Cotter	9/26/12	TABUR Steph Bruch	10/2/12	1020						

FedEx Express NEW Package US Airbill

FedEx Tracking Number 8011 3814 9774

Form ID No. 0200

Recipient's Copy

1 From

Date 10/1/12 [redacted]

Sender's Name Joe Cotter Phone 913 961-5257

Company Arrowhead Contracting

Address 251 Clinton Rd

Dept./Floor/Suite/Room

City Garden City State NY ZIP 11530

2 Your Internal Billing Reference 17-10-K

3 To

Recipient's Name Sample Receiving Phone 802 660-1990

Company Test America

Address 30 Community Dr. Suit 11

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City South Burlington State VT ZIP 05403

☐ HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

☐ HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

8011 3814 9774

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☒ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.

☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☒ Other

6 Special Handling and Delivery Signature Options

☐ SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☒ No Signature Required — Package may be left without obtaining a signature for delivery.

☐ Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*

☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

☒ No ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

☒ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Obtain recip. Acct. No. ☐

[redacted]

Total Packages 1 Total Weight 8 lbs. [redacted] Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

644

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fedex.com 1.800.GoFedEx 1.800.463.3339

Steph Pauchen TABLER
10/2/12 1020

Login Sample Receipt Checklist

Client: Arrowhead Contracting

Job Number: 200-12991-1
SDG Number: 200-12991

Login Number: 12991
List Number: 1
Creator: Kirchner, Benjamin

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	585655, 656
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Appendix C

Compliance Sample Analytical Data – Water

Sample Summary Report

Case No:	42872	Contract:	EPW11035	SDG No:	B41L4	Lab Code:	SHEALY
Sample Number:	B41L4	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	CI-120911	pH:	2	Sample Date:	09/11/2012	Sample Time:	09:30:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	11	ug/L	1.0			Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	J	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluorom ethane	14	ug/L	1.0	E		Yes	S3VEM
1,1-Dichloroethene	2.1	ug/L	1.0			Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.96	ug/L	1.0			Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	1.1	ug/L	1.0			Yes	S3VEM
Methyl tert-butyl ether	4.5	ug/L	1.0			Yes	S3VEM
1,1-Dichloroethane	1.2	ug/L	1.0			Yes	S3VEM
cis-1,2-Dichloroethene	6.0	ug/L	1.0			Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromet hane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.46	ug/L	1.0	J	J	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.35	ug/L	1.0	J	J	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	100	ug/L	1.0	E		Yes	S3VEM
Methylcyclohexa ne	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	71	ug/L	1.0	E		Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: B41L4	Lab Code: SHEALY

Sample Number:	B41L4DL	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	CI-120911	pH:	2	Sample Date:	09/11/2012	Sample Time:	09:30:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	8.0	ug/L	10.0	D		No	S3VEM
Chloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
Vinyl chloride	5.0	ug/L	10.0	U	U	No	S3VEM
Bromomethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Trichlorofluoromethane	14	ug/L	10.0	D		No	S3VEM
1,1-Dichloroethene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Acetone	50	ug/L	10.0	U	U	No	S3VEM
Carbon Disulfide	5.0	ug/L	10.0	U	U	No	S3VEM
Methyl acetate	5.0	ug/L	10.0	U	U	No	S3VEM
Methylene chloride	2.4	ug/L	10.0	J D	J	No	S3VEM
trans-1,2-Dichloroethene	5.0	ug/L	10.0	U	U	No	S3VEM
Methyl tert-butyl ether	4.8	ug/L	10.0	J D	J	No	S3VEM
1,1-Dichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
cis-1,2-Dichloroethene	5.4	ug/L	10.0	D		No	S3VEM
2-Butanone	50	ug/L	10.0	U	U	No	S3VEM
Bromochloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chloroform	0.91	ug/L	10.0	J D	J	No	S3VEM
1,1,1-Trichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Cyclohexane	5.0	ug/L	10.0	U	U	No	S3VEM
Carbon tetrachloride	5.0	ug/L	10.0	U	U	No	S3VEM
Benzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Trichloroethene	100	ug/L	10.0	D		No	S3VEM
Methylcyclohexane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichloropropane	5.0	ug/L	10.0	U	U	No	S3VEM
Bromodichloromethane	5.0	ug/L	10.0	U	U	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	5.0	ug/L	10.0	U	U	No	S3VEM
4-Methyl-2-pentanone	50	ug/L	10.0	U	U	No	S3VEM
Toluene	5.0	ug/L	10.0	U	U	No	S3VEM
trans-1,3-Dichloropropene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2-Trichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Tetrachloroethene	71	ug/L	10.0	D		No	S3VEM
2-Hexanone	50	ug/L	10.0	U	U	No	S3VEM
Dibromochloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dibromoethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
Ethylbenzene	5.0	ug/L	10.0	U	U	No	S3VEM
o-Xylene	5.0	ug/L	10.0	U	U	No	S3VEM
m,p-Xylene	5.0	ug/L	10.0	U	U	No	S3VEM
Styrene	5.0	ug/L	10.0	U	U	No	S3VEM
Bromoform	5.0	ug/L	10.0	U	UJ	No	S3VEM
Isopropylbenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2,2-Tetrachloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
1,3-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,4-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dibromo-3-chloropropane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2,4-Trichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2,3-Trichlorobenzene	5.0	ug/L	10.0	U	UJ	No	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: B41L4	Lab Code: SHEALY

Sample Number:	B41L5	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	EFF-120911	pH:	2	Sample Date:	09/11/2012	Sample Time:	09:45:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	J	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	1.3	ug/L	1.0			Yes	S3VEM
1,1-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
cis-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	0.31	ug/L	1.0	J	J	Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: B41L4	Lab Code: SHEALY

Sample Number:	B41L6	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	EW-1D-120911	pH:	2	Sample Date:	09/11/2012	Sample Time:	09:38:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	14	ug/L	1.0			Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	J	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	21	ug/L	1.0	E		Yes	S3VEM
1,1-Dichloroethene	2.7	ug/L	1.0			Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	1.4	ug/L	1.0			Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	1.7	ug/L	1.0			Yes	S3VEM
Methyl tert-butyl ether	0.72	ug/L	1.0			Yes	S3VEM
1,1-Dichloroethane	1.8	ug/L	1.0			Yes	S3VEM
cis-1,2-Dichloroethene	6.8	ug/L	1.0			Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.60	ug/L	1.0			Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.45	ug/L	1.0	J	J	Yes	S3VEM
Benzene	0.19	ug/L	1.0	J	J	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	79	ug/L	1.0	E		Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	120	ug/L	1.0	E		Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: B41L4	Lab Code: SHEALY
Sample Number: B41L6DL	Method: VOA_Trace	Matrix: Water	MA Number: DEFAULT
Sample Location: EW-1D-120911	pH: 2	Sample Date: 09/11/2012	Sample Time: 09:38:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	4.9	ug/L	10.0	J D	J	No	S3VEM
Chloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
Vinyl chloride	5.0	ug/L	10.0	U	U	No	S3VEM
Bromomethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Trichlorofluoromethane	21	ug/L	10.0	D		No	S3VEM
1,1-Dichloroethene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Acetone	50	ug/L	10.0	U	U	No	S3VEM
Carbon Disulfide	5.0	ug/L	10.0	U	U	No	S3VEM
Methyl acetate	5.0	ug/L	10.0	U	U	No	S3VEM
Methylene chloride	2.6	ug/L	10.0	J D	J	No	S3VEM
trans-1,2-Dichloroethene	1.3	ug/L	10.0	J D	J	No	S3VEM
Methyl tert-butyl ether	5.0	ug/L	10.0	U	U	No	S3VEM
1,1-Dichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
cis-1,2-Dichloroethene	6.4	ug/L	10.0	D		No	S3VEM
2-Butanone	50	ug/L	10.0	U	U	No	S3VEM
Bromochloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chloroform	1.0	ug/L	10.0	J D	J	No	S3VEM
1,1,1-Trichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Cyclohexane	5.0	ug/L	10.0	U	U	No	S3VEM
Carbon tetrachloride	5.0	ug/L	10.0	U	U	No	S3VEM
Benzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Trichloroethene	79	ug/L	10.0	D		No	S3VEM
Methylcyclohexane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichloropropane	5.0	ug/L	10.0	U	U	No	S3VEM
Bromodichloromethane	5.0	ug/L	10.0	U	U	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	5.0	ug/L	10.0	U	U	No	S3VEM
4-Methyl-2-pentanone	50	ug/L	10.0	U	U	No	S3VEM
Toluene	5.0	ug/L	10.0	U	U	No	S3VEM
trans-1,3-Dichloropropene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2-Trichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Tetrachloroethene	120	ug/L	10.0	D		No	S3VEM
2-Hexanone	50	ug/L	10.0	U	U	No	S3VEM
Dibromochloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dibromoethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
Ethylbenzene	5.0	ug/L	10.0	U	U	No	S3VEM
o-Xylene	5.0	ug/L	10.0	U	U	No	S3VEM
m,p-Xylene	5.0	ug/L	10.0	U	U	No	S3VEM
Styrene	5.0	ug/L	10.0	U	U	No	S3VEM
Bromoform	5.0	ug/L	10.0	U	UJ	No	S3VEM
Isopropylbenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2,2-Tetrachloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
1,3-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,4-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dibromo-3-chloropropane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2,4-Trichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2,3-Trichlorobenzene	5.0	ug/L	10.0	U	UJ	No	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: B41L4	Lab Code: SHEALY

Sample Number:	B41L7	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	EW-1S-120911	pH:	2	Sample Date:	09/11/2012	Sample Time:	09:40:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	2.3	ug/L	1.0			Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	J	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	1.3	ug/L	1.0			Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.15	ug/L	1.0	J	J	Yes	S3VEM
Methyl tert-butyl ether	11	ug/L	1.0			Yes	S3VEM
1,1-Dichloroethane	0.18	ug/L	1.0	J	J	Yes	S3VEM
cis-1,2-Dichloroethene	4.7	ug/L	1.0			Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.22	ug/L	1.0	J	J	Yes	S3VEM
1,1,1-Trichloroethane	0.085	ug/L	1.0	J	J	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.13	ug/L	1.0	J	J	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	150	ug/L	1.0	E		Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	19	ug/L	1.0			Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: B41L4	Lab Code: SHEALY

Sample Number:	B41L7DL	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	EW-1S-120911	pH:	2	Sample Date:	09/11/2012	Sample Time:	09:40:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	1.7	ug/L	10.0	J D	J	No	S3VEM
Chloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
Vinyl chloride	5.0	ug/L	10.0	U	U	No	S3VEM
Bromomethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Trichlorofluoromethane	5.0	ug/L	10.0	U	U	No	S3VEM
1,1-Dichloroethene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Acetone	50	ug/L	10.0	U	U	No	S3VEM
Carbon Disulfide	5.0	ug/L	10.0	U	U	No	S3VEM
Methyl acetate	5.0	ug/L	10.0	U	U	No	S3VEM
Methylene chloride	2.0	ug/L	10.0	J D	J	No	S3VEM
trans-1,2-Dichloroethene	5.0	ug/L	10.0	U	U	No	S3VEM
Methyl tert-butyl ether	10	ug/L	10.0	D		No	S3VEM
1,1-Dichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
cis-1,2-Dichloroethene	4.3	ug/L	10.0	J D	J	No	S3VEM
2-Butanone	50	ug/L	10.0	U	U	No	S3VEM
Bromochloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chloroform	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,1-Trichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Cyclohexane	5.0	ug/L	10.0	U	U	No	S3VEM
Carbon tetrachloride	5.0	ug/L	10.0	U	U	No	S3VEM
Benzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Trichloroethene	150	ug/L	10.0	D		No	S3VEM
Methylcyclohexane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichloropropane	5.0	ug/L	10.0	U	U	No	S3VEM
Bromodichloromethane	5.0	ug/L	10.0	U	U	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	5.0	ug/L	10.0	U	U	No	S3VEM
4-Methyl-2-pentanone	50	ug/L	10.0	U	U	No	S3VEM
Toluene	5.0	ug/L	10.0	U	U	No	S3VEM
trans-1,3-Dichloropropene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2-Trichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Tetrachloroethene	16	ug/L	10.0	D		No	S3VEM
2-Hexanone	50	ug/L	10.0	U	U	No	S3VEM
Dibromochloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dibromoethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
Ethylbenzene	5.0	ug/L	10.0	U	U	No	S3VEM
o-Xylene	5.0	ug/L	10.0	U	U	No	S3VEM
m,p-Xylene	5.0	ug/L	10.0	U	U	No	S3VEM
Styrene	5.0	ug/L	10.0	U	U	No	S3VEM
Bromoform	5.0	ug/L	10.0	U	UJ	No	S3VEM
Isopropylbenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2,2-Tetrachloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
1,3-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,4-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dibromo-3-chloropropane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2,4-Trichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2,3-Trichlorobenzene	5.0	ug/L	10.0	U	UJ	No	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: B41L4	Lab Code: SHEALY

Sample Number:	B41L8	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	TB-120911	pH:	2	Sample Date:	09/11/2012	Sample Time:	08:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloromethane	0.27	ug/L	1.0	J	J	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
cis-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: B41L4	Lab Code: SHEALY
Sample Number: VBLKCM	Method: VOA_Trace	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.22	ug/L	1.0	J	J	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
cis-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: B41L4	Lab Code: SHEALY
Sample Number: VBLKCO	Method: VOA_Trace	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
cis-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: B41L4	Lab Code: SHEALY
Sample Number: VBLKCX	Method: VOA_Trace	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
cis-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	UJ	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	UJ	Yes	S3VEM
Benzene, pentafluoro-	3.8	ug/L	1.0	NJ	NJ	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: B41L4	Lab Code: SHEALY
Sample Number: VHBLK01	Method: VOA_Trace	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
cis-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	UJ	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	UJ	Yes	S3VEM

Sample Summary Report

Case No:	42872	Contract:	EPW11035	SDG No:	BA313	Lab Code:	SHEALY
Sample Number:	BA313	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	CI-120926	pH:	2	Sample Date:	09/26/2012	Sample Time:	09:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	2.9	ug/L	1.0			Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluorom ethane	9.5	ug/L	1.0			Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.27	ug/L	1.0	J	J	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.86	ug/L	1.0			Yes	S3VEM
Methyl tert-butyl ether	3.5	ug/L	1.0			Yes	S3VEM
1,1-Dichloroethane	0.91	ug/L	1.0		J	Yes	S3VEM
cis-1,2-Dichloroethene	5.0	ug/L	1.0			Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromet hane	0.50	ug/L	1.0	U	UJ	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	JB	UJ	Yes	S3VEM
1,1,1-Trichloroethane	0.30	ug/L	1.0	J	J	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	UJ	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	UJ	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	120	ug/L	1.0	E		Yes	S3VEM
Methylcyclohexa ne	0.50	ug/L	1.0	U	UJ	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,2-Dichloropropane	0.50	ug/L	1.0	U	UJ	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	UJ	Yes	S3VEM
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	UJ	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	110	ug/L	1.0	E		Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	UJ	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	UJ	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	UJ	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	UJ	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	UJ	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	UJ	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	UJ	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	UJ	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	UJ	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	UJ	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	UJ	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	UJ	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	UJ	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY

Sample Number:	BA313DL	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	CI-120926	pH:	2	Sample Date:	09/26/2012	Sample Time:	09:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	9.7	ug/L	10.0	D		No	S3VEM
Chloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
Vinyl chloride	5.0	ug/L	10.0	U	U	No	S3VEM
Bromomethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Trichlorofluoromethane	5.0	ug/L	10.0	U	U	No	S3VEM
1,1-Dichloroethene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Acetone	50	ug/L	10.0	U	U	No	S3VEM
Carbon Disulfide	5.0	ug/L	10.0	U	U	No	S3VEM
Methyl acetate	5.0	ug/L	10.0	U	U	No	S3VEM
Methylene chloride	5.0	ug/L	10.0	J DB	U	No	S3VEM
trans-1,2-Dichloroethene	5.0	ug/L	10.0	U	U	No	S3VEM
Methyl tert-butyl ether	3.4	ug/L	10.0	J D	J	No	S3VEM
1,1-Dichloroethane	1.3	ug/L	10.0	J D	J	No	S3VEM
cis-1,2-Dichloroethene	6.7	ug/L	10.0	D		No	S3VEM
2-Butanone	50	ug/L	10.0	U	U	No	S3VEM
Bromochloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chloroform	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,1-Trichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Cyclohexane	5.0	ug/L	10.0	U	U	No	S3VEM
Carbon tetrachloride	5.0	ug/L	10.0	U	U	No	S3VEM
Benzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Trichloroethene	120	ug/L	10.0	D		No	S3VEM
Methylcyclohexane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichloropropane	5.0	ug/L	10.0	U	U	No	S3VEM
Bromodichloromethane	5.0	ug/L	10.0	U	U	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	5.0	ug/L	10.0	U	U	No	S3VEM
4-Methyl-2-pentanone	50	ug/L	10.0	U	U	No	S3VEM
Toluene	5.0	ug/L	10.0	U	U	No	S3VEM
trans-1,3-Dichloropropene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2-Trichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Tetrachloroethene	110	ug/L	10.0	D		No	S3VEM
2-Hexanone	50	ug/L	10.0	U	U	No	S3VEM
Dibromochloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dibromoethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
Ethylbenzene	5.0	ug/L	10.0	U	U	No	S3VEM
o-Xylene	5.0	ug/L	10.0	U	U	No	S3VEM
m,p-Xylene	5.0	ug/L	10.0	U	U	No	S3VEM
Styrene	5.0	ug/L	10.0	U	U	No	S3VEM
Bromoform	5.0	ug/L	10.0	U	U	No	S3VEM
Isopropylbenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2,2-Tetrachloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
1,3-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,4-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dibromo-3-chloropropane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2,4-Trichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2,3-Trichlorobenzene	5.0	ug/L	10.0	U	UJ	No	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY

Sample Number:	BA314	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	EFF-120926	pH:	2	Sample Date:	09/26/2012	Sample Time:	09:05:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	0.95	ug/L	1.0			Yes	S3VEM
1,1-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
cis-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	0.50	ug/L	1.0	J	U	Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY

Sample Number:	BA315	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	TB-120926	pH:	2	Sample Date:	09/26/2012	Sample Time:	08:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloromethane	0.19	ug/L	1.0	J	J	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
cis-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	0.084	ug/L	1.0	J	J	Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	UJ	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY
Sample Number: BA317	Method: VOA_Trace	Matrix: Water	MA Number: DEFAULT
Sample Location: FB092512	pH: 2	Sample Date: 09/25/2012	Sample Time: 17:10:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
cis-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	UJ	Yes	S3VEM

Case No:	42872	Contract:	EPW11035	SDG No:	BA313	Lab Code:	SHEALY
Sample Number:	BA318	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	GWX-10019/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	16:45:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	1.0	ug/L	1.0			Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	1.6	ug/L	1.0			Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.17	ug/L	1.0	J	J	Yes	S3VEM
Methyl tert-butyl ether	4.5	ug/L	1.0			Yes	S3VEM
1,1-Dichloroethane	0.12	ug/L	1.0	J	J	Yes	S3VEM
cis-1,2-Dichloroethene	36	ug/L	1.0	E	J	Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	20	ug/L	1.0	E		Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	2.7	ug/L	1.0			Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No:	42872	Contract:	EPW11035	SDG No:	BA313	Lab Code:	SHEALY
Sample Number:	BA318DL	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	GWX-10019/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	16:45:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	2.5	ug/L	5.0	U	U	No	S3VEM
Chloromethane	2.5	ug/L	5.0	U	U	No	S3VEM
Vinyl chloride	2.5	ug/L	5.0	U	U	No	S3VEM
Bromomethane	2.5	ug/L	5.0	U	U	No	S3VEM
Chloroethane	2.5	ug/L	5.0	U	U	No	S3VEM
Trichlorofluoromethane	2.5	ug/L	5.0	U	U	No	S3VEM
1,1-Dichloroethene	2.5	ug/L	5.0	U	UJ	No	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	2.5	ug/L	5.0	U	U	No	S3VEM
Acetone	25	ug/L	5.0	U	U	No	S3VEM
Carbon Disulfide	2.5	ug/L	5.0	U	U	No	S3VEM
Methyl acetate	2.5	ug/L	5.0	U	U	No	S3VEM
Methylene chloride	2.5	ug/L	5.0	U	U	No	S3VEM
trans-1,2-Dichloroethene	2.5	ug/L	5.0	U	UJ	No	S3VEM
Methyl tert-butyl ether	4.2	ug/L	5.0	D		No	S3VEM
1,1-Dichloroethane	2.5	ug/L	5.0	U	U	No	S3VEM
cis-1,2-Dichloroethene	36	ug/L	5.0	D	J	No	S3VEM
2-Butanone	25	ug/L	5.0	U	U	No	S3VEM
Bromochloromethane	2.5	ug/L	5.0	U	U	No	S3VEM
Chloroform	2.5	ug/L	5.0	U	U	No	S3VEM
1,1,1-Trichloroethane	2.5	ug/L	5.0	U	U	No	S3VEM
Cyclohexane	2.5	ug/L	5.0	U	U	No	S3VEM
Carbon tetrachloride	2.5	ug/L	5.0	U	U	No	S3VEM
Benzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,2-Dichloroethane	2.5	ug/L	5.0	U	U	No	S3VEM
Trichloroethene	20	ug/L	5.0	D		No	S3VEM
Methylcyclohexane	2.5	ug/L	5.0	U	U	No	S3VEM
1,2-Dichloropropane	2.5	ug/L	5.0	U	U	No	S3VEM
Bromodichloromethane	2.5	ug/L	5.0	U	U	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	2.5	ug/L	5.0	U	UJ	No	S3VEM
4-Methyl-2-pentanone	25	ug/L	5.0	U	U	No	S3VEM
Toluene	2.5	ug/L	5.0	U	U	No	S3VEM
trans-1,3-Dichloropropene	2.5	ug/L	5.0	U	UJ	No	S3VEM
1,1,2-Trichloroethane	2.5	ug/L	5.0	U	UJ	No	S3VEM
Tetrachloroethene	1.6	ug/L	5.0	J D	J	No	S3VEM
2-Hexanone	25	ug/L	5.0	U	U	No	S3VEM
Dibromochloromethane	2.5	ug/L	5.0	U	U	No	S3VEM
1,2-Dibromoethane	2.5	ug/L	5.0	U	U	No	S3VEM
Chlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM
Ethylbenzene	2.5	ug/L	5.0	U	U	No	S3VEM
o-Xylene	2.5	ug/L	5.0	U	U	No	S3VEM
m,p-Xylene	2.5	ug/L	5.0	U	U	No	S3VEM
Styrene	2.5	ug/L	5.0	U	U	No	S3VEM
Bromoform	2.5	ug/L	5.0	U	U	No	S3VEM
Isopropylbenzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,1,2,2-Tetrachloroethane	2.5	ug/L	5.0	U	U	No	S3VEM
1,3-Dichlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,4-Dichlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,2-Dichlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,2-Dibromo-3-chloropropane	2.5	ug/L	5.0	U	U	No	S3VEM
1,2,4-Trichlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,2,3-Trichlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY

Sample Number:	BA319	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SVP-10-1/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	13:28:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	6.1	ug/L	1.0			Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.14	ug/L	1.0	J	J	Yes	S3VEM
Methyl tert-butyl ether	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
cis-1,2-Dichloroethene	7.0	ug/L	1.0			Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	14	ug/L	1.0	E		Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	0.35	ug/L	1.0	J	J	Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY

Sample Number:	BA319DL	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SVP-10-1/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	13:28:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	2.0	ug/L	4.0	U	U	No	S3VEM
Chloromethane	2.0	ug/L	4.0	U	U	No	S3VEM
Vinyl chloride	2.0	ug/L	4.0	U	U	No	S3VEM
Bromomethane	2.0	ug/L	4.0	U	U	No	S3VEM
Chloroethane	2.0	ug/L	4.0	U	U	No	S3VEM
Trichlorofluoromethane	1.6	ug/L	4.0	J D	J	No	S3VEM
1,1-Dichloroethene	2.0	ug/L	4.0	U	U	No	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	ug/L	4.0	U	U	No	S3VEM
Acetone	20	ug/L	4.0	U	U	No	S3VEM
Carbon Disulfide	2.0	ug/L	4.0	U	U	No	S3VEM
Methyl acetate	2.0	ug/L	4.0	U	U	No	S3VEM
Methylene chloride	2.0	ug/L	4.0	U	U	No	S3VEM
trans-1,2-Dichloroethene	2.0	ug/L	4.0	U	U	No	S3VEM
Methyl tert-butyl ether	2.0	ug/L	4.0	U	U	No	S3VEM
1,1-Dichloroethane	2.0	ug/L	4.0	U	U	No	S3VEM
cis-1,2-Dichloroethene	5.3	ug/L	4.0	D		No	S3VEM
2-Butanone	20	ug/L	4.0	U	U	No	S3VEM
Bromochloromethane	2.0	ug/L	4.0	U	U	No	S3VEM
Chloroform	2.0	ug/L	4.0	U	U	No	S3VEM
1,1,1-Trichloroethane	2.0	ug/L	4.0	U	U	No	S3VEM
Cyclohexane	2.0	ug/L	4.0	U	U	No	S3VEM
Carbon tetrachloride	2.0	ug/L	4.0	U	U	No	S3VEM
Benzene	2.0	ug/L	4.0	U	U	No	S3VEM
1,2-Dichloroethane	2.0	ug/L	4.0	U	U	No	S3VEM
Trichloroethene	14	ug/L	4.0	D		No	S3VEM
Methylcyclohexane	2.0	ug/L	4.0	U	U	No	S3VEM
1,2-Dichloropropane	2.0	ug/L	4.0	U	U	No	S3VEM
Bromodichloromethane	2.0	ug/L	4.0	U	U	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	2.0	ug/L	4.0	U	UJ	No	S3VEM
4-Methyl-2-pentanone	20	ug/L	4.0	U	U	No	S3VEM
Toluene	2.0	ug/L	4.0	U	U	No	S3VEM
trans-1,3-Dichloropropene	2.0	ug/L	4.0	U	UJ	No	S3VEM
1,1,2-Trichloroethane	2.0	ug/L	4.0	U	UJ	No	S3VEM
Tetrachloroethene	2.0	ug/L	4.0	U	U	No	S3VEM
2-Hexanone	20	ug/L	4.0	U	U	No	S3VEM
Dibromochloromethane	2.0	ug/L	4.0	U	U	No	S3VEM
1,2-Dibromoethane	2.0	ug/L	4.0	U	U	No	S3VEM
Chlorobenzene	2.0	ug/L	4.0	U	U	No	S3VEM
Ethylbenzene	2.0	ug/L	4.0	U	U	No	S3VEM
o-Xylene	2.0	ug/L	4.0	U	U	No	S3VEM
m,p-Xylene	2.0	ug/L	4.0	U	U	No	S3VEM
Styrene	2.0	ug/L	4.0	U	U	No	S3VEM
Bromoform	2.0	ug/L	4.0	U	U	No	S3VEM
Isopropylbenzene	2.0	ug/L	4.0	U	U	No	S3VEM
1,1,2,2-Tetrachloroethane	2.0	ug/L	4.0	U	U	No	S3VEM
1,3-Dichlorobenzene	2.0	ug/L	4.0	U	U	No	S3VEM
1,4-Dichlorobenzene	2.0	ug/L	4.0	U	U	No	S3VEM
1,2-Dichlorobenzene	2.0	ug/L	4.0	U	U	No	S3VEM
1,2-Dibromo-3-chloropropane	2.0	ug/L	4.0	U	U	No	S3VEM
1,2,4-Trichlorobenzene	2.0	ug/L	4.0	U	U	No	S3VEM
1,2,3-Trichlorobenzene	2.0	ug/L	4.0	U	U	No	S3VEM

Case No:	42872	Contract:	EPW11035	SDG No:	BA313	Lab Code:	SHEALY
Sample Number:	BA320	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SVP-10-2/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	14:15:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	10	ug/L	20.0	U	U	Yes	S3VEM
Chloromethane	10	ug/L	20.0	U	U	Yes	S3VEM
Vinyl chloride	10	ug/L	20.0	U	U	Yes	S3VEM
Bromomethane	10	ug/L	20.0	U	UJ	Yes	S3VEM
Chloroethane	10	ug/L	20.0	U	U	Yes	S3VEM
Trichlorofluoromethane	10	ug/L	20.0	U	U	Yes	S3VEM
1,1-Dichloroethene	10	ug/L	20.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	10	ug/L	20.0	U	U	Yes	S3VEM
Acetone	100	ug/L	20.0	U	U	Yes	S3VEM
Carbon Disulfide	10	ug/L	20.0	U	U	Yes	S3VEM
Methyl acetate	10	ug/L	20.0	U	U	Yes	S3VEM
Methylene chloride	26	ug/L	20.0			Yes	S3VEM
trans-1,2-Dichloroethene	10	ug/L	20.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	10	ug/L	20.0	U	U	Yes	S3VEM
1,1-Dichloroethane	10	ug/L	20.0	U	U	Yes	S3VEM
cis-1,2-Dichloroethene	63	ug/L	20.0			Yes	S3VEM
2-Butanone	100	ug/L	20.0	U	U	Yes	S3VEM
Bromochloromethane	10	ug/L	20.0	U	U	Yes	S3VEM
Chloroform	10	ug/L	20.0	U	U	Yes	S3VEM
1,1,1-Trichloroethane	10	ug/L	20.0	U	U	Yes	S3VEM
Cyclohexane	10	ug/L	20.0	U	U	Yes	S3VEM
Carbon tetrachloride	10	ug/L	20.0	U	U	Yes	S3VEM
Benzene	10	ug/L	20.0	U	U	Yes	S3VEM
1,2-Dichloroethane	10	ug/L	20.0	U	U	Yes	S3VEM
Trichloroethene	700	ug/L	20.0	E		Yes	S3VEM
Methylcyclohexane	10	ug/L	20.0	U	U	Yes	S3VEM
1,2-Dichloropropane	10	ug/L	20.0	U	U	Yes	S3VEM
Bromodichloromethane	10	ug/L	20.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	10	ug/L	20.0	U	UJ	Yes	S3VEM
4-Methyl-2-pentanone	100	ug/L	20.0	U	U	Yes	S3VEM
Toluene	10	ug/L	20.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	10	ug/L	20.0	U	UJ	Yes	S3VEM
1,1,2-Trichloroethane	10	ug/L	20.0	U	UJ	Yes	S3VEM
Tetrachloroethene	21	ug/L	20.0			Yes	S3VEM
2-Hexanone	100	ug/L	20.0	U	U	Yes	S3VEM
Dibromochloromethane	10	ug/L	20.0	U	U	Yes	S3VEM
1,2-Dibromoethane	10	ug/L	20.0	U	U	Yes	S3VEM
Chlorobenzene	10	ug/L	20.0	U	U	Yes	S3VEM
Ethylbenzene	10	ug/L	20.0	U	U	Yes	S3VEM
o-Xylene	10	ug/L	20.0	U	U	Yes	S3VEM
m,p-Xylene	10	ug/L	20.0	U	U	Yes	S3VEM
Styrene	10	ug/L	20.0	U	U	Yes	S3VEM
Bromoform	10	ug/L	20.0	U	U	Yes	S3VEM
Isopropylbenzene	10	ug/L	20.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	10	ug/L	20.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	10	ug/L	20.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	10	ug/L	20.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	10	ug/L	20.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	10	ug/L	20.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	10	ug/L	20.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	10	ug/L	20.0	U	U	Yes	S3VEM

Case No:	42872	Contract:	EPW11035	SDG No:	BA313	Lab Code:	SHEALY
Sample Number:	BA320DL	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SVP-10-2/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	14:15:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	100	ug/L	200.0	U	U	No	S3VEM
Chloromethane	100	ug/L	200.0	U	U	No	S3VEM
Vinyl chloride	100	ug/L	200.0	U	U	No	S3VEM
Bromomethane	100	ug/L	200.0	U	U	No	S3VEM
Chloroethane	100	ug/L	200.0	U	U	No	S3VEM
Trichlorofluoromethane	100	ug/L	200.0	U	U	No	S3VEM
1,1-Dichloroethene	100	ug/L	200.0	U	UJ	No	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	100	ug/L	200.0	U	U	No	S3VEM
Acetone	1000	ug/L	200.0	U	U	No	S3VEM
Carbon Disulfide	100	ug/L	200.0	U	U	No	S3VEM
Methyl acetate	100	ug/L	200.0	U	U	No	S3VEM
Methylene chloride	100	ug/L	200.0	J DB	U	No	S3VEM
trans-1,2-Dichloroethene	100	ug/L	200.0	U	UJ	No	S3VEM
Methyl tert-butyl ether	100	ug/L	200.0	U	U	No	S3VEM
1,1-Dichloroethane	100	ug/L	200.0	U	U	No	S3VEM
cis-1,2-Dichloroethene	68	ug/L	200.0	J D	J	No	S3VEM
2-Butanone	1000	ug/L	200.0	U	U	No	S3VEM
Bromochloromethane	100	ug/L	200.0	U	U	No	S3VEM
Chloroform	100	ug/L	200.0	U	U	No	S3VEM
1,1,1-Trichloroethane	100	ug/L	200.0	U	U	No	S3VEM
Cyclohexane	100	ug/L	200.0	U	U	No	S3VEM
Carbon tetrachloride	100	ug/L	200.0	U	U	No	S3VEM
Benzene	100	ug/L	200.0	U	U	No	S3VEM
1,2-Dichloroethane	100	ug/L	200.0	U	U	No	S3VEM
Trichloroethene	700	ug/L	200.0	D		No	S3VEM
Methylcyclohexane	100	ug/L	200.0	U	U	No	S3VEM
1,2-Dichloropropane	100	ug/L	200.0	U	U	No	S3VEM
Bromodichloromethane	100	ug/L	200.0	U	U	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	100	ug/L	200.0	U	U	No	S3VEM
4-Methyl-2-pentanone	1000	ug/L	200.0	U	U	No	S3VEM
Toluene	100	ug/L	200.0	U	U	No	S3VEM
trans-1,3-Dichloropropene	100	ug/L	200.0	U	U	No	S3VEM
1,1,2-Trichloroethane	100	ug/L	200.0	U	U	No	S3VEM
Tetrachloroethene	27	ug/L	200.0	J D	J	No	S3VEM
2-Hexanone	1000	ug/L	200.0	U	U	No	S3VEM
Dibromochloromethane	100	ug/L	200.0	U	U	No	S3VEM
1,2-Dibromoethane	100	ug/L	200.0	U	U	No	S3VEM
Chlorobenzene	100	ug/L	200.0	U	U	No	S3VEM
Ethylbenzene	100	ug/L	200.0	U	U	No	S3VEM
o-Xylene	100	ug/L	200.0	U	U	No	S3VEM
m,p-Xylene	100	ug/L	200.0	U	U	No	S3VEM
Styrene	100	ug/L	200.0	U	U	No	S3VEM
Bromoform	100	ug/L	200.0	U	U	No	S3VEM
Isopropylbenzene	100	ug/L	200.0	U	U	No	S3VEM
1,1,2,2-Tetrachloroethane	100	ug/L	200.0	U	U	No	S3VEM
1,3-Dichlorobenzene	100	ug/L	200.0	U	U	No	S3VEM
1,4-Dichlorobenzene	100	ug/L	200.0	U	U	No	S3VEM
1,2-Dichlorobenzene	100	ug/L	200.0	U	U	No	S3VEM
1,2-Dibromo-3-chloropropane	100	ug/L	200.0	U	U	No	S3VEM
1,2,4-Trichlorobenzene	100	ug/L	200.0	U	U	No	S3VEM
1,2,3-Trichlorobenzene	100	ug/L	200.0	U	UJ	No	S3VEM

Case No:	42872	Contract:	EPW11035	SDG No:	BA313	Lab Code:	SHEALY
Sample Number:	BA321	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SVP-10-3/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	14:28:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	34	ug/L	1.0	E	J	Yes	S3VEM
Chloromethane	9.0	ug/L	1.0			Yes	S3VEM
Vinyl chloride	0.31	ug/L	1.0	J	J	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.19	ug/L	1.0	J	J	Yes	S3VEM
1,1-Dichloroethene	7.7	ug/L	1.0		J	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0		J	Yes	S3VEM
Methyl tert-butyl ether	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethane	2.2	ug/L	1.0			Yes	S3VEM
cis-1,2-Dichloroethene	8.3	ug/L	1.0		J	Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	JB	U	Yes	S3VEM
1,1,1-Trichloroethane	1.1	ug/L	1.0			Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.22	ug/L	1.0	J	J	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	54	ug/L	1.0	E		Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	420	ug/L	1.0	E		Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY

Sample Number:	BA321DL	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SVP-10-3/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	14:28:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	12	ug/L	40.0	J D	J	No	S3VEM
Chloromethane	20	ug/L	40.0	U	U	No	S3VEM
Vinyl chloride	20	ug/L	40.0	U	U	No	S3VEM
Bromomethane	20	ug/L	40.0	U	UJ	No	S3VEM
Chloroethane	20	ug/L	40.0	U	U	No	S3VEM
Trichlorofluoromethane	20	ug/L	40.0	U	U	No	S3VEM
1,1-Dichloroethene	20	ug/L	40.0	U	U	No	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	20	ug/L	40.0	U	U	No	S3VEM
Acetone	200	ug/L	40.0	U	U	No	S3VEM
Carbon Disulfide	20	ug/L	40.0	U	U	No	S3VEM
Methyl acetate	20	ug/L	40.0	U	U	No	S3VEM
Methylene chloride	20	ug/L	40.0	U	U	No	S3VEM
trans-1,2-Dichloroethene	20	ug/L	40.0	U	U	No	S3VEM
Methyl tert-butyl ether	20	ug/L	40.0	U	U	No	S3VEM
1,1-Dichloroethane	20	ug/L	40.0	U	U	No	S3VEM
cis-1,2-Dichloroethene	6.9	ug/L	40.0	J D	J	No	S3VEM
2-Butanone	200	ug/L	40.0	U	U	No	S3VEM
Bromochloromethane	20	ug/L	40.0	U	U	No	S3VEM
Chloroform	20	ug/L	40.0	J DB	U	No	S3VEM
1,1,1-Trichloroethane	20	ug/L	40.0	U	U	No	S3VEM
Cyclohexane	20	ug/L	40.0	U	U	No	S3VEM
Carbon tetrachloride	20	ug/L	40.0	U	U	No	S3VEM
Benzene	6.3	ug/L	40.0	J D	J	No	S3VEM
1,2-Dichloroethane	20	ug/L	40.0	U	U	No	S3VEM
Trichloroethene	54	ug/L	40.0	D		No	S3VEM
Methylcyclohexane	20	ug/L	40.0	U	U	No	S3VEM
1,2-Dichloropropane	20	ug/L	40.0	U	U	No	S3VEM
Bromodichloromethane	20	ug/L	40.0	U	U	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	20	ug/L	40.0	U	U	No	S3VEM
4-Methyl-2-pentanone	200	ug/L	40.0	U	U	No	S3VEM
Toluene	12	ug/L	40.0	J D	J	No	S3VEM
trans-1,3-Dichloropropene	20	ug/L	40.0	U	U	No	S3VEM
1,1,2-Trichloroethane	20	ug/L	40.0	U	U	No	S3VEM
Tetrachloroethene	420	ug/L	40.0	D		No	S3VEM
2-Hexanone	200	ug/L	40.0	U	U	No	S3VEM
Dibromochloromethane	20	ug/L	40.0	U	U	No	S3VEM
1,2-Dibromoethane	20	ug/L	40.0	U	U	No	S3VEM
Chlorobenzene	20	ug/L	40.0	U	U	No	S3VEM
Ethylbenzene	20	ug/L	40.0	U	U	No	S3VEM
o-Xylene	20	ug/L	40.0	U	U	No	S3VEM
m,p-Xylene	20	ug/L	40.0	U	U	No	S3VEM
Styrene	20	ug/L	40.0	U	U	No	S3VEM
Bromoform	20	ug/L	40.0	U	U	No	S3VEM
Isopropylbenzene	20	ug/L	40.0	U	U	No	S3VEM
1,1,2,2-Tetrachloroethane	20	ug/L	40.0	U	U	No	S3VEM
1,3-Dichlorobenzene	20	ug/L	40.0	U	U	No	S3VEM
1,4-Dichlorobenzene	20	ug/L	40.0	U	U	No	S3VEM
1,2-Dichlorobenzene	20	ug/L	40.0	U	U	No	S3VEM
1,2-Dibromo-3-chloropropane	20	ug/L	40.0	U	U	No	S3VEM
1,2,4-Trichlorobenzene	20	ug/L	40.0	U	U	No	S3VEM
1,2,3-Trichlorobenzene	20	ug/L	40.0	U	U	No	S3VEM

Case No:	42872	Contract:	EPW11035	SDG No:	BA313	Lab Code:	SHEALY
Sample Number:	BA322	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SVP-10-4/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	14:40:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	2.1	ug/L	1.0			Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.64	ug/L	1.0			Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.13	ug/L	1.0	J	J	Yes	S3VEM
Methyl tert-butyl ether	12	ug/L	1.0			Yes	S3VEM
1,1-Dichloroethane	0.28	ug/L	1.0	J	J	Yes	S3VEM
cis-1,2-Dichloroethene	7.7	ug/L	1.0			Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	JB	U	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.19	ug/L	1.0	J	J	Yes	S3VEM
1,2-Dichloroethane	0.79	ug/L	1.0			Yes	S3VEM
Trichloroethene	310	ug/L	1.0	E		Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	120	ug/L	1.0	E		Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY

Sample Number:	BA322DL	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SVP-10-4/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	14:40:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	2.7	ug/L	20.0	J D	J	No	S3VEM
Chloromethane	10	ug/L	20.0	U	U	No	S3VEM
Vinyl chloride	10	ug/L	20.0	U	U	No	S3VEM
Bromomethane	10	ug/L	20.0	U	U	No	S3VEM
Chloroethane	10	ug/L	20.0	U	U	No	S3VEM
Trichlorofluoromethane	10	ug/L	20.0	U	U	No	S3VEM
1,1-Dichloroethene	10	ug/L	20.0	U	U	No	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	10	ug/L	20.0	U	U	No	S3VEM
Acetone	100	ug/L	20.0	U	U	No	S3VEM
Carbon Disulfide	10	ug/L	20.0	U	U	No	S3VEM
Methyl acetate	10	ug/L	20.0	U	U	No	S3VEM
Methylene chloride	10	ug/L	20.0	U	U	No	S3VEM
trans-1,2-Dichloroethene	10	ug/L	20.0	U	U	No	S3VEM
Methyl tert-butyl ether	12	ug/L	20.0	D		No	S3VEM
1,1-Dichloroethane	10	ug/L	20.0	U	U	No	S3VEM
cis-1,2-Dichloroethene	7.9	ug/L	20.0	J D	J	No	S3VEM
2-Butanone	100	ug/L	20.0	U	U	No	S3VEM
Bromochloromethane	10	ug/L	20.0	U	U	No	S3VEM
Chloroform	10	ug/L	20.0	J DB	U	No	S3VEM
1,1,1-Trichloroethane	10	ug/L	20.0	U	U	No	S3VEM
Cyclohexane	10	ug/L	20.0	U	U	No	S3VEM
Carbon tetrachloride	10	ug/L	20.0	U	U	No	S3VEM
Benzene	10	ug/L	20.0	U	U	No	S3VEM
1,2-Dichloroethane	10	ug/L	20.0	U	U	No	S3VEM
Trichloroethene	310	ug/L	20.0	D		No	S3VEM
Methylcyclohexane	10	ug/L	20.0	U	U	No	S3VEM
1,2-Dichloropropane	10	ug/L	20.0	U	U	No	S3VEM
Bromodichloromethane	10	ug/L	20.0	U	U	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	10	ug/L	20.0	U	U	No	S3VEM
4-Methyl-2-pentanone	100	ug/L	20.0	U	U	No	S3VEM
Toluene	10	ug/L	20.0	U	U	No	S3VEM
trans-1,3-Dichloropropene	10	ug/L	20.0	U	U	No	S3VEM
1,1,2-Trichloroethane	10	ug/L	20.0	U	U	No	S3VEM
Tetrachloroethene	120	ug/L	20.0	D		No	S3VEM
2-Hexanone	100	ug/L	20.0	U	U	No	S3VEM
Dibromochloromethane	10	ug/L	20.0	U	U	No	S3VEM
1,2-Dibromoethane	10	ug/L	20.0	U	U	No	S3VEM
Chlorobenzene	10	ug/L	20.0	U	U	No	S3VEM
Ethylbenzene	10	ug/L	20.0	U	U	No	S3VEM
o-Xylene	10	ug/L	20.0	U	U	No	S3VEM
m,p-Xylene	10	ug/L	20.0	U	U	No	S3VEM
Styrene	10	ug/L	20.0	U	U	No	S3VEM
Bromoform	10	ug/L	20.0	U	U	No	S3VEM
Isopropylbenzene	10	ug/L	20.0	U	U	No	S3VEM
1,1,2,2-Tetrachloroethane	10	ug/L	20.0	U	U	No	S3VEM
1,3-Dichlorobenzene	10	ug/L	20.0	U	U	No	S3VEM
1,4-Dichlorobenzene	10	ug/L	20.0	U	U	No	S3VEM
1,2-Dichlorobenzene	10	ug/L	20.0	U	U	No	S3VEM
1,2-Dibromo-3-chloropropane	10	ug/L	20.0	U	U	No	S3VEM
1,2,4-Trichlorobenzene	10	ug/L	20.0	U	U	No	S3VEM
1,2,3-Trichlorobenzene	10	ug/L	20.0	U	U	No	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY

Sample Number:	BA3H3	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SVP-104-5/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	11:25:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	4.4	ug/L	1.0			Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	2.5	ug/L	1.0	J	J	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	1.9	ug/L	1.0			Yes	S3VEM
1,1-Dichloroethane	0.14	ug/L	1.0	J	J	Yes	S3VEM
cis-1,2-Dichloroethene	2.0	ug/L	1.0			Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	JB	U	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	25	ug/L	1.0	E		Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	61	ug/L	1.0	E		Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No:	42872	Contract:	EPW11035	SDG No:	BA313	Lab Code:	SHEALY
Sample Number:	BA3H3DL	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SVP-104-5/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	11:25:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	3.4	ug/L	5.0	D		No	S3VEM
Chloromethane	2.5	ug/L	5.0	U	U	No	S3VEM
Vinyl chloride	2.5	ug/L	5.0	U	U	No	S3VEM
Bromomethane	2.5	ug/L	5.0	U	U	No	S3VEM
Chloroethane	2.5	ug/L	5.0	U	U	No	S3VEM
Trichlorofluoromethane	2.5	ug/L	5.0	U	U	No	S3VEM
1,1-Dichloroethene	2.5	ug/L	5.0	U	U	No	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	2.5	ug/L	5.0	U	U	No	S3VEM
Acetone	25	ug/L	5.0	U	U	No	S3VEM
Carbon Disulfide	2.5	ug/L	5.0	U	U	No	S3VEM
Methyl acetate	2.5	ug/L	5.0	U	U	No	S3VEM
Methylene chloride	2.5	ug/L	5.0	U	U	No	S3VEM
trans-1,2-Dichloroethene	2.5	ug/L	5.0	U	U	No	S3VEM
Methyl tert-butyl ether	2.5	ug/L	5.0	U	U	No	S3VEM
1,1-Dichloroethane	2.5	ug/L	5.0	U	U	No	S3VEM
cis-1,2-Dichloroethene	2.1	ug/L	5.0	J D	J	No	S3VEM
2-Butanone	25	ug/L	5.0	U	U	No	S3VEM
Bromochloromethane	2.5	ug/L	5.0	U	U	No	S3VEM
Chloroform	2.5	ug/L	5.0	U	U	No	S3VEM
1,1,1-Trichloroethane	2.5	ug/L	5.0	U	U	No	S3VEM
Cyclohexane	2.5	ug/L	5.0	U	U	No	S3VEM
Carbon tetrachloride	2.5	ug/L	5.0	U	U	No	S3VEM
Benzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,2-Dichloroethane	2.5	ug/L	5.0	U	U	No	S3VEM
Trichloroethene	25	ug/L	5.0	D		No	S3VEM
Methylcyclohexane	2.5	ug/L	5.0	U	U	No	S3VEM
1,2-Dichloropropane	2.5	ug/L	5.0	U	U	No	S3VEM
Bromodichloromethane	2.5	ug/L	5.0	U	U	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	2.5	ug/L	5.0	U	U	No	S3VEM
4-Methyl-2-pentanone	25	ug/L	5.0	U	U	No	S3VEM
Toluene	2.5	ug/L	5.0	U	U	No	S3VEM
trans-1,3-Dichloropropene	2.5	ug/L	5.0	U	U	No	S3VEM
1,1,2-Trichloroethane	2.5	ug/L	5.0	U	U	No	S3VEM
Tetrachloroethene	61	ug/L	5.0	D		No	S3VEM
2-Hexanone	25	ug/L	5.0	U	U	No	S3VEM
Dibromochloromethane	2.5	ug/L	5.0	U	U	No	S3VEM
1,2-Dibromoethane	2.5	ug/L	5.0	U	U	No	S3VEM
Chlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM
Ethylbenzene	2.5	ug/L	5.0	U	U	No	S3VEM
o-Xylene	2.5	ug/L	5.0	U	U	No	S3VEM
m,p-Xylene	2.5	ug/L	5.0	U	U	No	S3VEM
Styrene	2.5	ug/L	5.0	U	U	No	S3VEM
Bromoform	2.5	ug/L	5.0	U	U	No	S3VEM
Isopropylbenzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,1,2,2-Tetrachloroethane	2.5	ug/L	5.0	U	U	No	S3VEM
1,3-Dichlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,4-Dichlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,2-Dichlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,2-Dibromo-3-chloropropane	2.5	ug/L	5.0	U	U	No	S3VEM
1,2,4-Trichlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,2,3-Trichlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM

Case No:	42872	Contract:	EPW11035	SDG No:	BA313	Lab Code:	SHEALY
Sample Number:	BA3H4	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SVP-10-5/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	14:50:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	10	ug/L	20.0	U	U	Yes	S3VEM
Chloromethane	10	ug/L	20.0	U	U	Yes	S3VEM
Vinyl chloride	10	ug/L	20.0	U	U	Yes	S3VEM
Bromomethane	10	ug/L	20.0	U	U	Yes	S3VEM
Chloroethane	10	ug/L	20.0	U	U	Yes	S3VEM
Trichlorofluoromethane	10	ug/L	20.0	U	U	Yes	S3VEM
1,1-Dichloroethene	10	ug/L	20.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	10	ug/L	20.0	U	U	Yes	S3VEM
Acetone	100	ug/L	20.0	U	U	Yes	S3VEM
Carbon Disulfide	10	ug/L	20.0	U	U	Yes	S3VEM
Methyl acetate	10	ug/L	20.0	U	U	Yes	S3VEM
Methylene chloride	10	ug/L	20.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	10	ug/L	20.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	13	ug/L	20.0			Yes	S3VEM
1,1-Dichloroethane	10	ug/L	20.0	U	U	Yes	S3VEM
cis-1,2-Dichloroethene	8.7	ug/L	20.0	J	J	Yes	S3VEM
2-Butanone	100	ug/L	20.0	U	U	Yes	S3VEM
Bromochloromethane	10	ug/L	20.0	U	U	Yes	S3VEM
Chloroform	10	ug/L	20.0	J B	U	Yes	S3VEM
1,1,1-Trichloroethane	10	ug/L	20.0	U	U	Yes	S3VEM
Cyclohexane	10	ug/L	20.0	U	U	Yes	S3VEM
Carbon tetrachloride	10	ug/L	20.0	U	U	Yes	S3VEM
Benzene	10	ug/L	20.0	U	U	Yes	S3VEM
1,2-Dichloroethane	10	ug/L	20.0	U	U	Yes	S3VEM
Trichloroethene	350	ug/L	20.0			Yes	S3VEM
Methylcyclohexane	10	ug/L	20.0	U	U	Yes	S3VEM
1,2-Dichloropropane	10	ug/L	20.0	U	U	Yes	S3VEM
Bromodichloromethane	10	ug/L	20.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	10	ug/L	20.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	100	ug/L	20.0	U	U	Yes	S3VEM
Toluene	10	ug/L	20.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	10	ug/L	20.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	10	ug/L	20.0	U	U	Yes	S3VEM
Tetrachloroethene	34	ug/L	20.0			Yes	S3VEM
2-Hexanone	100	ug/L	20.0	U	U	Yes	S3VEM
Dibromochloromethane	10	ug/L	20.0	U	U	Yes	S3VEM
1,2-Dibromoethane	10	ug/L	20.0	U	U	Yes	S3VEM
Chlorobenzene	10	ug/L	20.0	U	U	Yes	S3VEM
Ethylbenzene	10	ug/L	20.0	U	U	Yes	S3VEM
o-Xylene	10	ug/L	20.0	U	U	Yes	S3VEM
m,p-Xylene	10	ug/L	20.0	U	U	Yes	S3VEM
Styrene	10	ug/L	20.0	U	U	Yes	S3VEM
Bromoform	10	ug/L	20.0	U	U	Yes	S3VEM
Isopropylbenzene	10	ug/L	20.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	10	ug/L	20.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	10	ug/L	20.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	10	ug/L	20.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	10	ug/L	20.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	10	ug/L	20.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	10	ug/L	20.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	10	ug/L	20.0	U	U	Yes	S3VEM

Case No:	42872	Contract:	EPW11035	SDG No:	BA313	Lab Code:	SHEALY
Sample Number:	BA3H4DL	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SVP-10-5/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	14:50:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	100	ug/L	200.0	U	U	No	S3VEM
Chloromethane	100	ug/L	200.0	U	U	No	S3VEM
Vinyl chloride	100	ug/L	200.0	U	U	No	S3VEM
Bromomethane	100	ug/L	200.0	U	U	No	S3VEM
Chloroethane	100	ug/L	200.0	U	U	No	S3VEM
Trichlorofluoromethane	100	ug/L	200.0	U	U	No	S3VEM
1,1-Dichloroethene	100	ug/L	200.0	U	U	No	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	100	ug/L	200.0	U	U	No	S3VEM
Acetone	1000	ug/L	200.0	U	U	No	S3VEM
Carbon Disulfide	100	ug/L	200.0	U	U	No	S3VEM
Methyl acetate	100	ug/L	200.0	U	U	No	S3VEM
Methylene chloride	100	ug/L	200.0	U	U	No	S3VEM
trans-1,2-Dichloroethene	100	ug/L	200.0	U	U	No	S3VEM
Methyl tert-butyl ether	100	ug/L	200.0	U	U	No	S3VEM
1,1-Dichloroethane	100	ug/L	200.0	U	U	No	S3VEM
cis-1,2-Dichloroethene	100	ug/L	200.0	U	U	No	S3VEM
2-Butanone	1000	ug/L	200.0	U	U	No	S3VEM
Bromochloromethane	100	ug/L	200.0	U	U	No	S3VEM
Chloroform	100	ug/L	200.0	J DB	U	No	S3VEM
1,1,1-Trichloroethane	100	ug/L	200.0	U	U	No	S3VEM
Cyclohexane	100	ug/L	200.0	U	U	No	S3VEM
Carbon tetrachloride	100	ug/L	200.0	U	U	No	S3VEM
Benzene	100	ug/L	200.0	U	U	No	S3VEM
1,2-Dichloroethane	100	ug/L	200.0	U	U	No	S3VEM
Trichloroethene	370	ug/L	200.0	D		No	S3VEM
Methylcyclohexane	100	ug/L	200.0	U	U	No	S3VEM
1,2-Dichloropropane	100	ug/L	200.0	U	U	No	S3VEM
Bromodichloromethane	100	ug/L	200.0	U	U	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	100	ug/L	200.0	U	U	No	S3VEM
4-Methyl-2-pentanone	1000	ug/L	200.0	U	U	No	S3VEM
Toluene	100	ug/L	200.0	U	U	No	S3VEM
trans-1,3-Dichloropropene	100	ug/L	200.0	U	U	No	S3VEM
1,1,2-Trichloroethane	100	ug/L	200.0	U	U	No	S3VEM
Tetrachloroethene	100	ug/L	200.0	U	U	No	S3VEM
2-Hexanone	1000	ug/L	200.0	U	U	No	S3VEM
Dibromochloromethane	100	ug/L	200.0	U	U	No	S3VEM
1,2-Dibromoethane	100	ug/L	200.0	U	U	No	S3VEM
Chlorobenzene	100	ug/L	200.0	U	U	No	S3VEM
Ethylbenzene	100	ug/L	200.0	U	U	No	S3VEM
o-Xylene	100	ug/L	200.0	U	U	No	S3VEM
m,p-Xylene	100	ug/L	200.0	U	U	No	S3VEM
Styrene	100	ug/L	200.0	U	U	No	S3VEM
Bromoform	100	ug/L	200.0	U	U	No	S3VEM
Isopropylbenzene	100	ug/L	200.0	U	U	No	S3VEM
1,1,2,2-Tetrachloroethane	100	ug/L	200.0	U	U	No	S3VEM
1,3-Dichlorobenzene	100	ug/L	200.0	U	U	No	S3VEM
1,4-Dichlorobenzene	100	ug/L	200.0	U	U	No	S3VEM
1,2-Dichlorobenzene	100	ug/L	200.0	U	U	No	S3VEM
1,2-Dibromo-3-chloropropane	100	ug/L	200.0	U	U	No	S3VEM
1,2,4-Trichlorobenzene	100	ug/L	200.0	U	U	No	S3VEM
1,2,3-Trichlorobenzene	100	ug/L	200.0	U	U	No	S3VEM

Case No:	42872	Contract:	EPW11035	SDG No:	BA313	Lab Code:	SHEALY
Sample Number:	BA3H5	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SVP-10-6/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	15:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	0.82	ug/L	1.0			Yes	S3VEM
1,1-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
cis-1,2-Dichloroethene	0.18	ug/L	1.0	J	J	Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	1.4	ug/L	1.0			Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY
Sample Number: BA3H6	Method: VOA_Trace	Matrix: Water	MA Number: DEFAULT
Sample Location: SVP-10-7/RAQ3-2012	pH: 2	Sample Date: 09/25/2012	Sample Time: 15:10:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	1.8	ug/L	1.0			Yes	S3VEM
1,1-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
cis-1,2-Dichloroethene	4.4	ug/L	1.0			Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	40	ug/L	1.0	E		Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	1.6	ug/L	1.0			Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY
Sample Number: BA3H6DL	Method: VOA_Trace	Matrix: Water	MA Number: DEFAULT
Sample Location: SVP-10-7/RAQ3-2012	pH: 2	Sample Date: 09/25/2012	Sample Time: 15:10:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	2.5	ug/L	5.0	U	U	No	S3VEM
Chloromethane	2.5	ug/L	5.0	U	U	No	S3VEM
Vinyl chloride	2.5	ug/L	5.0	U	U	No	S3VEM
Bromomethane	2.5	ug/L	5.0	U	U	No	S3VEM
Chloroethane	2.5	ug/L	5.0	U	U	No	S3VEM
Trichlorofluoromethane	2.5	ug/L	5.0	U	U	No	S3VEM
1,1-Dichloroethene	2.5	ug/L	5.0	U	U	No	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	2.5	ug/L	5.0	U	U	No	S3VEM
Acetone	25	ug/L	5.0	U	U	No	S3VEM
Carbon Disulfide	2.5	ug/L	5.0	U	U	No	S3VEM
Methyl acetate	2.5	ug/L	5.0	U	U	No	S3VEM
Methylene chloride	2.5	ug/L	5.0	U	U	No	S3VEM
trans-1,2-Dichloroethene	2.5	ug/L	5.0	U	U	No	S3VEM
Methyl tert-butyl ether	1.9	ug/L	5.0	J D	J	No	S3VEM
1,1-Dichloroethane	2.5	ug/L	5.0	U	U	No	S3VEM
cis-1,2-Dichloroethene	4.2	ug/L	5.0	D		No	S3VEM
2-Butanone	25	ug/L	5.0	U	U	No	S3VEM
Bromochloromethane	2.5	ug/L	5.0	U	U	No	S3VEM
Chloroform	2.5	ug/L	5.0	U	U	No	S3VEM
1,1,1-Trichloroethane	2.5	ug/L	5.0	U	U	No	S3VEM
Cyclohexane	2.5	ug/L	5.0	U	U	No	S3VEM
Carbon tetrachloride	2.5	ug/L	5.0	U	U	No	S3VEM
Benzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,2-Dichloroethane	2.5	ug/L	5.0	U	U	No	S3VEM
Trichloroethene	40	ug/L	5.0	D		No	S3VEM
Methylcyclohexane	2.5	ug/L	5.0	U	U	No	S3VEM
1,2-Dichloropropane	2.5	ug/L	5.0	U	U	No	S3VEM
Bromodichloromethane	2.5	ug/L	5.0	U	U	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	2.5	ug/L	5.0	U	U	No	S3VEM
4-Methyl-2-pentanone	25	ug/L	5.0	U	U	No	S3VEM
Toluene	2.5	ug/L	5.0	U	U	No	S3VEM
trans-1,3-Dichloropropene	2.5	ug/L	5.0	U	U	No	S3VEM
1,1,2-Trichloroethane	2.5	ug/L	5.0	U	U	No	S3VEM
Tetrachloroethene	1.2	ug/L	5.0	J D	J	No	S3VEM
2-Hexanone	25	ug/L	5.0	U	U	No	S3VEM
Dibromochloromethane	2.5	ug/L	5.0	U	U	No	S3VEM
1,2-Dibromoethane	2.5	ug/L	5.0	U	U	No	S3VEM
Chlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM
Ethylbenzene	2.5	ug/L	5.0	U	U	No	S3VEM
o-Xylene	2.5	ug/L	5.0	U	U	No	S3VEM
m,p-Xylene	2.5	ug/L	5.0	U	U	No	S3VEM
Styrene	2.5	ug/L	5.0	U	U	No	S3VEM
Bromoform	2.5	ug/L	5.0	U	U	No	S3VEM
Isopropylbenzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,1,2,2-Tetrachloroethane	2.5	ug/L	5.0	U	U	No	S3VEM
1,3-Dichlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,4-Dichlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,2-Dichlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,2-Dibromo-3-chloropropane	2.5	ug/L	5.0	U	U	No	S3VEM
1,2,4-Trichlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,2,3-Trichlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY

Sample Number:	BA3H7	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SVP-4-2/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	10:45:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	0.55	ug/L	1.0			Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	6.7	ug/L	1.0			Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	3.6	ug/L	1.0	J	J	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.23	ug/L	1.0	J	J	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethane	1.5	ug/L	1.0			Yes	S3VEM
cis-1,2-Dichloroethene	0.60	ug/L	1.0			Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.64	ug/L	1.0	B	U	Yes	S3VEM
1,1,1-Trichloroethane	0.40	ug/L	1.0	J	J	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.24	ug/L	1.0	J	J	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	7.9	ug/L	1.0			Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	19	ug/L	1.0			Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY

Sample Number:	BA3H7RE	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SVP-4-2/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	10:45:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	0.65	ug/L	1.0			No	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	No	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	No	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	No	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	No	S3VEM
Trichlorofluoromethane	7.5	ug/L	1.0			No	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	No	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	No	S3VEM
Acetone	2.3	ug/L	1.0	J	J	No	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	No	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	No	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	No	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	No	S3VEM
Methyl tert-butyl ether	0.50	ug/L	1.0	U	U	No	S3VEM
1,1-Dichloroethane	1.7	ug/L	1.0			No	S3VEM
cis-1,2-Dichloroethene	0.65	ug/L	1.0			No	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	No	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	No	S3VEM
Chloroform	0.73	ug/L	1.0	B	U	No	S3VEM
1,1,1-Trichloroethane	0.46	ug/L	1.0	J	J	No	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	No	S3VEM
Carbon tetrachloride	0.39	ug/L	1.0	J	J	No	S3VEM
Benzene	0.50	ug/L	1.0	U	U	No	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	No	S3VEM
Trichloroethene	9.3	ug/L	1.0			No	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	No	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	No	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.17	ug/L	1.0	J	J	No	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	No	S3VEM
Toluene	0.50	ug/L	1.0	U	U	No	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	No	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	No	S3VEM
Tetrachloroethene	23	ug/L	1.0	E		No	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	No	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	No	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	No	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	No	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	No	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	No	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	No	S3VEM
Styrene	0.50	ug/L	1.0	U	U	No	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	No	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	No	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	No	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	No	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	No	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	No	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	No	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	No	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	No	S3VEM

Case No:	42872	Contract:	EPW11035	SDG No:	BA313	Lab Code:	SHEALY
Sample Number:	BA3H8	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SVP-4-3/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	11:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	5.3	ug/L	1.0			Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.37	ug/L	1.0	J	J	Yes	S3VEM
Methyl tert-butyl ether	1.7	ug/L	1.0			Yes	S3VEM
1,1-Dichloroethane	0.41	ug/L	1.0	J	J	Yes	S3VEM
cis-1,2-Dichloroethene	3.0	ug/L	1.0			Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	JB	U	Yes	S3VEM
1,1,1-Trichloroethane	0.18	ug/L	1.0	J	J	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	28	ug/L	1.0	E		Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	66	ug/L	1.0	E		Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No:	42872	Contract:	EPW11035	SDG No:	BA313	Lab Code:	SHEALY
Sample Number:	BA3H8DL	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SVP-4-3/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	11:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	3.0	ug/L	10.0	J D	J	No	S3VEM
Chloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
Vinyl chloride	5.0	ug/L	10.0	U	U	No	S3VEM
Bromomethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Trichlorofluoromethane	5.0	ug/L	10.0	U	U	No	S3VEM
1,1-Dichloroethene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Acetone	50	ug/L	10.0	U	U	No	S3VEM
Carbon Disulfide	5.0	ug/L	10.0	U	U	No	S3VEM
Methyl acetate	5.0	ug/L	10.0	U	U	No	S3VEM
Methylene chloride	5.0	ug/L	10.0	U	U	No	S3VEM
trans-1,2-Dichloroethene	5.0	ug/L	10.0	U	U	No	S3VEM
Methyl tert-butyl ether	5.0	ug/L	10.0	U	U	No	S3VEM
1,1-Dichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
cis-1,2-Dichloroethene	2.3	ug/L	10.0	J D	J	No	S3VEM
2-Butanone	50	ug/L	10.0	U	U	No	S3VEM
Bromochloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chloroform	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,1-Trichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Cyclohexane	5.0	ug/L	10.0	U	U	No	S3VEM
Carbon tetrachloride	5.0	ug/L	10.0	U	U	No	S3VEM
Benzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Trichloroethene	28	ug/L	10.0	D		No	S3VEM
Methylcyclohexane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichloropropane	5.0	ug/L	10.0	U	U	No	S3VEM
Bromodichloromethane	5.0	ug/L	10.0	U	U	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	5.0	ug/L	10.0	U	U	No	S3VEM
4-Methyl-2-pentanone	50	ug/L	10.0	U	U	No	S3VEM
Toluene	5.0	ug/L	10.0	U	U	No	S3VEM
trans-1,3-Dichloropropene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2-Trichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Tetrachloroethene	66	ug/L	10.0	D		No	S3VEM
2-Hexanone	50	ug/L	10.0	U	U	No	S3VEM
Dibromochloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dibromoethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
Ethylbenzene	5.0	ug/L	10.0	U	U	No	S3VEM
o-Xylene	5.0	ug/L	10.0	U	U	No	S3VEM
m,p-Xylene	5.0	ug/L	10.0	U	U	No	S3VEM
Styrene	5.0	ug/L	10.0	U	U	No	S3VEM
Bromoform	5.0	ug/L	10.0	U	U	No	S3VEM
Isopropylbenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2,2-Tetrachloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
1,3-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,4-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dibromo-3-chloropropane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2,4-Trichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2,3-Trichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY
Sample Number: BA3H9	Method: VOA_Trace	Matrix: Water	MA Number: DEFAULT
Sample Location: SVP-4-4/RAQ3-2012	pH: 2	Sample Date: 09/25/2012	Sample Time: 11:10:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	6.8	ug/L	1.0			Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	2.0	ug/L	1.0			Yes	S3VEM
1,1-Dichloroethane	0.20	ug/L	1.0	J	J	Yes	S3VEM
cis-1,2-Dichloroethene	2.6	ug/L	1.0			Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	JB	U	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	38	ug/L	1.0	E		Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	100	ug/L	1.0	E		Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY
Sample Number: BA3H9DL	Method: VOA_Trace	Matrix: Water	MA Number: DEFAULT
Sample Location: SVP-4-4/RAQ3-2012	pH: 2	Sample Date: 09/25/2012	Sample Time: 11:10:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	6.0	ug/L	10.0	D		No	S3VEM
Chloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
Vinyl chloride	5.0	ug/L	10.0	U	U	No	S3VEM
Bromomethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Trichlorofluoromethane	5.0	ug/L	10.0	U	U	No	S3VEM
1,1-Dichloroethene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Acetone	50	ug/L	10.0	U	U	No	S3VEM
Carbon Disulfide	5.0	ug/L	10.0	U	U	No	S3VEM
Methyl acetate	5.0	ug/L	10.0	U	U	No	S3VEM
Methylene chloride	5.0	ug/L	10.0	U	U	No	S3VEM
trans-1,2-Dichloroethene	5.0	ug/L	10.0	U	U	No	S3VEM
Methyl tert-butyl ether	5.0	ug/L	10.0	U	U	No	S3VEM
1,1-Dichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
cis-1,2-Dichloroethene	2.6	ug/L	10.0	J D	J	No	S3VEM
2-Butanone	50	ug/L	10.0	U	U	No	S3VEM
Bromochloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chloroform	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,1-Trichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Cyclohexane	5.0	ug/L	10.0	U	U	No	S3VEM
Carbon tetrachloride	5.0	ug/L	10.0	U	U	No	S3VEM
Benzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Trichloroethene	38	ug/L	10.0	D		No	S3VEM
Methylcyclohexane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichloropropane	5.0	ug/L	10.0	U	U	No	S3VEM
Bromodichloromethane	5.0	ug/L	10.0	U	U	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	5.0	ug/L	10.0	U	U	No	S3VEM
4-Methyl-2-pentanone	50	ug/L	10.0	U	U	No	S3VEM
Toluene	5.0	ug/L	10.0	U	U	No	S3VEM
trans-1,3-Dichloropropene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2-Trichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Tetrachloroethene	100	ug/L	10.0	D		No	S3VEM
2-Hexanone	50	ug/L	10.0	U	U	No	S3VEM
Dibromochloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dibromoethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
Ethylbenzene	5.0	ug/L	10.0	U	U	No	S3VEM
o-Xylene	5.0	ug/L	10.0	U	U	No	S3VEM
m,p-Xylene	5.0	ug/L	10.0	U	U	No	S3VEM
Styrene	5.0	ug/L	10.0	U	U	No	S3VEM
Bromoform	5.0	ug/L	10.0	U	U	No	S3VEM
Isopropylbenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2,2-Tetrachloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
1,3-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,4-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dibromo-3-chloropropane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2,4-Trichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2,3-Trichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY

Sample Number:	BA3J0	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SVP-4-5/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	11:25:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	6.0	ug/L	1.0			Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	2.0	ug/L	1.0			Yes	S3VEM
1,1-Dichloroethane	0.22	ug/L	1.0	J	J	Yes	S3VEM
cis-1,2-Dichloroethene	2.9	ug/L	1.0			Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	JB	U	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	33	ug/L	1.0	E		Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	86	ug/L	1.0	E		Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY

Sample Number:	BA3J0DL	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SVP-4-5/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	11:25:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	5.0	ug/L	10.0	J D	J	No	S3VEM
Chloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
Vinyl chloride	5.0	ug/L	10.0	U	U	No	S3VEM
Bromomethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Trichlorofluoromethane	5.0	ug/L	10.0	U	U	No	S3VEM
1,1-Dichloroethene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Acetone	50	ug/L	10.0	U	U	No	S3VEM
Carbon Disulfide	5.0	ug/L	10.0	U	U	No	S3VEM
Methyl acetate	5.0	ug/L	10.0	U	U	No	S3VEM
Methylene chloride	5.0	ug/L	10.0	U	U	No	S3VEM
trans-1,2-Dichloroethene	5.0	ug/L	10.0	U	U	No	S3VEM
Methyl tert-butyl ether	5.0	ug/L	10.0	U	U	No	S3VEM
1,1-Dichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
cis-1,2-Dichloroethene	2.6	ug/L	10.0	J D	J	No	S3VEM
2-Butanone	50	ug/L	10.0	U	U	No	S3VEM
Bromochloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chloroform	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,1-Trichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Cyclohexane	5.0	ug/L	10.0	U	U	No	S3VEM
Carbon tetrachloride	5.0	ug/L	10.0	U	U	No	S3VEM
Benzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Trichloroethene	33	ug/L	10.0	D		No	S3VEM
Methylcyclohexane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichloropropane	5.0	ug/L	10.0	U	U	No	S3VEM
Bromodichloromethane	5.0	ug/L	10.0	U	U	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	5.0	ug/L	10.0	U	U	No	S3VEM
4-Methyl-2-pentanone	50	ug/L	10.0	U	U	No	S3VEM
Toluene	5.0	ug/L	10.0	U	U	No	S3VEM
trans-1,3-Dichloropropene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2-Trichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Tetrachloroethene	86	ug/L	10.0	D		No	S3VEM
2-Hexanone	50	ug/L	10.0	U	U	No	S3VEM
Dibromochloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dibromoethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
Ethylbenzene	5.0	ug/L	10.0	U	U	No	S3VEM
o-Xylene	5.0	ug/L	10.0	U	U	No	S3VEM
m,p-Xylene	5.0	ug/L	10.0	U	U	No	S3VEM
Styrene	5.0	ug/L	10.0	U	U	No	S3VEM
Bromoform	5.0	ug/L	10.0	U	U	No	S3VEM
Isopropylbenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2,2-Tetrachloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
1,3-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,4-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dibromo-3-chloropropane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2,4-Trichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2,3-Trichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY

Sample Number:	BA3J1	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SVP-4-6/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	11:40:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	4.9	ug/L	1.0			Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	2.3	ug/L	1.0			Yes	S3VEM
1,1-Dichloroethane	0.18	ug/L	1.0	J	J	Yes	S3VEM
cis-1,2-Dichloroethene	3.4	ug/L	1.0			Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	JB	U	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	41	ug/L	1.0	E		Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	96	ug/L	1.0	E		Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY

Sample Number:	BA3J1DL	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SVP-4-6/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	11:40:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	3.0	ug/L	10.0	J D	J	No	S3VEM
Chloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
Vinyl chloride	5.0	ug/L	10.0	U	U	No	S3VEM
Bromomethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Trichlorofluoromethane	5.0	ug/L	10.0	U	U	No	S3VEM
1,1-Dichloroethene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Acetone	50	ug/L	10.0	U	U	No	S3VEM
Carbon Disulfide	5.0	ug/L	10.0	U	U	No	S3VEM
Methyl acetate	5.0	ug/L	10.0	U	U	No	S3VEM
Methylene chloride	5.0	ug/L	10.0	U	U	No	S3VEM
trans-1,2-Dichloroethene	5.0	ug/L	10.0	U	U	No	S3VEM
Methyl tert-butyl ether	5.0	ug/L	10.0	U	U	No	S3VEM
1,1-Dichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
cis-1,2-Dichloroethene	3.0	ug/L	10.0	J D	J	No	S3VEM
2-Butanone	50	ug/L	10.0	U	U	No	S3VEM
Bromochloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chloroform	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,1-Trichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Cyclohexane	5.0	ug/L	10.0	U	U	No	S3VEM
Carbon tetrachloride	5.0	ug/L	10.0	U	U	No	S3VEM
Benzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Trichloroethene	41	ug/L	10.0	D		No	S3VEM
Methylcyclohexane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichloropropane	5.0	ug/L	10.0	U	U	No	S3VEM
Bromodichloromethane	5.0	ug/L	10.0	U	U	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	1.8	ug/L	10.0	J D	J	No	S3VEM
4-Methyl-2-pentanone	50	ug/L	10.0	U	U	No	S3VEM
Toluene	5.0	ug/L	10.0	U	U	No	S3VEM
trans-1,3-Dichloropropene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2-Trichloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
Tetrachloroethene	96	ug/L	10.0	D		No	S3VEM
2-Hexanone	50	ug/L	10.0	U	U	No	S3VEM
Dibromochloromethane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dibromoethane	5.0	ug/L	10.0	U	U	No	S3VEM
Chlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
Ethylbenzene	5.0	ug/L	10.0	U	U	No	S3VEM
o-Xylene	5.0	ug/L	10.0	U	U	No	S3VEM
m,p-Xylene	5.0	ug/L	10.0	U	U	No	S3VEM
Styrene	5.0	ug/L	10.0	U	U	No	S3VEM
Bromoform	5.0	ug/L	10.0	U	U	No	S3VEM
Isopropylbenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,1,2,2-Tetrachloroethane	5.0	ug/L	10.0	U	U	No	S3VEM
1,3-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,4-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2-Dibromo-3-chloropropane	5.0	ug/L	10.0	U	U	No	S3VEM
1,2,4-Trichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM
1,2,3-Trichlorobenzene	5.0	ug/L	10.0	U	U	No	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY

Sample Number:	BA3J2	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SVP-4-7/RAQ3-2012	pH:	2	Sample Date:	09/25/2012	Sample Time:	11:50:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	1.4	ug/L	1.0			Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	2.6	ug/L	1.0			Yes	S3VEM
1,1-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
cis-1,2-Dichloroethene	1.3	ug/L	1.0			Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	JB	U	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	48	ug/L	1.0	E		Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	13	ug/L	1.0			Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY
Sample Number: BA3J2DL	Method: VOA_Trace	Matrix: Water	MA Number: DEFAULT
Sample Location: SVP-4-7/RAQ3-2012	pH: 2	Sample Date: 09/25/2012	Sample Time: 11:50:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	1.1	ug/L	5.0	J D	J	No	S3VEM
Chloromethane	2.5	ug/L	5.0	U	U	No	S3VEM
Vinyl chloride	2.5	ug/L	5.0	U	U	No	S3VEM
Bromomethane	2.5	ug/L	5.0	U	U	No	S3VEM
Chloroethane	2.5	ug/L	5.0	U	U	No	S3VEM
Trichlorofluoromethane	2.5	ug/L	5.0	U	U	No	S3VEM
1,1-Dichloroethene	2.5	ug/L	5.0	U	U	No	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	2.5	ug/L	5.0	U	U	No	S3VEM
Acetone	25	ug/L	5.0	U	U	No	S3VEM
Carbon Disulfide	2.5	ug/L	5.0	U	U	No	S3VEM
Methyl acetate	2.5	ug/L	5.0	U	U	No	S3VEM
Methylene chloride	2.5	ug/L	5.0	U	U	No	S3VEM
trans-1,2-Dichloroethene	2.5	ug/L	5.0	U	U	No	S3VEM
Methyl tert-butyl ether	2.5	ug/L	5.0	J D	J	No	S3VEM
1,1-Dichloroethane	2.5	ug/L	5.0	U	U	No	S3VEM
cis-1,2-Dichloroethene	1.2	ug/L	5.0	J D	J	No	S3VEM
2-Butanone	25	ug/L	5.0	U	U	No	S3VEM
Bromochloromethane	2.5	ug/L	5.0	U	U	No	S3VEM
Chloroform	2.5	ug/L	5.0	J DB	U	No	S3VEM
1,1,1-Trichloroethane	2.5	ug/L	5.0	U	U	No	S3VEM
Cyclohexane	2.5	ug/L	5.0	U	U	No	S3VEM
Carbon tetrachloride	2.5	ug/L	5.0	U	U	No	S3VEM
Benzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,2-Dichloroethane	2.5	ug/L	5.0	U	U	No	S3VEM
Trichloroethene	48	ug/L	5.0	D		No	S3VEM
Methylcyclohexane	2.5	ug/L	5.0	U	U	No	S3VEM
1,2-Dichloropropane	2.5	ug/L	5.0	U	U	No	S3VEM
Bromodichloromethane	2.5	ug/L	5.0	U	U	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	2.5	ug/L	5.0	U	U	No	S3VEM
4-Methyl-2-pentanone	25	ug/L	5.0	U	U	No	S3VEM
Toluene	2.5	ug/L	5.0	U	U	No	S3VEM
trans-1,3-Dichloropropene	2.5	ug/L	5.0	U	U	No	S3VEM
1,1,2-Trichloroethane	2.5	ug/L	5.0	U	U	No	S3VEM
Tetrachloroethene	12	ug/L	5.0	D		No	S3VEM
2-Hexanone	25	ug/L	5.0	U	U	No	S3VEM
Dibromochloromethane	2.5	ug/L	5.0	U	U	No	S3VEM
1,2-Dibromoethane	2.5	ug/L	5.0	U	U	No	S3VEM
Chlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM
Ethylbenzene	2.5	ug/L	5.0	U	U	No	S3VEM
o-Xylene	2.5	ug/L	5.0	U	U	No	S3VEM
m,p-Xylene	2.5	ug/L	5.0	U	U	No	S3VEM
Styrene	2.5	ug/L	5.0	U	U	No	S3VEM
Bromoform	2.5	ug/L	5.0	U	U	No	S3VEM
Isopropylbenzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,1,2,2-Tetrachloroethane	2.5	ug/L	5.0	U	U	No	S3VEM
1,3-Dichlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,4-Dichlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,2-Dichlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,2-Dibromo-3-chloropropane	2.5	ug/L	5.0	U	U	No	S3VEM
1,2,4-Trichlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM
1,2,3-Trichlorobenzene	2.5	ug/L	5.0	U	U	No	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY
Sample Number: BA3J3	Method: VOA_Trace	Matrix: Water	MA Number: DEFAULT
Sample Location: TB092512	pH: 2	Sample Date: 09/25/2012	Sample Time: 08:45:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
cis-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	UJ	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY
Sample Number: VBLKFL	Method: VOA_Trace	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
cis-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.098	ug/L	1.0	J	J	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY
Sample Number: VBLKFT	Method: VOA_Trace	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
cis-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.15	ug/L	1.0	J	J	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY
Sample Number: VBLKUW	Method: VOA_Trace	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	UJ	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
cis-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.12	ug/L	1.0	J	J	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY
Sample Number: VBLKVA	Method: VOA_Trace	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
cis-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.090	ug/L	1.0	J	J	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY
Sample Number: VBLKXX	Method: VOA_Trace	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.12	ug/L	1.0	J	J	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
cis-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.13	ug/L	1.0	J	J	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	UJ	Yes	S3VEM

Case No: 42872	Contract: EPW11035	SDG No: BA313	Lab Code: SHEALY
Sample Number: VHBLK01	Method: VOA_Trace	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Vinyl chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromomethane	0.50	ug/L	1.0	U	UJ	Yes	S3VEM
Chloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichlorofluoromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Acetone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbon Disulfide	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl acetate	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylene chloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methyl tert-butyl ether	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
cis-1,2-Dichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Butanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chloroform	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,1-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Cyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Carbon tetrachloride	0.50	ug/L	1.0	U	U	Yes	S3VEM
Benzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Trichloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Methylcyclohexane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromodichloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
cis-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
4-Methyl-2-pentanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Toluene	0.50	ug/L	1.0	U	U	Yes	S3VEM
trans-1,3-Dichloropropene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2-Trichloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Tetrachloroethene	0.50	ug/L	1.0	U	U	Yes	S3VEM
2-Hexanone	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibromochloromethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromoethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
Chlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Ethylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
o-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
m,p-Xylene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Styrene	0.50	ug/L	1.0	U	U	Yes	S3VEM
Bromoform	0.50	ug/L	1.0	U	U	Yes	S3VEM
Isopropylbenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,1,2,2-Tetrachloroethane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,3-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,4-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2-Dibromo-3-chloropropane	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,4-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM
1,2,3-Trichlorobenzene	0.50	ug/L	1.0	U	U	Yes	S3VEM

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

October 11, 2012

Jennifer Oxford
CDM-FPC
110 Fieldcrest Avenue, 6th Floor
Edison, NJ 08837

RE: Old Roosevelt Field - 1209020

Enclosed are the results of analyses for samples received by the laboratory between 09/12/2012 and 09/27/2012. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1209020 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1209020

Project Number: 1209020

Project Narrative:

The National Environmental Laboratory Accreditation Conference (NELAC) is a voluntary environmental laboratory accreditation association of State and Federal agencies. NELAC established and promoted a national accreditation program that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAC accredited. The Laboratory tests that are accredited have met all the requirements established under the NELAC Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

U- The analyte was not detected at or above the Reporting Limit.
J- The identification of the analyte is acceptable; the reported value is an estimate.
K- The identification of the analyte is acceptable; the reported value may be biased high.
L- The identification of the analyte is acceptable; the reported value may be biased low.
NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1209020

Project Number: 1209020

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
CI-120911	1209020-01	Aqueous	09/11/2012 09:30	09/12/2012 12:15
EFF-120911	1209020-02	Aqueous	09/11/2012 09:45	09/12/2012 12:15
EFF-120926	1209064-01	Aqueous	09/26/2012 09:05	09/27/2012 14:00

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1209020

Project Number: 1209020

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Residue, Filterable	SM 2540 C / SOP C-37	NELAP	Aqueous
Residue, Non-Filterable	SM 2540 D / SOP C-33	NELAP	Aqueous
Nitrate + Nitrite [As N]	EPA 353.2 / SOP C-79	NELAP	Aqueous
Oil & Grease	EPA 1664A / SOP C-126	NELAP	Aqueous

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Old Roosevelt Field - 1209020

Project Number: 1209020

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: CI-120911				**Sample ID: 1209020-01**
Sanitary				
Residue, Filterable	240		10	mg/L
Residue, Non-Filterable	---	U	10	mg/L
Nitrate + Nitrite [As N]	4.4		0.50	mg/L
Field ID: EFF-120911				**Sample ID: 1209020-02**
Sanitary				
Residue, Filterable	220		10	mg/L
Residue, Non-Filterable	---	U	10	mg/L
Nitrate + Nitrite [As N]	4.5		0.50	mg/L
Oil & Grease	---	U	5.0	mg/L
Field ID: EFF-120926				**Sample ID: 1209064-01**
Sanitary				
Oil & Grease	---	U	5.0	mg/L

Sample Summary Report

Case No:	42872	Contract:	EPW09042	SDG No:	MB41L8	Lab Code:	TALGA

Sample Number:	LCS1	Method:	ICP_AES	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	450	ug/L	1.0			Yes	S2BVEM
Antimony	130	ug/L	1.0			Yes	S2BVEM
Arsenic	25.1	ug/L	1.0			Yes	S2BVEM
Barium	444	ug/L	1.0			Yes	S2BVEM
Beryllium	11.1	ug/L	1.0			Yes	S2BVEM
Cadmium	11.5	ug/L	1.0			Yes	S2BVEM
Chromium	22.5	ug/L	1.0			Yes	S2BVEM
Cobalt	109	ug/L	1.0			Yes	S2BVEM
Copper	54.2	ug/L	1.0			Yes	S2BVEM
Iron	218	ug/L	1.0			Yes	S2BVEM
Lead	22.0	ug/L	1.0			Yes	S2BVEM
Manganese	33.4	ug/L	1.0			Yes	S2BVEM
Nickel	87.1	ug/L	1.0			Yes	S2BVEM
Selenium	76.9	ug/L	1.0			Yes	S2BVEM
Silver	22.5	ug/L	1.0			Yes	S2BVEM
Thallium	56.8	ug/L	1.0			Yes	S2BVEM
Vanadium	112	ug/L	1.0			Yes	S2BVEM
Zinc	134	ug/L	1.0			Yes	S2BVEM
Potassium	11900	ug/L	1.0			Yes	S2BVEM
Sodium	9960	ug/L	1.0			Yes	S2BVEM
Calcium	10500	ug/L	1.0			Yes	S2BVEM
Magnesium	11100	ug/L	1.0			Yes	S2BVEM

Case No: 42872	Contract: EPW09042	SDG No: MB41L8	Lab Code: TALGA

Sample Number: LCS1	Method: Hg	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	2.7	ug/L	1.0			Yes	S2BVEM

Case No:	42872	Contract:	EPW09042	SDG No:	MB41L8	Lab Code:	TALGA
Sample Number:	MB41L8	Method:	ICP_AES	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	CI-120911	pH:	2.0	Sample Date:	09112012	Sample Time:	09:30:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	200	ug/L	1.0	U	U	Yes	S2BVEM
Antimony	60.0	ug/L	1.0	U	U	Yes	S2BVEM
Arsenic	10.0	ug/L	1.0	U	U	Yes	S2BVEM
Barium	200	ug/L	1.0	J	U	Yes	S2BVEM
Beryllium	5.0	ug/L	1.0	J	U	Yes	S2BVEM
Cadmium	5.0	ug/L	1.0	U	U	Yes	S2BVEM
Calcium	16200	ug/L	1.0			Yes	S2BVEM
Chromium	10.0	ug/L	1.0	J	U	Yes	S2BVEM
Cobalt	3.1	ug/L	1.0	J	J	Yes	S2BVEM
Copper	3.4	ug/L	1.0	J	J	Yes	S2BVEM
Iron	26.7	ug/L	1.0	J	J	Yes	S2BVEM
Lead	10.0	ug/L	1.0	U	U	Yes	S2BVEM
Magnesium	7090	ug/L	1.0			Yes	S2BVEM
Manganese	15.0	ug/L	1.0	J E	UJ	Yes	S2BVEM
Nickel	11.6	ug/L	1.0	J	J	Yes	S2BVEM
Potassium	3850	ug/L	1.0	J	J	Yes	S2BVEM
Selenium	35.0	ug/L	1.0	U	U	Yes	S2BVEM
Silver	10.0	ug/L	1.0	U N	UJ	Yes	S2BVEM
Sodium	41100	ug/L	1.0			Yes	S2BVEM
Thallium	25.0	ug/L	1.0	U	U	Yes	S2BVEM
Vanadium	50.0	ug/L	1.0	U	U	Yes	S2BVEM
Zinc	133	ug/L	1.0			Yes	S2BVEM

Case No:	42872	Contract:	EPW09042	SDG No:	MB41L8	Lab Code:	TALGA
Sample Number:	MB41L8	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	CI-120911	pH:	2.0	Sample Date:	09112012	Sample Time:	09:30:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1.0	U	U	Yes	S2BVEM

Case No:	42872	Contract:	EPW09042	SDG No:	MB41L8	Lab Code:	TALGA
Sample Number:	MB41L9	Method:	ICP_AES	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	EFF-120911	pH:	2.0	Sample Date:	09112012	Sample Time:	09:45:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	200	ug/L	1.0	U	U	Yes	S2BVEM
Antimony	60.0	ug/L	1.0	U	U	Yes	S2BVEM
Arsenic	10.0	ug/L	1.0	U	U	Yes	S2BVEM
Barium	200	ug/L	1.0	J	U	Yes	S2BVEM
Beryllium	5.0	ug/L	1.0	J	U	Yes	S2BVEM
Cadmium	5.0	ug/L	1.0	U	U	Yes	S2BVEM
Calcium	16300	ug/L	1.0			Yes	S2BVEM
Chromium	10.0	ug/L	1.0	U	U	Yes	S2BVEM
Cobalt	2.8	ug/L	1.0	J	J	Yes	S2BVEM
Copper	1.5	ug/L	1.0	J	J	Yes	S2BVEM
Iron	100	ug/L	1.0	U	U	Yes	S2BVEM
Lead	10.0	ug/L	1.0	U	U	Yes	S2BVEM
Magnesium	7160	ug/L	1.0			Yes	S2BVEM
Manganese	15.0	ug/L	1.0	J E	UJ	Yes	S2BVEM
Nickel	4.1	ug/L	1.0	J	J	Yes	S2BVEM
Potassium	3970	ug/L	1.0	J	J	Yes	S2BVEM
Selenium	35.0	ug/L	1.0	U	U	Yes	S2BVEM
Silver	10.0	ug/L	1.0	U N	UJ	Yes	S2BVEM
Sodium	42900	ug/L	1.0			Yes	S2BVEM
Thallium	25.0	ug/L	1.0	U	U	Yes	S2BVEM
Vanadium	50.0	ug/L	1.0	U	U	Yes	S2BVEM
Zinc	113	ug/L	1.0			Yes	S2BVEM

Case No:	42872	Contract:	EPW09042	SDG No:	MB41L8	Lab Code:	TALGA
Sample Number:	MB41L9	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	EFF-120911	pH:	2.0	Sample Date:	09112012	Sample Time:	09:45:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1.0	J	U	Yes	S2BVEM

Case No:	42872	Contract:	EPW09042	SDG No:	MB41L8	Lab Code:	TALGA
Sample Number:	MB41L9D	Method:	ICP_AES	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:	2.0	Sample Date:	09112012	Sample Time:	09:45:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	200	ug/L	1.0	U	U	Yes	S2BVEM
Antimony	60.0	ug/L	1.0	U	U	Yes	S2BVEM
Arsenic	10.0	ug/L	1.0	U	U	Yes	S2BVEM
Barium	200	ug/L	1.0	J	U	Yes	S2BVEM
Beryllium	5.0	ug/L	1.0	J	U	Yes	S2BVEM
Cadmium	5.0	ug/L	1.0	U	U	Yes	S2BVEM
Calcium	16300	ug/L	1.0			Yes	S2BVEM
Chromium	10.0	ug/L	1.0	U	U	Yes	S2BVEM
Cobalt	3.1	ug/L	1.0	J	J	Yes	S2BVEM
Copper	1.5	ug/L	1.0	J	J	Yes	S2BVEM
Iron	100	ug/L	1.0	U	U	Yes	S2BVEM
Lead	10.0	ug/L	1.0	U	U	Yes	S2BVEM
Magnesium	7160	ug/L	1.0			Yes	S2BVEM
Manganese	15.0	ug/L	1.0	J	U	Yes	S2BVEM
Nickel	4.7	ug/L	1.0	J	J	Yes	S2BVEM
Potassium	3930	ug/L	1.0	J	J	Yes	S2BVEM
Selenium	35.0	ug/L	1.0	U	U	Yes	S2BVEM
Silver	10.0	ug/L	1.0	U	U	Yes	S2BVEM
Sodium	42900	ug/L	1.0			Yes	S2BVEM
Thallium	25.0	ug/L	1.0	U	U	Yes	S2BVEM
Vanadium	50.0	ug/L	1.0	U	U	Yes	S2BVEM
Zinc	112	ug/L	1.0			Yes	S2BVEM

Case No:	42872	Contract:	EPW09042	SDG No:	MB41L8	Lab Code:	TALGA
Sample Number:	MB41L9D	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	EFF-120911	pH:	2.0	Sample Date:	09112012	Sample Time:	09:45:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1.0	U	U	Yes	S2BVEM

Case No:	42872	Contract:	EPW09042	SDG No:	MB41L8	Lab Code:	TALGA
Sample Number:	MB41L9S	Method:	ICP_AES	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:	2.0	Sample Date:	09112012	Sample Time:	09:45:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	2020	ug/L	1.0			Yes	S2BVEM
Antimony	106	ug/L	1.0			Yes	S2BVEM
Arsenic	42.4	ug/L	1.0			Yes	S2BVEM
Barium	2170	ug/L	1.0			Yes	S2BVEM
Beryllium	53.4	ug/L	1.0			Yes	S2BVEM
Cadmium	53.9	ug/L	1.0			Yes	S2BVEM
Calcium	16100	ug/L	1.0			Yes	S2BVEM
Chromium	214	ug/L	1.0			Yes	S2BVEM
Cobalt	545	ug/L	1.0			Yes	S2BVEM
Copper	266	ug/L	1.0			Yes	S2BVEM
Iron	1120	ug/L	1.0			Yes	S2BVEM
Lead	20.3	ug/L	1.0			Yes	S2BVEM
Manganese	546	ug/L	1.0			Yes	S2BVEM
Magnesium	7040	ug/L	1.0			Yes	S2BVEM
Nickel	540	ug/L	1.0			Yes	S2BVEM
Selenium	51.7	ug/L	1.0			Yes	S2BVEM
Silver	18.7	ug/L	1.0	N		Yes	S2BVEM
Thallium	54.7	ug/L	1.0			Yes	S2BVEM
Potassium	3960	ug/L	1.0	J	J	Yes	S2BVEM
Vanadium	534	ug/L	1.0			Yes	S2BVEM
Zinc	650	ug/L	1.0			Yes	S2BVEM
Sodium	42100	ug/L	1.0			Yes	S2BVEM

Case No:	42872	Contract:	EPW09042	SDG No:	MB41L8	Lab Code:	TALGA
Sample Number:	MB41L9S	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	EFF-120911	pH:	2.0	Sample Date:	09112012	Sample Time:	09:45:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	1.1	ug/L	1.0			Yes	S2BVEM

Case No: 42872	Contract: EPW09042	SDG No: MB41L8	Lab Code: TALGA
Sample Number: PBW1	Method: ICP_AES	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	200	ug/L	1.0	J	U	Yes	S2BVEM
Antimony	60.0	ug/L	1.0	U	U	Yes	S2BVEM
Arsenic	10.0	ug/L	1.0	U	U	Yes	S2BVEM
Barium	200	ug/L	1.0	J	U	Yes	S2BVEM
Beryllium	5.0	ug/L	1.0	J	U	Yes	S2BVEM
Cadmium	5.0	ug/L	1.0	U	U	Yes	S2BVEM
Calcium	5000	ug/L	1.0	U	U	Yes	S2BVEM
Chromium	10.0	ug/L	1.0	J	U	Yes	S2BVEM
Cobalt	50.0	ug/L	1.0	U	U	Yes	S2BVEM
Copper	25.0	ug/L	1.0	U	U	Yes	S2BVEM
Iron	100	ug/L	1.0	U	U	Yes	S2BVEM
Lead	10.0	ug/L	1.0	U	U	Yes	S2BVEM
Magnesium	5000	ug/L	1.0	J	U	Yes	S2BVEM
Manganese	15.0	ug/L	1.0	J	U	Yes	S2BVEM
Nickel	40.0	ug/L	1.0	U	U	Yes	S2BVEM
Potassium	5000	ug/L	1.0	U	U	Yes	S2BVEM
Selenium	35.0	ug/L	1.0	U	U	Yes	S2BVEM
Silver	10.0	ug/L	1.0	U	U	Yes	S2BVEM
Sodium	5000	ug/L	1.0	U	U	Yes	S2BVEM
Thallium	25.0	ug/L	1.0	U	U	Yes	S2BVEM
Vanadium	50.0	ug/L	1.0	J	U	Yes	S2BVEM
Zinc	60.0	ug/L	1.0	U	U	Yes	S2BVEM

Case No: 42872	Contract: EPW09042	SDG No: MB41L8	Lab Code: TALGA
Sample Number: PBW1	Method: Hg	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1.0	U	U	Yes	S2BVEM

Appendix D

Compliance Sample Field Water Quality Logs

Old Roosevelt Field Superfund Site
Groundwater Treatment Plant
Water Quality Log

Date: 9/26/12

EW-1S Influent	pH			
	Temp		°C	
	Conductivity		mS/m	Not Sampled
	ORP		mV	
	TDS		mg/l	
EW-1I Influent	pH			
	Temp		°C	
	Conductivity		mS/m	Not Sampled
	ORP		mV	
	TDS		mg/l	
EW-1D Influent	pH			
	Temp		°C	
	Conductivity		mS/m	Not Sampled
	ORP		mV	
	TDS		mg/l	
Combined Influent #1 (prior to EQ tank)	pH	5.86		
	Temp	18.11	°C	
	Conductivity	0.252	mS/m	
	ORP	181	mV	
	TDS	11.74	mg/l	
Combined Influent #2 (post bag filter, prior to Air Stripper)	pH			
	Temp		°C	
	Conductivity		mS/m	Not Sampled
	ORP		mV	
	TDS		mg/l	
Combined Effluent (post caustic injection)	pH	6.57		
	Temp	17.97	°C	
	Conductivity	0.226	mS/m	
	ORP	147	mV	
	TDS	24.08	mg/l	

Old Roosevelt Field Superfund Site
Groundwater Treatment Plant
Water Quality Log

Date: 9/11/12

EW-1S Influent	pH	5.39		
	Temp	18.33	°C	
	Conductivity	0.423	mS/m	
	ORP	209	mV	
	TDS	8.18	mg/l	
EW-1I Influent	pH			
	Temp		°C	
	Conductivity		mS/m	Not Sampled
	ORP		mV	
	TDS		mg/l	
EW-1D Influent	pH	5.35		
	Temp	16.84	°C	
	Conductivity	0.279	mS/m	
	ORP	180	mV	
	TDS	8.68	mg/l	
Combined Influent #1 (prior to EQ tank)	pH	5.52		
	Temp	17.49	°C	
	Conductivity	0.355	mS/m	
	ORP	163	mV	
	TDS	6.61	mg/l	
Combined Influent #2 (post bag filter, prior to Air Stripper)	pH			
	Temp		°C	
	Conductivity		mS/m	Not Sampled
	ORP		mV	
	TDS		mg/l	
Combined Effluent (post caustic injection)	pH	6.63		
	Temp	16.25	°C	
	Conductivity	0.337	mS/m	
	ORP	189	mV	
	TDS	10.39	mg/l	

Appendix C

Y1Q3 Data Quality Assessment

Data Quality Assessment

1.0 Sampling Summary

CDM Federal Programs Corporation (CDM Smith) performed field activities to support the Remedial Action (RA) at the Old Roosevelt Field Contaminated Groundwater Area Site (the Site) and the associated quarterly progress report. The purpose of this assessment is to evaluate the usability of the data collected and to determine whether they meet the quality objectives and user requirements outlined in the Old Roosevelt Field Contaminated Groundwater Area Final Quality Assurance Project Plan (Final QAPP) (CDM Smith 2010).

Sampling activities occurred from August 15 to September 26, 2012 for the treatment system sampling, and from September 25, 2012 to September 26, 2012 for the groundwater quarterly sampling. Table 1 summarizes the samples collected and lists the methods used to analyze the samples. Samples were collected and shipped to the Division of Environmental Science and Assessment (DESA) laboratory for parameters analyzed in August and wet chemistry parameters in September. Volatile organic compounds (VOCs) and metals were collected and shipped to the contract laboratory program (CLP) laboratories for analysis in September.

2.0 Usability Summary

Table 2, the Data Usability Worksheet, lists the validation items reviewed and discusses the field sampling deviations. Problems are documented as applicable, and the achievement of the data quality objectives is discussed. Only the final qualified data will be presented in the quarterly progress report and other reports pertaining to the site. Data that did not meet quality control (QC) criteria were appropriately qualified during data validation as estimated “J” or “L” and usable, or usable but non-detect “U”, “UL”, or “UJ”.

The data generated during the quarterly sampling are considered definitive data generated under a United States Environmental Protection Agency (EPA) approved QAPP, using EPA analytical methods and validated according to EPA Region 2 protocols. The data was validated by the DESA laboratory and the EPA’s validation contractors. Data results may be used for their intended purpose during the RA data evaluation.

The final percentage of valid data for the groundwater treatment samples and the groundwater quarterly sampling are 100 percent. The ninety percent completeness goal for usable data has been met.

3.0 Data Quality Indicators

QC parameters evaluated in the data review/validation and the corresponding data quality indicators (DQIs) are summarized in Table 2.

Precision, accuracy, representativeness, comparability, completeness, and sensitivity are used as DQIs. These DQIs provide a mechanism for evaluating and measuring data quality throughout the project. Achievement of the project’s quality objectives were measured from the DQI results assessed against their measurement performance criteria. Worksheets #12 and 28 of the Final QAPP show the measurement performance criteria. These criteria are defined and their results discussed in the appropriate sections of Table 2.

All data reported herein are usable with the data validation qualifiers added. During data evaluation, some usable data may be determined as unusable or re-coded dependent on use and the type of site decisions being made.

4.0 Data Validation Qualifiers

The following qualifiers were used with the reported data.

Qualifiers:

J	-	Estimated data due to exceeded quality control criteria.
L	-	The identification of the analyte is acceptable; the reported value may be biased low.
U	-	Compound was analyzed for but not detected. The associated numerical value is the sample quantitation limit.
UL	-	The identification of the analyte is acceptable; the non-detect value may be biased low.
UJ	-	Estimated non-detect data due to exceeded quality control criteria.

5.0 Acronyms

ABS	absolute difference
CDM Smith	CDM Federal Programs Corporation
CLP	contract laboratory program
CRQL	contract required quantitation limit
DESA	Division of Environmental Science and Assessment
DMC	deuterated monitoring compounds
DQI	data quality indicator
DQO	data quality objective
EPA	(United States) Environmental Protection Agency
FB	field blank
FD	field duplicate
GC/MS	gas chromatography/mass spectrometry
ICP	inductively coupled plasma
ID	identification
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
MRL	method reporting limit
MS	matrix spike
MSD	matrix spike duplicate
µg/L	micrograms per liter
N	normal
NA	not applicable
NC	not calculable
PAL	project action limit
Percent D	percent difference
Percent R	percent recovery
Percent RSD	Percent Relative Standard Deviation
QC	quality control
QAPP	quality assurance project plan
RA	remedial action
RPD	relative percent difference
RRF	relative response factor
SDG	sample delivery group
SM	standard method
SOP	standard operating procedure
SOW	scope of work
TB	trip blank
TDS	total dissolved solids
TSS	total suspended solids
VOC	volatile organic compound
VSS	Volatile Suspended Solids
W	water
WG	groundwater

6.0 References

CDM Federal Programs Corporation (CDM Smith). 2010. Final Quality Assurance Project Plan. Old Roosevelt Field Contaminated Groundwater Area Site Remedial Action. Garden City, New York. May 24.

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Table 1

Sample Summary

Table 1
Sample Summary
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, New York

Sample ID	Parent Sample	Sample Date	Matrix	Sample Type	VOCs	Metals	Mercury	Nitrate/ Nitrite	TDS	TSS	Oil & Grease
Treatment System Samples											
CI-120815		8/15/2012	W	N	51	22	1	1	1	1	
EFF-120815		8/15/2012	W	N	51	22	1	1	1	1	1
EW-1D-120815		8/15/2012	W	N	51						
EW-1S-120815		8/15/2012	W	N	51						
TB-120815		8/15/2012	W	TB	51						
CI-120822		8/22/2012	W	N	51						
EFF-120822		8/22/2012	W	N	51						1
TB-120822		8/22/2012	W	TB	51						
CI-120911		9/11/2012	W	N	51	22	1	1	1	1	
EFF-120911		9/11/2012	W	N	51	22	1	1	1	1	1
EW-1D-120911		9/11/2012	W	N	51						
EW-1S-120911		9/11/2012	W	N	51						
TB-120911		9/11/2012	W	TB	51						
CI-120926		9/26/2012	W	N	51						
EFF-120926		9/26/2012	W	N	51						1
TB-120926		9/26/2012	W	TB	51						
Groundwater Quarterly Samples											
FB092512		9/25/2012	WG	FB	51						
GWX-10019/RAQ3-2012		9/25/2012	WG	N	51						
SVP-10-1/RAQ3-2012		9/25/2012	WG	N	51						
SVP-10-2/RAQ3-2012		9/25/2012	WG	N	51						
SVP-10-3/RAQ3-2012		9/25/2012	WG	N	51						
SVP-10-4/RAQ3-2012		9/25/2012	WG	N	51						
SVP-104-5/RAQ3-2012	SVP-4-5/RAQ3-2012	9/25/2012	WG	FD	51						
SVP-10-5/RAQ3-2012		9/25/2012	WG	N	51						
SVP-10-6/RAQ3-2012		9/25/2012	WG	N	51						
SVP-10-7/RAQ3-2012		9/25/2012	WG	N	51						
SVP-4-2/RAQ3-2012		9/25/2012	WG	N	51						
SVP-4-3/RAQ3-2012		9/25/2012	WG	N	51						

Table 1
Sample Summary
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, New York

Sample ID	Parent Sample	Sample Date	Matrix	Sample Type	VOCs	Metals	Mercury	Nitrate/ Nitrite	TDS	TSS	Oil & Grease
SVP-4-4/RAQ3-2012		9/25/2012	WG	N	51						
SVP-4-5/RAQ3-2012		9/25/2012	WG	N	51						
SVP-4-6/RAQ3-2012		9/25/2012	WG	N	51						
SVP-4-7/RAQ3-2012		9/25/2012	WG	N	51						
TB092512		9/25/2012	W	TB	51						
FB092612		9/26/2012	WG	FB	51						
MW-01I/RAQ3-2012		9/26/2012	WG	N	51						
MW-01S/RAQ3-2012		9/26/2012	WG	N	51						
TB092612		9/26/2012	W	TB	51						

Notes:
1. The number of samples are estimated because the same number of compounds are not reported for some parameters.
2. Numbers in the table represent the number of compounds reported in each analytical group.

Abbreviations:

DESA = Division of Environmental Science and Assessment
CLP = contract laboratory program
FB = field blank
FD = field duplicate
ID = identification
N = normal
NA = not applicable
SOP = standard operating procedure
TB = trip blank
TDS = total dissolved solids
TSS = total suspended solids
VOC = volatile organic compound
W = water
WG = groundwater

Parameter	DESA Method	CLP Method
Mercury	EPA 245.1 / SOP C-110	ISM01.3
Metals	EPA 200.7 / SOP C-109	ISM01.3
Nitrate/Nitrite	EPA 353.2 / SOP C-79	NA
Oil & Grease	EPA 1664A / SOP C-126	NA
Total dissolved solids	SM 2540 C / SOP C-37	NA
Total suspended solids	SM 2540 D / SOP C-33	NA
Volatile organic compound	EPA 524.2 / SOP DW-1	SOM01.2

Table 2

Data Usability Worksheet

Table 2 - DATA USABILITY WORKSHEET
Site: Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Medium: Groundwater

Data Quality Indicators (DQIs) and Corresponding Quality Control (QC) Parameters

Data Quality Indicators	QC Parameters Evaluated in Data Review/Validation
Precision	Relative Percent Difference (RPD) values of: 1) Laboratory Control sample (LCS)/LCS duplicate (LCSD) 2) Matrix Spike/Matrix Spike Duplicate (MS/MSD) 3) Field duplicates
Accuracy/Bias	Percent Recovery (Percent R) or Percent Difference (Percent D) values of: 1) Initial calibration and continuing calibration verification 2) LCS/LCSD 3) MS/MSD 4) Surrogate spikes 5) Serial dilution (Inductively Coupled Plasma [ICP] metals) 6) ICP inter-element interference check samples 7) Internal standards (Percent R and retention times) Results of: 1) Instrument and calibration blanks 2) Method (preparation) blanks 3) Trip blanks 4) Equipment rinsate blanks (field blanks)
Representativeness	Results of all blanks Sample integrity (Chain-of Custody and sample receipt forms) Holding times Compound identification (retention times, mass spectra, dual column confirmation) Sample extract cleanup
Comparability	Sample-specific method reporting limits (MRLs) Sample collection methods Laboratory analytical methods
Completeness	Data qualifiers Laboratory deliverables Requested/reported valid results Field sample collection (primary and QC samples) Contract compliance (i.e., method and instrument QC within limits)
Sensitivity	Sample MRLs Adequacy of sample dilution

Table 2 - DATA USABILITY WORKSHEET
Site: Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Medium: Groundwater

Activity	Comment
Field Sampling	
Discuss sampling problems and field conditions that affect data usability.	No additional Field Change Requests have been submitted since the last data evaluation conducted in November 2012.
Are samples representative of receptor exposure for this medium (e.g. sample depth, grab versus composite, filtered versus unfiltered, low flow, etc.)?	Sample representativeness was achieved by CDM Smith through the use of United States Environmental Protection Agency (EPA) Division of Environmental Science and Assessment (DESA) and standard EPA-approved analytical methods, decontaminated sampling equipment, the use of inert materials to collect samples, clean sample gloves, and standard sampling procedures for EPA Region 2. Samples were kept at 4 degrees Celsius and received intact at the laboratories with the exceptions noted in the data validation reports. The lack of detections of field blank contaminants is an indication that sample results are representative of the site conditions. In addition, the sampling design was developed to collect data representative of site conditions.
Assess the effect of field quality control (QC) results on data usability.	Trip Blanks were collected for both treatment system and quarterly sampling. Field/Rinsate Blanks were collected during the groundwater quarterly sample events. Only volatile organic compounds (VOCs) were analyzed for the trip and field/rinsate blanks. No VOCs were detected above the contract required quantitation limits (CRQLs) in the two field blanks collected. **Trip Blank -** Contaminants were detected in two trip blanks. All detections were below CRQLs. This affected several results, which were qualified as non-detect "U" by the data validator. Field duplicate samples are discussed in the precision section on page 3 below. This indicates that the data has good precision and is usable.
Summarize the effect of field sampling issues on the data assessment, if applicable.	No samples were rejected by the data validator during validation.
Analytical Techniques	
Were the analytical methods appropriate for quantitative data assessment?	Yes. The analytical methods used for the groundwater samples were appropriate for the remedial action (RA) quarterly progress report. A list of methods is included on Table 1, the Sampling Summary. In addition, the EPA Contract Laboratory Program (CLP) methods, Statement of Work (SOW) SOM01.2 or ISM01.3 and the EPA DESA standard operating procedure (SOP) methods were applied to meet the Quality Assurance Project Plan (QAPP) objectives.
Were detection limits adequate?	Detection limits were low enough to compare the data with applicable criteria listed in the QAPP. Compound project action limits (PALs) were identified in the Final QAPP worksheet #15 as being achievable. All reported quantitation limits were at or below the QAPP listed PALs, and the data are believed to be usable for the intended data uses.

Table 2 - DATA USABILITY WORKSHEET
Site: Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Medium: Groundwater

Activity	Comment
Analytical Techniques (Continued)	
Were detection limits adequate? (continued)	The CRQL for Methyl Acetate in water is 0.5 micrograms/liter (µg/L) (SOM01.2-Trace). The laboratory reporting limits were raised to 1 µg/L due to problems associated with the initial calibration curve for samples in sample delivery group (SDG) 1208002. Samples affect are CI-120815, EFF-120815, EW-1D-120815, EW-1S-120815, TB-120815, CI-120822, EFF-120822, and TB-120822. The higher reporting limits did not impact the usability of the data since this compound is not a site-specific contaminant of concern.
Summarize the effect of analytical technique issues on the data assessment, if applicable.	There are no analytical technique issues that should affect data usability. Analytes analyzed at dilutions had elevated detection limits. **Analytical Blank -** Laboratory method blanks showed detections resulting in qualification of VOCs and metal sample results. Associated sample results were appropriately qualified as estimated or non-detect. **Deuterated Monitoring Compounds** – Several deuterated monitoring compounds (DMCs) exceeded QC criteria. This affected results for VOCs, which were estimated by the data validator. **Percent Relative Standard Deviation (Percent RSD) and Percent Difference (Percent D)** - Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean relative response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. A value outside of these limits indicates potential detection and quantitation errors. Percent RSD and percent D recoveries were outside control limits for VOCs. Some of these results were estimated by the data validator. **Inductively coupled plasma (ICP) Serial Dilution (Inorganics)** - Several ICP serial dilutions did not yield acceptable percent D. Several metal results were estimated. **Other Problems** – The results of one sample did not meet criteria for other problems which are identified below. This affected several VOC samples, which were qualified as estimated by the data validator. Dichlorodifluoromethane concentration exceeded that of the highest standard in the associated Initial calibration and have been qualified “J”. The dilution analysis was done but dichlorodifluoromethane was less than the CRQL.

Table 2 - DATA USABILITY WORKSHEET
Site: Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Medium: Groundwater

Activity	Comment
Reconciliation of Data Quality Objectives	
Precision - How were duplicates handled?	Field duplicates were collected as split samples. A criterion of 50 percent relative percent difference (RPD) applied when both results were greater than five times the CRQL. For all other data the absolute difference (ABS) should be equal to or less than five times the CRQL. **Groundwater Quarterly Samples –** VOCs No outliers failed the applicable RPD or ABS criteria. As shown on Table 3, all of the groundwater quarterly sample field duplicate results met the Final QAPP precision criteria. **Matrix Spike (MS)** – Several MS results did not meet QC criteria. MS results affected metals results, which were qualified as estimated by the data validator. In addition, MS recovery results were also affected for oil and grease, which were qualified as estimated "L" by the validator.
Accuracy - How were split samples handled?	Split samples were not collected.
Representativeness - Indicate any problems associated with data representativeness (e.g., trip blank or rinsate blank contamination, chain of custody problems, etc.).	VOCs were analyzed for the trip and field blanks. No compounds were detected in the field blanks. No compounds were detected above the CRQLs in the trip blanks. **<u>Trip Blanks</u>** Chloromethane and trichloroethene were detected in trip blanks below the CRQL and should have no impact on the sample results. (Table 4). Data was qualified as non-detect by the validator.
Completeness - Indicate any problems associated with data completeness (e.g., incorrect sample analysis, incomplete sample records, problems with field procedures, etc.).	The overall goal was to generate a complete data set for at least 90 percent of the samples planned for collection and 90 percent valid data from the samples analyzed. CDM Smith achieved data completeness and usability established in the Final QAPP. Completeness of the data set achieved by CDM Smith is presented in Table 5. It is important to note that the values reported as estimated ("J" and "L"), include only detected results. Non-detect results were estimated using "U", "UJ" and "UL" qualifiers. The list of samples collected and parameters analyzed are shown on Table 1 of this assessment. One hundred percent of the data collected was judged to be valid. The data validation narratives indicate that the sample analyses generally met the QC criteria cited in the methods with the exceptions noted in the data narratives. Results associated with QC outliers were qualified as estimated by data validators. Approximately 3.55 percent of all the groundwater results were estimated. These estimated data are usable for the intended project purposes.

Table 2 - DATA USABILITY WORKSHEET
Site: Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Medium: Groundwater

Activity	Comment
Reconciliation of Data Quality Objectives (continued)	
Completeness - Indicate any problems associated with data completeness (e.g., incorrect sample analysis, incomplete sample records, problems with field procedures, etc.). (continued)	Thirty-four samples were planned during the May to July 2012 sampling events and 32 samples were collected. Eighty-five percent of the planned samples were collected for the groundwater treatment system samples. Two extraction wells were not working due to operation and maintenance issues. The issues are discussed in the quarterly progress report. In addition to requested parameters, mercury was collected once a month, and oil and grease was collected during the August and September events. One hundred percent of the planned samples were collected for the quarterly sampling event. The data set is complete based on planned samples.
Comparability - Indicate any problems associated with data comparability.	No problems were associated with data comparability.
Were the DQOs specified in the QAPP satisfied?	Yes, the data quality objectives (DQOs) identified in the QAPP were satisfied.
Summarize the effect of DQO issues on the data assessment, if applicable.	There are no DQO issues that should affect data usability.
Data Validation and Interpretation	
What are the data validation requirements?	Page 1 shows the DQIs and Corresponding QC Parameters and the specific topics covered by the data validation review.
What method or guidance was used to validate the data?	The data validation SOP listed in the QAPP was applied: SOP HW-34, revision (rev) 1, HW-2, rev 13, and DESA SOPs
Was the data validation method consistent with guidance? Discuss any discrepancies.	Yes. The data validation method was consistent with regional guidance.
Were all data qualifiers defined? Discuss those which were not.	Yes. All data qualifiers were defined.
Which qualifiers represent usable data?	J, L, UL, U, and UJ

Table 2 - DATA USABILITY WORKSHEET
Site: Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Medium: Groundwater

Activity	Comment
Data Validation and Interpretation (continued)	
Which qualifiers represent unusable data?	None. There were no rejected data.
How are tentatively identified compounds handled?	These data were not evaluated under this study.
Summarize the effect of data validation and interpretation issues on the data assessment, if applicable.	All data, both qualified and unqualified will be used, unless determined otherwise during the RA quarterly progress report evaluation.
Additional notes:	None.

Note: This Worksheet summarizes the data usability analysis and conclusions. Refer to specific pages in the Remedial Action quarterly progress report for additional details on the information presented here.

Table 3
Field Duplicate Results

Table 3
Field Duplicate Results
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, New York

Chemical Name	5 x CRQL	Unit	SVP-4-5/RAQ3-2012	SVP-104-5/RAQ3-2012	RPD	ABS
			SVP/GWM-4-5	SVP/GWM-4-5		
			9/25/2012	9/25/2012		
Volatile Organic Compounds						
1,1,1-Trichloroethane	2.5	µg/L	0.5 U	0.5 U	NC	NA
1,1,2,2-Tetrachloroethane	2.5	µg/L	0.5 U	0.5 U	NC	NA
1,1,2-Trichloroethane	2.5	µg/L	0.5 U	0.5 U	NC	NA
1,1,2-Trichlorotrifluoroethane	2.5	µg/L	0.5 U	0.5 U	NC	NA
1,1-Dichloroethane	2.5	µg/L	0.22 J	0.14 J	NA	0.08
1,1-Dichloroethene	2.5	µg/L	0.5 U	0.5 U	NC	NA
1,2,3-Trichlorobenzene	2.5	µg/L	0.5 U	0.5 U	NC	NA
1,2,4-Trichlorobenzene	2.5	µg/L	0.5 U	0.5 U	NC	NA
1,2-Dibromo-3-Chloropropane	2.5	µg/L	0.5 U	0.5 U	NC	NA
1,2-Dibromoethane	2.5	µg/L	0.5 U	0.5 U	NC	NA
1,2-Dichlorobenzene	2.5	µg/L	0.5 U	0.5 U	NC	NA
1,2-Dichloroethane	2.5	µg/L	0.5 U	0.5 U	NC	NA
1,2-Dichloropropane	2.5	µg/L	0.5 U	0.5 U	NC	NA
1,3-Dichlorobenzene	2.5	µg/L	0.5 U	0.5 U	NC	NA
1,4-Dichlorobenzene	2.5	µg/L	0.5 U	0.5 U	NC	NA
2-Butanone (MEK)	25.0	µg/L	5 U	5 U	NC	NA
2-Hexanone	25.0	µg/L	5 U	5 U	NC	NA
4-Methyl-2-Pentanone (MIBK)	25.0	µg/L	5 U	5 U	NC	NA
Acetone	25.0	µg/L	5 U	2.5 J	NC	2.5
Benzene	2.5	µg/L	0.5 U	0.5 U	NC	NA
Bromochloromethane	2.5	µg/L	0.5 U	0.5 U	NC	NA
Bromodichloromethane	2.5	µg/L	0.5 U	0.5 U	NC	NA
Bromoform	2.5	µg/L	0.5 U	0.5 U	NC	NA
Bromomethane	2.5	µg/L	0.5 U	0.5 U	NC	NA
Carbon Disulfide	2.5	µg/L	0.5 U	0.5 U	NC	NA
Carbon Tetrachloride	2.5	µg/L	0.5 U	0.5 U	NC	NA
Chlorobenzene	2.5	µg/L	0.5 U	0.5 U	NC	NA
Chloroethane	2.5	µg/L	0.5 U	0.5 U	NC	NA
Chloroform	2.5	µg/L	0.5 U	0.5 U	NC	NA
Chloromethane	2.5	µg/L	0.5 U	0.5 U	NC	NA
cis-1,2-Dichloroethene	2.5	µg/L	2.9	2	NC	0.9
cis-1,3-Dichloropropene	2.5	µg/L	0.5 U	0.5 U	NC	NA
Cyclohexane	2.5	µg/L	0.5 U	0.5 U	NC	NA
Dibromochloromethane	2.5	µg/L	0.5 U	0.5 U	NC	NA
Dichlorodifluoromethane	2.5	µg/L	6	4.4	30.77	NA
Ethylbenzene	2.5	µg/L	0.5 U	0.5 U	NC	NA
Isopropylbenzene	2.5	µg/L	0.5 U	0.5 U	NC	NA
m,p-Xylene	2.5	µg/L	0.5 U	0.5 U	NC	NA
Methyl Acetate	2.5	µg/L	0.5 U	0.5 U	NC	NA
Methyl Tert-Butyl Ether	2.5	µg/L	2	1.9	NC	0.1
Methylcylohexane	2.5	µg/L	0.5 U	0.5 U	NC	NA
Methylene Chloride	2.5	µg/L	0.5 U	0.5 U	NC	NA
o-Xylene	2.5	µg/L	0.5 U	0.5 U	NC	NA
Styrene	2.5	µg/L	0.5 U	0.5 U	NC	NA
Tetrachloroethene	2.5	µg/L	86	61	34.01	NA
Toluene	2.5	µg/L	0.5 U	0.5 U	NC	NA
trans-1,2-Dichloroethene	2.5	µg/L	0.5 U	0.5 U	NC	NA
trans-1,3-Dichloropropene	2.5	µg/L	0.5 U	0.5 U	NC	NA
Trichloroethene	2.5	µg/L	33	25	27.59	NA
Trichlorofluoromethane	2.5	µg/L	0.5 U	0.5 U	NC	NA
Vinyl Chloride	2.5	µg/L	0.5 U	0.5 U	NC	NA

Table 3
Field Duplicate Results
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, New York

Notes:
ABS = absolute difference
CRQL = contract required quantitation limit
NA = not applicable
NC = not calculable
RPD = relative percent difference
µg/L = microgram per liter

Data Validation Qualifiers
J - Estimated data due to exceeded quality control criteria.
U - Compound was analyzed but not detected. The associated numerical value is the sample quantitation limit.

Table 4
Trip Blank Results

Table 4
Trip Blank Results
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, New York

Chemical Name	CRQL	Unit	TB-120815		TB-120822		TB-120911		TB092512		TB092612		TB-120926	
			8/15/2012		8/22/2012		9/11/2012		9/25/2012		9/26/2012		9/26/2012	
VOC														
Chloromethane	0.5	µg/L	0.5	U	0.5	U	*0.27*	*J*	0.5	U	0.5	U	*0.19*	*J*
Trichloroethene	0.5	µg/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	*0.084*	*J*

Notes:
1. Compounds for which there were no detects are not included in the table above.
2. Hits below the CRQL are highlighted and italicized.
3. No compounds were detected in the field blanks.

CRQL = contact required quantitation limit
VOC = volatile organic compound
J = Estimated data due to exceeded quality control criteria.
U = Compound was analyzed but not detected. The associated numerical value is the sample quantitation limit.
µg/L = microgram per liter

Table 5
Data Completeness Report

Table 5
Data Completeness Report
Old Roosevelt Field Contaminated Groundwater Area Superfund Site
Garden City, New York

Analytical Parameter	No. of Hits	No. of Estimated Hits	No. of Non-Detects	No. of Rejects	Total	Percent Rejected	Percent Estimated Hits
Mercury	0	0	4	0	4	0.00	0.00
Metals	21	9	58	0	88	0.00	10.23
Nitrate-Nitrite	4	0	0	0	4	0.00	0.00
Oil & Grease	0	0	4	0	4	0.00	0.00
Total Dissolved Solids	4	0	0	0	4	0.00	0.00
Total Suspended Solids	0	0	4	0	4	0.00	0.00
VOCs	114	44	1226	0	1384	0.00	3.18
Sum	143	53	1296	0	1492	0.00	3.55
Total Completeness						100.00	

Percent of all Data Rejected	0.00	
Percent of all Hits Estimated	3.55	(does not include estimated non-detect data)
Percent Complete (judged valid)	100.00	(Includes all estimated data)

Notes:
The counts and calculations above do not include field or trip blank samples only environmental samples.

VOC = volatile organic compound